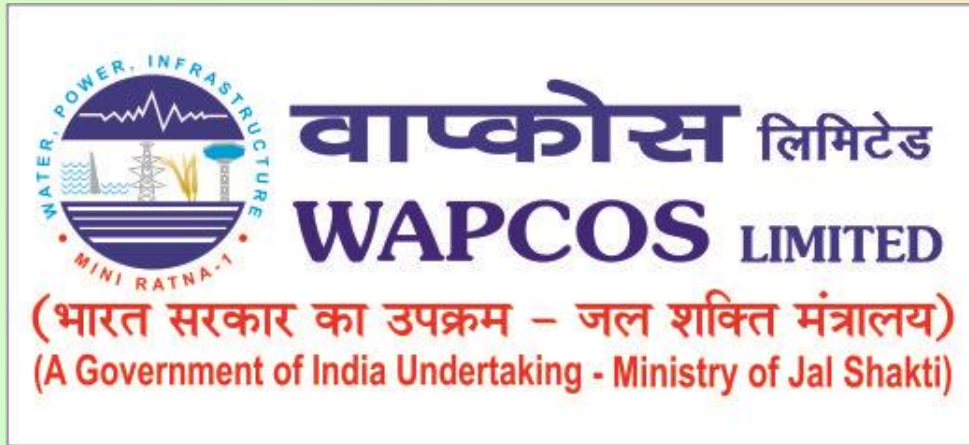


GOVERNMENT OF INDIA

NITI AAYOG

**IMPACT ASSESSMENT OF IWMP
PROJECTS IN INDIA**

FINAL REPORT



**76-C, INSTITUTIONAL AREA, SECTOR -18,
GURGAON, HARYANA -122 015**

JANUARY, 2021

CONTENTS

Chapter No.	PARTICULARS		Page No.
	Executive Summary		E-1 to E-32
1	Introduction		1-1 to 1-3
2	Approach & Methodology		2-1 to 2-10
3	Research & Discussions		1-952
State	District	Name of IWMP	
Andhra Pradesh	Anantapur	IWMP-II	2-8
	Anantapur	IWMP-I	9-15
	Prakasam	IWMP-V	16-22
	Srikakulam	IWMP-I	23-30
	Srikakulam	IWMP-III	31-37
Assam	Goalpara	IWMP-I	39-45
	Jorhat	IWMP-I	46-52
	Goalpara	IWMP-II	53-59
	Nagaon	IWMP-II	60-66
Chhattisgarh	Raigarh	IWMP-I	68-74
	Raigarh	IWMP-II	75-81
	Balod	IWMP-III	82-88
	Raipur	IWMP-IV	89-95
Gujarat	Jamnagar	IWMP-II	97-103
	Jamnagar	IWMP-III	104-110
	Jamnagar	IWMP-VI	111-117
	Jamnagar	IWMP-VIII	118-124
	Junagadh	IWMP-I	125-131
	Junagadh	IWMP-VI	132-138
	Junagadh	IWMP-VII	139-145
	Junagadh	IWMP-VIII	146-152
	Ahmadabad	IWMP-IV	153-159
	Ahmadabad	IWMP-V	160-166
	Ahmadabad	IWMP-VII	167-173
	Ahmadabad	IWMP-IX	174-179
	Surat	IWMP-I	180-186
	Surat	IWMP-III	187-193
	Surat	IWMP-VI	194-200
	Surat	IWMP-IX	201-207
	Banas Kantha	IWMP-I	208-214
	Banas Kantha	IWMP-III	215-221
	Banas Kantha	IWMP-VII	222-228
	Banas Kantha	IWMP-VIII	229-235
Jharkhand	Ranchi	IWMP-I	237-243
	Deoghar	IWMP-I	244-250

Karnataka	Mysore	IWMP-II	252-258
	Mysore	IWMP-III	259-265
	Mysore	IWMP-IV	266-272
	Mysore	IWMP-V	273-279
	Mysore	IWMP-VI	280-286
	Mysore	IWMP-VII	287-293
	Raichur	IWMP-I	294-300
	Raichur	IWMP-II	301-306
	Raichur	IWMP-III	307-313
	Raichur	IWMP-IV	314-320
	Raichur	IWMP-VII	321-327
	Raichur	IWMP-VIII	328-334
	Shimoga	IWMP-I	335-341
	Shimoga	IWMP-II	342-348
	Shimoga	IWMP-III	349-355
	Shimoga	IWMP-XI	356-362
	Shimoga	IWMP-XII	363-369
	Shimoga	IWMP-XIII	370-376
Kerala	Thrissur	IWMP-I	378-384
	Thiruvananthapuram	IWMP-I	385-391
Madhya Pradesh	Bhopal	IWMP-I	393-399
	Bhopal	IWMP-II	400-405
	Bhopal	IWMP-III	406-412
	Jabalpur	IWMP-I	413-419
	Jabalpur	IWMP-II	420-426
	Gwalior	IWMP-II	427-433
	Gwalior	IWMP-III	434-440
	Ujjain	IWMP-I	441-447
	Ujjain	IWMP-II	448-454
Maharashtra	Amravati	IWMP-I	456-462
	Amravati	IWMP-II	463-468
	Amravati	IWMP-III	469-475
	Amravati	IWMP-IV	476-482
	Aurangabad	IWMP-I	483-489
	Aurangabad	IWMP-II	490-496
	Aurangabad	IWMP-III	497-503
	Aurangabad	IWMP-IV	504-510
	Latur	IWMP-I	511-517
	Latur	IWMP-II	518-524
	Latur	IWMP-III	525-531
	Latur	IWMP-IV	532-538
	Latur	IWMP-VI	539-545
	Pune	IWMP-III	546-552
	Pune	IWMP-IV	553-559
	Pune	IWMP-V	560-566
	Pune	IWMP-VI	567-573
Meghalaya	East Khasi Hills	IWMP-I	575-581
	East Khasi Hills	IWMP-IV	582-588
	East Khasi Hills	IWMP-V	589-595
Mizoram	Siaha	IWMP-I	597-603
	Aizawal	IWMP-IV	604-610

Nagaland	Mokokchung	IWMP-I	611-617
	Kohima	IWMP-III	618-624
	Kohima	IWMP-IV	625-631
Odisha	Cuttack	IWMP-I	633-639
	Cuttack	IWMP-II	640-646
	Bolangar	IWMP-I	647-655
	Koraput	IWMP-IV	656-662
	Koraput	IWMP-V	663-670
Rajasthan	Alwar	IWMP-I	671-678
	Alwar	IWMP-II	679-685
	Bikaner	IWMP-I	686-692
	Bikaner	IWMP-IV	693-699
	Udaipur	IWMP-I	700-706
	Udaipur	IWMP-II	707-713
	Udaipur	IWMP-III	714-721
	Udaipur	IWMP-IV	722-728
	Udaipur	IWMP-V	729-735
	Udaipur	IWMP-VI	736-742
	Ajmer	IWMP-II	743-749
	Ajmer	IWMP-III	750-757
	Ajmer	IWMP-V	758-764
	Ajmer	IWMP-VI	765-773
	Kota	IWMP-I	774-780
	Kota	IWMP-II	781-787
	Kota	IWMP-III	788-794
Kota	IWMP-IV	795-801	
Tamilnadu	Vellore	IWMP-II	803-809
	Vellore	IWMP-III	810-816
	Madurai	IWMP-II	817-823
	Madurai	IWMP-III	824-830
	Coimbatore	IWMP-I	831-837
	Coimbatore	IWMP-II	838-844
	Coimbatore	IWMP-IV	845-851
	Coimbatore	IWMP-V	852-858
Telengana	Adilabad	IWMP-II	860-866
	Suryapet	IWMP-I	867-873
	Sangareddy	IWMP-I	874-880
Tripura	Gomati	IWMP-I	882-888
	North Tripura	IWMP-II	889-895
Uttar Pradesh	Jhansi	IWMP-I	897-903
	Chitrakoot	IWMP-II	904-910
	Gorakhpur	IWMP-I	911-917
	Lucknow	IWMP-II	918-924
	Lakhimpur Kheri	IWMP-I	925-931
	Lakhimpur Kheri	IWMP-III	932-938
	Meerut	IWMP-I	939-945
Mathura	IWMP-I	946-952	

EXECUTIVE SUMMARY

NITI AAYOG, Government of India awarded a study **Impact Evaluation of Integrated Watershed Management Programme** to WAPCOS vide letter no. 0-15012/54/18-Research dated 15.03.2019.

The main objective of the study was to carry out impact evaluation of watershed management schemes implemented in various states for managing water resources sustainability with the overall objective of enhancing the socio-economic benefits of the people in particular and the region at large. The Scope of study involves the following.

- To record the changes observed in **natural resources** in the project area. This include change in Land use & Land cover, reclamation of waste-land, change in irrigated areas, change in ground water & surface water profiles and change in soil profiles (quality & reduction in run-off).
- To assess the **change in agriculture sector** i.e. change in cropping pattern, area expansion, production, productivity of major crops, cropping intensity and diversity.
- To assess **the change in economy** of the watershed community—i.e. change in Income, Employment, Skill enhancement if any & Expenditure Patterns.
- To assess the **level of people's participation** in the project and its implications.
- To assess the **level & pattern of fund utilization** by states and explore reasons for unspent balances or low spending along with suggestions for improvement.
- To assess the **post project maintenance of assets & institutions** generated under the project and suggest policy option for their sustenance.
- Provide an **overall national level summary** of findings and document the best practices observed, lessons learnt etc. with policy suggestions for future improvement.

The study required collection of various primary and secondary data for which questionnaires were specially prepared by WAPCOS as per the sampling plan. For this purpose, 134 sample projects were selected randomly in consultation with Niti Ayog, MoRD, GoI, and state Government covering 18 states of the country, where IWMP projects under Batch I&II were completed.

From each selected project, three villages have been selected for conducting household survey representing ridge, middle and valley portion of the micro watershed. In each selected village, 9 households / beneficiaries have been selected for interviews. This involve of SC, ST, small & marginal farmers & women in proportion to their numbers. Thus, total 27 households have been covered in each project. In addition to the above, Focus Group Discussion with the Field Functionaries, knowledgeable farmers and office bearers of village-Panchayat have been conducted for collection of relevant information using structured but open ended data collection schedule.

Project Wise Master Summary of Impact Evaluation of Completed Sample IWMP Projects is as follows:-

**PROJECT WISE MASTER SUMMARY OF IWMP IMPACT EVALUATION OF COMPLETED SAMPLE IWMP PROJECTS
STATE - ANDHRA PRADESH**

S.No.	Project / Block	District	Year of Sanction	Amount sanctioned (Rs. lakh)	Amount utilized		Project wise Physical achievement						
					Rs. Lakh	%	NRM			PRODUCTION			SHG Achievement Vis-a-vis Target
							Target	Completed	Unattended	Target	Completed	Unattended	
1	IWMP-1/ narpala	Anantapur	2009-10	306.8	268.7	87.6	50	50	-	66.7	33.3	-	74.2
2	IWMP- 2/tanakal	Anantapur	2011-12	561.4	492.3	87.7	66.7	33.3	-	100		-	78.6
3	IWMP- 5/marripudi	Prakasam	2009-10	636.0	547.2	86.0	80	10	10	100	-	-	90
4	IWMP- 1/nandigam	Srikakulam	2009-10	600.7	346.8	57.7	-	66.7	33.3	42.8	14.3	42.9	80
5	IWMP- 3/mandesa	Srikakulam	2009-10	336.0	204.8	60.9	25	62.5	12.5	66.7	16.7	16.6	66

OVER ALL INDICATOR WISE IMPACT EVALUATION OF SAMPLE PROJECTS OF ANDHRA PRADESH

1. **Water Table-** The expected target of water table not achieved in the entire sample projects.
2. **Change in irrigated area-** On average 86% target achieved.
3. **Area under agriculture-** About 92 % target achieved.
4. **Crop productivity-** On average crop productivity increased by 4.50% only.
5. **Area in horticulture crop-** 60% target has been achieved.
6. **SHG formation-** 78% SHG were formed against the target .
7. **Income (Rs.)** – 7.10% income of house hold has increased.
8. **Migration-** 83% reduction in migration.
9. **Cropping intensity-** Expected target of cropping intensity short by 13%.
10. **Waste land development-** 65% target achieved.
11. **Area under vegetation-** Target 41% of vegetation has been achieved.

PROJECT WISE MASTER SUMMARY OF IWMP IMPACT EVALUATION OF COMPLETED SAMPLE IWMP PROJECTS

STATE - ASSAM

S.No.	Project / Block	District	Year of Sanction	Amount sanctioned (Rs. lakh)	Amount utilized		Project wise Physical achievement						
					Rs. Lakh	%	NRM			PRODUCTION			SHG Achievement Vis-à-vis Target
							Target	Completed	Unattended	Target	Completed	Unattended	
1	IWMP-1/mitia	Goalpara	2009-10	415.1	285.3	68.7	22.2	66.7	11.1	33.3	44.5	22.2	82
2	IWMP-2/kaliapani	Goalpara	2009-10	240	166.4	69.3	30	50	20	44.4	55.6	-	84
3	IWMP-1/lakhipur	gorhat	2009-10	607.6	292.8	64.6	50	37.5	12.5	22.2	44.5	33.3	73
4	IWMP-1/brahampur	Nagaon	2009-10	444.8	309.1	69.5	12.5	62.5	25	33.3	44.5	22.2	63

OVER ALL INDICATOR WISE IMPACT EVALUATION OF SAMPLE PROJECTS OF ASSAM

1. **Water Table** - The expected target of water table not achieved in all the projects.
2. **Change in Irrigated Area** – On average 85% target achieved.
3. **Area Under Agriculture Crop**- About 89% target achieved
4. **Crop productivity** – The crop productivity increased 6.10% only.
5. **Area in Horticulture Crop**- 55.10% target has been achieved.
6. **SHG Formation** – 75% SHG were formed against the target.
7. **Income (Rs.)** – 6.58 % income of house hold has increased.
8. **Migration**- 78% reduction in migration.
9. **Cropping Intensity**- Target of cropping Intensity short by 15. %
10. **Waste development** – 25.6% target achieved

PROJECT WISE MASTER SUMMARY OF IWMP IMPACT EVALUATION OF COMPLETED SAMPLE IWMP PROJECTS

STATE - CHHATTISGARH

S.No.	Project / Block	District	Year of Sanction	Amount sanctioned (Rs. lakh)	Amount utilized		Project wise Physical achievement %						
					Rs. Lakh	%	NRM			PRODUCTION			SHG Achievement Vis-à-vis Target
							Target	Completed	Unattended	Target	Completed	Unattended	
1	IWMP-1/lailunga	Raigarh	2009-10	990	349.5	35.3	10	70	20	25	62.5	12.5	64
2	IWMP-2/sarangarh	Raigarh	3009-10	720	325.1	45.1	9.1	54.5	36.4	25	37.5	37.5	69
3	IWMP-4/abhanpur	Raipur	2010-11	579.6	321.3	55.4	11.1	55.6	33.3	25	50	25	73
4	IWMP-3/dondirobara	Balod	2010-11	600	253.3	42.2	10	50	40	37.5	37.5	25	70

OVER ALL INDICATOR WISE IMPACT EVALUATION OF SAMPLE PROJECTS OF CHHATTISGARH

1. **Water Table** - The expected target of water table not achieved in all the projects.
2. **Change in Irrigated Area** – On average 76% target achieved.
3. **Area Under Agriculture Crop**- About 85% target achieved
4. **Crop productivity** – On average crop productivity increased by 6.4% only.
5. **Area in Horticulture Crop**- 62. % target has been achieved.
6. **SHG Formation** – 69%SHG were formed against the target.
7. **Income (Rs.)** – 7.74 % income of house hold has increased.
8. **Migration**- 58% reduction in migration.
9. **Cropping Intensity**-Target of cropping Intensity short by 20.5%
10. **Waste development** – 33% target achieved

PROJECT WISE MASTER SUMMARY OF IWMP IMPACT EVALUATION OF COMPLETED SAMPLE IWMP PROJECTS

STATE – GUJARAT

S.No.	Project / Block	District	Year of Sanction	Amount sanctioned (Rs. lakh)	Amount utilized		Project wise Physical achievement						
					Rs. Lakh	%	NRM			PRODUCTION			SHG Achievement Vis-à-vis Target
							Target	Completed	Unattended	Target	Completed	Unattended	
1	IWMP-4 (dhandhuka)	Ahmadabad	2009-10	406	259.2	63.8	16.7	58.3	25	12.5	75	12.5	57
2	IWMP-5 (Mandal)	Ahmadabad	2009-10	243.6	153.5	63	22.2	44.5	33.3	28.6	42.8	28.6	70
3	IWMP-7 (Mandal)	Ahmadabad	2010-11	615.3	407.3	66.2	20	50	30	16.7	66.6	16.7	68
4	IWMP-9 (Dhandhuka)	Ahmadabad	2010-11	689.6	353.1	51.2	27.3	54.5	18.2	22.2	66.7	11.1	68
5	IWMP-1 Tharad	BanasKantha	2009-10	735	544.3	74	22.2	66.7	11.1	28.6	71.4	-	63
6	IWMP-3 Tharad	BanasKantha	2009-10	750	482.5	64.3	18.2	63.6	18.2	28.6	71.4	-	76
7	IWMP-7	BanasKantha	2010-11	750	356.3	47.5	20	60	20	28.6	71.4	-	70

	Tharad												
8	IWMP-8 Tharad	BanasKantha	2010-11	741	468	63.2	20	70	10	28.6	57.1	14.3	75
9	IWMP-2 Khambhalia	Jamnagar	2009-10	888.9	458.6	51.6	20	70	10	28.6	71.4	-	56
10	IWMP-3 Khambhalia	Jamnagar	2009-10	921.1	625.6	67.9	36.4	36.3	27.3	16.7	83.3	-	65
11	IWMP-7 Khambhalia	Jamnagar	2010-11	625.7	436.9	69.8	27.3	45.4	27.3	33.3	33.3	33.4	70
12	IWMP-8 Khambhalia	Jamnagar	2010-11	743.7	335.1	45.1	16.7	58.3	25	25	50	25	72
13	IWMP-1 una	Junagadh	2009-10	584.7	396.8	67.8	27.3	54.5	18.2	16.7	83.3	-	79
14	IWMP-6 Junagadh	Junagadh	2009-10	588.9	327.9	55.6	21.4	64.3	14.3	16.7	83.3	-	71
15	IWMP-7 una	Junagadh	2010-11	647.1	217.9	33.7	16.7	66.6	16.7	33.3	50	16.7	76
16	IWMP-8 Junagadh	Junagadh	2010-11	603.2	210.3	34.8	22.2	55.6	22.2	20	80	-	85
17	IWMP-1 Mangrol	Surat	2009-10	600	458.6	76.4	36.4	54.5	9.1	33.3	50	16.7	80

18	IWMP-3 Mandvi	Surat	2009-10	600	374.7	62.5	20	50	30	20	40	40	60
19	IWMP-6 Mandvi	Surat	2010-11	564	350.9	53.6	30.7	38.6	30.7	50	33.3	16.7	70
20	IWMP-9 Mandvi	Surat	2010-11	769	444.6	57.8	25	58.3	16.7	16.7	66.6	16.7	80

OVER ALL INDICATOR WISE IMPACT EVALUATION OF SAMPLE PROJECTS OF GUJARAT

1. **Water Table** -The expected target of water table not achieved in all the projects.
2. **Change in Irrigated Area** – on average 89% target achieved.
3. **Area Under Agriculture Crop**- About 95% target achieved
4. **Crop productivity** – On average crop productivity increased by 5.12% only.
5. **Area in Horticulture Crop**- 54% target has been achieved.
6. **SHG Formation** – 66% SHG were formed against the target.
7. **Income (Rs.)** – 5.72 % income of house hold has increased.
8. **Migration**- 63% reduction in migration.
9. **Cropping Intensity**- Target of cropping Intensity short by 17 percent.
10. **Waste development** – 49.20% target achieved

PROJECT WISE MASTER SUMMARY OF IWMP IMPACT EVALUATION OF COMPLETED SAMPLE IWMP PROJECTS

STATE – JHARKHAND

S.No.	Project / block	District	Year of Sanction	Amount sanctioned (Rs. lakh)	Amount utilized		Project wise Physical achievement						
					Rs. Lakh	%	NRM			PRODUCTION			SHG Achievement Vis-à-vis Target
							Target	Completed	Unattended	Target	Completed	Unattended	
1	IWMP-1/ Ratu, Kanke, Burmu	Ranchi	2009-10	818.3	398.9	48.7	-	83.3	16.7	71.4	28.6	-	81
2	IWMP-1/ Madhupur ,Devipur	Deoghar	2009-10	1288.7	615.1	47.7	25	75	-	42.8	57.2	-	72

OVER ALL INDICATOR WISE IMPACT EVALUATION OF SAMPLE PROJECTS OF JHARKHAND

1. **Water Table-** The expected target of water table not achieved in the entire sample projects.
2. **Change in irrigated area-** On average 88% target achieved.
3. **Area under agriculture-** About 82 % target achieved.
4. **Crop productivity-** On average crop productivity increased by 6.73% only.
5. **Area in horticulture crop-** 72%target has been achieved.
6. **SHG formation-** 76%SHGwere formed against the target.
7. **Income (Rs.) –** 8.34% income of house hold has increased.
8. **Migration-** 65%reduction in migration.
9. **Cropping intensity-** Target of cropping intensity short by 9 percent.
10. **Waste land development-** 51.0% target achieved.
11. **Area under vegetation-** 47 % target of vegetation has been achieved.

PROJECT WISE MASTER SUMMARY OF IWMP IMPACT EVALUATION OF COMPLETED SAMPLE IWMP PROJECTS

STATE – KARNATAKA

S.No.	Project / Block	District	Year of Sanction	Amount sanctioned (Rs. lakh)	Amount utilized		Project wise Physical achievement						
					Rs. Lakh	Rs. Lakh	NRM			PRODUCTION			SHG Achievement Vis-à-vis Target
							Target	Completed	Unattended	Target	Completed	Unattended	
1	IWMP-1/ Shimoga	Shimoga	2009-10	691.8	636.4	92	70	30	-	66.7	33.3	-	72
2	IWMP-2/ Tirthahalli	Shimoga	2009-10	573.6	497.2	87	62.5	37.5	-	57.2	42.8	-	60
3	IWMP-3/ Tirthahalli	Shimoga	2009-10	531.8	429	81	62.5	37.5	-	71.4	28.6	-	55
4	IWMP-11/ Shimoga	Shimoga	2010-11	451.5	423.5	94	62.5	37.5	-	71.4	28.6	-	58
5	IWMP-12/ Sagar	Shimoga	2010-11	456	436.6	96	57.1	42.9	-	75	25	-	64

6	IWMP-13/ Tirthahalli	Shimoga	2010-11	450	413.6	92	50	50	-	75	25	-	53
7	IWMP-2/ Krishnarajanagara	Mysore	2009-10	294	268.9	91.5	80	20	-	100	-	-	62
8	IWMP-3/ Heggadadevanakote	Mysore	2009-10	595.9	553	92.8	75	25	-	100	-	-	69
9	IWMP-4/ Hunsur	Mysore	2009-10	613.5	582.6	94.9	80	20	-	100	-	-	71
10	IWMP-5/ Nanjangud	Mysore	2010-11	534	491.6	92.1	80	20	-	100	-	-	64
11	IWMP-6/ Nanjangud	Mysore	2010-11	706.7	668.2	94.6	85.7	14.3-	-	100	-	-	85
12	IWMP-7/ Piriyapatna	Mysore	2010-11	806.5	802.9	99.5	88.9	11.1	-	100	-	-	71
13	IWMP-1/ Sindhanur	Raichur	2009-10	628.8	515.6	82	50	50	-	100	-	-	75
14	IWMP-2/ Lingsugur	Raichur	2009-10	655.5	468.1	71.4	50	50	-	75	25	-	66
15	IWMP-3/ Manvi	Raichur	2009-10	354	282.9	80	50	50	-	75	25	-	74

16	IWMP-8/ Lingsugur	Raichur	2010-11	630	525.6	83.4	50	50	-	75	25	-	57
17	IWMP-6/ Sindhanur	Raichur	2010-11	628.5	500.8	73.4	50	50	-	60	40	-	84
18	IWMP-7/ Raichur	Raichur	2010-11	765	502.5	65.7	33.3	50	16.7	60	40	-	75

OVER ALL INDICATOR WISE IMPACT EVALUATION OF SAMPLE PROJECTS OF KARNATAKA

1. **Water Table-** The expected target of water table not achieved in the entire sample projects.
2. **Change in irrigated area-** On average 84% target achieved.
3. **Area under agriculture-** About 93 % target achieved.
4. **Crop productivity-** On average crop productivity increased by 6.23% only.
5. **Area in horticulture crop-** 60% target has been achieved.
6. **SHG formation-** 67.69% SHG were formed against the target.
7. **Income (Rs.)** – 7.33% income has increased.
8. **Migration-** 73.95% reduction in migration.
9. **Cropping intensity-** Target of cropping intensity short by 11 percent.
10. **Waste land development-** 38.36% target achieved.
11. **Area under vegetation-** Target of vegetation has been 55.30% achieved.

PROJECT WISE MASTER SUMMARY OF IWMP IMPACT EVALUATION OF COMPLETED SAMPLE IWMP PROJECTS

STATE – KERALA

S.No.	Project / Block	District	Year of Sanction	Amount sanctioned (Rs. lakh)	Amount utilized		Project wise Physical achievement						SHG Achievement Vis-à-vis Target
							NRM			PRODUCTION			
					Rs. Lakh	Rs. Lakh	Target	Completed	Unattended	Target	Completed	Unattended	
1	IWMP-1/ Ollukkara	Thrissur	2010-11	685.4	214	31.2	22.2	22.2	55.6	25	75	-	70
2	IWMP-1/ Vamanapuram	Thiruvananthapuram	2010-11	1123.8	383.1	34.1	25	37.5	37.5	50	50	-	68

OVER ALL INDICATOR WISE IMPACT EVALUATION OF SAMPLE PROJECTS OF KERALA

1. **Water Table-** The expected target of water table not achieved in the entire sample projects.
2. **Change in irrigated area-** On average 89% target achieved.
3. **Area under agriculture-** About 82 %e target achieved.
4. **Crop productivity-** On average crop productivity increased by 4.30 per cent only.
5. **Area in horticulture crop-** 81% target has been achieved.
6. **SHG formation-** 72 % SHG were formed against the target.
7. **Income (Rs.) –** 8.21% income has been increased.
8. **Migration-** 78% reduction in migration.
9. **Cropping intensity-** Target of cropping intensity short by 10 percent.
10. **Waste land development-** 46% target achieved.
11. **Area under vegetation-** Target of vegetation has been achieved.

PROJECT WISE MASTER SUMMARY OF IWMP IMPACT EVALUATION OF COMPLETED SAMPLE IWMP PROJECTS

STATE – MADHYA PRADESH

S.No.	Project / Block	District	Year of Sanction	Amount sanctioned(Rs. lakh)	Amount utilized		Project wise Physical achievement %						
					Rs. Lakh	Rs. Lakh	NRM			PRODUCTION			SHG Achievement Vis-à-vis Target
							Target	Completed	Unattended	Target	Completed	Unattended	
1	IWMP-1/ Phanda	Bhopal	2009-10	624	470.4	75.5	22.2	66.7	11.1	33.3	66.7	-	52
2	IWMP-2/ Berasia	Bhopal	2009-10	540	509	94.4	33.3	55.6	11.1	16.7	66.6	16.7	70
3	IWMP-3/ Berasia	Bhopal	2009-10	636	575.5	91.191.1	22.2	66.7	11.1	16.7	66.6	16.7	74
4	IWMP-2/ Ghatigaon	Gwalior	2009-10	716.8	488.6	68.2	12.5	62.5	25	20	80	-	78
5	IWMP-3/ Morar	Gwalior	2009-10	605.5	541.7	80	30	60	10	16.7	83.3	-	75
6	IWMP-1/ Tarana	Ujjain	2009-10	762.1	632.1	82.9	18.2	54.5	27.3	33.3	66.7	-	71

7	IWMP-2/ Tarana	Ujjain	2009-10	702	614.3	87.8	37.5	37.5	25	25	62.5	12.5	53
8	IWMP-1/ Kundam	Jabalpur	2009-10	840	790	94	30	60	10	33.3	66.7	-	77
9	IWMP-2/ Kundam	Jabalpur	2009-10	885.6	805.3	91	55.6	33.3	11.1	33.3	66.7	-	78

OVER ALL INDICATOR WISE IMPACT EVALUATION OF SAMPLE PROJECTS OF MADHYA PRADESH

1. **Water Table** -The expected target of water table not achieved in the entire projects.
2. **Change in Irrigated Area** –On average **80%** target achieved.
3. **Area Under Agriculture**- **About 92%** target achieved
4. **Crop productivity** – crop productivity increased by5.0% only.
5. **Area in Horticulture Crop**- 69% target has been achieved.
6. **SHG Formation** – 68% SHG were formed against the target.
7. **Income (Rs.)** – **9.10** % income of house hold has increased.
8. **Migration**- **62%** reduction in migration.
9. **Cropping Intensity**-Target of cropping Intensity short by 21percent.
10. **Waste development** – 33 % target achieved.

**PROJECT WISE MASTER SUMMARY OF IWMP IMPACT EVALUATION OF COMPLETED SAMPLE IWMP PROJECTS
STATE – MAHARASHTRA**

S.No.	Project / Block	District	Year of Sanction	Amount sanctioned (Rs. lakh)	Amount utilized		Project wise Physical achievement						
					Rs. Lakh	%	NRM			PRODUCTION			SHG Achievement Vis-à-vis Target
							Target	Completed	Unattended	Target	Completed	Unattended	
1	IWMP-1/ Morshi, Chandur Bz	Amravati	2009-10	277	104.8	37.8	-	75	25	33.3	66.7	-	78
2	IWMP-2/ Morshi, Chandur Bz	Amravati	2009-10	670.9	196.3	29.2	50	50	-	33.3	66.7	-	71
3	IWMP-3/ Morshi, Chandur Bz	Amravati	2009-10	249.9	184.1	73	-	100	-	-	62.5	37.5	72
4	IWMP-4/	Amravati	2009-10	232.6	135.9	58	25	25	50	-	100	-	78

	Morshi, Chandur Bz												
5	IWMP-1/ Gangapur	Aurangabad	2009-10	362.8	195.4	53.9	-	100	-	100	-	-	78.3
6	IWMP-2/ Gangapur	Aurangabad	2009-10	316.4	103.5	32.4	-	50	50	100	-	-	75
7	IWMP-3/ Gangapur	Aurangabad	2009-10	728.2	470.7	64.6	33.3	66.7	-	100	-	-	83
8	IWMP-4/ Gangapur	Aurangabad	2009-10	659.7	355.6	64.6	50	50	-	-	100	-	68
9	IWMP-1/ Renapur	Latur	2009-10	261.9	110	42	-	75	25	14.3	14.3	71.4	66.7
10	IWMP-2/ Renapur	Latur	2009-10	214.3	98.8	46.1	-	80	20	12.5	25	62.5	70
11	IWMP-3/ Renapur	Latur	2009-10	670.4	347	51.7	-	80	20	12.5	25	62.5	67
12	IWMP-4/ Nilanga	Latur	2009-10	476.9	312.4	65.5	-	100	-	83.3	16.7	-	76
13	IWMP-6/ Nilanga	Latur	2009-10	421.9	247.4	58.6	-	75	25	12.5	87.5	-	67.8

14	IWMP-3/ Purandar, Baramati	Pune	2009-10	598	445.6	74.5	50	50	-	100	-	-	87
15	IWMP-4/ Purandar, Ba ramati	Pune	2009-10	440.6	407.7	92.5	75	25	-	100	-	-	76
16	IWMP-5/ Purandar, Ba ramati	Pune	2009-10	346.1	318.4	92.0	60	20	20	100	-	-	77
17	IWMP-6/ Purandar, Ba ramati	Pune	2009-10	376.3	354.9	94.3	66.7	-	33.3	100	-	-	72

OVER ALL INDICATOR WISE IMPACT EVALUATION OF SAMPLE PROJECTS OF MAHARASHTRA

1. **Water Table-** The expected target of water table not achieved in the entire sample projects.
2. **Change in irrigated area-** On average 80% target achieved.
3. **Area under agriculture-** About 95% expected target achieved.
4. **Crop productivity-** On average crop productivity increased 8 % only.
5. **Area in horticulture crop-** 73% target has been achieved.
6. **SHG formation-** 74% SHG was formed against the target.
7. **Income (Rs.) -** 6.82% income of house hold has increased.
8. **Migration-** 78 % reduction in migration.
9. **Cropping intensity-** Target of cropping intensity short by 16 percent.
10. **Waste land development-** 33% target achieved.
11. **Area under vegetation-** Target 50% of vegetation has been achieved.

PROJECT WISE MASTER SUMMARY OF IWMP IMPACT EVALUATION OF COMPLETED SAMPLE IWMP PROJECTS

STATE – MEGHALAYA

S.No.	Project / Block	District	Year of Sanction	Amount sanctioned Rs. Lakhs	Amount utilized		Project wise Physical achievement						
							NRM			PRODUCTION			SHG Achievement Vis-à-vis Target
					Rs. Lakh	%	Target	Completed	Unattended	Target	Completed	Unattended	
1	IWMP-1/ Myllein	East khasi hills	2009-10	150	150	100	66.7	33.3	-	62.5	37.5	-	88
2	IWMP-4/ Myllein	East khasi hills	2010-11	150	150	100	66.7	33.3	-	50	50	-	93
3	IWMP-5/ Mawsynram	East khasi hills	2010-11	150	150	100	66.7	33.3	-	50	50	-	90

OVER ALL INDICATOR WISE IMPACT EVALUATION OF SAMPLE PROJECTS OF MEGHALAYA

1. **Water Table** - The expected target of water table not achieved in the entire projects.
2. **Change in Irrigated Area** – On average 84% target achieved.
3. **Area Under Agriculture Crop**- About 89% target achieved
4. **Crop productivity** – On average crop productivity increased by 4.5% only.
5. **Area in Horticulture Crop**- 75% target has been achieved.
6. **SHG Formation** – 89% SHG were formed against the target.
7. **Income (Rs.)** – 6.4 % income of house hold has increased.
8. **Migration**- 78% reduction in migration.
9. **Cropping Intensity**- Target of cropping Intensity short by 11 percent.
10. **Waste development** – 53% target achieved

**PROJECT WISE MASTER SUMMARY OF IWMP IMPACT EVALUATION OF COMPLETED SAMPLE IWMP PROJECTS
STATE – MIZORAM**

S.No.	Project / Block	District	Year of Sanction	Amount sanctioned Rs. Lakhs	Amount utilized		Project wise Physical achievement						SHG Achievement Vis-à-vis Target
							NRM			PRODUCTION			
					Rs. Lakh	%	Target	Completed	Unattended	Target	Completed	Unattended	
1	IWMP-1/ Siaha	Siaha	2009-10	600	576.6	96.1	66.7	33.3	-	62.5	37.5	-	78
2	IWMP-5/ Aibawk	Aizawl	2009-10	210	201.5	95.9	50	50	-	85.7	14.3	-	74

OVER ALL INDICATOR WISE IMPACT EVALUATION OF SAMPLE PROJECTS OF MIZORAM

1. **Water Table-** The expected target of water table not achieved in the entire sample projects.
2. **Change in irrigated area-** On average 82 % target achieved.
3. **Area under agriculture-** About 90 % target achieved.
4. **Crop productivity-** On average crop productivity increased by 6.11% only.
5. **Area in horticulture crop-** 59 % target has been achieved.
6. **SHG formation-** 76 % SHG was formed against the target.
7. **Income (Rs.) – 6.0 %** income has increased.
8. **Migration-** 70 % reduction in migration.
9. **Cropping intensity-** Target of cropping intensity short by 14percent only.
10. **Waste land development-** 43% target achieved.
11. **Area under vegetation-** Target of vegetation has been 40.90% achieved.

PROJECT WISE MASTER SUMMARY OF IWMP IMPACT EVALUATION OF COMPLETED SAMPLE IWMP PROJECTS

STATE – NAGALAND

S.No.	Project / Block	District	Year of Sanction	Amount sanctioned Rs. Lakhs	Amount utilized		Project wise Physical achievement						SHG Achievement Vis-à-vis Target
							NRM			PRODUCTION			
					Rs. Lakh	%	Target	Completed	Unattended	Target	Completed	Unattended	
1	IWMP-1/ Mangkolemba	Mokokchung	2009-10	540.4	534.3	99.6	83.3	16.7	-	100	-	-	71
2	IWMP-3/ Chiephobozou	Kohima	2010-11	547.5	540.2	98.6	83.3	16.7	-	57.2	42.8	-	73
3	IWMP-4/ Tsemingu	Kohima	2010-11	682.5	680.2	99.7	87.5	12.5	-	83.3	16.7	-	68

OVER ALL INDICATOR WISE IMPACT EVALUATION OF SAMPLE PROJECTS OF NAGALAND

1. **Water Table-** The expected target of water table not achieved in the entire sample projects.
2. **Change in irrigated area-** On average 86% target achieved.
3. **Area under agriculture-** About 89 % target achieved.
4. **Crop productivity-** on average crop productivity increased by 4.0% only.
5. **Area in horticulture crop-** 69.37% target has been achieved.
6. **SHG formation-** 71% SHG was formed against the target.
7. **Income (Rs.) –** 6.70% income of house hold increased.
8. **Migration-** 76.74% reduction in migration.
9. **Cropping intensity-** Target of cropping intensity short by 7 percent.
10. **Waste land development-** 26% target achieved.
11. **Area under vegetation-** Target of vegetation 59% has been achieved

**PROJECT WISE MASTER SUMMARY OF IWMP IMPACT EVALUATION OF COMPLETED SAMPLE IWMP PROJECTS
STATE – ODISHA**

S.No.	Project / Block	District	Year of Sanction	Amount sanctioned Rs. Lakhs	Amount utilized		Project wise Physical achievement						
							NRM			PRODUCTION			SHG Achievement Vis-à-vis Target
					Rs. Lakh	%	Target	Completed	Unattended	Target	Completed	Unattended	
1	IWMP-1/ Loisinga	Balangir	2009-10	600	529.3	88.2	27.3	63.6	9.1	16.7	83.3	-	57
2	IWMP-2/ Badamba	Cuttack	2009-10	642.7	532.7	82.8	18.2	73.5	8.3	28.6	71.4	-	74
3	IWMP-1/ Banki	Cuttack	2009-10	516	443	82.0	20	70	10	28.6	71.4	-	74
4	IWMP-4/ Lamtaput	Koraput	2009-10	720	587	81.6	27.3	63.6	9.1	50	50	-	60
5	IWMP-5/ Semiliguda	Koraput	2009-10	720	522	72.6	20	60	20	16.7	83.3	-	48

OVER ALL INDICATOR WISE IMPACT EVALUATION OF SAMPLE PROJECTS OF ODISHA

1. **Water Table** -The expected target of water table not achieved in all the projects.
2. **Change in Irrigated Area** – On average 78% target achieved.
3. **Area Under Agriculture** -About 95% target achieved
4. **Crop productivity** – On average crop productivity increased 4.3% only.
5. **Area in Horticulture Crop**- 77% target has been achieved.
6. **SHG Formation** – 63%SHG was formed against the target.
7. **Income (Rs.)** – 9.60 % income of house hold has increased.
8. **Migration**- 72% reduction in migration.
9. **Cropping Intensity**- Target of cropping Intensity short by 12.5 percent.
10. **Waste development** – 42% target achieved

PROJECT WISE MASTER SUMMARY OF IWMP IMPACT EVALUATION OF COMPLETED SAMPLE IWMP PROJECTS

STATE – RAJASTHAN

S.No.	Project / Block	District	Year of Sanction	Amount sanctioned Rs. Lakhs	Amount utilized		Project wise Physical achievement						
							NRM			PRODUCTION			SHG Achievement Vis-à-vis Target
					Rs. Lakh	%	Target	Completed	Unattended	Target	Completed	Unattended	
1	IWMP-2/ Srinagar	Ajmer	2009-10	809	547.8	67.7	25	50	25	-	50	50	84
2	IWMP-3/ Pisangan	Ajmer	2009-10	971.8	845.6	67.7	20	40	40	-	44.4	55.6	100
3	IWMP-5/ Arain	Ajmer	2010-11	641.2	579.6	90.3	22.2	33.3	44.5	20	60	20	73
4	IWMP-6/ Kekri	Ajmer	2010-11	744.8	416.3	56	26.7	20	53.3	9.5	4.8	85.7	100
5	IWMP-1/ Behror	Alwar	2009-10	604.8	265.3	43.8	10	70	20	12.5	75	12.5	54
6	IWMP-2/ Bansur	Alwar	2009-10	530.3	351	66.2	25	62.5	12.5	12.5	62.5	25	66
7	IWMP-1/ Nokha	Bikaner	2009-10	600	521	86.8	40	20	40	-	14.3	85.7	17

8	IWMP-4/ Bikaner	Bikaner	2009-10	825	602.2	73	20	40	40	-	71.4	28.6	60
9	IWMP-1/ Sarada, Girwa	Udaipur	2009-10	696.1	565.5	81	25	50	25	12.5	62.5	25	53
10	IWMP-2/ Sarada	Udaipur	2009-10	581.1	467.5	80.4	33.3	44.5	22.2	25	50	25	79
11	IWMP-3/ Gogunda	Udaipur	2009-10	211.6	167	78.9	22.2	55.6	22.2	12.5	62.5	25	58
12	IWMP-4/ Kotra	Udaipur	2010-11	547.2	475.6	86.9	33.3	44.5	22.2	33.3	66.7	-	69
13	IWMP-5/ Kherwara	Udaipur	2010-11	664.5	485.6	71	25	50	25	33.3	66.7	-	81
14	IWMP-6/ Salumbar	Udaipur	2010-11	603.1	462.5	76.7	33.3	44.5	22.2	60	40	-	79
15	IWMP-1/ Ladpura	Kota	2009-10	577.4	395.1	68.4	35.7	14.3	50	25	25	50	77

16	IWMP-2/ Sangod	Kota	2009-10	554.7	386.5	69.7	20	50	30	37.5	62.5	-	76
17	IWMP-3/ Ladpura	Kota	2010-11	720	388.7	54	10	60	30	-	62.5	37.5	51
18	IWMP-4/ Sangod	Kota	2011-12	710.1	518.4	73	55.6	33.3	11.1	11.1	55.6	33.3	57

OVER ALL INDICATOR WISE IMPACT EVALUATION OF SAMPLE PROJECTS OF RAJASTHAN

1. **Water Table** - The expected target of water table not achieved in the entire projects.
2. **Change in Irrigated Area** – On average 81% target achieved. In Bikaner IWMP projects the achievement was negligible.
3. **Area Under Agriculture** - About 88% target achieved
4. **Crop productivity** – On average crop productivity increased by 5.30% only.
5. **Area in Horticulture Crop**- 19% target has been achieved.
6. **SHG Formation** – 74%SHG were formed against the target.
7. **Income (Rs.)** – 8.74 % income of house hold has increased.
8. **Migration**- 76% reduction in migration.
9. **Cropping Intensity**- Target of cropping Intensity short by 22percent.
10. **Waste development** – 42.0% target achieved

PROJECT WISE MASTER SUMMARY OF IWMP IMPACT EVALUATION OF COMPLETED SAMPLE IWMP PROJECTS

STATE – TAMIL NADU

S.No.	Project / Block	District	Year of Sanction	Amount sanctioned Rs. Lakhs	Amount utilized		Project wise Physical achievement %						
							NRM			PRODUCTION			SHG Achievement Vis-à-vis Target
					Rs. Lakh	%	Target	Completed	Unattended	Target	Completed	Unattended	
1	IWMP-1/ Pollachi North	Coimbatore	2009-10	560.4	471.7	84.1	55.6	33.3	11.1	66.7	33.3	-	74
2	IWMP-2/ Pollachi North	Coimbatore	2009-10	560.4	471.7	84.1	71.4	28.6	-	83.3	16.7	-	77
3	IWMP-4/ Kinathukadavu	Coimbatore	2010-11	609.7	504.2	82.7	42.8	42.9	14.3	80	20	-	70
4	IWMP-5/ Kinathukadavu	Coimbatore	2010-11	602.2	491	81.5	50	37.5	12.5	80	20	-	68
5	IWMP-2/ Kottampatti	Madurai	2009-10	537.3	536.7	84.1	66.7	33.3	-	60	40	-	83
6	IWMP-3/ Kottampatti	Madurai	2010-11	567	532.7	84.1	50	37.5	12.5	60	40	-	77
7	IWMP-2/ Kaveripakkam	Vellore	2009-10	600.7	573.7	86.7	25	62.5	12.5	66.7	33.3	-	86

8	IWMP-3/ Kaveripakkam	Vellore	2010-11	420	362.7	86.3	30	70	-	66.7	33.3	-	85
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OVER ALL INDICATOR WISE IMPACT EVALUATION OF SAMPLE PROJECTS OF TAMIL NADU

1. **Water Table-** The expected target of water table not achieved in the entire sample projects.
2. **Change in irrigated area-** On average 86% target achieved.
3. **Area under agriculture-** About 92 % target achieved.
4. **Crop productivity-** On average crop productivity increased by 6.0% only.
5. **Area in horticulture crop-** 71 % target has been achieved.
6. **SHG formation-** 77 % SHG was formed against the target.
7. **Income (Rs.)** – 8.0% income of house hold has increased.
8. **Migration-** 79% reduction in migration.
9. **Cropping intensity-** Target of cropping intensity short by 12 percent.
10. **Waste land development-** 53.0% target achieved.
11. **Area under vegetation-** Target 60.0% of vegetation has been achieved.

PROJECT WISE MASTER SUMMARY OF IWMP IMPACT EVALUATION OF COMPLETED SAMPLE IWMP PROJECTS

STATE – TELANGANA

S.No.	Project / Block	District	Year of Sanction	Amount sanctioned Rs. Lakhs	Amount utilized		Project wise Physical achievement						
							NRM			PRODUCTION			SHG Achievement Vis-à-vis Target
					Rs. Lakh	%	Target	Completed	Unattended	Target	Completed	Unattended	
1	IWMP-2/ Bazarhatnoor	Adilabad	2009-10	330.1	223.1	67.6	42.8	57.2	-	83.3	16.7	-	62
2	IWMP-1/ Kondapur	Sangareddy	2009-10	240	191.4	79.8	42.8	57.8	-	66.7	33.3	-	72
3	IWMP-1/ Penpahad	Suryapet	2009-10	636	496.3	78	50	50	-	80	20	-	76

OVER ALL INDICATOR WISE IMPACT EVALUATION OF SAMPLE PROJECTS OF TELANGANA

1. **Water Table-** The expected target of water table not achieved in the entire sample projects.
2. **Change in irrigated area-** On average 87% target achieved.
3. **Area under agriculture-** About 93 % target achieved.
4. **Crop productivity-** On average crop productivity increased by 4.0% only.
5. **Area in horticulture crop-** 35% target has been achieved.
6. **SHG formation-** 70% SHG were formed against the target.
7. **Income (Rs.)** – 4.10% income of house hold has increased.
8. **Migration-** 64% reduction in migration.
9. **Cropping intensity-** Target of cropping intensity short by 15 percent.
10. **Waste land development-** 34% target achieved.
11. **Area under vegetation-** Target of vegetation has been 27% achieved.

**PROJECT WISE MASTER SUMMARY OF IWMP IMPACT EVALUATION OF COMPLETED SAMPLE IWMP PROJECTS
STATE – TRIPURA**

S.No.	Project / Block	District	Year of Sanction	Amount sanctioned Rs. Lakhs	Amount utilized		Project wise Physical achievement						
							NRM			PRODUCTION			SHG Achievement Vis-à-vis Target
					Rs. Lakh	%	Target	Completed	Unattended	Target	Completed	Unattended	
1	IWMP-1/ killa	Gomati	2009-10	581.1	581.1	100	75	25	-	62.5	37.5	-	100
2	IWMP-2 Dasda/	North tripura	2009-10	259.3	259.3	100	88.9	11.1	-	66.7	33.3	-	100

OVER ALL INDICATOR WISE IMPACT EVALUATION OF SAMPLE PROJECTS OF TRIPURA

1. **Water Table** - The expected target of water table was achieved in all the projects.
2. **Change in Irrigated Area** – The expected target achieved
3. **Area Under Agriculture** - The expected target achieved.
4. **Crop productivity** – On average crop productivity increased by 5.0% only.
5. **Area in Horticulture Crop**- Expected target has been achieved.
6. **SHG Formation** – 91% SHG were formed against the target.
7. **Income (Rs.)** – 7.78 % income of house hold has increased.
8. **Migration**- 66.10% reduction in migration.
9. **Cropping Intensity**- Expected target of cropping Intensity achieved.
10. **Waste development** – 60.70% target achieved.

**PROJECT WISE MASTER SUMMARY OF IWMP IMPACT EVALUATION OF COMPLETED SAMPLE IWMP PROJECTS
STATE – UTTAR PRADESH**

S.No.	Project / Block	District	Year of Sanction	Amount sanctioned Rs. Lakhs	Amount utilized		Project wise Physical achievement %						
							NRM			PRODUCTION			SHG Achievement Vis-à-vis Target
					Rs. Lakh	%	Target	Completed	Unattended	Target	Completed	Unattended	
1	IWMP-1/ Gagaha, Barhalganj	Gorakhpur	2009-10	441.2	275.3	62.4	28.6	71.4	-	75	25	-	79
2	IWMP-2/ Pahari,Karwi	Chitrakoot	2009-10	618	358.9	58.1	16.7	83.3	-	57.2	28.6	14.2	80
3	IWMP-1/ Gursarai, Chirgaon	Jhansi	2009-10	743.3	488.6	65.7	-	80	20	42.8	57.2	-	74
4	IWMP-1/ Pasgawan	Lakhimpur Kheri	2009-10	820.4	540	63.3	28.6	71.4	-	50	50	-	73
5	IWMP-3/ Pasgawan	Lakhimpur Khiri	2010-11	532	341.9	64	16.7	83.3	-	50	50	-	57
6	IWMP-1/	Meerut	2009-10	573.4	337.9	58.9	25	75	-	66.7	33.3	-	56

	Rohta												
7	IWMP-1/ Farah	Mathura	2009-10	600	402.3	67	33.3	66.7	-	50	50	-	76
8	IWMP-1/ Malihabad,	Lucknow	2010-11	444.3	283.5	64	25	62.5	12.5	50	50	-	75

OVER ALL INDICATOR WISE IMPACT EVALUATION OF SAMPLE PROJECTS OF UTTAR PRADESH

1. **Water Table**-The expected target of water table not achieved in the entire sample projects.
2. **Change in irrigated area**- On average 89% target achieved.
3. **Area under agriculture**-About 95.5% target achieved.
4. **Crop productivity**- On average crop productivity increased by 5.1% only.
5. **Area in horticulture crop**-58 %target has been achieved.
6. **SHG formation**-72 % SHG were formed against the target.
7. **Income (Rs.)**- 6.24% income of house hold has increased.
8. **Migration**-82% reduction in migration.
9. **Cropping intensity**- Target of cropping intensity short by 8.50 percent.
10. **Waste land development**-30% target achieved.
11. **Area under vegetation**- The 54.0% target of vegetation has been achieved.

CHAPTER 1

INTRODUCTION

1.1 PREFACE

Rainfed farming is complex, diverse and risk prone and is characterized by low levels of productivity and low input uses. The Government of India has accorded high priority to the holistic and sustainable development of rainfed areas through integrated watershed development approach. The key attributes of the watershed approach are conservation of rain water and optimization of soil and water resources in a sustainable and cost-effective manner. Improved moisture management increases the productivity of agricultural crops. Thus conservation and productivity enhancing measures become complementary.

1.2 Integrated Watershed Management Programme (IWMP)

Integrated Watershed Management Programme (IWMP) is a modified programme of erstwhile Drought Prone Areas Programme (DPAP), Desert Development Programme (DDP) and Integrated Wastelands Development Programme (IWDP) of the Department of Land Resources. This consolidation is for optimum use of resources, sustainable outcomes and integrated planning. The scheme was launched during 2009-10. The programme is being implemented as per Common Guidelines for Watershed Development Projects 2011 (Revised)

The main objectives of the IWMP are to restore the ecological balance by harnessing, conserving and developing degraded natural resources such as soil, vegetative cover and water. The outcomes are prevention of soil erosion, regeneration of natural vegetation, rain water harvesting and recharging of the ground water table. This enables multi-cropping and the introduction of diverse agro-based activities, which help to provide sustainable livelihoods to the people residing in the watershed area.

The focus of IWMP is to improve rural livelihoods through participatory watershed development approach with focus on integrated farming system for enhancing income, productivity and livelihood security in a sustainable manner.

1.3 Objectives of IWMP

The objectives of the watershed development project are as under:

- Conservation, development and sustainable management of natural resources including their use.
- Enhancement of agriculture productivity and production in sustainable manner.
- Restoration of ecological balance in the degraded and fragile rain fed eco - system by greening these areas through appropriate mix of trees and shrubs and Grasses.
- Reduction in regional disparity between irrigated and rain fed areas.
- Creation of sustained employment opportunities for the rural community including the landless.

1.4 Present Assignment

NITI Aayog, Government of India has entrusted WAPCOS to conduct the study on “Impact Evaluation of Integrated Watershed Management Programme” vide letter no.15012/54/18-Research Dated 15.03.2019. A list of 1733 completed IWMP projects spread over in 18 states was provided by NITI Aayog. Out of 1733 , we have selected 135 sample IWMP Projects for the study .The state wise detail of sample IWMP is given below in Table 1

Table :1 State wise & Batch wise Number of Sample Projects

S.No.	State	Total Projects	Completion reported (Admin. Reports received)	No of sample projects	Batch-I	Batch-II
1	Andhra Pradesh	432	62	5	5	0
2	Chhatisgarh	263	61	4	2	2
3	Gujarat	610	275	20	10	10
4	Jharkhand	171	20	2	2	0
5	Karnataka	571	246	18	9	9
6	Kerala	83	21	2	0	2
7	Madhya Pradesh	517	115	9	9	0
8	Maharashtra	1186	239	17	17	0
9	Odisha	310	65	5	5	0
10	Rajasthan	1025	213	18	11	7

11	Tamil Nadu	270	112	8	4	4
12	Telangana	330	47	3	3	0
13	Utter Pradesh	612	86	8	5	3
	N E State			0		
14	Assam	372	57	4	4	0
15	Meghalaya	96	47	3	2	1
16	Mizoram	89	16	2	2	0
17	Nagaland	111	41	4	2	2
18	Tripura	65	10	2	2	0
	Grand Total	7113	1733	134	94	40

1.5 Performance Indicators

The Impact of IWMP programme in samples projects have been evaluated based on identified performance indicator. The main performance indicators identified for the IWMP programme are given below:

1.	Project Cost/ Project Expenditure (Rs. in lakh)
2	Watershed Area taken up for Development / Area treated (in ha)
3	Natural Resources Management(NRM)Works taken up
4	Cropped area
5	Cropping Intensity
6	Crop Productivity
7	Ground water table (m)
8	No of waters harvesting structures, ponds, tanks etc. developed
9	Irrigated Area (ha)
10	Employment generated (man days)
11	Self Help Group (Nos.)
12	Land use Pattern
13	Change in land value(Rs)
14	Migration
15	House hold income

CHAPTER –2
APPROACH & METHODOLOGY

1. OBJECTIVE & SCOPE OF THE STUDY

A. Objective:

To carry out impact evaluation of watershed management schemes implemented in various states for managing water resources sustainability with the overall objective of enhancing the socio-economic benefits of the people in particular and the region at large.

B. Scope of the Study:

- a) To record the changes observed in **natural resources** in the project area. This include change in Land use & Land cover, reclamation of waste-land, change in irrigated areas, change in ground water & surface water profiles and change in soil profiles (quality & reduction in run-off).
- b) To assess the **change in agriculture sector** i.e. change in cropping pattern, area expansion, production, productivity of major crops, cropping intensity and diversity.
- c) To assess **the change in economy** of the watershed community – i.e. change in Income, Employment, Skill enhancement if any & Expenditure Patterns.
- d) To assess the **level of people’s participation** in the project and its implications.
- e) To assess the **level & pattern of fund utilization** by states and explore reasons for unspent balances or low spending along with suggestions for improvement.
- f) To assess the **post project maintenance of assets & institutions** generated under the project and suggest policy option for their sustenance.
- g) Provide an **overall national level summary** of findings and document the best practices observed, lessons learnt etc. with policy suggestions for future improvement.

2. METHODOLOGY FOR THE ASSIGNMENT

2.1 PLAN OF APPROACH

The consultant have adopted the following approach to carrying out the present assignment:

- Initial Discussions with the officials of NITI AYOOG and State Nodal officers for collecting first-hand information i.e. state /district wise list of projects completed under IWMP scheme and related information required for conducting the study.
- Discussion with the officials of implementing agencies at State level, district level and stakeholders for finalization of the sample projects.
- Collection of Physical and Financial Progress Report of states under IWMP.
- Review of programme guidelines, DPR, Technical circulars and progress report.
- Preparation of data collection schedule covering all Key Performance Indicators considered for Impact Assessment of IWMP.
- Finalization of methodology after interaction with NITI AYOOG, DoLR officials, MoRD and submission of Inception Report.
- Selection of Field Enumerators and imparting orientation training programme.
- Mobilization and Organizing of field team, Collection of Primary Data by Field Enumerators from various stakeholders involved in delivery of services and sample beneficiary households in selected villages.
- Focused Group Discussion with stakeholders and knowledgeable Farmers of the Sample villages where programme has been implemented.
- Experts visit to the project sites for transact walk, physical verifications of interventions and recording observations in the field.
- Recording GPS coordinates at intervention sites taking photographs using high resolution digital cameras.

- Data Entry of Household Schedules, Analysis and Interpretation, design of output tables for impact assessment of the scheme.
- Preparation of graphs, charts, tables, Draft Chapters of report and submission of Draft Report.
- Presentation of the Draft Report by the Consultant to the committee constituted by the NITI AYOOG.
- Compliance of comments on Draft Report and preparation of Final Evaluation Report.
- Submission of the Final Report to NITI AYOOG.

2.2 Methodology for Evaluation Study

The methodology for evaluation study is largely based on collection and analysis of primary and secondary data. For collection of field data, a multistage stratified sampling design have been followed. The basic sampling for the study is the implementing agency at National, State, District, Panchyati Raj Institutions, sample projects and benefited households from the project.

The data have been collected by the Field Enumerators under the guidance of Experts. Before posting the staff in the field for the job, they are suitably oriented and trained in the techniques of establishing rapport with the farmers, interviewing respondents and recording their responses, cross checking respondents to ensure reliability of their answers and editing the filled-in questionnaires so that all errors and omissions can be corrected in the field itself before dispatching the completed questionnaires to Head Quarter. Experts have also visited the field to check the ongoing Household survey and collected data to make spot observations and guide the field staff so that true picture can be obtained from the field and collected data.

2.2.1 Selection of Sample Projects for Impact Assessment

As per meeting held with the officials of NITI AYO, a total of 134 sample Projects have been selected from 18 states under Batch I & Batch II IWMP projects in consultation with Niti Ayog, MoRD, GoI, and state Government.

The state wise details of sample number of projects is given below.

S.No.	State	Total Projects	Completion reported (Admin. Reports received)	No of sample projects
1	Andha Pradesh	432	62	5
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3	Gujarat	610	275	20
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5	Karnataka	571	246	18
6	Kerala	83	21	2
7	Madhya Pradesh	517	115	8
8	Maharashtra	1186	239	17
9	Odisha	310	65	5
10	Rajasthan	1025	213	18
11	Tami Nadu	270	112	8
12	Telangana	330	47	3
13	Utter Pradesh	612	86	8
	N E State			
14	Assam	372	57	4
15	Meghalaya	96	47	3
16	Mizoram	89	16	2
17	Nagaland	111	41	3
18	Tripura	65	10	2
	Grand Total	7113	1733	134

2.2.2 Selection of Sample Villages for Household Survey

From each selected project, three villages have been selected for conducting household survey representing ridge, middle and valley portion of the micro watershed.

2.2.3 Selection of Sample Households in Project Area

In each selected village, 9 households / beneficiaries have been selected for interviews. This involve of SC, ST, small & marginal farmers & women in proportion to their numbers. Thus, total 27 households have been covered in each project.

In addition to the above, Focus Group Discussion with the Field Functionaries, knowledgeable farmers and office bearers of village-Panchayat have been conducted for collection of relevant information using structured but open ended data collection schedule.

2.2.4 Central & Field Team Organization

To carry out the Impact Assessment Study of Watershed projects across the region, a team have been formed at WAPCOS headquarter at Gurgaon, Haryana for overall guidance and achieving the study goals. The team have following experts-

- 1) Team Leader cum Watershed Evaluation Expert
- 2) Agricultural & Soil Conservation Expert
- 3) Institutional Development Specialist / Sociologist
- 4) System Expert
- 5) Hydrologist
- 6) Statistician
- 7) Capacity Building Expert
- 8) Economist

Field Officers and Field Enumerators were recruited locally to capture the secondary & primary data through well-structured data collection schedules. Each field team have been constituted by a Sr. Level Field Officer from WAPCOS Regional offices. The Field Officers deployed were well versed with the area including language and social system and also experienced in interview technique.

2.2.5 Collection of Data & Processing

The methodological approach that have been adopted in the field involves a survey-based data collection exercise comprising close-ended questionnaires. Three independent sets of questionnaires have been designed to collect the requisite data. Following are the three questionnaires which will be used in the data collection process.

- (i) Focus Group Discussion (FGD) Schedule
- (ii) Village Profile Schedule
- (iii) Household Survey Schedule

The Focus Group Discussion was targeted to understand the impacts of WSD at the aggregate level involving the implementing agencies, village communities, and other key stakeholders.

Village profile schedule was used to capture the profile of the village with the help of office bearers of village level institutions, local leaders, other key informants, etc.

Household Survey Schedule was targeted to collect the information at the household level.

The main purpose was to assess the impacts of Watershed Development at the household level pertaining to different indicators. The schedules were prepared in such a way that it captures the information to be identified and assess positive, negative or neutral basis impacts in terms.

While the first FGD, schedules were filled up based on the interviews with the Project Implementing Agencies, Watershed committee and association members, and key stakeholder interviews, the village level schedules were filled up by collecting authentic information from revenue or agriculture Field Functionaries.

The information were collected and analyzed for the present study on the following aspects;

S. No.	Indicators	Data collected
1.	Natural Resource	<p>Increase in Crop Yield, Increase in the cropped area, Adoption of new package of practices Soil & moisture conservation measures, Cropping intensity, induction of high value commercial crops, oil seeds and pulses.</p> <p>Crop Diversification: Change in the cropping pattern and diversification Changes into commercial, food, fodder, crops Change over to agro -horticulture, agro-forestry Mono-cropping to intercropping / mixed cropping</p> <p>Ground water recharged: Increase in the cropping intensity Changes in the cropping pattern Diversified into high Value crops Increase in the irrigated area. Improvement in the Ground water level and yield</p> <p>Productivity in Non-arable: Extent of reduction in wastelands / degraded lands, Extent of forest cover/ plantations / silvipasture Improvement in biodiversity / canopy cover, Fallow lands brought under cultivation, water spread area.</p> <p>Soil erosion reduced: Reduction in soil loss & run off Soil erosion and silt deposition reduced Positive changes with respect to soil nutrients and salinity Extent of crop failure</p> <p>Livestock improvement: Increase in no. of improved cattle, buffaloes, etc. Increased milk production / dairy activities Fuel wood and fodder self sufficiency</p> <p>Fodder development / silvipasture</p> <p>Surface /Ground Water resources: Increase in number of water bodies Increased surface water supply, Level and quality of ground water, Seasonal to perennial change in ground water levels.</p> <p>Environmental Aspects: Extent of use of pastures/forests/other common properties Industrial activity (including mining) Rare/endemic/endangered</p>

		<p>species of Flora and Fauna. Indigenous knowledge, artefacts, traditional values, Indigenous people. Wild life sanctuary, National park, Cultural Heritage/archaeological important site.</p>
2.	Social	<p>Literacy rate, reduction in school dropouts, increase in girl's enrolment in schools Housing pattern Type of house, Area in sq. ft, electricity, sanitation, furnishing, toilets, kitchen and value. Drinking water facilities, time spent in fetching water, availability seasonal or round the year. Participation of women, landless and weaker sections in project. Reduction in migration, impact on landless families Employment opportunities - On farm and off farms Impact of trainings, awareness of the program, shram-daan Women Empowerment - Decision making, capacity, collective decisions Self-sufficiency - Food, fodder, fuel, drinking water etc. Peoples' participation in planning and implementation of their choice - Soil & water conservation, structures, IGA, etc. Initiation, implementation of agro based / income generating activities Peoples Involvement in Common Property Resource development - Planning, implementation, operation & maintenance Control on free grazing, tree felling, disputes, alcoholism Health centres, dispensaries, Vet clinics, Family planning, Infant Mortality Rates (IMR).</p>
3.	Economic	<p>Household Income - Sources wise of Income, expenditure, savings, investments, etc. Improvement in housing pattern, household assets Living Standards - Poverty level, Food Consumption pattern, Increase in wage rates, No of working days in a year, Changes in land prices, Economic assets - Plantations,</p>

		<p>agro-forestry, Agricultural Implements, well, tube well improved farming inputs, equipment, fertilizers / pesticides usage Impact on income of SHG members. Increased access to credit / government grants / subsidies etc. Changes in crop production (agricultural crops, horticulture, floriculture, etc.), yield/ha Income generating activities, type, alternative occupational programmes Livestock, dairy activities, kitchen garden, Market facilities, for agricultural produce, Storage facilities</p>
4.	Institutional	<p>Formation & Functioning state of Community Based Organisations (SHGs/CIGs/AGs/UGs/VWCs) - Numbers, Member composition, Activities, Involvement in decision making, Book keeping, etc. NGO, Staff Status - Functioning, Sensitization and mobilization, Formation of CBOs and facilitation for better functioning, Role in Entry Point Activities, Approval and Implementation, Collection of baseline survey data, Beneficiary Selection, Capacity building / Training programmes, etc. IGA programmes - Credit linkages, micro enterprises Line department role, activities and their linkages - ZP, TP, GP, RMKs Linkages among different groups viz., SHGs, AGs, UGs, VWCs, CIGs, etc. Convergence with other Developmental Programmes - (MNREGA, JSYS, etc.) Role, responsibility and cooperation among Govt., NGOs, and other institutions.</p>

2.2.6 Data Analysis

Household level data were collected mainly under three broad categories viz., agriculture, social and economic aspects. Some of the important indicators include family size, education, land holding, household assets, employment pattern income diversification employment generation, diversification in agriculture, income, standard of living, change in land value education of children, healthcare, participation in user groups, etc. Each impact assessment indicator have been assigned a pre-determined score as per its importance in its overall impact on the watershed development.

For analytical purposes as well as to assess the impact of the watershed development programme, all the assessment indicators for which data collected through rapid and household level surveys were categorized into 3 broad impact categories namely, bio- physical impact, economic impact and institutional impact. Separate analysis was carried out for assessing the impact of the project on different aspect at individual and community level.

The data entered in to the computer have been validated by the experts with the help of validation checks. This helps to remove inconsistencies in the field data. The validated data were processed with the help of in-house computers manned by highly skill and suitability trained staff using custom designed software in consultation with the expert. Relevant out-put tables were generated using suitable software for using in the study report.

2.2.7 Deliverables

The deliverables of the present assignment were in the form of following reports.

- **Inception Report** - Submitted.
- **Draft Impact Assessment report** - Submitted.
- **Final Impact Assessment report** - Submitted.

Chapter-3 Research & Discussions

IMPACT EVALUATION OF SAMPLE IWMP PROJECTS OF – ANDHRA PRADESH

The Impact Evaluation of IWMP Projects has been carried out on the basis of following criteria:

- 1- Comparing the activity wise Physical Achievement vis-à-vis Target as per DPR (Refer Table1).
- 2- Comparing the Indicator wise impact with the expected out come after completion of the project as per DPR (Refer Table2).
- 3- Impact Evaluation Summary.

Name of Project - IWMP-II
Block - Tanakal
District - Ananthapuramu.
State - Andhra Pradesh

Table 1: Activity wise Physical Target and Achievements of IWMP-II Block: Tanakal District: Ananthapuramu, (Andhra Pradesh)

Sanctioned Amount- 561.36 (Lakh)

Expenditure- 492.30 (Lakh)

Expenditure % - 87.70 %

Total project Area- 4678 ha

Year of Sanction- 2011-12

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Percolation Tank	Nos.	18	1	5.55	PTs are mostly covered under NREGA scheme so sites are not suitable.
2	Farm Ponds		258	258	100	Target achieved
3	check dam		57	57	100	Target achieved
4	Nala bund		25	25	100	Target achieved
5	Water Harvesting Structure(rejuvenated)	Nos.	16	16	100	Target achieved
6	Loose Boulder Structure	Nos.	85	65	78.23	LBS are cover in previous watersheds DDP scheme.
7	Gully plugs	Nos.	3	3	100	Target achieved
8	CCT/Staggered trenches	RMT	34500	34500	100	Target achieved
9	Avenue plantation	Km.	35	9	30	Covered under MCC
B	Production Activities					
1	Single crop demonstration	Ha.	3873	3873	100	Target achieved
2	Double crop demonstration	Ha.	40	40	100	Target achieved
3	Inter cropping	Ha.	10	35	350	On the demand of farmers
4	Compost pit	No.	8	8	100	Target achieved On the demand of farmers
5	Sprayers	No.	50	50	100	Target achieved On the demand of farmers
6	Provision of Agril. impliments	Nos.	10	10	100	Target achieved On the demand of farmers

7	Health /Veterinary camp	No.	28	28	100	Target achieved
8	New fodder varieties	Ha.	11	11	100	Target achieved
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No.	60	35	58.30	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No.	105	71	67.62	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of farm pond, check dam, Nala bund, Water Harvesting Structure (rejuvenated, Gully plugs and CCT/Staggered trenches were achieved to the extent of outcome.
2. The target of Percolation Tank, Loose Boulder Structure and Avenue plantation work was achieved to the extent of 5.55, 78.23 and 30% respectively. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 8 production activities target of all 8 activities namely, crop demonstration (Single, Double & Inter cropping) Compost pit, Sprayers, Agril. Implements, Veterinary camp and fodder varieties were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 58.30% of SHG and 67.62 % fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were Mobil repairing, poultry rearing, motorcycle repairing work, dal mill, agro-service Centre,, tailoring, Grocery shop, papad making work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 65% of SHG has been working properly and repaying the loan in time. 35% of SHG were not working smoothly and not repaying the loan in time. Out of them 13 % SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP-II
Block: Tanakal District: Ananthapuramu, (Andhra Pradesh)**

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	9	7.50	8.5	-1.0	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	16	16	0	Target was achieved.
3	Change in irrigated area	ha	1737	2450	2187	-286	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	3015	3875	3501	-374	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity						
	groundnut	Kg/ha	925	1050	1105	55	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	paddy	Kg/ha	2105	2200	2280	80	
	Sun flower	Kg/ha	875	950	1025	75	
	Red gram	Kg/ha	1024	1120	1172	52	
6	Area under horticulture	Ha.	310	80	50.40	-29.60	Farmers were interested due to higher income.
7	SHG federations formed	No.	5	210	165	-45	Some groups not fulfill the pre-requisite for SHG formation

8	Income	Rs.	40000	60000	65000	5000	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	125	0	35	-35	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	100	150	125	-25	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	250	125	95	-30	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	0	45	16	-29	Only 16.00 ha. land was allotted for vegetation by gram Sabah

**Impact Evaluation Summary of IWMP-II Block: Tanakal District: Ananthapuramu,
(Andhra Pradesh)**

1. The anticipated increase in ground water table has been not achieved i.e. -1.00 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1, 6,&9 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, farm pond, check dam, Nala bund, Gully plugs and CCT structure (Refer items 2, 3, 4, 7&9 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 3875 ha against target of 3501 ha) and remained short by 374 ha i.e. 9.65% (Refer Item 4 table 2) due to 24% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 11.70% short than the target (achieved 2187 ha against target of 2450 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 25 % (achieved 125% against target of 150%) – Refer item 10, table 2. The progress of both these items remained short due to lack of harvested rain water quantity. However, the productivity of ground nut, red gram paddy and sun flower crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 63% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not receiving the remunerative price of horticulture produce.
5. The 78.60% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs60000/Annum by 8.33 % i.e. Rs5000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 67.10, 17.80, 12.60 and 2.50 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 35.60% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Discuss with Member of SHG Groups and Visited the of IWMP-II (Ananthapuramu)

Name of Project - IWMP-I
Block - Narpala
District - Ananthapuramu.
State - Andhra Pradesh

Table 1: Activity wise Physical Target and Achievements of IWMP-II Block: Tanakal District: Ananthapuramu, (Andhra Pradesh)

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Expenditure- 492.30 (Lakh)

Expenditure % - 87.70 %

Total project Area- 4678 ha

Year of Sanction- 2011-12

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			Qty	Phy	Phy	
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7	Gully plugs	Nos.	3	3	100	Target achieved
8	CCT/Staggered trenches	RMT	34500	34500	100	Target achieved
9	Avenue plantation	Km.	35	9	30	Covered under MCC
B	Production Activities					
1	Single crop demonstration	Ha.	3873	3873	100	Target achieved
2	Double crop demonstration	Ha.	40	40	100	Target achieved
3	Inter cropping	Ha.	10	35	350	On the demand of farmers
4	Compost pit	No.	8	8	100	Target achieved On the demand of farmers
5	Sprayers	No.	50	50	100	Target achieved On the demand of farmers
6	Provision of Agril. impliments	Nos.	10	10	100	Target achieved On the demand of farmers

7	Health /Veterinary camp	No.	28	28	100	Target achieved
8	New fodder varieties	Ha.	11	11	100	Target achieved
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No.	60	35	58.30	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No.	105	71	67.62	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

- 1 The target of farm pond, check dam, Nala bund, Water Harvesting Structure (rejuvenated, Gully plugs and CCT/Staggered trenches were achieved to the extent of outcome.
- 2 The target of Percolation Tank, Loose Boulder Structure and Avenue plantation work was achieved to the extent of 5.55, 78.23 and 30% respectively. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

- 1 Out of 8 production activities target of all 8 activities namely, crop demonstration (Single, Double & Inter cropping) Compost pit, Sprayers, Agril. Implements, Veterinary camp and fodder varieties were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.

C. Livelihood system

- 1 The revolving fund granted for livelihood action plan to 58.30% of SHG and 67.62 % fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were Mobil repairing, poultry rearing, motorcycle repairing work, dal mill, agro-service Centre, tailoring, Grocery shop, papad making work etc.
- 2 Expert team met the members of SHG groups during the visit the team observed that, the 65% of SHG has been working properly and repaying the loan in time. 35% of SHG were not working smoothly and not repaying the loan in time. Out of them 13 % SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP- I
Block-Narpala District-Ananthauramu (Andhra Pradesh)**

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	8	7.50	7.80	-0.30	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	5	4	-1	Lack of fund.
3	Change in irrigated area	Ha.	324	550	448	-102	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	Ha.	749	1264	1175	-89	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity						
	Ground nut	Kg/ha	1240	1300	1385	85	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Red gram	Kg/ha	720	800	870	70	
	paddy	Kg/ha	2290	2610	2700	90	
	sunflower		2040	2120	2200	80	
6	Area under horticulture	Ha.	161	80	25	-55	Farmers were interested due to higher income.
7	SHG formed	No.	0	120	89	-11	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	60000	82000	86000	4000	Income of Household increase due to increase in crop yield, price of crop

							produce, wage rate and livelihood activities
9	Migration	No.	140	0	35	-35	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	120	150	140	-10	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	820	580	742	-162	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	34	85	46	-39	Only 46.00 ha. land was allotted for vegetation by gram Sabah

**Impact Evaluation Summary of IWMP-I
Block-Narpala District-Ananthauramu (Andhra Pradesh)**

1. The anticipated increase in ground water table has been not achieved i.e. -0.30 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1, 2 &3 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like; check dam, check & plugs and CCT structure (Refer items 4, 5 &6 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 995 ha against target of 1264 ha) and remained short by 89 ha i.e. 7.04% (Refer Item 4 table 2) due to 27.90% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 18.54% short than the target (achieved 448 ha against target of 550 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10 % (achieved 140% against target of 150%) – Refer item 10, table 2.
The progress of both these items remained short due to lack of harvested rain water quantity. However, the productivity of ground nut, red gram paddy and sun flower crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 31.025% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not receiving the remunerative price of horticulture produce.
5. The 74.16% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs82000/Annum by 4.87 % i.e. Rs4000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 66.40, 18.00, 13.30 and 2.30 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 54.11% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Discuss with Farmers and Visited the NRM & Production Activity of IWMP-I (Ananthauramu)

Name of Project - IWMP-V
Block - Marripud
District - Prakasa
State - AndhraPradesh

**Table 1: Activity wise Physical Target and Achievements of IWMP-V Marripudi
Block - District Prakasam. (Andhra Pradesh)**

Sanctioned Amount- 636.00Lakh

Expenditure- 547.23Lakh

Expenditure % - 86.04

Total project Area- 5300 ha

Year of Sanction-2009-10

S.No.	Activity	Unit	Target as per DPR/sanctioned	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Percolation Tank	No.	14	14	100	Target achieved
2	Farm Ponds	No	704	704	100	Target achieved
3	Vegetative barriers	No.	23	23	100	Target achieved
4	Sunken pits	Nos.	35	0	0	Farmers were interested I farm pond
5	Pasture Development	Ha	11.33	5.80	51.30	Only 5.80ha. land was provided for Pasture Development
6	Sand Bag Structures	No.	1	1	100	Target achieved
7	Digging of Peripheral Trench	No.	1	1	100	Target achieved
8	Check Dam	No.	41	41	100	Target achieved
9	Repairs to Existing PT	No.	10	10	100	Target achieved
10	Repairs to Existing Check Dam Repairs to Existing PT	No.	4	4	100	Target achieved
B	Production Activities					
1	Sprayers	No.	28	28	100	Target achieved
2	Health /Veterinary camp	No.	96	96	100	Target achieved
3	New fodder varieties	Ha.	11.33	11.33	100	Target achieved
4	Kitchen veg. Kit	No.	450	450	100	Target achieved

5	Vermi compost	No.	15	15	100	Target achieved
6	Nursery raising	No.	6	6	100	Target achieved
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No.	65	34	52.30	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No.	80	62	77.50	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

Note-Targets that are mentioned here are not reported in DPR but the values were taken administratively sanctioned based on the actual requirement of the watershed committee and IWMP web report

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Percolation Tank, Farm Ponds, Vegetative barriers, Sand Bag Structures, Digging of Peripheral Trench, Check Dam, Repairs to Existing PT and Repairs to Existing PT structure were achieved to the extent of expected outcome
2. The target of Pasture Development work was achieved to the extent of 51.30% only.
3. The work of Sunken pits has remained unattended
4. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of all 6 activities namely, Sprayers, Health /Veterinary camp, New fodder varieties, Kitchen veg. Kit, Vermicompost and Nursery raising were achieved as per outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 52.30% of SHG and 77.50 % fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were Mobil repairing, poultry rearing, motorcycle repairing work, dal mill, agro-service Centre, tailoring, Grocery shop, tea stall etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 64% of SHG has been working properly and repaying the loan in time. 36% of SHG were not working smoothly and not repaying the loan in time. Out of them 13 % SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicatorwise impact of sample IWMP-V
Block- Marrisudi in District Prakasam (Andhra Pradesh).**

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	12.82	10	12	-2	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	14	10	-4	Lack of fund.
3	Change in irrigated area	Ha.	900	1300	1142	-158	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	Ha.	2687	3100	2943	-157	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity						
	Redgram	Kg/ha	750	850	910	60	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Paddy	Kg/ha	3250	3350	3400	50	
	Sunflower	Kg/ha	1000	1150	1205	55	
	Tobacco	Kg/ha	1250	1350	1420	70	
	BengalGram	Kg/ha	1000	1200	1250	50	
6	Area under horticulture	Ha.	11	50	27.58	22.42	Farmers were interested due to higher income.

7	SHG federations formed	No.		160	145	-15	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	20000	50000	55000	5000	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	593	150	200	-50	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	105	130	125	-5	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	1602	602	12	-590	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	65	21	9	-12	Only 9.00 ha. land was allotted for vegetation by gram Sabah

**Impact Evaluation Summary of IWMP-V Block- Marripudiin District Prakasam
(Andhra Pradesh).**

1. The anticipate increase in ground water table has been not achieved i.e. -2.00 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 4&5 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like; Percolation Tank, Farm Ponds, Vegetative barriers, Sand Bag Structures, Digging of Peripheral Trench, Check Dam, Repairs to Existing PT structure (Refer items 1, 2, 3, 7 & 8 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 2943 ha against target of 3100 ha) and remained short by 157 ha i.e. 5.06% (Refer Item 4 table 2) due to 98% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 12.20% short than the target (achieved 1142 ha against target of 1300 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 50 % (achieved 125% against target of 130%) – Refer item 10, table 2.
The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of red gram, paddy, Tobacco, Bengal Gram and sun flower crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 55.16% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 90.60% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs50000/Annum by 10.0 % i.e. Rs5000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 67.50, 18.10, 12.40 and 2.00 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 42.85% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



Latitude: 15°25'30"N
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Elevation: 80.63m
Accuracy: 3.2m
Azimuth: 14° (N)
Pitch: -3.3° (-1.1°)
Time: 04-11-2019 11:32
Note: Vemavaram , DoP, Prakasham

Powered by AngleCam



Latitude: 15°26'42"N
Longitude: 79°45'23"E
Elevation: 45.2m
Accuracy: 3.2m
Azimuth: 89° (E)
Pitch: -2.2°
Time: 04-11-2019 14:07
Note: Lemon plantation horti,
dharmavaram village, Prakasham

Powered by AngleCam

WAPCOS Experts Discuss with Officials and Visited the Water Harvesting Structure and production activity of IWMP-V (Marripudiin)

Name of Project - **IWMP-I**
Block - **Nandigam**
District - **Srikakulam.**
State - **Andhra Pradesh**

Table 1: Activity wise Physical Target and Achievements of IWMP-I Block -Nandigam District – Srikakulam (Andhra Pradesh)

Sanctioned Amount- 600.72 Lakh
 Expenditure % - 57.73
 Year of Sanction- 02/2010

Expenditure- 346.81 Lakh
 Total project Area- 5006 ha

S.No	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Percolation Tank	Nos.	42	23	54.76	Due to non availability of lands because some lands are used by local people for cultivation.
2	Mini Percolation Tanks		53	17	32.07	Due to non availability of lands because some lands are used by local people for cultivation.
3	Structure for recharging drinking water Sources/Water hole		27	0	0	Same activity was done under MGNREGS. To avoid duplication, we didn't execute more no. of works
4	WHS	Nos.	1423	48	3.37	More number of WHS works are done by Irrigation and Panachayathi raj department
5	Earthen Bund	mrt.	1160	462	39.82	Unavailable of skilled labor
6	Structure for recharging	Nos.	746	0	0	Farmers are not interested as unavailability of local stones
7	Loose Boulder Structure Loose Boulder Structure	Nos.	746	25	3.35	Farmers are not interested as unavailability of local stones
8	Sunken pits	Nos.	1382	0	0	Farmers prefer farm ponds and

						dugout ponds in place of sunken pits
9	CCT/Staggered trenches Loose Boulder Structure	RMT	39850	791.72	1.98	Forest area is covered under this project and they already took trench works
B	Production Activities					
1	Vermi Compost	No	171	0	0	Un availability and no supply of earthworms from local markets and suppliers
2	Drip Irrigation	Ha	590	0	0	Lack of fund
3	Sprinkle Irrigation	Ha	90	0	0	Lack of fund
4	Sprayers	No	99	86	86.86	Almost covered all households
5	Provision of Argil. implements	Nos.	463	463	100	Major initiation with convergence of Agriculture department
6	Health /Veterinary camp	No	39	39	100	the program was taken up withcoordination of Animal Husbandry dept.
7	New fodder varieties	Ha	55	55	100	Target achieved
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	48	33	68.75	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	64	46	71.87	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Percolation Tank, Mini Percolation Tanks, WHS, Earthen Bund, Loose Boulder Structure and CCT/Staggered trenches were achieved to the extent of 54.76,32.07,3.37.39.82,3.35and 1.98% respectively.
2. The work of Structure for recharging, sunken pits and Structure for recharging has remained unattended
3. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

- 1 Out of 7 production activities target of all 3 activities namely, Provision of Argil. Implements, Health /Veterinary camp and New fodder varieties were achieved as per out come. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.
- 2 The target of Sprayers distribution was achieved to the extent of 86.86%.and work of Vermi Compost, Drip Irrigation and Sprinkle Irrigation has remained unattended.

C. Livelihood system

- 1 The revolving fund granted for livelihood action plan to 68.75% of SHG and 71.87 % fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were Mobil repairing, poultry raring, motorcycle repairing work, dal mill, agro-service Centre,, tailoring, Grocery shop, tea stall etc.
- 2 Expert team met the members of SHG groups during the visit the team observed that, the 61% of SHG has been working properly and repaying the loan in time.39% of SHG were not working smoothly and not repaying the loan in time. Out of them 15 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-I Block -Nandigam District – Srikakulam (Andhra Pradesh)

S.no	Item	Unit	Pre-project Status	Expected Post – project	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	10	8	8.9	-0.90	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/ rejuvenated	No.	0	25	18	-7	Lack of fund.
3	Change in irrigated area	Ha.	1158	1550	1353	-197	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	Ha.	2190	2940	2739	-201	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity						
	Redgram	Kg/ha	805	900	940	40	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Paddy	Kg/ha	2542	2650	2730	80	
	Ground nut	Kg/ha	940	1120	1180	60	
	Black Gram	Kg/ha	450	500	565	65	
6	Area under	Ha.	120	78	49.53	-28.47	Farmers were interested

	horticulture						due to higher income.
7	SHG federations formed	No.	2	140	112	-28	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	60000	90500	94600	4100	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	46	0	9	-9	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	100	125	120	-5	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	81.2	25	2	-23	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	18	45	24	-21	Only 46.00 ha. land was allotted for vegetation by gram Sabah

Impact Evaluation Summary of IWMP-I Block –Nandigam District – Srikakulam

(Andhra Pradesh)

1. The anticipate increase in ground water table has been not achieved i.e. -0.90 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 3,6,&8 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target partially achieved of other structures like;Percolation Tank, Mini Percolation Tanks , WHS,Earthen Bund,Loose Boulder Structure and CCT/Staggered trenches (Refer items1,2,4,5,7&9 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 2739ha against target of 2940 ha) and remained short by 201 ha i.e.6.84% (Refer Item 4 table 2) due to 92% less progress on conversion of waste land into agricultural land (Refer Item11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 12.71% short than the target (achieved1353 ha against target of 1550 ha) – Refer item 3, table 2). Similarly cropping intensity remained short by5 % (achieved 120% against target of 125%) – Refer item 10, table 2.The progress of both these items remained short due lack of harvested rain water quantity.However, the productivity of red gram ,paddy,ground nut and blak gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicial use of limited irrigation water in Rabi crops.
4. The63.50% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The80% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs90500/Annum by 4.53 % i.e. Rs4100/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 68.40, 17.20, 12.50and 1.90 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The53.30% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



Latitude: 18°38'43"N
Longitude: 84°16'38"E
Accuracy: 2900.0m
Azimuth: 245° (SW)
Pitch: -8.9° (0.7°)
Time: 31-10-2019 12:48
Note: Pedda tamarapalli village

Powered by AngleCam



Latitude: 18°39'46"N
Longitude: 84°15'5"E
Elevation: 46.19m
Accuracy: 3.2m
Azimuth: 72° (E)
Pitch: -0.2° (-1.0°)
Time: 31-10-2019 11:16
Note: PT sontinooru village

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Name of Project - IWMP-III
Block - Mandasa
District - Srikakulam.
State - Andhra Pradesh

**Table 1: Activity wise Physical Target and Achievements of IWMP- III, Block-Mandasa District
– Srikakulam State: Andhra Pradesh**

Sanctioned Amount-336 Lakh

Expenditure: 204.78Lakh

Expenditure % - 60.95

Total project Area- 2799 ha

Year of Sanction-2009-10

S. No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Percolation Tank	No.	31	10	32.25	Due to non availability of lands because some lands are used by local people for cultivation.
2	Mini Percolation Tanks	No.	45	15	33.33	Due to non availability of lands because some lands are used by local people for cultivation.
3	Farm Ponds	No.	660	142	21.51	Same activity was done under MGNREGS. To avoid duplication, he didn't execute more no. of works
4	Structure for recharging drinking water Sources/Water hole	No.	18	17	94.40	WHS works is done with coordination of Irrigation and Panachayathi raj dept...
5	Water Harvesting Structure rejuvenated	No.	35	21	60	Unavailable of skilled labor
6	Check dam	No.	22	22	100	Target achieved
7	Sunken pits	No.	850	0	0	Farmers prefer farm ponds and dugout ponds in place of sunken pits
8	CCT/Staggered trenches	RMT	1300	1300	100	Forest area is covered under this project.
B	Production Activities					
1	Vermi Compost	No.	113	0	0	Farmers was not interested due to religion
2	Compost pit	No.	15	15	100	Target achieved
3	Sprayers	No.	65	30	46.15	Lack of fund
4	Provision of Argil.	No.	0	216	100	On the demand of farmers

	implements					
5	Health /Veterinary camp	No.	10	10	100	Target achieved with coordination of A. H department
6	New fodder varieties	Ha.	25	25	100	Target achieved
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No.	26	16	61.50	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No.	40	27	67.50	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Check Dam and CCT/Staggered trenches were achieved up to the extent of expected outcome. The target of Percolation Tank, Mini Percolation Tanks, farm pond, Structure for recharging and Water Harvesting Structure rejuvenated work was achieved to the extent of 32.25, 33.30, 21.51, 94.40, and 60% respectively.
2. The work of sunken pits has remained unattended. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities.

- 1 Out of 7 production activities target of 4 activities namely, Compost pit, Provision of Argil. Implements, Health /Veterinary camp and New fodder varieties were achieved as per out come. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.
- 2 The target of Sprayers distribution was achieved to the extent of 46.15%.and work of Vermi Compost has remained unattended

C Livelihood system

- 1 The revolving fund granted for livelihood action plan to 61.50% of SHG and 67.50 % fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were Mobil repairing, poultry rearing, motorcycle repairing work, dal mill, agro-service Centre,, tailoring, Grocery shop, tea stall etc.
- 2 Expert team met the members of SHG groups during the visit the team observed that, the 65% of SHG has been working properly and repaying the loan in time.35% of SHG were not working smoothly and not repaying the loan in time. Out of them 12 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP-III, Block- Mandasa District – Srikakulam State:
Andhra Pradesh**

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	8	7	7.6	-0.40	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	35	21	-14	Lack of fund.
3	Change in irrigated area	Ha.	913	1120	1024	-96	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	Ha.	1427	1740	1584	-156	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity						
	Cashew	Kg/ha	1976	2420	2500	80	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Paddy	Kg/ha	2175	2300	2360	60	
	Vegetable	Kg/ha	3608	4000	4310	310	
	Green gram	Kg/ha	640	750	785	35	
6	Area under horticulture	Ha.	290.4	180	125.74	-54.26	Farmers were interested due to higher income.

7	SHG federations formed	No.	2	100	66	-34	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	30000	60000	64300	4300	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	40	0	8	-8	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	105	150	130	-20	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	106	59.4	9.4	-50	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	36	50	9.50	-40.5	Only 9.50 ha. land was allotted for vegetation by gram Sabah

Impact Evaluation Summary of IWMP-III, Block- Mandasa, District - Srikakulam State: Andhra Pradesh

1. The anticipated increase in ground water table has been not achieved i.e. -0.40 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 7 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target Check Dam and CCT/Staggered trenches and partially achieved of other structures like; Percolation Tank, Mini Percolation Tanks, farm pond, Structure for recharging and Water Harvesting Structure rejuvenated work Refer items 6, 8 and 1, 2, 3, 4 & 5 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 1584ha against target of 1740 ha) and remained short by 156 ha i.e. 8.96% (Refer Item 4 table 2) due to 84.20% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 8.57% short than the target (achieved 1024 ha against target of 1120 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 20 % (achieved 130% against target of 150%) – Refer item 10, table 2. The progress of both these items remained short due to lack of harvested rain water quantity. However, the productivity of Cashew, paddy, vegetable and green gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 69.85% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 66% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs60000/Annum by 7.30 % i.e. Rs4100/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 67.60, 18.40, 11.70 and 2.30 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 1753.30% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Discuss with SHG Members and Visited the Product activity of IWMP-III (Mandasa)

IMPACT EVALUATION OF SAMPLE IWMP PROJECTS OF - ASSAM

The Impact Evaluation of IWMP Projects has been carried out on the basis of following criteria:

- 1 Comparing the activity wise Physical Achievement vis-à-vis Target as per DPR (Refer Table1).
- 2 Comparing the Indicator wise impact with the expected out come after completion of the project as per DPR (Refer Table2).
- 3 Impact Evaluation Summary.

Name of Project -IWMP-I

Block -Matia

District -Goalpara

State -Assam

Table 1: Activity wise Physical Target and Achievements of sample IWMP-I Block- Matia District-Goalpara (ASSAM)

Sanctioned Amount-415.08 Lakh

Expenditure- 285.27 Lakh

Expenditure %-68.72

Total project area-7451 ha.

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Earthen guide bund	RM	7200	892	12.38	Due to un availability of fund at proper time
2	Nallah bund	RM	1400	200	14.28	Due to un availability of fund at proper time
3	Farm pond	No.	17	14	82.35	Some Farmers not turned up during execution
4	RCC check dam	No.	9	6	66.67	Could not be executed due to lack of fund and unwillingness of farmers.
5	WHS	No.	3	3	100	Target achieved
6	WHS(farm pond renovation)	No.	1	1	100	Target achieved
7	Boulder Gabion structure	RM.	1185	0	0	Farmers not turned up during execution
8	Earthen Embankment	RM	4035	3180	78.80	Due to lack of fund
9	Brick drainage channel Earthen Embankment	RM	2750	1539	55.96	Villagers not showed interest in this activity
B	Production Activities					
1	Horticulture Plantation	Ha.	22.40	7.06	31.51	Villagers not showed interest in this activity due to lack of marketing facility of horticulture produce
2	Rubber Plantation	Ha.	34	18.35	53.97	Villagers not showed interest.
3	Crop Demonstration	No.	55	60	109.1	On the demand of farmers
4	Piggery unit	No.	6	0	0	Maximum Villagers not showed interest because of religion.
5	Handloom/Weaving	No.	14	14	100	Target achieved.

6	Fruit processing	No.	5	0	0	Farmers not turned up during execution
7	Vermi Compost	No.	3	1	33.3	Villagers not showed interest in this activity
8	Bamboo craft/Tarja making	No.	8	3	37.50	Lack of fund
9	Tea Plantation	Ha	1.11	1.11	100	Target achieved
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No.	8	3	37.5	Many Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No.	76	54	71.05	The group not fulfill the pre-requisite for availing Revolving Fund
3	Revolving fund to SHG federation for livelihood action plan	No.	2	0	0	No one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

- 1- The target of G Earthen guide bund , Nallah bund , Farm pond , RCC check dam, Earthen Embankment and Earthen Embankment Were achieved to the extent of 12.38,14.28,82.35,66.67,78.80 and55.96% respectively .
- 2- Work of construction of Boulder Gabion structure has remained unattended
- 3- The target of water harvesting structure and renovation of farm pond work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

- 1 Out of 9 production activities only target of 7 activities namely Horticulture Plantation, Rubber Plantation, Crop Demonstration , Handloom/Weaving , Vermi Compost ,(Bamboo craft/Tarja making and Tea Plantation was 31.51,53.97,109.1,100,33.3,37.5 and 100% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture etc. The target Piggery unit and Fruit processing unit has remained unattended.

C- Livelihood system

1. The revolving fund granted for livelihood action plan to 37.50% of SHG, 71.05% to individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 76% of SHG has been working properly and repaying the loan in time. Only 24% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-I Block- Matia District- Goalpara (ASSAM)

S.no	Item	Unit	Pre-project Status	Expected Post project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	6-9	5-9	5.30-9	-0 30	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	1	1	0	0	Target was not achieved due to lack of fund.
3	Change in irrigated area	ha	182.5	253.5	223.5	-30	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	993	1255	1130	-125	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	ha					
6	Rice(Autumn)	Kg/ha	2136	2400	2510	110	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop management practices and judicial
	Rice(Summer)	Kg/ha.	2610	3025	3100	75	
	Rice(Winter)	Kg/ha.	2435	2950	3075	125	
	Potato	Kg/ha	6425	7500	8100	600	
	Mustard	Kg/ha	800	1050	1125	75	

							use of limited irrigation water in crop.
7	Area under horticulture	ha	22.40	10	6.2	-3.8	Farmers are not interested due to lack of marketing facility for horticulture produce.
8	SHG (Self Help Group) formed	No.	18	86	71	-15	Some groups not fulfill the pre-requisite for SHG formation
9	Income	Rs.	64000	74000	78000	4000	Income of Household increase due to increase in crop yield, price of crop produce and adoption of livelihood programme
10	Migration	No.	280	0	0	0	Maximum outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under MNAREGA and livelihood programme.
11	Cropping intensity	%	110	175	160	-15	The outcome of cropping intensity not achieved due to lack of inclusion of short duration crop in crop rotations.
12	Waste land development	ha	889	530	672	-142	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-I Block – Matia District-Goalpara (ASSAM)

1. The anticipate increase in ground water table has been not achieved i.e. - 0.30 m against the above target. (Refer item 1, table 2) The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1,3 &7 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like WHS & RCC check dam (Refer items 4 &5 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (1255 ha against target of 1130 ha) and remained short by 125 ha i.e.9.96% (Refer Item 4 table 2) due to 26.79% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 11.83 % short than the target (achieved 223.5 ha against target of 253.5 ha) – Refer item 3, table. Similarly cropping intensity remained short by 15% (achieved 160 % against target of 175%) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Rice(Autumn), Rice(Summer), Rice(Winter), Potato and mustard crops has been more than the target due to adoption of HYV/hybrid of crop variety, Dry land crop technology and use of soil moisture conservation practices
5. Only 62.0% expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of market facility for horticulture produce. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
6. 82.56 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
7. The household income increased over the expected post-project income of Rs 74000/Annum by 5.40 % i.e. Rs 4000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and adoption of livelihood activities.



WAPCOS EXPERT VISIT RCC CHECK DAM IWMP-1 BLOCK MATIA GOALPARA



WAPCOS EXPERT INTERACTING WITH SHG MEMBRES IWMP-1 BLOCK MATIA GOALPARA

Name of Project- IWMP-I
Block- Kaliapani
District- Jorhat
State- Assam

Table 1: Activity wise Physical Target and Achievements of sample IWMP-I Block- Kaliapani District-Jorhat (ASSAM)

Sanctioned Amount- 607.56 Lakh

Expenditure- 392.83 Lakh

Expenditure %- 64.65

Total project area-5063 ha.

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Field bund	RM	12000	6367	53.10	Target Could not be achieved due to unwillingness of farmers
2	Nullah bund	RM	1600	0	0	Due to un availability of fund at proper time
3	Farm pond(8152cum,)	No.	7	1	14.28	Farmers not turned up during execution
4	Earthen check dam(2100cum.)	No.	5	0	0	Due to lack of fund
5	RCC check dam	No.	4	4	100	Target achieved.
6	WHS	No.	36	36	100	Target achieved.
7	WHS(farm pond renovation)	No.	2	1	50	Lack of fund.
8	Percolation tank	No.	30	5	16.70	Farmers not turned up during execution
9	Earthen Embankment	RM	3085	965	31.28	Due to lack of fund
10	drainage channel	RM	28481	28481	100	Target achieved.
B	Production Activities					
1	Horticulture Plantation	Ha.	9	1.50	16.70	Farmers not turned up during execution
2	Piggery unit	No.	10	10	100	Target achieved.
3	Crop Demonstration	No.	242	311	128.51	On the demand of farmers
4	Fishery unit		20	20	100	Target achieved..
5	Handloom/Weaving	No.	10	10	100	Target achieved.
6	Fruit processing	No.	15	5	33.30	Farmers not turned up during execution
7	Vermi Compost	No.	30	12	40	Maximum Villagers not showed interest in this activity
8	Bamboo craft/Tarja making	No.	10	4	40	Villagers not showed interest in this activity

9	Beekeeping	No.	30	15	50	some Villagers not showed interest
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No.	16	11	68.75	Many Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No.	125	102	81.60	The some group not fulfill the pre-requisite for availing Revolving Fund
3	Revolving fund to SHG federation for livelihood action plan	No.	4	1	25	Only one Group fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of Field bund, Farm pond, WHS (farm pond renovation) Percolation tank and Earthen Embankment Were achieved to the extent of 53.10, 14.28, 50.0, 16.70 and 31.28% respectively.
2. Work of Earthen check dam and Nullah bund structure has remained unattended
3. The target of RCC check dam, water harvesting structure and drainage channel work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 9 production activities target of all activities namely Horticulture Plantation, piggery unit, Crop Demonstration , Fishery , Handloom/Weaving , fruit processing, Vermi Compost, Bamboo craft/Tarja making and Beekeeping was 16.70,100, 128.51,100,100.33,30,40,40 and 50% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary hospital, Fishery, Department of agriculture etc.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 68.75% of SHG, 81.60% to individual SHG against the target. Only 25% fund was granted to SHG federation against the target.
2. Expert team met the members of SHG groups during the visit. The 69% of SHG has been working properly and repaying the loan in time. Only 31% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-I Block- Kaliapani District- Jorhat (ASSAM)

S.no	Item	Unit	Pre-project Status	Expected Post project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	6-8	4-8	5-8	-1.00	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	1	1	0	-1	Target was not achieved due to lack of fund.
3	Change in irrigated area	ha	145	365	271	-94	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	1280	2560	1986	-574	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development.
5	Crop productivity	ha					
6	Rice(Autumn)	Kg/ha	2115	2540	2580	40	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Rice(Summer)	Kg/ha.	2250	2610	2645	35	
	Rice(Winter)	Kg/ha.	2290	2565	2630	65	
	Potato	Kg/ha	5520	6510	7800	1290	
	Black gram	Kg/ha	650	750	8010	60	
	Mustard	Kg/ha	600	780	915	135	Outcome not achieved due to attack of white rust disease in mustard
7	Area under horticulture	ha	12	9	2	-7	Farmers are not interested due to lack of water
8	SHG (Self Help Group) formed	No.	346	171	145	-26	On the demand of villagers
9	Income	Rs.	6000	75000	80000	5000	Income of Household increase due to increase in crop yield, price of crop produce and adoption of livelihood activities
10	Migration	No.	1645	545	210	335	Maximum outcome of

							Reduction in migration not achieved as per target. However, reduction has taken place, the same is due to available work under MNAREGA and adoption of livelihood activities
11	Cropping intensity	%	125	175	165	-10	The outcome of cropping intensity not achieved due to lack of storage of rain water and lack of inclusion of short duration crop in crop rotations.
12	Waste land development	ha	3163	1600	2174	-574	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-I Block – Kaliapani District- Jorhat

(ASSAM)

1. The anticipate increase in ground water table has been not achieved i.e.-1.00 m against the above target. (Refer item 1, table 2) The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2, 4&8 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like RCC check dam, WHS & drainage (Refer items 5, 6 &10 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (2560 ha against target of 1986 ha) and remained short by574 ha i.e22.42% (Refer Item 4 table 2) due to 35.87% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 25.75 % short than the target (achieved 271 ha against target of 365 ha) – Refer item 3, table-2. Similarly cropping intensity remained short by 10% (achieved 165 % against target of 175%) – Refer item 11, table 2. The progress of both these items remained short due lack of harvested rain water quantity.However, the productivity of Rice(Autumn), Rice(Summer), Rice(Winter), Potato ,black gram and mustard crops has been more than the target due to adoption of HYV/hybrid seed of crop variety, Dry land crop technology and use of soil moisture conservation practices
4. Only 22.20% expected outcome of area under horticulture crops was achieved because of lack of farmers interest and. unavailability of market facility for horticulture produce. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
5. 84.80 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
6. The household income increased over the expected post-project income of Rs 75000/Annum by 6.70 % i.e. Rs 5000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood program me in the project area.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA. And adoption of livelihood activities.



WAPCOS EXPERTS VISIT FARM POND JAGDUAR HABI VILLAGE JORHAT-1



WAPCOS TEAM VISIT BOULDER SPAR SITE IWMP-I JORHAT

Name of Project- IWMP-II
Block- Lakhipur
District- Goalpara
State- Assam

Table 1: Activity wise Physical Target and Achievements of sample IWMP-II Block- Lakhipur District-Goalpara (ASSAM)

Sanctioned Amount- 240 Lakh

Expenditure- 166.39 Lakh

Expenditure %- 69.33

Total project area- 2000 ha.

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Earthen guide bund	RM	2353	2353	100	Target achieved
2	Bench terrace	RM	1348	0	0	Due to un availability of fund at proper time
3	Farm pond	No.	14	12	85.71	Some Farmers not turned up during execution.
4	check dam	No.	7	5	71.42	Target Could not be achieved due to unwillingness of villagers.
5	WHS	No.	3	3	100	Target achieved
6	WHS (farm pond/check dam renovation)	No.	2	2	100	Target achieved
7	Earthen Embankment	RM	5292	4297	81.20	Due to lack of fund
8	Brick drainage channel	RM	253	253	100	Target achieved.
B	Production Activities					
1	Horticulture Plantation	Ha.	6.42	4	62.31	Farmers not turned up during execution
2	Rubber Plantation	Ha.	10.50	0	0	Villagers not showed interest.
3	Crop Demonstration	No.	40	40	100	Target achieved
4	Piggery unit	No.	2	0	0	Villagers not showed interest in this activity.
5	Handloom/Weaving	No.	14	14	100	Target achieved.
6	Fruit processing	No.	5	1	20	Farmers not turned up during execution
7	Vermi Compost	No.	2	0	0	Villagers not showed interest in this activity
8	Bamboo craft/Tarja making	No.	5	3	60	Some villagers not turned up during execution
9	beekeeping	No.	4	1	25	Due to lack of fund

C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No.	13	6	46.15	Many Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No.	30	17	56.70	The group not fulfills the pre-requisite for availing Revolving Fund.
3	Revolving fund to SHG federation for livelihood action plan	No.	3	0	0	No one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Farm pond, check dam and Earthen Embankment were achieved to the extent of 85.71, 71.42 and 81.20% respectively
2. Work of construction of Bench terrace structure has remained unattended.
3. The target of earthen guide bund, water harvesting structure, farm pond/check dam renovation and brick drainage channel work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

1. Out of 9 production activities only target of 6 activities namely Horticulture Plantation , Crops demonstration, Handloom/Weaving, Fruit processing Bamboo craft/Tarja making and beekeeping was 62.31,100,100,20.0,60.0 and 25% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture etc. The target of Rubber Plantation, Piggery unit establishes and Vermi Compost has remained unattended.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 46.15% of SHG and 56.70% to individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 78% of SHG has been working properly and repaying the loan in time. Only 22% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-II Block- Lakhipur District- Goalpara (ASSAM)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	6-9	4.5-9	5-9	-0.5	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	0	2	1	-1	Target were not achieved due to lack of fund.
3	Change in irrigated area	ha	110	185	161	-24	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	1850	2313	2185	-128	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development.
5	Crop productivity	ha					
6	Rice(Autumn)	Kg/ha	2000	2600	2705	105	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop management practices and judicious use of limited irrigation water in crop
	Rice(Summer)	Kg/ha.	2075	2450	2615	165	
	Rice(Winter)	Kg/ha.	2165	2390	2580	190	
	Potato	Kg/ha	5800	7500	8100	600	
	Mustard	Kg/ha	800	1000	1105	105	
7	Area under horticulture	ha	15.5	6.25	4.00	-2.25	Farmers are not interested due to lack of marketing of horticulture produce.
8	SHG (Self Help Group) formed	No.	12	46	34	-12	Some groups not fulfill the pre-requisite for SHG formation
9	Income	Rs.	62000	77000	83000	6000	Income of Household

							increase due to increase in crop yield, price of crop produce and livelihood activities.
10	Migration	No.	1350	nil	140	-140	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under MNAREGA and adoption of livelihood activities.
11	Cropping intensity	%	150	200	185	-15	The outcome of cropping intensity not achieved due to lack of inclusion of short duration crop in crop rotations.
12	Waste land development	ha	584	328	450	-122	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-II Block- Lakhipur District-Goalpara (ASSAM)

1. The anticipate increase in ground water table has been not achieved i.e. -0.50 m against the above target. (Refer item 1, table 2) The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2, & 4 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like earthen guide bund, water harvesting structure, farm pond/check dam renovation and brick drainage channel work were achieved (Refer items 1,5,6. &8 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (2313 ha against target of 2185 ha) and remained short by 128 ha i.e. 5.50% (Refer Item 4 table 2) due to 37.20% less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 12.97 % short than the target (achieved 161 ha against target of 185 ha)–Refer item 3, table 2. Similarly, cropping intensity remained short by 15% (achieved 185 % against target of 200%) – Refer item 11, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Rice(Autumn), Rice(Summer), Rice(Winter), Potato and mustard crops has been more than the target due to adoption of HYV/hybrid seed of crop variety, Dry land crop technology and use of soil moisture conservation practices.
4. Only 64 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of market facility for horticulture produce. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
5. 73.91 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
6. The household income increased over the expected post-project income of Rs. 77000/Annum by 7.79 % i.e. Rs 6000/- mainly due to increase in crop productivity, price of agriculture produce, wage rate and adoption of livelihood programme in the project area.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and adoption of livelihood programme for employment generation.



WAPCOS EXPERTS VISIT RCC CHECK DAM IWMP-II GOALPARAJ AYRAMKUCHI



WAPCOS EXPERTS VISIT DRAINAGE CHANNEL IWMP-II OALPARAJAYRAMKUCHI

Name of Project- IWMP-II
Block- Brahampur
District- Nagaon
State- Assam

Table 1: Activity wise Physical Target and Achievements of sample IWMP-II Block- Brahampur District- Nagaon (ASSAM)

Sanctioned Amount-444.84 Lakh

Expenditure- 309.05 Lakh

Expenditure %-69.47

Total project area-3707 ha.

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Earthen bund	RM	740	740	100	Target achieved
2	Shallow tube well	No.	27	0	0	Due to un availability of fund.
3	Farm pond	No.	19	12	63.15	Farmers not turned up during execution
4	check dam	No.	4	2	50	Could not be executed due to unwillingness of villagers.
5	WHS	No.	2	0	0	Due to un availability of fund.
6	WHS(farm pond renovation)	No.	22	10	45.40	villagers not turned up during execution
7	Constriction of canal with sub canal	RM	3250	1500	46.15	Target were not achieved due to lack of fund
8	Renovation of earthen canal	RM	3600	2000	55.60	Due to lack of fund
B	Production Activities					
1	Horticulture Plantation	Ha.	5	3.60	72	Farmers not turned up during execution
2	Bamboo Plantation	Ha.	4	2.10	52.50	Villagers not showed interest.
3	Crop Demonstration	No.	80	90	112.5	On the demand of farmers
4	Piggery unit	No.	2	2	100	Target achieved.
5	Handloom/Weaving	No.	12	0	0	Lack of coordination with department of hand loom and weaving.
6	Bee keeping	No.	4	4	100	Farmers not turned up during execution
7	Fishery	No.	2	0	0	Villagers not showed interest in this activity
8	Bamboo craft/Tarja making	No.	10	4	40	Farmers not turned up during execution
9	poultry	No.	6	3	50	Due to lack of fund
C	Livelihood System					

1	Revolving Fund to SHG for livelihood action plan	No.	14	6	42.85	Many Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No.	98	66	67.40	The group not fulfill the pre-requisite for availing Revolving Fund
3	Revolving fund to SHG federation for livelihood action plan	No.	4	1	25	Only one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Farm pond, check dam WHS (farm pond renovation), Constriction of canal with sub canal and Renovation of earthen canal were achieved to the extent of 63.15, 50, 45.40, 46.15 and 55.0% respectively
2. Work of construction of Shallow tube well and water harvesting structure has remained unattended
3. The target of earthen bund, work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasin
4. g their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 9 production activities only target of 7 activities namely Horticulture Plantation, Bamboo Plantation, Crop Demonstration, Piggery unit, Bee keeping, Bamboo craft/Tarja making and poultry was 72,52.50,112.50,100,100,40 and 50.0% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Fishery, Veterinary hospital, Agriculture and Department of Handloom/Weaving of Assam. The target of the target of Handloom/Weaving and Fishery has remained unattended

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 66.70% of SHG and 58.3% to individual SHG against the target. The 25% fund was granted to SHG federation against the target.
2. Expert team met the members of SHG groups during the visit. The 80% of SHG has been working properly and repaying the loan in time. Only 20 % of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-II Block- Brahampur District-Nagaon (ASSAM)

S.no	Item	Unit	Pre-project Status	Expected Post project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	8-10	6-10	6.8-10	-0.80	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	6	22	10	-12	Target was not achieved due to lack of fund.
3	Change in irrigated area	ha	395	510	462	-48	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	2844	3050	2970	-80	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	Kg/ha					
6	Rice(Autumn)	Kg/ha	2135	2210	2300	90	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology and judicious use of limited irrigation water in crop
	Rice(Summer)	Kg/ha	2610	2960	3010	50	
	Rice(Winter)	Kg/ha	2670	3000	3120	120	
	Potato	Kg/ha	6500	7250	7900	650	
	Black gram	Kg/ha	690	800	910	110	
7	Area under horticulture	Ha.	13	5	3.6	-1.4	Farmers are not interested due to lack of marketing facilities for horticulture produce.
8	SHG (Self Help Group) formed	No.	24	116	73	-43	Some groups not fulfill the pre-requisite for SHG formation
9	Income	Rs.	60000	78000	83000	5000	Income of Household

							increase due to increase in crop yield , price of crop produce and income received from livelihood activities
10	Migration	No.	935	115	135	-20	Maximum outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under MNAREGA and adoption of livelihood activities.
11	Cropping intensity	%	140	200	180	-20	The outcome of cropping intensity not achieved due to lack of inclusion of short duration crop in crop rotations
12	Waste land development	ha	863	600	680	-80	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-II Block- Brahampur District-Nagaon (ASSAM)

1. The anticipate increase in ground water table has been achieved i.e. -0.80 m against the above target. (Refer item 1, table 2) The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2&5 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like earthen bund & Farm pond structure (Refer items 1 & 3 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (3050 ha against target of 2970 ha) and remained short by 80 ha i.e. 2.60% (Refer Item 4 table 2) due to 13.30% less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 9.41 % short than the target (achieved 462 ha against target of 510 ha) – Refer item 3, table 2. Similarly, cropping intensity remained short by 20 % (achieved 180 % against target of 200%) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Rice(Autumn), Rice(Summer), Rice(Winter), Potato and black gram crops has been more than the target due to adoption of HYV/hybrid seed of crop variety, Dry land crop technology and use of soil moisture conservation practices.
5. Only 72.0% expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of market facility for horticulture produce. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
6. 62.93 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
7. The household income increased over the expected post-project income of Rs 78000/Annum by 6.41 % i.e. Rs 5000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and adoption of livelihood programme in the project area.



DEVELOPMENT OF FARM POND AT IWMP-II NAGAON ASSAM



DEVELOPMENT OF MARSHY LAND AND CREATION OF POND AT JALAHGAON IWMP-II NAGAON ASSAM

IMPACT EVALUATION OF IWMP SAMPLE PROJECTS OF RAIGARH, BALOD AND RAIPUR DISTRICTS –CHHATTISGARH

The Impact Evaluation of IWMP Projects has been carried out on the basis of following criteria:

1. Comparing the activity wise Physical Achievement vis-à-vis Target as per DPR (Refer Table1).
2. Comparing the Indicator- wise impact with the expected outcome after completion of the project as per DPR (Refer Table2).
3. Impact Evaluation Summary.

The project wise details are enclosed-

Name of Project-	IWMP-I
Block-	Lailunga
District-	Raigarh
State-	Chhattisgarh

Table 1: Activity wise Physical Target and Achievements of IWMP- I Block-Lailunga District - Raigarh (Chhattisgarh)

Sanctioned Amount- 990.00 (Lakh)

Expenditure- 349.53lakh.

Expenditure -35.30%

Total project Area- 8250.00 ha

Year of Sanction-2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Boulder Check/ Gully plugs	Nos.	580	171	29.48	Farmers not turned up during execution due to share money
2	Earthen Check	Nos.	79	11	13.92	Lack of fund
3	Stop Dam/check dam	Nos.	16	0	0	Lack of fund
4	Tank/ Debary	No's	48	45	93.75	Problem of owner ship of land
5	Percolation Tank	Nos.	42	42	100	Target achieved
6	Open Well	Nos.	54	32	59.26	Lack of fund
7	A forestation	Ha.	42.5	5	11.76	Problem of owner ship of land and small holding.
8	Pasture development	Ha	136.1	18.68	13.7	Only18.68 ha land provided by the Gram Sabah for pasture development
9	Staggered trench	Rmt.	57100	426	0.75	Lack of fund
10	Open Well rejuvenation	No.	4	0	0	Lack of fund
B	Production Activities					
1	Fishery	No	73	0	0.0	Farmers not turned up during execution because of religion
2	Poultry unite	No	47	12	25.53	Lack of fund
3	Animal health camp.	No	26	12	46.15	Organized with coordination of department of A.H
4	Open Well with Pump set	No	5	3	60.0	Lack of fund
5	Crop demonstration	No	120	120	100.0	Target achieved with the coordination of department of agriculture
6	Lac. production	No	10	10	100.0	Target achieved. with the coordination of concerned department .
7	Bio Crop	No	7	3	42.86	Farmers were not interested in this activity

8	Horticulture nursery	No	10	5	50.0	Farmers not turned up during execution due to lack of produce sale
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	16	9	56.25	Some Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	35	22	62.85	The other group not fulfill the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of Boulder Check/ Gully plugs, Earthen Check ,Tank/ Debary, Open Well, A forestation, Pasture development and Staggered trench Were achieved to the extent of 29.48,13.92,93.75,59.26,11.76,13.70 and 0.75% respectively .
2. Work of Stop Dam/check dam has remained unattended
3. Only the target of Percolation Tank work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 8 production activities target of all 7 activities namely Poultry unite, Animal health camp. Open Well with Pump set, Crop demonstration, Lac. Production, and horticulture nursery was 25.53, 46.15, 60, 100, 100, 42.86 and 50 % achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture .The target of Fishery has remained unattended.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 56.25% of SHG, 62.85 % to individual SHG against the target. The main enterprises of SHG were Goatery, bakery, floor mill, tailoring, carpenter work, poultry, etc
2. Expert team met the members of SHG groups during the visit. The 73% of SHG has been working properly and repaying the loan in time. Only 27 % of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP-01 Kelow Nandi Block – Lailunga
District - Raigarh (Chhattisgarh)**

S.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	8-10	7-9	7.40-9	-0.40	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area.(actual status of water table drawn from data received from farmers at the time of expert visit. Target were not achieved due to lack of fund .
2	Ground water structures (repaired/ rejuvenated)	No.	0	4	0	0	
3	Change in irrigated area	ha	140	622	379	-243	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	2147	2570	2386	-183	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and wasteland development
5	Crop productivity						
6	Paddy	Kg/ha	1800	2200	2400	200	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology and adoption of dry land cultivation practices.
	Groundnut	Kg/ha	600	800	860	60	
	Moong	Kg/ha	300	500	540	40	
	Wheat	Kg/ha	20000	2200	2300	100	
	Gram	Kg/ha	-	600	670	70	
	Mustard	Kg/ha	600	750	810	60	

7	Area under horticulture	ha	120	200	116.50	-83.50	Farmers are not interested due to lack of irrigation water in summer and marketing problem
8	SHG formation for livelihood activity	No.	42	59	38	-21	maximum groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	36000	48000	51500	3500	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration(persons)	No.	205	75	110	-35	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP and adoption of livelihood activities.
11	Cropping intensity	%	114	150	136	-14	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation.
12	Waste land development	ha	1064	540	703	-163	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP) 01 Kelow Nandi Block – Lailunga District - Raigarh (Chhattisgarh)

1. The anticipate increase in ground water table has been not achieved i.e. -0.40 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1, 2, 3&9 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like Tank/ Debarry and Percolation Tank (Refer items 4&5 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 2386 ha against target of 2570 ha) and remained short by 183 ha i.e. 7.12% (Refer Item 4 table 2) due to 30.20 % less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 39.10 % short than the target (achieved 379 ha against target of 622 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 14% (achieved 136 % against target of 150 %) – Refer item 11, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of paddy, ground nut, moong, urd, Wheat, Mustard and Gram crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology, use of soil moisture conservation practices and judicious use of limited irrigation water.
4. Only 58.25 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of irrigation water for horticulture crop. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
5. 64.40 % expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase their income.
6. The household income increased over the expected post-project income of Rs 48000/Annum by 7.29 % i.e. Rs 3500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income agriculture, dairy, labor and other occupation were contribute to the extent 56.20, 27.80, 13.30 and 2.70 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities.



WAPCOS TEAM VISIT DEBARI IN IWMP-I RAIGARH



WAPCOS TEAM VISIT CHECK DAM IN IWMP-I RAIGARH

Name of Project-	IWMP-II
Block-	Sarangarh
District-	Raigarh
State-	Chhattisgarh

Table 1: Activity wise Physical Target and Achievements of IWMP II Block- Sarangarh District - Raigarh (Chhattisgarh)

Sanctioned Amount- 720.00 (Lakh)

Expenditure- 325.10lakh.

Expenditure -45.15%

Total project Area-6000 ha

Year of Sanction-2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Boulder Check/ Gully plugs	Nos.	416	217	52.16	Farmers not turned up during execution due to share money
2	Earthen Check	Nos.	18	7	38.9	Lack of fund
3	Stop Dam/check dam	Nos.	9	9	100	Target achieved
4	Tank/ Debary	No's	38	30	78.94	Problem of owner ship of land and small holding
5	Percolation Tank	Nos.	39	20	68.96	Lack of fund
6	Open Well	Nos.	34	0	0	Lack of fund
7	A forestation	Ha.	18	0	0	Problem of owner ship of land and small holding& lack of fund
8	Pasture development	Ha	22.50	10.50	46.67	Only10.50 ha land provided by the Gram Sabah for pasture development
9	Staggered trench	Rmt.	12400	0	0	Lack of fund
10	Field bund	Ha.	180	35.50	19.7	Problem of owner ship of land
11	Open Well	No.	6	0	0	Lack of fund
B	Production Activities					
1	Fishery	No	56	6	10.70	Farmers not turned up during execution because of religion
2	Poultry unite	No	138	0	0	Lack of fund
3	Animal health camp.	No	20	12	60	Organized with coordination of department of A.H
4	goatery	No	79	0	0	Lack of fund
5	Crop demonstration	No	95	95	100.0	Target achieved with the coordination of department of agriculture
6	Lac. Production unit	No	10	10	100.0	Target achieved.

7	Bio. fertilizer production unit	No	22	0	0	Farmers were not interested in this activity due to lack of market.
8	Horticulture nursery	No	72	19	26.38	Farmers not turned up during execution due to lack of produce sale
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	8	5	62.5	Some Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	30	21	70	The other group not fulfill the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

- 1- The target of Boulder Check/ Gully plugs, Earthen Check, Tank/ Debary, Percolation Tank, Pasture development, and Field bund were achieved to the extent of 52.16, 38.90, 78.94, 68.94, 46.67 and 19.70 respectively.
- 2- Work of Open Well, A forestation and Staggered trench dam has remained unattended
- 3- Only the target of Stop Dam/check dam work was achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 8 production activities target of only 5 activities namely Fishery, Animal health camp. Crop demonstration, and horticulture nursery was 10.70,60,100,100, and 26.38 % achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture .The target of Poultry unite, goatery, and Bio- fertilizer production unit has remained unattended.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 56.25% of SHG, 62.85 % to individual SHG against the target. The main enterprises of SHG were Goatery, bakery, floor mill, tailoring, carpenter work, poultry, etc
2. Expert team met the members of SHG groups during the visit. The 73% of SHG has been working properly and repaying the loan in time. Only 27 % of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP- II Block- Sarangarh District - Raigarh (Chhattisgarh)

S.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	8-10	6-8	6.7-8	-0.70	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area.(actual status of water table drawn from data received from farmers at the time of expert visit
2	Ground water structures (repaired/rejuvenated)	No.	0	6	0	0	Target were not achieved due to lack of fund .
3	Change in irrigated area	ha	135	511	315	-196	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	1154	1485	1356	-129	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and wasteland development.
5	Crop productivity						
6	Paddy	Kg/ha	2000	2500	2610	110	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology, efficient use of irrigation water and adoption of dry land cultivation practices.
	Groundnut	Kg/ha	800	900	972	72	
	Urd	Kg/ha	400	500	510	10	
	Wheat	Kg/ha	1800	2100	2200	100	
	Gram	Kg/ha	540	600	675	75	
	Mustard	Kg/ha	620	750	780	30	
7	Area under horticulture	ha	88.60	120	91.20	-28.20	Farmers are not interested due to lack of irrigation water in summer and marketing problem

8	SHG formation for livelihood activity	No.	16	36	25	-9	Some groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	32000	45000	48500	3500	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration(persons)	No.	152	60	75	-15	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP and adoption of livelihood activities.
11	Cropping intensity	%	112	160	130	-30	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation.
12	Waste land development	ha	1063	510	722	-212	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP- II Block- Sarangarh District - Raigarh (Chhattisgarh

1. The anticipate increase in ground water table has been not achieved i.e. -0.70 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2, 6&9 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like Stop Dam/check dam Tank/ Debari and Percolation Tank (Refer items 3, 4&5 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 1356 ha against target of 1485 ha) and remained short by 196 ha i.e. 8.67% (Refer Item 4 table 2) due to 41.56 % less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 38.35 % short than the target (achieved 315 ha against target of 511 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 30% (achieved 130 % against target of 160 %) – Refer item 11, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of paddy, ground nut, urd, Wheat, Mustard and Gram crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology, use of soil moisture conservation practices and judicious use of limited irrigation water.
4. Only 76 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of irrigation water for horticulture crop. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
5. 69.44.40 % expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase their income.
6. The household income increased over the expected post-project income of Rs 45000/Annum by 7.78 % i.e. Rs 3500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income agriculture, dairy, labor and other occupation were contribute to the extent 60.50, 26.90, 11.30 and 2.30 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities.



WAPCOS TEAM VISIT CHECK DAM IN IWMP-II RAIGARH



WAPCOS TEAM INTERACTING WITH SHG IN IWMP-II RAIGARH

Name of Project-	IWMP-III
Block-	Dondilohara
District-	Balod
State-	Chhattisgarh

Table 1: Activity wise Physical Target and Achievements of IWMP- III Block- Dondilohara District - Balod (Chhattisgarh)

Sanctioned Amount- 600.00 (Lakh)

Expenditure- 253.28lakh.

Expenditure -42.20%

Total project Area- 5000 ha

Year of Sanction-2010-11

S.No	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Boulder Check/ Gully plugs	Nos.	120	98	81.66	Maximum target achieved.
2	Earthen Check	Nos.	7	4	57.14	Lack of fund
3	Stop Dam/check dam	Nos.	11	11	100	Target achieved
4	pond	No's	14	6	42.85	Problem of owner ship of land &share money.
5	Tank/dabri	Nos.	9	0	0	Lack of fund
6	Open Well	Nos.	42	0	0	Lack of fund
7	Tank repair	No,	11	06	54.54	.lack of fund
8	Pasture development	Ha	13.50	0	0	No, land provided by the Gram Sabah for pasture development
9	Tank repair	Rmt.	2000	300	15	Problem of owner ship of land &lack of fund.
B	Production Activities					
1	Fishery	No	5	2	40	Farmers not turned up during execution because of religion
2	Poultry unite	No	5	1	20	Lack of fund
3	Animal health camp.	No	26	12	46.15	Organized with coordination of department of A.H
4	Mushroom cultivation	No	10	0	0	Lack of marketing facility.
5	Crop demonstration	No	15	15	100	Target achieved with the coordination of department of agriculture
6	Sprayer distribution	No	10	10	100	Target achieved.
7	Vermin compost	No	10	1	10	Farmers not turned up during execution due to lack of produce sale
8	Compost pit	No	10	0	0	Farmers were not interested in this activity.
C	Livelihood System					

1	Revolving Fund to SHG for livelihood action plan.	No	13	8	61.52	Some Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	36	28	77.78	The other group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in aids to federation SHG for their livelihood plan.	No.	05	0	0	No one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

- 1- The target of Boulder Check/ Gully plugs, Earthen Check, pond, Tank repair , and Tank repair Were achieved to the extent of 81.66,57.14,42.85,54.54 and 15% respectively .
- 2- Work of Tank/dabri, Open Well and Pasture development has remained unattended
- 3- Only the target of Stop Dam/check dam work was achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 8 production activities target of only 6 activities namely Fishery, Poultry unite, Animal health camp. Crop demonstration, Sprayer distribution, and Vermin compost was 40, 20, 46.15,100,100 and 10 % achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture .The target of Mushroom cultivation and Compost pit has remained unattended.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 61.52% of SHG, 77.75 % to individual SHG against the target. The main enterprises of SHG were black smith, bakery, floor mill, tailoring, carpenter work, poultry, etc.
2. Expert team met the members of SHG groups during the visit. The 67% of SHG has been working properly and repaying the loan in time. Only 33 % of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP- III Block- Dondilohara District - Balod
(Chhattisgarh)**

S.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	7-10	5-8	6-7	-1.00	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area.(actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures (repaired/rejuvenated)	No.	0	11	6	-5	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	901	1500	1340	-160	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	3010	3550	3328	-222	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and wasteland development
5	Crop productivity						
6	paddy	Kg/ha	2000	2200	2340	140	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology and adoption of dry land cultivation practices.
	Maize	Kg/ha	1500	1600	1674	74	
	Wheat	Kg/ha	1700	1850	2000	150	
	Gram	Kg/ha	1000	1100	1175	75	
	Mustard	Kg/ha	700	800	905	105	
7	Area under horticulture	ha	120	315	162	-153	Farmers are not interested due to lack of irrigation water in summer and marketing problem
8	SHG formation for livelihood activity	No.	20	60	44	-16	maximum groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	30000	45000	49500	4500	Income of Household increase due to increase in

							crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration(persons)	No.	110	0	10	-10	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP and adoption of livelihood activities.
11	Cropping intensity	%	110	150	130	-20	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation.
12	Waste land development	ha	320	150	210	-60	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-III Block- Dondilohara District - Balod (Chhattisgarh)

1. The anticipate increase in ground water table has been not achieved i.e. -1.0 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 5&6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like Boulder Check/ Gully plugs and Stop Dam/check dam (Refer items 1&3 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 3328 ha against target of 3550 ha) and remained short by 222 ha i.e. 6.25% (Refer Item 4 table 2) due to 40 % less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 10.67 % short than the target (achieved 1340 ha against target of 1500 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 20% (achieved 130 % against target of 150 %) – Refer item 11, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of paddy, Maize, Wheat, Mustard and Gram crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology, use of soil moisture conservation practices and judicious use of limited irrigation water.
4. Only 51.43 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of irrigation water for horticulture crop. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
5. 73.30 % expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase their income.
6. The household income increased over the expected post-project income of Rs 45000/Annum by 10.0 % i.e. Rs 4500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income agriculture, dairy, labor and other occupation were contribute to the extent 58.50, 26.80, 12.70 and 2.00 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities.



WAPCOS TEAM VISIT CHECK DAM AND INTERACTING WITH USERS IN IWMP-III BALOD



WAPCOS TEAM INTERACTING WITH SHG IN IWMP-III BALOD

Name of Project-	IWMP-IV
Block-	Abhanpur
District-	Raipur
State-	Chhattisgarh

Table 1: Activity wise Physical Target and Achievements of IWMP- IV Block- Abhanpur District- Raipur (Chhattisgarh)

Sanctioned Amount- 579.60 (Lakh)

Expenditure- 321.32 (Lakh)

Expenditure % - 55.43 %

Total project Area- 4830 ha

Year of Sanction- 2010-2011

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Pond(Percolation tank)	Nos.	16	10	62.50	Due to shortage of Fund
2	Gully Plugs	Nos.	20	8	40	Due to shortage of Fund
3	Field Channel	Mts.	2000	0	0	Farmers not turned up during execution due to lack of share money
4	Nala Diversion	Nos.	3	0	0	Due to shortage of Fund
5	Boulder Check	Nos.	12	7	58.33	Due to shortage of Fund
6	Field Bunding	Ha.	1400	0	0	Due to Problem of ownership of land & share money.
7	Tank/Dabari	Nos.	12	5	41.66	Due to shortage of Fund
8	Stop Dam/Check Dam	Nos.	12	12	100	Target achieved
9	Pasture development	Ha.	4	0	0	No, land provided by the Gram Sabah for pasture development.
10	Tank Repairing	Nos.	7	3	42.85	Due to shortage of Fund
13	Production Activities					
1	Vermin-Compost	Nos.	10	4	40	Due to shortage of Fund
2.	Mushroom Cultivation	Nos.	10	2	20	Due to shortage of Fund and marketing problem
3.	Crop Demonstration	Nos.	130	130	100	Target achieved with the coordination of department of agriculture
4.	Distribution of Agri. Implements (chaff cutter)	Nos.	30	18	60	Lack of fund
5.	Health/Veterinary Camps	Nos.	11	11	100	Target achieved with the coordination of department of animal husbandry.
6.	Poultry	Nos.	02	02	100	Target achieved with the coordination of department of animal husbandry.

7.	Fishery unit	No.	5	0	0	Farmers not turned up during execution because of religion
8.	Banana Cultivation by UGS	Nos.	11	00	00	UGS was not interested due to more risk.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	7	4	51.17	Some Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	18	11	61.10	The other group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in Aids to Federation SHG for their livelihood plan.	No	1	0	0	No one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A- Natural Resource Management (NRM)

1. The target of Pond (Percolation tank), Gully plugs, Boulder Check, Tank/Dabari and Tank repair were achieved to the extent of 62.50, 40, 58.33, 41.66 and 42.85% respectively.
2. Work of Field Channel, Nala Diversion, Field Bunding and Pasture development has remained unattended.
3. Only the target of Stop Dam/check dam work was achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B- Production Activities

1. Out of 8 production activities target of only 6 activities namely Vermin-Compost, Mushroom Cultivation, Crop Demonstration, Distribution of Agri. Implements (chaff cutter) and Poultry was 40, 20, 100, 60,100 and 100 % achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. fishery and Department of agriculture .The target of Fishery and Banana Cultivation by UGS has remained unattended.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 51.17% of SHG, 61.10 % to individual SHG against the target. No fund was granted to SHG federation. The main

enterprises of SHG were masonry work, bakery, floor mill, tailoring, carpenter work, poultry, etc

- Expert team met the members of SHG groups during the visit. The 76% of SHG has been working properly and repaying the loan in time. Only 24 % of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP- IV Block- Abhanpur District- Raipur (Chhattisgarh)

S.no	Item	Unit	Pre-project Status	Expected Post - project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	8-10	7-10	6.10-10	-0.90	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area.(actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	7	3	-4	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	1675	2290	2157	-133	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	3435	3760	3625	-135	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and waste land development
5	Crop productivity						
6	Maize	Kg/ha	1200	1350	1415	65	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology, efficient use of irrigation water and adoption of dry land cultivation practices.
	Paddy	Kg/ha	2000	2300	2370	70	
	Wheat	Kg/ha	1650	1800	1950	150	
	Gram	Kg/ha	900	1000	1025	25	
	Mustard	Kg/ha	800	920	1015	95	
7	Area under	ha	117	200	126	-74	Farmers are not interested due

	horticulture						to lack of irrigation water in summer and marketing problem.
8	SHG formation for livelihood activity	No.	12	20	14	-6	Some groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	25250	42500	45000	2500	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration(per sons)	No.	430	220	245	-25	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP and adoption of livelihood activities.
11	Cropping intensity	%	110	150	132	-18	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation.
12	Waste land development	ha	260	125	178	-53	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-IV Block- Abhanpur District- Raipur (Chhattisgarh)

1. The anticipate increase in ground water table has been not achieved i.e. -0.90 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 3, 4 & 6, 9 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like Stop Dam/Check Dam, Pond (Percolation tank),and Boulder Check (Refer items 1, 5 & 8 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 3625 ha against target of 3760 ha) and remained short by135 ha i.e.3.60% (Refer Item 4 table 2) due to 42.40 % less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 5.81 % short than the target (achieved 2157 ha against target of 2290 ha) – Refer item 3, table2. Similarly cropping intensity remained short by 18% (achieved 132 % against target of 150 %) – Refer item 11, table 2.The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Maize, paddy, Wheat, Mustard and Gram crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology, use of soil moisture conservation practices and judicious use of limited irrigation water.
4. Only 63 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of irrigation water for horticulture crop. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
5. About70 % expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase their income.
6. The household income increased over the expected post-project income of Rs 42500/Annum by 5.88 % i.e. Rs 500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income Agriculture, dairy, labor and other occupation were contribute to the extent of 64.50, 21.80, 12.50 and 1.20 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities.



Latitude: 21.128083
 Longitude: 81.645795
 Elevation: 329.71m
 Accuracy: 2.4m
 Time: 08-08-2019 10:53
 Note: Check dam IWMP0 4 Kharajra

WAPCOS TEAM VISIT CHECK DAM AND INTERACTING WITH USERS IN IWMP-IV RAIPUR



WAPCOS TEAM INTERACTING WITH USERS IN IWMP-IV RAIPUR

IMPACT EVALUATION OF IWMP SAMPLE PROJECTS OF JAMNAGAR, JUNAGADH, AHMEDABAD, SURAT, AND BANASKANTHA, DISTRICTS –GUJARAT

The Impact Evaluation of IWMP Projects has been carried out on the basis of following criteria:

1. Comparing the activity wise Physical Achievement vis-à-vis Target as per DPR (Refer Table1).
2. Comparing the Indicator- wise impact with the expected outcome after completion of the project as per DPR (Refer Table2).
3. Impact Evaluation Summary.

The project wise details are enclosed-

Name of Project-	IWMP-II
Block-	Khambalia
District-	Jamnagar
State-	Gujarat

Table 1: Activity wise Physical Target and Achievements of IWMP-II Block- Khambhalia District –Jamnagar (Gujarat)

Sanctioned Amount- 888.86 Lakh

Expenditure- 458.625 Lakh

Expenditure % -51.59

Total project Area- 7921 ha

Year of Sanction-2009-10

S.No	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Waste weir(5M. length)	No.	446	131	29.37	Farmers not turned up during execution
2	Field bund	Rmt	212474	41543	19.55	Lack of fund
3	Gully Plug	No.	481	169	35.13	Maximum farmers were not interested in this activity
4	Land Leveling	Ha	314	133	42.35	Due to lack of fund
5	Farm Pond	No.	35	35	100	Target achieved
6	Lack west weir	No.	11	0	0	Farmers are not interested
7	Percolation Tank	No.	24	9	37.50	Farmers not turned up during execution
8	Causeway cum check dam	No.	43	29	67.44	Due to lack of fund
9	Check dam	No.	43	43	100	Target achieved
10	Pasture Development	Ha	10	5	50.00	Only5 ha land provided by the Gram Sabha for pasture development
B	Production Activities					
1	Sprinkler	No.	159	30	18.87	Maximum Farmers not turned up during execution
2	Kitchen Garden kit	No.	72	74	102.78	On demand of farm women
3	Animal Health Camp	No.	21	4	19.05	Farmers not turned up during execution
4	Cattle shed	No.	50	20	40	Farmers were not interested in this activity.
5	Vermi Compost	No.	96	54	56.25	Farmers not turned up during execution
6	Drip Irrigation	No	340	156	45.88	Lack of fund.
7	Crop demonstration.	No	60	65	108	Organized with the coordination of Department of agriculture.

C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	10	4	40	Many Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	20	10	50	The group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in Aids to Federation SHG for their livelihood plan.	No	2	0	0	No one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of Waste weir , Field bund, Gully Plug, Land Leveling , Percolation Tank , Causeway cum check dam and Pasture Development Were achieved to the extent of 29.37,19.53,35.13,42.35,37.50,67.44 and 50.0% respectively .
2. Work of construction of Lack west weir structure has remained unattended
3. The target of Farm Pond and Check dam work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 7 production activities target of all 7 activities namely Sprinkler Kitchen Garden kit, Animal Health Camp, Cattle shed , Vermi Compost, Drip Irrigation, and Crop demonstration was 18.87,102.78,19.05,40,56.25,45.88 and 108% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture .

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 40% of SHG, 50 % to individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 72% of SHG has been working properly and repaying the loan in time. Only 28% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-II Block-Khambhalia in District Jamnagar (Gujarat)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	25-30	21-30	22.4-30	-1.40	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures (dug wells, tube wells hand pumps) repaired/rejuvenated	No.	0	825	520	-305	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	2936	3811	3413	-398	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	4411	4878	4645	-233	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and waste land development
5	Crop productivity						
6	Groundnut	Kg/ha	1050	1425	1510	85	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology and adoption of dry land cultivation practices.
	Cotton	Kg/ha	950	1350	1405	55	
	Sesame(Til)	Kg/ha	900	1000	1080	80	
	Wheat	Kg/ha	2380	3500	3575	75	
	Cumin	Kg/ha	510	700	730	30	
	Gram	Kg/ha	850	960	1000	40	
7	Area under horticulture	ha	7.5	17	12	-5	Farmers are not interested due to lack of irrigation water in summer and marketing problem
8	SHG formed	No.	81	25	14	-11	maximum groups were not fulfill the pre-

							requisite for SHG formation
9	Income	Rs.	105000	125000	132000	7000	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration	No.	598	125	204	-79	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under MNAREGA and adoption of livelihood activities.
11	Cropping intensity	%	128	150	142	-8	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation.
12	Waste land development	ha	699	340	513	-173	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-II Block – Khambhalia in District Jamnagar (Gujarat)

1. The anticipate increase in ground water table has been not achieved i.e. -1.40 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1,2 &6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like farm pond, check dam, (Refer items 5 &8 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (4878 ha against target of 4645 ha) and remained short by 233 ha i.e. 4.77% (Refer Item 4 table 2) due to 50.88% less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 8.00 % short than the target (achieved 3413 ha against target of 3811 ha) – Refer item 3, table. Similarly cropping intensity remained short by 8% (achieved 142 % against target of 150 %) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity.
5. However, the productivity of Groundnut, Cotton, Til, Wheat, Cumin and Gram crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology and use of soil moisture conservation practices.
6. Only 70.58 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of market facility for horticulture produce. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
7. 56 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
8. The household income increased over the expected post-project income of Rs 125000/Annum by 5.60 % i.e. Rs 7000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area
9. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and adoption of livelihood activities.



WAPCOS TEAM VISITED CAUSE WAY CUM CHECK DAM IN IWMP-II KHAMBALIYA JAMNAGAR



WAPCOS TEAM INTERACTED WITH LIVELIHOOD ACTIVITY WORKER IN IWMP-II KHAMBALIYA JAMNAGAR

Name of Project-	IWMP-III
Block-	Khambalia
District-	Jamnagar
State-	Gujarat

Table 1: Activity wise Physical Target and Achievements of IWMP- III Block- Khambhali District –Jamnagar (Gujarat)

Sanctioned Amount- 921.101 Lakh

Expenditure- 625.586 Lakh

Expenditure % - 67.91

Total project Area- 8140.67ha

Year of Sanction-2009-10

S.No	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Waste weir	No.	768	417	54.30	Some Farmers not turned up during execution
2	Field bund	Rmt	174500	98276	56.32	Farmers not turned up during execution
3	Gully Plug	No.	17	0	0	Farmers were not interested in this activity.
4	Nalla Plug		7	5	71.42	Lack of fund
5	Percolation Tank	No.	5	5	100.00	Target achieved
6	Farm Pond	No.	34	2	5.88	Lack of fund
7	Causeway cum check dam	No.	22	0	0	Farmers were not interested in this activity.
8	Check dam	No.	31	31	100.00	Target achieved
9	Pasture Development	Ha	2	0	0.00	No land provided by the Gram Sabha for pasture development
10	Contour trenching	Ha	10	12	120.00	Demand of farmers
11	Pond outlet	No.	5	5	100.00	Target achieved
B	Production Activities					
1	Sprinkler	No.	152	109	71.71	Maximum Farmers not turned up during execution
2	Kitchen Garden kit	No.	253	260	102.7	On demand of farm women
3	Animal Health Camp	No.	25	5	20.00	Farmers not turned up during execution
4	Cattle shed	No.	122	94	77.1	Some Farmers were not interested in this activity.
5	Vermi Compost	No.	152	101	66.45	Farmers not turned up during execution

6	Drip Irrigation	No	166	117	70.48	Lack of fund.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	20	9	45.00	Maximum Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	25	17	68.00	The Some group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in Aids to Federation SHG for their livelihood plan.	No	5	1	20.0	Only one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

- 1- The target of Waste weir, Field bund, Nalla Plug and Farm Pond Were achieved to the extent of 54.30, 56.32, 71.42 and 5.88 % respectively.
- 2- Work of construction of Gully Plug, Causeway cum check dam and Pasture Development has remained unattended.
- 3- The target of Percolation Tank, Check dam, Contour trenching and Pond outlet work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

1. Out of 6 production activities target of all 6 activities namely Sprinkler Kitchen Garden kit, Animal Health Camp, Cattle shed , Vermi Compost and Drip Irrigation was 70.71, 102.7, 20.0, 77.1, 66.45 and 70.48% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture .

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 45% of SHG, 68 % to individual SHG against the target. The fund granted to SHG federation was 20% in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 80% of SHG has been working properly and repaying the loan in time. Only 20% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-III Block- Khambhali District –Jamnagar (Gujarat)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	28-30	22-30	32-30	-1.0	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures (dug wells, tube wells, hand pumps) repaired/rejuvenated	No.	0	725	580	-145	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	1207	1570	1431	-139	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	3738	4229	4036	-193	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and waste land development
5	Crop productivity						
6	Groundnut	Kg/ha	1050	1400	1465	65	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology and adoption of dry land cultivation practices.
	Cotton	Kg/ha	950	1250	1335	85	
	Sesame	Kg/ha	655	750	800	50	
	Wheat	Kg/ha	2400	2750	2810	60	
	Cumin	Kg/ha	475	540	560	20	
	Gram	Kg/ha	650	845	905	60	
7	Area under horticulture	ha	0	32	7.60	24.40	Farmers are not interested due to lack of irrigation water in summer and marketing problem

8	SHG federations formed	No.	4	20	13	-7	maximum groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	54000	70000	73500	3500	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration	No.	719	360	260	100	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under MNAREGA and adoption of livelihood activities.
11	Cropping intensity	%	132	160	150	-10	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation.
12	Waste land development	ha	918	450	643	-193	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-III Block – - Khambhali District –Jamnagar (Gujarat)

1. The anticipate increase in ground water table has been not achieved i.e. -1.00 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1, 3 &8 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like field bund, percolation tank and check dam, (Refer items 2, 5 & 9 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (4229 ha against target of 4036 ha) and remained short by193 ha i.e.4.56% (Refer Item 4 table 2) due to 42.88% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 8.85 % short than the target (achieved 1431 ha against target of1570 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10 % (achieved 150 % against target of 160 %) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity.
5. However, the productivity of Groundnut, Cotton, Sesame, Wheat, Cumin and Gram crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology and use of soil moisture conservation practices.
6. Only 23.75 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of market facility for horticulture produce. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
7. 65 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
8. The household income increased over the expected post-project income of Rs 70000/Annum by 5.00 % i.e. Rs 3500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
9. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and adoption of livelihood activities.



WAPCOS TEAM VISIT DRIP IRRIGATION AT IWMP-3 KHAMBALIA JAMNAGAR



HORTICULTURE GARDEN DEVELOPED UNDER IWMP-3 KHAMBALIA JAMNAGAR

Name of Project-	IWMP-VII
Block-	Khambalia
District-	Jamnagar
State-	Gujarat

Table 1: Activity wise Physical Target and Achievements of IWMP-VII Block- Khambhalia District –Jamnagar (Gujarat)

Sanctioned Amount- 625.74 Lakh

Expenditure- 436.94 Lakh

Expenditure % - 69.82

Total project Area- 7171.7ha

Year of Sanction-2010-11

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Waste weir	No.	602	493	81.89	some Farmers not turned up during execution
2	Field bund	Rmt	119183	79550	66.75	Lack of fund
3	Gully Plug	No.	40	40	100.00	Target achieved
4	Nalla Plug	Ha	34	34	100.00	Target achieved
5	Pond deepening	No.	13	13	100.00	Target achieved
6	Renovation of check dam	No.	6	0	0.00	Lack of fund
7	Percolation Tank	No.	16	9	56.25	Maximum Farmers not turned up during execution
8	Causeway cum check dam	No.	26	18	69.23	Lack of fund
9	Check dam	No.	28	16	57.14	Maximum Farmers not turned up during execution
10	Open well	No	65	0	0.0	Lack of fund
11	Pasture Development	Ha	12	0	0.0	No land provided by the Gram Sabha for pasture development
B	Production Activities					
1	Drip Irrigation	No	86	0	0.0	Maximum Farmers not turned up during execution
2	Sprinkler	No.	63	0	0.0	Lack of fund
3	Spray pump	No.	111	111	100.0	Target achieved

4	Cotton picker	No.	106	108	101.89	On the demand of farmers
5	Animal Health Camp	No.	18	7	38.89	Lack of coordination with Animal husbandry department
6	Cattle feed shop	No.	4	2	50.00	Villagers were not interested in this activity
7	Vermi Compost	No.	13	0	0.00	Lack of fund
8	Cotton stalk shredder	No	6	3	50.00	Maximum Farmers not turned up during execution
9	Thresher	No	10	10	100.00	Target achieved
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	15	7	46.67	Many Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	25	14	56.00	The some group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in Aids to Federation SHG for their livelihood plan.	No	2	0	0.0	No one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

- 1- The target of Waste weir, Field bund, Percolation Tank, Causeway cum check dam and Check dam Were achieved to the extent of 81.89, 66.75, 56.25, 69.23 and 57.14 % respectively.
- 2- Work of Renovation check dam, Open well and Pasture Development has remained unattended
- 3- The target of Gully Plug, Nalla Plug and Pond deepening work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 9 production activities only target of 6 activities namely Spray pump, Cotton picker, Animal Health Camp, Cattle feed shop, Cotton stalk shredder and Thresher was 100, 101.89, 38.89, 50, 50 and 100% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary

Hospital, Department of agriculture . The target of Drip Irrigation, Sprinkler and Vermi Compost has remained unattended.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 46.67% of SHG, 56 % to individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 73% of SHG has been working properly and repaying the loan in time. Only 27% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-VII Block- Khambhalia in District Jammagar (Gujarat)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	20-25	15-20	16.3-20	-1.30	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures (dug wells, tube wells& hand pumps) repaired/rejuvenated	No.	6	15	11	-4	Target was not achieved due to lack of fund.
3	Change in irrigated area	ha	684	1448	1012	-436	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	4033.6	4333	4176	-157	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and waste land development

5	Crop productivity						
6	Groundnut	Kg/ha	1200	1700	1735	35	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology and adoption of dry land cultivation practices.
	Cotton	Kg/ha	1400	1650	1695	45	
	Wheat	Kg/ha	2500	3800	3910	110	
	Jira	Kg/ha	530	700	780	80	
	Castor	Kg/ha	1600	2000	2175	175	
7	Area under horticulture	ha	9	25	9.50	-15.5	Farmers are not interested due to lack of irrigation water in summer and marketing problem
8	SHG federations formed	No.	32	30	21	-9	maximum groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	86000	105000	109500	4500	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration	No.	228	92	52	40	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under MNAREGA and adoption of livelihood activities.
11	Cropping intensity	%	120	165	145	-20	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation.
12	Waste land development	ha	567	248	389	-141	Target not achieved due to lack of funds

Impact Evaluation Summary of -VII Block-Khambhalia in District Jamnagar (Gujarat)
Summary of IWMP-

1. The anticipate increase in ground water table has been not achieved i.e. -1.30 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 6&10 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like waste weir, Gully Plug, Nalla Plug and Pond deepening (Refer items 1,2,4 &5 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (4333 ha against target of 4176 ha) and remained short by157 ha i.e.3.62% (Refer Item 4 table 2) due to 56.85% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 30.11 % short than the target (achieved1012 ha against target of1448 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 20 % (achieved 145 % against target of 165 %) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity.
5. However, the productivity of Groundnut, Cotton, Sesame, Wheat, Cumin and Castor crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology and use of soil moisture conservation practices.
6. Only 38 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of market facility for horticulture produce. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
7. 70 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
8. The household income increased over the expected post-project income of Rs 105000/Annum by 4.28 % i.e. Rs 4500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
9. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and adoption of livelihood activities



WAPCOS TEAM INTERACT WITH SHG BENEFITED GROUND NUT OPENER IN IWMP-7 KHAMBALIA JAMNAGAR



WAPCOS TEAM VISIT CHECK DAM IN IWMP-7 KHAMBALIA JAMNAGAR

Name of Project-	IWMP-VIII
Block-	Khambalia
District-	Jamnagar
State-	Gujarat

Table 1: Activity wise Physical Target and Achievements of IWMP-VIII Block- Khambhalia District –Jamnagar (Gujarat)

Sanctioned Amount- 743.66 Lakh

Expenditure- 335.11 Lakh

Expenditure % -45.06

Total project Area-6957.57ha

Year of Sanction-2010-11

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy.	Phy.	
A	Natural Resource Management					
1	Waste weir	No.	1060	479	45.19	Maximum Farmers not turned up during execution
2	Field bund	Rmt	114750	114750	100	Target achieved
3	Gully Plug	No.	31	5	16.13	Maximum Farmers not turned up during execution
4	Nalla Plug	Ha	31	4	12.90	Maximum Farmers not turned up during execution
5	Pond	No.	8	8	100	Target achieved
6	Pond deepening	No.	10	4	40.00	Lack of fund
7	Percolation Tank	No.	11	5	45.45	Farmers was not interested in this activity
8	Causeway cum check dam	No.	30	19	63.33	Maximum Farmers not turned up during execution
9	Check dam	No.	24	12	50.00	Lack of fund
10	Check dam	No.	67	0	0.0	Lack of fund
11	Repairing of open well	No	67	0	0.0	Maximum Farmers not turned up during execution
12	Pasture Development	Ha	17	0	0.0	No land provided by the Gram Sabha for pasture development
B	Production Activities					
1	Drip Irrigation	No	116	13	11.21	Maximum Farmers not turned up during execution
2	Spray pump	No.	218	218	100	Target achieved
3	Cotton picker	No.	235	182	77.44	Maximum Farmers not turned up during execution

4	Animal Health Camp	No.	19	4	21.05	Lack of coordination with Animal husbandry department
5	Cattle feed shop	No.	3	0	0.00	Lack of fund
6	Vermi Compost	No.	8	0	0.00	Farmers was not interested in this activity
7	Cotton stalk shredder	No	7	7	100.00	Target achieved
8	Agriculture machinery opener	No	15	8	53.33	Lack of fund
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	15	6	40.00	Many Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	20	12	60.00	The some group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in Aids to Federation SHG for their livelihood plan.	No	2	0	0.0	No one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

- 1- The target of Waste weir, Gully Plug, Nalla Plug, Pond deepening, Percolation Tank, Causeway cum check dam and Check dam were achieved to the extent of 45.19, 16.13, 12.9, 40, 45.45, 63.30 and 50 % respectively.
- 2- Work of constriction of check dam, Open well and Pasture Development has remained unattended
- 3- The target of Pond construction and Field bund work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 8 production activities only target of 6 activities namely Drip Irrigation, Spray pump, Cotton picker, Animal Health Camp, Cotton stalk shredder and Agriculture machinery opener was 11.21, 100, 77.44, 21.05, 100 and 53.33% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of

convergence of concern department i.e. Veterinary Hospital, Department of agriculture. The target of Cattle feed shop and Vermi Compost has remained unattended.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 40% of SHG, 60 % to individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 78% of SHG has been working properly and repaying the loan in time. Only 22% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-VIII Block-Khambhalia in District Jamnagar (Gujarat)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	25-28	22-28	23.2-28	-1.2	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures (dug wells, tube wells, hand pumps) repaired/rejuvenated	No.	7	12	0	0	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	1254	1475	1371	-104	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	4559	4915	4782	-133	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and waste land development
5	Crop productivity						

6	Groundnut	Kg/ha	1150	1720	1760	40	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology and adoption of dry land cultivation practices.
	Cotton	Kg/ha	1280	1500	1605	105	
	Castor	Kg/ha	1500	1800	1940	140	
	Wheat	Kg/ha	2450	3750	3800	50	
	Cumin	Kg/ha	530	600	705	105	
	Gram	Kg/ha	1630	1870	1960	90	
7	Area under horticulture	ha	18	57	14.60	-42.40	Farmers are not interested due to lack of irrigation water in summer and marketing problem
8	SHG federations formed	No.	46	25	18	-7	maximum groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	112000	130000	132000	2000	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration	No.	540	150	90	60	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under MNAREGA and adoption of livelihood activities.
11	Cropping intensity	%	115	150	140	-10	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation.
12	Waste land development	ha	401	135	263	-128	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP - VIII Block- Khambhalia in District Jamnagar (Gujarat)

1. The anticipate increase in ground water table has been not achieved i.e. -1.20 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 10,11&12 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like field bund, farm pond and check dam (Refer items 2,5 & 9 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (4915 ha against target of 4782 ha) and remained short by 133 ha i.e. 2.71% (Refer Item 4 table 2) due to 94.81% less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 7.05 % short than the target (achieved 1371 ha against target of 1475 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10 % (achieved 140 % against target of 150 %) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity.
5. However, the productivity of Groundnut, Cotton, Castor, Wheat, Cumin and Gram crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology and use of soil moisture conservation practices.
6. Only 25.61 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of market facility for horticulture produce. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
7. 72 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
8. The household income increased over the expected post-project income of Rs 130000/Annum by 1.54 % i.e. Rs 2000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
9. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and adoption of livelihood activities



WAPCOS TEAM VISIT CHECK DAM IN IWMP-8 JAMNAGAR GUJARAT



WAPCOS TEAM VISIT SHG ACTIVITY AT IWMP-8 JAMNAGAR GUJARAT

Name of Project-	IWMP-I
Block-	Una
District-	Junagadh
State-	Gujarat

**Table 1: Activity wise Physical Target and Achievements of IWMP-I Block- Una
District –Junagadh (Gujarat)**

Sanctioned Amount- 584.76 Lakh

Expenditure- 396.79 Lakh

Expenditure % -67.85

Total project Area- 4078 ha

Year of Sanction-2009-10

S.No	Activity	Unit	Target as per DPR	Achiev ement	% achiev ement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Waste weir	No.	192	97	50.52	Farmers not turned up during execution
2	Field bund	Rmt	4357	4357	100	Target achieved
3	Land Leveling	Ha	235.43	0	0	some farmers were not interested in this activity
4	Farm Pond	No.	6	6	100	Target achieved
5	Percolation Tank	No.	35	28	80	Lack of fund
6	Nallah bund	No.	12	0	0	Due to lack of fund
7	Check dam	No.	15	10	66.70	Farmers not turned up during execution
8	Cause way cum check dam	No.	19	19	100	Target achieved
9	Anicut	No.	30	22	73.30	Maximum farmers were not interested in this activity
10	Water Harvesting Structure (Old rejuvenated)	No.	45	27	60	Lack of fund
11	Pasture Development	Ha	6	3	50	Only 3 ha land provided by the Gram Sabah for pasture development
B	Production Activities					
1	Sprinkler irrigation	Ha.	10	6.3	63	Some Farmers not turned up during execution
2	Animal Health Camp	No.	9	5	55.50	Lack of coordination with department of A.H
3	Vermi Compost	No.	12	4	33.30	Farmers were not interested in this activity
4	Drip Irrigation	No	40	25	62.50	Lack of fund.
5	Crop demonstration.	No	25	30	120	Organized with the coordination of Department of agriculture.
6	Poultry unite	No.	20	12	60	Lack of fund
C	Livelihood System					

1	Revolving Fund to SHG for livelihood action plan.	No	50	30	60	Many Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	30	22	73.30	The group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in Aids to Federation SHG for their livelihood plan.	No	2	0	0	No one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of Waste weir, Percolation Tank, check dam, Anicut, Water Harvesting Structure (Old rejuvenated and Pasture Development Were achieved to the extent of 50.52, 80, 66.70, 73.30,60 and50.0% respectively.
2. Work of Land Leveling construction and Nallah bund structure has remained unattended
3. The target of Field bund, Farm Pond and Cause way cum check dam work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of all 6 activities namely Sprinkler irrigation, Animal Health Camp, Vermi Compost, Drip Irrigation, Crop demonstration and Poultry unite was 63, 55.50, 33.30, 62.50,120 and 60 % achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 60 % of SHG, 73.30 % to individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 68% of SHG has been working properly and repaying the loan in time. Only 32% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan. The earning of SHG members from livelihood activity was Rs.14000 to20000 per annum.

Table 2: Indicator wise impact of sample IWMP-I Block- Una District –Junagadh (Gujarat)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	10-12	8-10	9-10	-1.00	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area.(actual status of water table drawn from data received from farmers at the time expert visit)
2	Ground water structures (dug wells, tube wells hand pumps) repaired/rejuvenated	No.	0	45	27	-18	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	1274	1554	1456	-98	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	1490	1920	1813	-107	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and wasteland development
5	Crop productivity						
6	Groundnut	Kg/ha	1114	1400	1480	80	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology and adoption of dry land cultivation practices.
	Cotton	Kg/ha	930	1370	1415	45	
	Wheat	Kg/ha	2250	3480	3525	45	
	Millet	Kg/ha	1020	1360	1400	40	
	Onion	Kg/ha	8400	9000	9020	20	
7	Area under horticulture	ha	24.5	45	32	-13	Farmers are not interested due to lack of irrigation water in summer and marketing problem
8	SHG formation for livelihood	No.	15	39	31	-8	maximum groups were not fulfill the pre-requisite

	activity						for SHG formation
9	Income	Rs.	42000	65500	70200	4700	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration	No.	1093	775	600	-175	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under MNAREGA and adoption of livelihood activities.
11	Cropping intensity	%	163	200	195	-5	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation.
12	Waste land development	ha	781	410	536	-136	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-I Block – Una District –Junagadh (Gujarat)

1. The anticipated increase in ground water table has been not achieved i.e. -1.00 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1, 3, 6 & 7 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like field bund, farm pond and cause way cum check dam, (Refer items 2, 4 & 8 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (1920 ha against target of 1813 ha) and remained short by 107 ha i.e. 5.57% (Refer Item 4 table 2) due to 33.70% less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 6.31 % short than the target (achieved 1456 ha against target of 1554 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 5% (achieved 195 % against target of 200 %) – Refer item 11, table 2.
4. The progress of both these items remained short due to lack of harvested rain water quantity. However, the productivity of Groundnut, Cotton, Millet, Wheat, and onion crops has been more than the target due to adoption of HYV/hybrid seed, use of short duration crops variety, Dry land crop technology, use of soil moisture conservation practices and efficient use of limited water.
5. Only 71.10 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of irrigation water for horticulture crop. During the field visit, team observed that the farmers were not receiving the remunerative price of horticulture produce.
6. 79.48 % expected targets of SHG formation has been achieved to implement the livelihood action plan to increase their income.
7. The household income increased over the expected post-project income of Rs 65500/Annum by 7.20 % i.e. Rs 4700/- mainly due to increase in crop productivity, price of agriculture produces, wage rate, income from allied occupation and adoption of livelihood programme in the project area.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities.



WAPCOS TEAM DISUCSSING WITH SHG IN IWMP-I JUNAGADH



WAPCOS TEAM VISIT PASTURE DEVELOPMENT WORK IN IWMP-I JUNAGADH

Name of Project-	IWMP-VI
Block-	Junagadh
District-	Junagadh
State-	Gujarat

Table 1: Activity wise Physical Target and Achievements of IWMP- VI Block- Junagadh District –Junagadh (Gujarat)

Sanctioned Amount- 589.92 Lakh

Expenditure- 327.88Lakh

Expenditure % -55.58

Total project Area- 4916.10 ha

Year of Sanction-2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Waste weir	No.	103	56	54.37	Some Farmers not turned up during execution
2	Field bund	Rmt	73683	73683	100	Target achieved
3	Pacca Plug	No.	15	2	13.30	Lack of fund
4	Land Leveling	Ha	1878	24	1.28	Farmers were not interested in this activity.
5	Open wells	No.	129	0	0	Lack of fund
6	Percolation Tank	No.	28	20	71.43	Some Farmers not turned up during execution
7	Cause way Open wells	No.	7	0	0	Lack of fund
9	Checks & plugs	No.	48	20	41.67	Farmers were not interested in this activity.
10	Stone wall	Rmt	245	170	69.40	Lack of fund
11	Causeway cum check dam	No.	17	17	100	Target achieved
12	Check dam	No.	8	8	100	Target achieved
13	Pasture Development	Ha	9.5	3	31.57	Only three ha. land provided by the Gram Sabah for pasture development
14	Pond	No.	6	2	33.30	Lack of fund
B	Production Activities					
1	Sprinkler	Ha..	22	17	77.27	Lack of fund
2	Animal Health Camp	No.	10	7	70	Organized with the coordination of Department of A.H
3	Cattle shed	No.	25	13	52	Some Farmers were not interested in this activity.
4	Vermi Compost	No.	6	3	50	Other Farmers not turned up during execution

5	Farm fencing	Rmt	145800	15151	10.40	Lack of fund
6	Crop Demo	Ha	45	45	100	Organized with the coordination of Department of agriculture
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	15	8	53.30	Some Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	35	24	68.57	The Some group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in Aids to Federation SHG for their livelihood plan.	No	2	0	0	No any Groups was fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Waste weir, pacca Plug , Land Leveling, Percolation Tank , Checks & plugs, Stone wall, Pasture Development and Farm Pond Were achieved to the extent of 54.37,13.30,1.28,71.43,41.67,69.40,31.57and 33.30 % respectively.
2. Work of Open wells and Causeway open well has remained unattended.
3. The target of Field bund, Causeway cum check dam and Check dam work was achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B Production Activities

1. Out of 6 production activities target of all 6 activities namely Sprinkler , Animal Health Camp, Cattle shed ,Vermi Compost, farm fencing and Crop Demonstration was 77.27,70,52,50,10.40 and 100% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, some villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture .

C Livelihood system

1. The revolving fund granted for livelihood action plan to 53.30% of SHG, 68.57 % to individual SHG against the target. The no any fund was granted to SHG federation in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 65% of SHG has been working properly and repaying the loan in time. Only 35% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan. The earning of SHG members from livelihood activity was Rs.15000 to 20000 per annum.

Table 2: Indicator wise impact of sample IWMP- VI Block- Junagadh District –Junagadh (Gujarat)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	8-12	6 -10	6.8 - 10	- 0.80	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures (dug wells, tube wells, hand pumps) repaired/rejuvenated	No.	0	0	0	0	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	11042	1483	1376	-107	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	2596	3053	2859	-194	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and waste land development
5	Crop productivity						
6	Groundnut	Kg/ha	1820	2100	2135	35	Increase in productivity due to adoption of
	Cotton	Kg/ha	970	1280			
	Wheat	Kg/ha	1800	2250			

	Gram	Kg/ha	650	900				HYV/Hybrid seed of crop variety, advance crop technology and adoption of dry land cultivation practices.
7	Area under horticulture	ha	28	36	13	-23		Farmers are not interested due to lack of irrigation water in summer and marketing problem
8	SHG formation for livelihood activity	No.	7	45	32	-13		maximum groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	35300	60500	64000	3500		Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration	No.	428	222	150	72		Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under MNAREGA and adoption of livelihood activities.
11	Cropping intensity	%	150	200	175	-25		The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation.
12	Waste land development	ha	781	460	584	-124		Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP- VI Block- Junagadh District –Junagadh (Gujarat)

1. The anticipate increase in ground water table has been not achieved i.e. -0.80 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 3, 5, 9&14 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like field bund, Causeway cum check dam and check dam, (Refer items 2, 11&12 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (2859 ha against target of 3053 ha) and remained short by 194 ha i.e. 6.35% (Refer Item 4 table 2) due to 36.95% less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 7.21 % short than the target (achieved 1376 ha against target of 1483 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 25 % (achieved 175 % against target of 200 %) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity.
5. However, the productivity of Groundnut, Cotton, Wheat and Gram crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology and judicious use of limited irrigation water.
6. Only 36.10 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of water for irrigation of horticulture crop.. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
7. 71.10 % expected targets of SHG formation has been achieved to implement the livelihood action plan to increase their income.
8. The household income increased over the expected post-project income of Rs 60500/Annum by 5.78 % i.e. Rs 3500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate, income from allied occupations and adoption of livelihood programme in the project area.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities.



WAPCOS TEAM VISITED FIELD WIRE FENCING WORK IN IWMP-VI JUNAGADH



WAPCOS TEAM VISITED CAUSE WAY CUM CHECK DAM WORK IN IWMP-VI JUNAGADH

Name of Project-	IWMP-VII
Block-	Una
District-	Junagadh
State-	Gujarat

Table 1: Activity wise Physical Target and Achievements of IWMP-VII Block-Una District – Junagadh (Gujarat)

Sanctioned Amount- 647.06 Lakh
 Expenditure % -33.66
 Year of Sanction-2010-11

Expenditure- 217.86 Lakh
 Total project Area- 5476 ha

S.No	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Drainage line	Rmt.	24100	5400	22.40	some Farmers not turned up during execution
2	Farm pond	No.	45	30	66.70	Lack of fund
3	Percolation well	No.	8	3	37.50	Farmers were not interested in this
4	Nalla Plug	Ha	7	7	100	Target achieved
5	Renovation of (pond)Structures'	No.	10	0	0	Lack of fund
6	Percolation Tank	No.	40	25	62.50	Maximum Farmers not turned up during execution
7	Pond deepening	No.	12	12	100	Target achieved
8	Check dam	No.	12	5	41.67	Maximum Farmers not turned up during execution
9	Recharge filter with bore well	No	40	22	55	Lack of fund
10	Pasture Development	Ha	6.5	0	0	No land provided by the Gram Sabha for pasture development
11	Pond	No	45	32	71.10	Lack of fund
12	Land Leveling	Ha	10	2.5	25	Farmers were not interested in this activity.
B	Production Activities					
1	Drip Irrigation	Ha.	14	0	0	Lack of fund
2	Farm Fencing	Rmt	24650	8000	32.45	Lack of fund
3	Sprinkler (set)	No.	891	227	25.47	Maximum Farmers not turned up during execution
4	Animal Health Camp	No.	5	5	100	Organized with the coordination of Department of A.H
5	Vermi Compost	No.	7	2	28.60	Farmer were not interested in this activity.

6	Crop demonstration	No	28	30	107	Organized with the coordination of Department of agriculture
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	13	9	69.20	Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	23	20	87	The some group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in Aids to Federation SHG for their livelihood plan.	No	2	0	0	No any Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Drainage line, Farm pond , Percolation well , Percolation Tank, check dam, Recharge filter with bore well, Pond and Land Leveling Were achieved to the extent of 22.4,66.70,37.50,62.50,41.67,55,71.10 and 25 % respectively.
2. Work of Renovation of (pond)Structures and Pasture Development has remained unattended
3. The target of Gully Plug, Pond deepening and Pond deepening work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities only target of 5 activities namely Farm Fencing, Sprinkler (set), Animal Health Camp, Vermi Compost, and Crop demonstration was 32.45, 25.47,100,28 and 107% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture . The target of Drip Irrigation has remained unattended.

C. Livelihood system

- 1- The revolving fund granted for livelihood action plan to 69.20% of SHG, 87 % to individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target.
- 2- Expert team met the members of SHG groups during the visit. The 76% of SHG has been working properly and repaying the loan in time. Only 24% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan. The earning of SHG members from livelihood activity was Rs.12000 to18000 per annum.

Table 2: Indicator wise impact of sample IWMP-VII Block-Block- Una District –Junagadh (Gujarat)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	13-15	10-12	10.6-15	-0.60	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures (dug wells, tube wells& hand pumps) repaired/rejuvenated	No.	0	10	0	0	Target was not achieved due to lack of fund.
3	Change in irrigated area	ha	1897	2245	2093	-152	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	3587.20	3935	3794	-143	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and waste land development
5	Crop productivity						
6	Groundnut	Kg/ha	1200	1700	1780	80	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology, judicious use of irrigation water and adoption of dry land cultivation practices.
	cotton	Kg/ha	1020	1350	1375	25	
	Wheat	Kg/ha	2500	3000	3110	110	
7	Area under horticulture	ha	32.75	46.50	38.50	-8	Farmers are not interested due to lack of irrigation water in summer and

							marketing problem
8	SHG formation for livelihood activity	No.	21	50	38	-12	maximum groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	42000	67000	70000	3000	Income of Household increase due to increase in crop yield and price of crop produce, wage rate, Allied activities and adoption of livelihood activities.
10	Migration	No.	221	50	65	-15	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP and adoption of livelihood activities.
11	Cropping intensity	%	162	200	190	-10	The target of cropping intensity was not achieved because of non-inclusion of short duration crop in crop rotation and lack of irrigation water.
12	Waste land development	ha	210	102	145	-43	Target not achieved due to lack of funds

Impact Evaluation Summary of -VII Block-Block- Una District –Junagadh (Gujarat)

1. The anticipate increase in ground water table has been not achieved i.e. -0.60 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2, 8&11 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Nala Plug, Pond deepening and land leveling (Refer items 4, 7&12 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (3794 ha against target of 3935 ha) and remained short by 143 ha i.e. 3.63% (Refer Item 4 table 2) due to 42.15 % less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 6.77 % short than the target (achieved 2093 ha against target of 2245 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10 % (achieved 190 % against target of 200 %) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity.
5. However, the productivity of Groundnut, Cotton and Wheat crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology, judicious use of limited irrigation water, and use of soil moisture conservation practices.
6. 82.79 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of irrigation water for horticulture crop. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
7. 76 % expected target of SHG formation has been achieved to implement the livelihood action plan to increase their income.
8. The household income increased over the expected post-project income of Rs 67000/Annum by 4.48 % i.e. Rs3000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate, income of allied activities and adoption of livelihood programme in the project area.
9. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities



WAPCOS TEAM DISCUSSING WITH SHG IN IWMP-VII JUNAGADH



WAPCOS TEAM VISIT CHECK DAM IN IWMP-VII JUNAGADH

Name of Project-	IWMP-VIII
Block-	Junagadh
District-	Junagadh
State-	Gujarat

Table 1: Activity wise Physical Target and Achievements of IWMP-VIII Block- Junagadh District –Junagadh (Gujarat)

Sanctioned Amount- 603.2 Lakh

Expenditure- 210.30 Lakh

Expenditure % -34.86

Total project Area-5102.90ha

Year of Sanction-2010-11

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy.	Phy.	
A	Natural Resource Management					
1	Field bunding	Rmt	10612	10612	100	Target achieved
2	Land leveling	Ha.	138.59	0	0	Farmers was not interested in this activity
3	Percolation Wall	No.	5	0	0	Lack of fund
4	Percolation Tank	No.	42	26	61.90	Lack of fund
5	Causeway cum check dam	No.	27	15	55.56	Maximum Farmers not turned up during execution
6	Check & Plugs	No.	35	22	62.86	Lack of fund
7	Check dam	No.	12	12	100	Target achieved
8	Repairing of old structure	No	10	6	60	some Farmers not turned up during execution
9	Pasture Development	Ha	27	5	18.51	Only 5 ha. land provided by the Gram Sabah for pasture development
B	Production Activities					
1	Drip Irrigation	Ha.	35	7	20	Maximum Farmers not turned up during execution
2	Sprinkler(set)	No.	874	480	54.91	Lack of fund
3	Animal Health Camp	No.	9	5	55.56	Lack of coordination with Animal husbandry department
4	Vermi Compost	No.	8	3	37.50	Farmers was not interested in this activity
5	Crop demonstration	No.	30	30	100	Organized with the coordination of Department of agriculture

C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	12	10	83.30	Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	26	24	92.30	The some group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in Aids to Federation SHG for their livelihood plan.	No	1	0	0	No one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

- 1- The target of Percolation Tank, Causeway cum check dam, Check & Plugs, Repairing of old structure and Pasture Development were achieved to the extent of 61.90, 55.56, 62.86,60 and 18.51 % respectively.
- 2- Work of constriction of Land leveling and Percolation Wall has remained unattended
- 3- The target of check dam construction and Field bundwork were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

- 1- Out of 5 production activities target of all 5 activities namely Drip Irrigation, Sprinkler (set), Animal Health Camp, Vermi Compost and Crop demonstration was 20, 54.91, 55.56, 37.50and 100% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 83.30% of SHG, 92.30 % to individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 70% of SHG has been working properly and repaying the loan in time. Only 30% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan. The earning of SHG members from livelihood activity was Rs.10000 to20000 per annum

Table 2: Indicator wise impact of sample IWMP-VIII Block- Junagadh District –Junagadh (Gujarat)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	8-12	6-10	7-10	-1.00	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	0	10	6	-4	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	1463	1723	1625	-98	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	3003	3430	3314	-116	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and waste land development
5	Crop productivity						
6	Groundnut	Kg/ha	1450	1720	1803	83	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology and adoption of dry land cultivation practices.
	gram	Kg/ha.	680	900	940	40	
	Wheat	Kg/ha	2630	3200	3295	95	
7	Area under horticulture	ha	15	30	21	-9	Farmers are not interested for increasing area under horticulture crop due to lack of irrigation water in summer and marketing problem

8	SHG formation for Livelihood activity	No.	14	40	34	-6	maximum groups were not fulfill the pre-requisite for SHG formation
	Income	Rs.	85300	105000	108000	3000	Income of Household increase due to increase in crop yield and price of crop produce, wage rate , income from allied sectors and adoption of livelihood activities.
10	Migration	No.	354	175	130	45	Outcome of reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under in IWMP structure and adoption of livelihood activities.
11	Cropping intensity	%	185	215	200	-15	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation.& lack of irrigation water.
12	Waste land development	ha	516	215	340	-125	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-VIII Block- Junagadh District –Junagadh (Gujarat)

- 1- The anticipate increase in ground water table has been not achieved i.e. -1.00 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2, 3&6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like field bund, percolation tank and check dam (Refer items 1,4&7 of NRM activity table 1).
- 2- The “Area Under Agriculture Crop” did not increase as expected (3314 ha against target of 3430 ha) and remained short by 116 ha i.e. 3.40% (Refer Item 4 table 2) due to 58.14% less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
- 3- The increase in irrigated area after implementation of the watershed structure remained 5.68 % short than the target (achieved 1625 ha against target of 1723 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 15 % (achieved 215 % against target of 200 %) – Refer item 11, table 2.
- 4- The progress of both these items remained short due lack of harvested rain water quantity.
- 5- However, the productivity of Groundnut, Wheat and Gram crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology, and judicious use of irrigation water and use of soil moisture conservation practices.
- 6- Only 70 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and irrigation water for horticulture crop. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
- 7- 85 % expected target of SHG formation has been achieved to implement the livelihood action plan to increase their income.
- 8- The household income increased over the expected post-project income of Rs 105000/Annum by 2.86 % i.e. Rs 3000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate ,income of allied activities and adoption of livelihood programme in the project area.
- 9- Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities



WAPCOS TEAM DISCUSSING WITH SHG IN IWMP-VIII JUNAGADH



WAPCOS TEAM VISIT CHECK DAM IN IWMP-VIII JUNAGADH

Name of Project-	IWMP-IV
Block-	Dhandhuka
District-	Ahmedabad
State-	Gujarat

Table 1: Activity wise Physical Target and Achievements of IWMP-IV Block-Dhandhuka**District –Ahmadabad (Gujarat)**

Sanctioned Amount- 405.96 Lakh

Expenditure- 259.23 Lakh

Expenditure % -63.85

Total project Area- 8040 ha

Year of Sanction-2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Farm Waste weir	No.	70	43	61.40	Farmers not turned up during execution due to share money
2	Field bund	Rmt	157060	157060	100	Target achieved
3	New Pond Stone Pitching	No.	5	2	40	Lack of fund
4	Farm Pond	No.	30	16	53.30	Problem of owner ship of land
5	Percolation Tank	No.	5	0	0	Lack of fund
7	Check dam	No.	25	5	20	Lack of fund
8	Cause way cum check dam	No.	33	13	39.40	Problem of owner ship of land and small holding.
9	Bore well	No.	33	0	0	Lack of fund
10	Open well Recharge Repair	No.	9	0	0	Farmers not turned up during execution due to share money
11	Water Harvesting Structure (Old rejuvenated)	No.	4	4	100	Target achieved
12	Pasture Development	Ha	12.5	5	40	Only5 ha land provided by the Gram Sabha for pasture development
B	Production Activities					
1	Vermin compost	No.	76	51	67.10	Farmers not turned up during execution because of religion
2	Drip irrigation	ha	16	12	75	Lack of fund

3	beekeeping	No.	10	5	50	Farmers not turned up during execution due to religion
4	Crop demonstration	No	75	75	100	Target achieved
5	Horticulture nursery	No	10	5	50	Farmers not turned up during execution.
6	Cattle Camp	No	25	16	64	Organized with coordination of department of A.H
7	Mineral mixture distribution	No	15	0	0	Farmers were not interested in this activity
8	Chaff cutter distribution	No	250	134	53.60	Farmers not turned up during execution due to share money
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	8	5	62.50	Some Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	29	21	72.41	The other group not fulfill the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of farm Waste weir , New Pond Stone Pitching, Farm Pond, Check dam , Cause way cum check dam and Pasture Development Were achieved to the extent of 61.40,40,53.30,20,39.40 and 40% respectively .
2. Work of Percolation Tank, Bore well construction and Open well Recharge Repair has remained unattended
3. The target of Field bund and Water Harvesting Structure (Old rejuvenated) work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

- 1- Out of 8 production activities target of all 7 activities namely Vermin Compost, Drip Irrigation, beekeeping, Crop demonstration, horticulture nursery, Animal Health Camp, and chaff cutter distribution was 67.10,75,50,100,50,64 and 53.60% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture .The target of Mineral mixture distribution has remained unattended.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 62.50% of SHG, 72.40 % to individual SHG against the target. The main enterprises of SHG were pesticide presser pump, bakery, floor mill, tailoring, black smith work, agro-centre, etc
2. Expert team met the members of SHG groups during the visit. The 70% of SHG has been working properly and repaying the loan in time. Only 30% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP-IV Block- Dhandhuka
District –Ahmadabad (Gujarat)**

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	4	2	2.70	0.70	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area.(actual status of water table drawn from data received from farmers at the time
2	Ground water structures (dug wells, tube wells hand pumps) repaired/rejuvenated	No.	0	13	0	0	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	3136	3500	3360	-140	Expected post project outcome not achieved because the harvested rain water was lessin quantity.
4	Area under agriculture crop	ha	4749	5841	5506	-335	Outcome of the area in the agriculture crop not achieved due to lack of irrigationwater and wasteland

							development
5	Crop productivity						
6	Pearl millet	Kg/ha	1600	2000	2075	75	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology and adoption of dry land cultivation practices.
	Cotton	Kg/ha	1155	1480	1535	55	
	Wheat	Kg/ha	2650	3100	3210	110	
	Gram	Kg/ha	1210	1320	1410	90	
	cumin	Kg/ha	600	980	1000	20	
7	Area under horticulture	ha	0	55	31	-24	Farmers are not interested due to lack of irrigation water in summer and marketing problem
8	SHG formation for livelihood activity	No.	22	30	17	-13	maximum groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	54200	75000	78000	3000	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration(persons)	No.	548	263	284	-21	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP and adoption of livelihood activities.
11	Cropping intensity	%	100	150	135	-15	The outcome of cropping intensity was not achieved because of non-inclusion of short duration crop in crop rotation.
12	Waste land development	ha	685	301	426	-125	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-IV Block- Dhandhuka District –Ahmadabad (Gujarat)

1. The anticipate increase in ground water table has been not achieved i.e. -0.70 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1, 3, 4&7 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like field bund and WHS (rejuvenation), (Refer items 2&11 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 5506 ha against target of 5841 ha) and remained short by 335 ha i.e. 5.73% (Refer Item 4 table 2) due to 41.53% less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 4.00 % short than the target (achieved 3360 ha against target of 3500 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 15% (achieved 135 % against target of 150 %) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of pearl millet, Cotton, Wheat, Cumin and Gram crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology, use of soil moisture conservation practices and judicious use of limited irrigation water. Only 53.36 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of irrigation water for horticulture crop. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
5. 56.70 % expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase their income.
6. The household income increased over the expected post-project income of Rs 75000/Annum by 4.00 % i.e. Rs 3000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The share in income contribution of agriculture, dairy, labor and other occupation were 60.20, 25.80, 12.30 and 1.70 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities.



WAPCOS TEAM VISIT CHECK DAM IN IWMP-IV AHMEDABAD



WAPCOS TEAM INTERACTING WITH THE UGS IN FIELD

Name of Project-

IWMP-V

Block-

Mandal

District-

Ahmedabad

State-

Gujarat

**Table 1: Activity wise Physical Target and Achievements of IWMP- V Block- Mandal
District –Ahmadabad (Gujarat)**

Sanctioned Amount- 243.60 Lakh

Expenditure- 153.54 Lakh

Expenditure % -63.02

Total project Area- 3604ha

Year of Sanction-2009-10

S.No.	Activity	Unit	Target as per DPR	Achiev ement	% achiev ement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	pond	No.	27	8	29.62	Farmers not turned up during execution due to small holding
2	Field bund	Rmt	15475	15475	100	Target achieved
3	Recharge bore well	No.	27	0	0	Farmers were not interested in this activity.
4	Percolation Tank	No.	45	31	68.90	Lack of fund
5	Nallah Bund	No.	22	12	54.50	Farmers not turned up during execution due to share money
6	Causeway cum check dam	No.	2	0	0	Farmers were not interested in this activity.
7	Check dam	No.	15	15	100	Target achieved
8	Pasture Development	Ha	22	0	0	No land provided by the Gram Sabha for pasture development
9	Repairing of water harvesting structure	No.	10	4	40	Lack of fund
B	Production Activities					
1	Sprinkler(set)	No.	35	23	65.71	Some Farmers not turned up during execution(small land holding)
2	Animal Health Camp	No.	10	6	60	Lack of fund
3	nursery	No.	14	9	64.28	Some Farmers were not interested in this activity due to lack of plant sale.
4	Vermi Compost	No.	16	0	0	Lack of fund
5	Chaff cutter	No	32	20	62.50	Farmers was not interested in this activity
6	Vegetable seed(kit)	No.	50	50	100	Target achieved.
7	Crop demonstration	No.	70	70	100	Target achieved.

C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	16	11	68.75	Some Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	30	24	80	The Some group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in Aids to Federation SHG for their livelihood plan.	No	1	0	0	No single Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of pond, Percolation Tank, Nallah Bund, and Repairing of water harvesting structure were achieved to the extent of 29.61, 68.90, 54.50 and 40 % respectively.
2. Work of Recharge bore well, Causeway cum check dam and Pasture Development has remained unattended.
3. The target of Field bund and Check dam, work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 7 production activities only target of 6 activities namely Sprinkler, Animal Health Camp, nursery, Chaff cutter, Vegetable seed(kit)and crop demonstration Drip Irrigation was 65.71,60,64.28,62.50,100and 100% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture . The target of vermin compost has remained unattended.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 68.75% of SHG, 80 % to individual SHG against the target. The no any fund was granted to SHG federation in the project against the target. The main enterprises of SHG were, bakery, floor mill, tailoring, black smith work, mason work, agro-centre, etc.
2. Expert team met the members of SHG groups during the visit. The 72.5% of SHG has been working properly and repaying the loan in time. Only 27.50% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP- V Block- Mandal District –Ahmadabad (Gujarat)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	15-17	10-12	12-15	-2.00	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area.(actual status of water table drawn from data received from farmers at the time expert visit)
2	Ground water structures (dug wells, tube wells, hand pumps) repaired/rejuvenated	No.	0	10	4	-6	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	1050	1450	1368	-82	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	2896	3165	3084	-81	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and waste land development
5	Crop productivity						
6	Castor	Kg/ha	2000	2200	2270	70	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology and adoption of dry land cultivation practices.
	Cotton	Kg/ha	1000	1200	1245	45	
	Wheat	Kg/ha	2850	3000	3105	105	
	Cumin	Kg/ha	570	610	650	40	
	Mustard	Kg/ha	785	1000	1090	90	
7	Area under horticulture	ha	60	168	103	65	Farmers are not interested due to lack of irrigation water in summer and marketing

							problem
8	SHG formation for livelihood activity	No.	18	40	28	-12	maximum groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	53500	70000	74500	4500	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration	No.	101	38	40	-2	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP and adoption of livelihood activities.
11	Cropping intensity	%	115	180	150	-30	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation.
12	Waste land development	ha	540	235	346	-111	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP- V Block- Mandal District –Ahmadabad (Gujarat)

1. The anticipate increase in ground water table has been not achieved i.e. -2.00 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1, 3&6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like field bund and check dam (Refer items 2 &7 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 3084ha against target of 3165 ha) and remained short by 81 ha i.e. 2.56% (Refer Item 4 table 2) due to 47.23% less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 5.65 % short than the target (achieved 1450 ha against target of 1368 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 30 % (achieved 150 % against target of 180 %) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Cotton, castor, Wheat, Cumin and mustard crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology and use of soil moisture conservation practices.
5. Only 61.30 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of irrigation water for horticulture crop. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce. The 70 % expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase their income.
6. The household income increased over the expected post-project income of Rs 70000/Annum by 6.43 % i.e. Rs 4500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The share in income contribution of agriculture, dairy, labor and other occupation were 67.20, 29.80, 2.30 and 0.70 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities.



WAPCOS TEAM INTERACTING WITH UGs IN IWMP-V AHMEDABAD

Name of Project-

IWMP-VII

Block-

Mandal

District-

Ahmadabad

State-

Gujarat

Table 1: Activity wise Physical Target and Achievements of IWMP- VII Block- Mandal District – Ahmadabad (Gujarat)

Sanctioned Amount- 615.29 Lakh
 Expenditure % - 66.19
 Year of Sanction-2010-11

Expenditure- 407.30 Lakh
 Total project Area- 5127 ha

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Trench	Rmt.	55430	11600	20.92	some Farmers not turned up during execution due joint land record
2	Field Bunds	Rmt.	87540	87540	100	Target achieved
3	Checks & Plugs	No.	15	6	46.67	Lack of fund
4	Gabion structure	No.	12	7	58.30	Lack of fund
5	Farm ponds	No.	19	19	100	Target achieved
6	Check dams	No.	34	20	58.82	Farmers not turned up during execution due to share money
7	Nalah Bunds	No.	10	0	0	Lack of fund
8	Percolation tanks / Ground water recharge structure	No.	49	35	71.42	Maximum Farmers not turned up during execution
9	Open well/ Bore well Repairing	No	178	0	0	Lack of fund
10	Pasture Development	Ha	5	0	0	No land provided by the Gram Sabha for pasture development for pasture development
B	Production Activities					
1	Drip	Ha	180	110	61.10	Lack of fund
2	Crop Demo (0.2ha. Each)	No,	50	50	100	Target achieved
3	Cattle camp	No.	20	9	45	Organized with coordination of department of A.H
4	Vermi compost	No.	15	9	60	Lack of fund

5	Sprinkler	No.	31	0	0	Farmers not turned up during execution due to share money
6	Chaff cutter	No.	12	10	83.30	Lack of fund
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	12	6	50	Many Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	31	24	77.42	The some group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in Aids to Federation SHG for their livelihood plan.	No	1	0	0	No one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Trench , Checks & Plugs, Gabion structure, Check dams and Percolation tanks / Ground water recharge structure Were achieved to the extent of 20.92,46.67,58.30,58.82and 71.42% respectively.
2. Work of Nalah Bunds, Open well/ Bore well Repairing and Pasture Development has remained unattended
3. The target of Field Bunds and Farm ponds work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

- 1- Out of 6 production activities only target of 5 activities namely drip irrigation system, crop demonstration, Animal Health Camp, vermin compost and chaff cutter was 61.10,100,45,60 and 83.30 % achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture . The target of Sprinkler has remained unattended.

C. Livelihood system

- 1- The revolving fund granted for livelihood action plan to 50% of SHG, 77.42 % to individual SHG against the target. No fund was granted to SHG federation since; no such group was

formed in the project against the target. The main enterprises of SHG were marigold farming, pesticide presser pump, bakery, floor mill, tailoring, agro-centre, etc

- 2- Expert team met the members of SHG groups during the visit. The 70% of SHG has been working properly and repaying the loan in time. Only 30% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP- VII Block- Mandal District –Ahmadabad (Gujarat)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	15-17	13-15	13.6-15	0.60	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area.(actual status of water table drawn from data received from farmers at the time expert visit)
2	Ground water structures (dug wells, tube wells& hand pumps) repaired/ rejuvenated	No.	0	178	0	0	Target was not achieved due to lack of fund.
3	Change in irrigated area	ha	1976	2350	2245	-105	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	2950	3575	3368	-207	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and waste land development
5	Crop productivity						
6	Cotton	Kg/ha	1100	1200	1290	90	Increase in productivity

	Castor	Kg/ha	1987	2100	2140	40	due to adoption of HYV/Hybrid seed of crop variety, advance crop technology and adoption of dry land cultivation practices.
	Wheat	Kg/ha	2520	2740	2900	160	
	Cumin	Kg/ha	560	700	730	30	
	Mustard	Kg/ha	815	1000	1100	100	
7	Area under horticulture	ha	0	22	12	-10	Farmers are not interested due to lack of irrigation water in summer and marketing problem
8	SHG formation for livelihood activity	No.	33	44	30	68.20	maximum groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	80700	100000	104200	4200	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration	No.	190	64	78	-14	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP and adoption of livelihood activities.
11	Cropping intensity	%	135	170	160	-10	The outcome of cropping intensity was not achieved because of non-inclusion of short duration crop in crop rotation.
12	Waste land development	ha	171	105	135	-30	Target not achieved due to lack of funds

Impact Evaluation Summary of -IWMP- VII Block- Mandal District –Ahmadabad (Gujarat)

1. The anticipate increase in ground water table has been not achieved i.e. -0.60 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1, 3, 6&7 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like field bund, farm pond and percolation tank (Refer items 2, 5 &8 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 3368 ha against target of 3575 ha) and remained short by 207 ha i.e. 5.80 % (Refer Item 4 table 2) due to 28.75% less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 4.46 % short than the target (achieved 2245 ha against target of 2350 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10 % (achieved 160 % against target of 170 %) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Cotton, castor, Wheat, Cumin and mustard crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology, soil moisture conservation practices and judicious use of limited irrigation water.
5. Only 54.55 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of irrigation water for horticulture crop. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
6. 68.20 % expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase their income.
7. The household income increased over the expected post-project income of Rs 100000/Annum by 4.20 % i.e. Rs 4200/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The share in income contribution of agriculture, dairy, labour and other occupation were 44.10, 29.34, 24.60 and 1.96 % respectively
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities



WAPCOS TEAM VISIT CHECK DAM IN IWMP-VII IN AHMEDABAD



WAPCOS TEAM INTERACTING WITH THE UGS IN IWMP-VII IN AHMEDABAD

Name of Project-

IWMP-IX

Block-

Dhandhuka

District-

Ahmadabad

State-

Gujarat

Table 1: Activity wise Physical Target and Achievements of IWMP-IX Block- Dhandhuka District – Ahmadabad (Gujarat)

Sanctioned Amount- 689.63 Lakh

Expenditure- 353.10 Lakh

Expenditure % -51.20

Total project Area- 5985 ha

Year of Sanction-2010-11

S.No	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Field bund	Rmt.	175000	175000	100	Target achieved
2	Diversion canal deepening	Rmt.	1800	500	27.70	Lack of fund
3	Land leveling	Ha.	480	336	70	Farmers not turned up during execution due to share money
4	Ponds	No.	10	10	100	Lack of fund
7	Causeway cum check dam	No.	24	17	70.80	Lack of fund
8	Pipe culvert, inlet cum cross wall/pond inlet	No.	5	5	100	Target achieved
9	Protection wall	No	15	7	46.67	Lack of fund
10	Pasture Development	Ha	15	2	13.30	Only 2ha. land provided by the Gram Sabha for pasture development
11	farm west weir	No	54	36	66.67	Lack of fund
12	Repairing of farm pond	No	3	0	0	Lack of fund
13	Open wells Recharge repair	No	7	0	0	Lack of fund
B	Production Activities					
1	Drip	Ha	37.5	0	0	Lack of fund
2	Crop Demo	Ha	73	75	102.7	Target achieved
3	Oil Engine	No	27	19	70.40	Lack of fund
4	Kitchen Garden kit	No	200	200	100	Target achieved
5	Gypsum Treatment	Ha	280	200	71.43	Lack of fund
6	Seed Drill	No.	5	3	60	Lack of fund

7	Cultivator	No.	10	5	50	Lack of fund
8	Cattle camp	No.	22	16	72.70	Organized with coordination of department of A.H
9	Mineral mixture	No.	25	10	40	Maximum Farmers not turned up during execution
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	13	8	61.54	Many Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	28	20	71.42	The some group not fulfill the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Diversion canal deepening, Land leveling, Causeway cum check dam, Protection wall, Pasture Development and Waste weir were achieved to the extent of 27.70,70, 70.80, 46.67, 13.30 and 66.67% respectively.
2. Work of Repairing of farm pond and Open wells Recharge repair has remained unattended
3. The target of Field bund, farm pond and Pipe culvert, inlet cum cross wall/pond inlet work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

- 1- Out of 9 production activities only target of 8 activities namely Crop Demonstration, Oil Engine, Kitchen Garden kit, Gypsum Treatment, Seed Drill, Cultivator ,Animal Health Camp, and Mineral mixture was 102.7,70.40,100,71.43,60,50,72.70 and 40% achieved respectively. The main reason for not achieving the target were lack of staff, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture . The target of Drip Irrigation has remained unattended.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 61.54% of SHG, 71.42 % to individual SHG against the target. The main enterprises of SHG were bakery, floor mill, tailoring, black smith work, mason work, agro-centre, etc
2. Expert team met the members of SHG groups during the visit. The 68.50% of SHG has been working properly and repaying the loan in time. Only 31.50% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-IX Block- Dhandhuka District –Ahmadabad (Gujarat)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	5-6	3-4	3.2-40	0.20	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area.(actual status of water table drawn from data received from farmers at the time expert visit)
2	Ground water structures (dug wells, tube wells& hand pumps) repaired/rejuvenated	No.	0	10	0	-10	Target was not achieved due to lack of fund.
3	Change in irrigated area	ha	755	1100	963	-137	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	4387	4859	4692	-167	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and waste land development
5	Crop productivity						
6	Cotton	Kg/ha	1350	1700	1735	35	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology, efficient use of irrigation water and adoption of dry land
	Pearl millet	Kg/ha	1500	1800	1860	60	
	Wheat	Kg/ha	1400	2000	2100	100	
	Gram	Kg/ha	850	1250	1300	50	
	cumin	Kg/ha	800	1100	1145	45	

							cultivation practices.
7	Area under horticulture	ha	0	22	15	-7	Farmers are not interested due to lack of irrigation water in summer and marketing problem of horticulture crop produce.
8	SHG formation for livelihood activity	No.	2	41	28	-13	maximum groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	35650	65000	70200	5200	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration	No.	559	220	260	-40	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP and adoption of livelihood activities.
11	Cropping intensity	%	115	150	145	-5	The outcome of cropping intensity was not achieved because of non-inclusion of short duration crop in crop rotation and lack of irrigation water.
12	Waste land development	ha	662	320	447	-127	Target not achieved due to lack of funds

**Impact Evaluation Summary of -IWMP-IX Block- Dhandhuka District –Ahmadabad
(Gujarat)**

1. The anticipate increase in ground water table has been not achieved i.e. -0.20 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 7, 9, 11&12 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like field bund, pond and Pond inlet (Refer items 1, 4&8 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 4692 ha against target of 4859 ha) and remained short by 167 ha i.e. 3.43% (Refer Item 4 table 2) due to 39.68% less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 12.45 % short than the target (achieved 963 ha against target of 1100 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 5 % (achieved 145 % against target of 150 %) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity.
5. However, the productivity of Cotton, pearl millet, Wheat, Cumin and gram crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology, soil moisture conservation practices and judicious use of limited irrigation water.
6. Only 68.20 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of irrigation water for horticulture crop. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
7. 68.30 % expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase their income.
8. The household income increased over the expected post-project income of Rs 65000/Annum by 8.00 % i.e. Rs 5200/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The share in income contribution of agriculture, labour and other occupation were 66.21, 2.37 and 31.42 % respectively.
9. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities

Name of Project-	IWMP-I
Block-	Vad
District-	Surat
State-	Gujarat

Table 1: Activity wise Physical Target and Achievements of IWMP-I Block-Vad**District – Surat (Gujarat)**

Sanctioned Amount- 600 Lakh

Expenditure- 458.62 Lakh

Expenditure % -76.43

Total project area- 6770 ha

Year of Sanction-2009-10

S.No	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Gully Plug	No.	193	178	92.23	Few Farmers are not interested
2	Gabion Structure	No.	224	224	100.00	Target achieved
3	Pacca Nala Plug	No.	152	152	100	Target achieved
4	Check Wall	Rmt	60	60	100	Target achieved
5	Check Dam	No.	9	9	100	Target achieved
6	Waste weir	No.	9	6	66.67	Farmers are not interested
7	Land Leveling	Ha.	78	6	7.69	Farmers not turned up during execution
8	Pond	No.	15	6	40.00	Due to lack of fund
9	Percolation Tank	No.	25	6	24.00	Due to lack of fund
10	Trench	Rmt	8000	0	0.00	Farmers not turned up during execution
11	Renovation of pond	No.	6	3	50	Due to lack of fund
B	Production Activities					
1	Drip irrigation	No.	175	119	68.00	Maximum Farmers not turned up during execution
2	Creeper Vegetable	No.	87	92	105.70	On demand of farm women
3	Honda machine	No.	150	104	69.33	Farmers not turned up during execution
4	Chaff cutter	No.	25	6	24.00	Farmers were not interested in this activity.
5	Vermi Compost	No.	10	0	0.00	Farmers not turned up during execution
6	Crop demonstration.	No	40	45	112.50	On demand of farmers

C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	25	15	60.00	Many Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	20	14	70.00	The group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in Aids to Federation SHG for their livelihood plan.	No	2	0	0.0	No one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of Gully Plug, Waste weir , Land Leveling, pond, Percolation Tank and Renovation of pond Were achieved to the extent of 92.23,66.67,7.69,40,24 and 50.0% respectively .
2. Work of digging of Trench structure has remained unattended
3. The target of Gabion Structure, Pacca Nala Plug, Check Wall and Check dam work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

1. Out of 6 production activities target of 5 activities namely Drip irrigation, Creeper Vegetable, Honda machine, Chaff cutter, and Crop demonstration was 68,105.7, 69.33,24 and 112.50% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture. The target of vermi compost has remained unattended.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 60% of SHG, 70 % to individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 76% of SHG has been working properly and repaying the loan in time. Only 24% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-I Block- Vad District – Surat (Gujarat)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	10-12	8-10	9-12	-1.00	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures (dug wells, tube wells, hand pumps) repaired/rejuvenated	No.	0	6	3	-3	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	2280	2735	2562	-173	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	4496	4850	4731	-119	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and waste land development
5	Crop productivity						
6	sorghum	Kg/ha	900	1320	1405	85	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology and adoption of dry land cultivation practices.
	Groundnut	Kg/ha	1200	1500	1540	40	
	pigeon pea	Kg/ha	1000	1420	1510	90	
	wheat	Kg/ha	2200	2500	2610	110	
	Groundnut (summer)	Kg/ha	1180	1600	1655	55	
7	Area under horticulture	ha	24	89	42	-47	Farmers are not interested due to lack of irrigation water in summer and marketing problem
8	SHG federations formed	No.	5	25	20	-5	maximum groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	35000	70000	74500	4500	Income of Household increase due to

							increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration	No.	198	40	20	20	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under MNAREGA and adoption of livelihood activities.
11	Cropping intensity	%	147	200	185	-15	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation and lack of irrigation water.
12	Waste land development	ha	658	210	394	-184	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-I Block -- Block-Vad District – Surat (Gujarat)

1. The anticipate increase in ground water table has been not achieved i.e. -1.00 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1, 6, 8 &9 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like Gabion Structure, Pacca Nala Plug, and Check dam (Refer items 2, 3 &5 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (4850 ha against target of 4731 ha) and remained short by 119 ha i.e. 2.45% (Refer Item 4 table 2) due to 85.71% less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 6.35 % short than the target (achieved 2562 ha against target of 2735 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 15% (achieved 185 % against target of 200 %) – Refer item 11, table 2.

The progress of both these items remained short due lack of harvested rain water quantity.

However, the productivity of Groundnut, sorghum, wheat and pigeon pea has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology and use of soil moisture conservation practices.

4. Only 47.19 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of market facility for horticulture produce. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
5. 80 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
6. The household income increased over the expected post-project income of Rs 70000/Annum by 6.43 % i.e. Rs 4500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and adoption of livelihood activities.



WAPCOS TEAM VISIT WASTE WEIR AT IWMP-I VAD SURAT GUJARAT



WAPCOS TEAM VISIT CREPPER AT IWMP-I VAD SURAT GUJARAT

Name of Project-	IWMP-III
Block-	Mandvi
District-	Surat
State-	Gujarat

**Table 1: Activity wise Physical Target and Achievements of IWMP- III Block- Mandvi District –
Surat (Gujarat)**

Sanctioned Amount- 600 Lakh

Expenditure- 374.71 Lakh

Expenditure % -62.45

Total project Area- 7741.30 ha

Year of Sanction-2009-10

S.No	Activity	Unit	Target as per DPR	Achiev ement	% achiev ement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Nala plugs (5-10 mtr)	No.	142	122	85.92	Farmers not turned up during execution
2	Pacca Nala Plug	No.	139	121	87.05	Farmers not turned up during execution
3	Check wall	No.	59	0	0.00	Lack of fund
4	Percolation Tank	No.	24	10	41.67	Farmers were not interested in this activity.
5	Land leveling	Ha	183	136	74.32	Farmers were not interested in this activity.
6	Field bunds	mt	250	188	75.20	Farmers not turned up during execution
7	Check dam	No.	30	30	100	Target achieved
8	Dug well recharge	No.	32	0	0.00	Lack of fund
9	Pasture Development	Ha	12	0	0.00	Area is not provided for pasture development by gram sabha
10	Renovation of pond	No.	5	2	40	Farmers were not interested in this activity
B	Production Activities					
1	Drip irrigation	No.	112	70	62.50	Maximum Farmers not turned up during execution
2	Creeper Vegetable	No.	180	122	67.78	Lack of demand of farm women
3	Vermi Compost	No.	24	0	0.0	Farmers were not interested in this activity
4	Drip Irrigation	No	24	0	0.0	Lack of fund

5	Crop demo.	No.	6	10	166	On demand of farmers
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	30	18	60.00	Many Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	35	27	77.14	The other group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in Aids to Federation SHG for their livelihood plan.	No	2	0	0.0	No one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of Nala plugs, Pacca Nala Plug, Percolation Tank, Land leveling , Field bunds and Renovation of pond Were achieved to the extent of 85.92,87.05,41.67,74.32,75.20 and 40.0% respectively .
2. 2-Work of Check wall, Dug well recharge and Pasture Development has remained unattended.
3. 3-The target of Gabion Structure and Check dam work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

1. Out of 5 production activities target of 3 activities namely Drip irrigation, Creeper Vegetable and Crop demonstration was 62.50, 67.78 and 166% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of demand of farm women, Lack of fund and lack of convergence of concern department i.e. Department of agriculture. The target of vermi compost and Drip Irrigation has remained unattended.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 60% of SHG, 77.14 % to individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 81% of SHG has been working properly and repaying the loan in time. Only 19% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-III Block- Mandvi District –Surat (Gujarat)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	8-10	6-8	7.2-8	-1.2	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures (dug wells, tube wells, hand pumps) repaired/rejuvenated	No.	0	189	140	-49	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	1070	1435	1285	-150	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	2477	3045	2748	-297	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and waste land development
5	Crop productivity						
6	sorghum	Kg/ha	1108	1320	1360	40	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology and adoption of dry land cultivation practices. Farmers are not interested due to lack of irrigation water in summer and marketing problem.
	Pigeon pea	Kg/ha	557	800	905	105	
	Paddy	Kg/ha	1700	2500	2610	110	
	Sorghum (rabi)	Kg/ha	1140	1480	1565	85	
	Groundnut	Kg/ha	1500	1800	1830	30	
	wheat	Kg/ha	2160	2540	2630	90	
7	Area under horticulture	ha	31	115	56	-59	Farmers are not interested due to lack of irrigation water in summer and marketing

							problem
8	SHG federations formed	No.	0	30	18	-12	maximum groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	46500	80000	85000	5000	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration	No.	226	64	50	14	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under MNAREGA and adoption of livelihood activities.
11	Cropping intensity	%	140	200	180	-20	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation and lack of irrigation water.
12	Waste land development	ha	600	240	402	-162	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP- III Block- Mandvi District –Surat (Gujarat)

- 1- The anticipate increase in ground water table has been not achieved i.e. -1.20 m against the above target. (Refer item 1, table 2) The progress has remained short due to Water Harvesting Structure not constructed (Refer item 4,5 & 8 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like Pacca Nala Plug, field bund and Check dam (Refer items 2,6 &7 of NRM activity table 1).
- 2- The “Area Under Agriculture Crop” did not increase as expected (3045 ha against target of 2748 ha) and remained short by 297 ha i.e. 9.75% (Refer Item 4 table 2) due to 67.50% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
- 3- The increase in irrigated area after implementation of the watershed structure remained 10.45 % short than the target (achieved 1285 ha against target of 1435 ha) – Refer item 3, table2. Similarly cropping intensity remained short by 20% (achieved 180 % against target of 200 %) – Refer item 11, table 2.

The progress of both these items remained short due lack of harvested rain water quantity.

However, the productivity of Groundnut, sorghum, paddy, pigeon pea and wheat has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology and use of soil moisture conservation practices.

- 4- Only 48.70 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of market facility for horticulture produce. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
- 5- 60 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
- 6- The household income increased over the expected post-project income of Rs 80000/Annum by 6.25 % i.e. Rs 5000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
- 7- Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and adoption of livelihood activities.



WAPCOS TEAM INTERACTING WITH SHG AT IWMP-3 MANDVI SURAT



WAPCOS TEAM VISIT DRIP IRRIGATION AT IWMP-3 MANDVI SURAT

Name of Project-	IWMP-VI
Block-	Mandvi
District-	Surat
State-	Gujarat

Table 1: Activity wise Physical Target and Achievements of IWMP- VI Block- Mandvi District – Surat (Gujarat)

Sanctioned Amount- 564 Lakh

Expenditure- 350.92 Lakh

Expenditure % -53.65

Total project Area- 7248 ha

Year of Sanction-2010-11

S.No	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Pacca Nala plugs	No.	251	93	37.05	Farmers not turned up during execution
2	Gabion structure	No.	168	68	40.48	Farmers not turned up during execution
3	Gully plug	No.	24	24	100	Target achieved
4	Loose boulder	No.	0	314	100	Demand created during execution
5	Check wall	No.	64	0	0.00	Farmers were not interested in this activity.
7	Land leveling	Ha	160	25.4	15.88	Farmers not turned up during execution
8	Field bunds	Rmt	6805	6805	100	Target achieved
9	Stone bunds	Rmt.	423	317	74.94	Lack of fund
10	Check dam	No.	63	63	100	Target achieved
11	Village pond	No.	1	0	0.00	Due to lack of fund
12	Field outlet	No.	408	0	0.00	Farmers were not interested in this activity.
13	Pasture Development	Ha	4	0	0.00	Area was not provided for pasture development by gram Sabah
B	Production Activities					
1	Drip irrigation (set.)	No.	70	70	100.0	Target achieved
2	Creeper Vegetable	No.	142	145	102.10	On demand of farm women
3	Vermi Compost	No.	20	10	50.0	Farmers were not interested in this activity
4	Bee keeping(unit)	No.	10	4	40	Farmers not turned up during execution

5	Agriculture implementing bank	No	5	0	0.0	Due to Lack of fund
6	Crop demo.	No.	30	35	116.6	On demand of farmers
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	10	7	70.0	Some Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	25	19	76.0	The group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in Aids to Federation SHG for their livelihood plan.	No	2	1	50	One Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

- 1- The target of Pacca Nala Plug, Gabion structure, Land leveling, and Stone bunds were achieved to the extent of 37.05, 40.48, 15.58 and 74.94% respectively.
- 2- Work of Check wall, Village pond, Field outlet and Pasture Development has remained unattended.
- 3- The target of loose boulder, Gully plug, Check dam and Field bunds work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

- 1- Out of 6 production activities target of 5 activities namely Drip irrigation, Creeper Vegetable Vermi Compost, Bee keeping(unit) and Crop demonstration was 100,102.1,50,40 and 116.6% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Department of agriculture and horticulture. The target of Agriculture implementing bank has remained unattended.

C. Livelihood system

- 1- The revolving fund granted for livelihood action plan to 70% of SHG, 76.00 % to individual SHG against the target. The 50% fund was granted to SHG federation against the target.
- 2- 6- Expert team met the members of SHG groups during the visit. The 73% of SHG has been working properly and repaying the loan in time. Only 27% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-VI Block- Mandvi District –Surat (Gujarat)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	10-12	8-10	9.1-12	-1.10	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures (dug wells, tube wells, hand pumps) repaired/rejuvenated	No.	0	43	35	-8	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	1241	1586	1472	-114	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	3645	3940	3824	-116	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and waste land development
5	Crop productivity						
6	Paddy	Kg/ha	1650	2200	2340	140	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology and adoption of dry land cultivation practices.
	Sorghum	Kg/ha	1540	2000	2030	30	
	Pigeon pea	Kg/ha	1225	1500	1575	75	
	Wheat	Kg/ha	2100	2400	2515	115	
	Groundnut	Kg/ha	1520	2000	2105	105	
7	Area under horticulture	ha	85.5	15	6.20	8.80	Farmers are not interested due to lack of irrigation water in summer and marketing problem
8	SHG federations formed	No.	24	30	21	-9	maximum groups were not fulfill the pre-requisite for SHG formation

9	Income	Rs.	42000	72000	78400	6400	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration	No.	5106	2297	1540	757	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under MNAREGA and adoption of livelihood activities.
11	Cropping intensity	%	125	200	175	-25	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation and lack of irrigation water.
12	Waste land development	ha	1587	950	1160	-210	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP- VI Block- Mandvi District –Surat (Gujarat)

1. The anticipate increase in ground water table has been not achieved i.e. -1.10 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1, 2, 5 &7 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like gully Plug, loose boulder, field bund and Check dam (Refer items 3, 4, 8 &10 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (3940 ha against target of 3824 ha) and remained short by 116 ha i.e. 2.94% (Refer Item 4 table 2) due to 22.10% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 7.18 % short than the target (achieved 1472 ha against target of 1586 ha) – Refer item 3, table2. Similarly cropping intensity remained short by 25% (achieved 175 % against target of 200 %) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity.
5. However, the productivity of paddy, sorghum, Groundnut, pigeon pea and wheat has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology and use of soil moisture conservation practices.
6. Only 41.33 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of market facility for horticulture produce. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
7. 70 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
8. The household income increased over the expected post-project income of Rs 72000/Annum by 8.89 % i.e. Rs 6400/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
9. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and adoption of livelihood activities



WAPCOS TEAM INTERACTING WITH THE OFFICIALS OF IWMP-6 MANDVI SURAT



WAPCOS TEAM INTERACTING WITH SHG IN IWMP-6 MANDVI SURAT

Name of Project-	IWMP-IX
Block-	Mandvi
District-	Surat
State-	Gujarat

**Table 1: Activity wise Physical Target and Achievements of IWMP-IX Block- Mandvi District –
Surat (Gujarat)**

Sanctioned Amount- 768.98 Lakh

Expenditure- 444.59 Lakh

Expenditure % -57.81 Total

Project Area- 6817ha

Year of Sanction- 2010-11

S.No	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Gabion structure	No.	42	31	73.	Farmers not turned up during execution
2	Trench	mtr	890	1300	146.10	Target achieved
3	Pacca nala plug	No.	157	179	114	Target achieved
4	Gully plug	No.	3	0	0	Due to lack of fund
5	Loose boulder	No.	0	67	67	Demand created during execution
6	Percolation tank	No.	20	6	30.0	Target achieved
7	Land leveling	Ha	81.5	3	3.7	Lack of fund
8	Field bunds	Rmt	3073	2029	66.0	Farmers not turned up during execution
9		Rmt.	1190	626	52.6	Due to lack of fund
10	Check dam	No.	56	62	110.7	Demand of farmers.
11	Check wall	No	45	0	0.0	Lack of fund
12	Pasture Development	Ha	13.5	3.4	25.20	land was not provided for pasture development by gram Sabah
B	Production Activities					
1	Drip irrigation	No.	80	70	87.50	Target achieved
2	Creeper Vegetable	No.	235	148	63.0	On demand of farm women
3	Agriculture implementing bank	No	4	0	0	Farmers were not interested in this activity
4	Crop demo.	No.	25	30	120.0	Farmers not turned up during execution

5	Animal health camp	No.	12	9	75.00	Due to Lack of fund
6	beekeeping	No.	20	8	40.0	On demand of farmers
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	20	11	55.0	Some Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	25	20	80.0	The group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in Aids to Federation SHG for their livelihood plan.	No	3	0	0.0	One Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

- 1- The target of Gabion Structure, Loose boulder, Percolation Tank, Land leveling, Field bunds Stone bunds, and Pasture Development were achieved to the extent of 73,67,30,3.70,66,52.60 and 25.20% respectively.
- 2- Work of Gully plug and Check wall has remained unattended.
- 3- The target of trench, Pacca Nala plug and Check dam work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

- 1- Out of 6 production activities target of 5 activities namely Drip irrigation, Creeper Vegetable Crop demonstration, Animal health camp and beekeeping was 87.50,63,120,75 and 40% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of demand of farm women, Lack of fund and lack of convergence of concern department i.e. Department of agriculture& horticulture. The target of Agriculture implementing bank has remained unattended.

C. Livelihood system

- 1- The revolving fund granted for livelihood action plan to 55% of SHG, 80 % to individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target.
- 2- Expert team met the members of SHG groups during the visit. The 78% of SHG has been working properly and repaying the loan in time. Only 22% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-IX Block- Mandvi District –Surat (Gujarat)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	8-12	6-12	6.8-12	-0.8	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures (dug wells, tube well, hand pumps) repaired/rejuvenated	No.	0	24	18	-6	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	932	1240	1107	-133	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	5280	5635	5510	-125	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and waste land development
5	Crop productivity						
6	Paddy	Kg/ha	1650	2200	2410	210	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology and adoption of dry land cultivation practices
	Sorghum	Kg/ha	1480	1950	2000	50	
	Pigeon pea	Kg/ha	1200	1500	1620	120	
	Wheat	Kg/ha	2100	2400	2480	80	
	Groundnut	Kg/ha	1500	2000	2040	40	
7	Area under horticulture	ha	109.60	113	46.5	-66.50	Farmers are not interested due to lack of irrigation water in summer and marketing problem
8	SHG federations formed	No.	10	20	16	-4	maximum groups were not fulfill the pre-requisite for SHG

							formation
9	Income	Rs.	55000	95500	102000	6500	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration	No.	2960	1332	900	432	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under MNAREGA and adoption of livelihood activities.
11	Cropping intensity	%	120	200	165	-35	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation and lack of irrigation water.
12	Waste land development	ha	718	340	492	-152	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP- IX Block- Mandvi District –Surat (Gujarat)

1. The anticipate increase in ground water table has been not achieved i.e. -0.80 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1, 4, 6 & 8 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like trench, PaccaNala Plug and Check dam (Refer items 2, 3 &10 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (5635 ha against target of 5510 ha) and remained short by 125 ha i.e. 2.21% (Refer Item 4 table 2) due to 44.70% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 10.72 % short than the target (achieved 1240 ha against target of 1107 ha) – Refer item 3, table2. Similarly cropping intensity remained short by 35% (achieved 165 % against target of 200 %) – Refer item 11, table.

The progress of both these items remained short due lack of harvested rain water quantity.

However, the productivity of paddy, Groundnut, sorghum, pigeon pea and wheat has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology and use of soil moisture conservation practices.

4. Only 41.15 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of market facility for horticulture produce. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
5. 80 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
6. The household income increased over the expected post-project income of Rs 95500/Annum by 6.81 % i.e. Rs 6500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and adoption of livelihood activities



WAPCOS EXPERT VISIT GABIAON STRUCTURE IN IWMP-IX MANDVI SURAT



WAPCOS TEAM VISIT DRIP AND CREEPER IN IWMP-IX MANDVI SURAT

Name of Project-

IWMP-I

Block-

Antrol

District-

Banaskantha

State-

Gujarat

Table 1: Activity wise Physical Target and Achievements of IWMP-I Block-Antrol District – Banaskantha (Gujarat)

Sanctioned Amount- 735.0 Lakh

Expenditure- 544.33 Lakh

Expenditure % -74.05

Total project Area- 4900ha

Year of Sanction-2009-10

S.No	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Field bund	Rmt	174801	174801	100	Lack of fund
2	Farm Pond	No.	60	35	58.33	Farmers not turned up during execution due to small holding.
3	Check dam	No.	13	8	61.54	Lack of fund
4	Well Recharge	No.	2	2	100	Target achieved
5	Percolation tanks / Ground water recharge structure	No.	37	25	67.56	Farmers was not interested in this activity.
6	Deepening of pond repair	No.	5	0	0	Lack of fund
7	Water Harvesting Structure (Old rejuvenated)	No.	10	6	60	Farmers were not interested in this activity.
8	Pasture Development	Ha	18	10	55.56	Only 10 ha land provided by the Gram Sabah for pasture development
9	Earthen bund	No.	5	2	40	Lack of fund
B	Production Activities					
1	Vermin compost	No.	35	26	74.28	Lack of fund
2	Crop demonstration	No.	75	75	100	Target achieved
3	Hort. nursery	No.	10	3	30	Farmers not turned up during execution due to sale problem
4	Kitchen garden kit	No	60	60	100	Target achieved
5	Drip system	Ha.	15	6	40	Established with the coordination of Department of agriculture.
6	Cattle Camp	No	35	21	60	Organized with the coordination of Department of A.H
7	Chaff cutter	No	45	26	57.80	Lack of fund

C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	18	10	55.56	Some Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	32	21	65.62	The group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in Aids to Federation SHG for their livelihood plan.	No	1	0	0	No one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of farm pond, Check dam, Percolation tanks / Ground water recharge structure, Water Harvesting Structure (Old rejuvenated), Pasture Development and earthen bund were achieved to the extent of 58.33, 61.54, 67.56, 60, 55.56, and 40% respectively.
2. The work of Deepening of pond (repair) has remained unattended
3. The target of Field bund and Well Recharge work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 7 production activities target of all 7 activities namely Vermin compost, Crop demonstration, Hort. Nursery, Kitchen garden kit, Drip system, Animal Health Camp, and Chaff cutter was 74.28, 100, 30, 100, 40, 60, and 57.80% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture etc.

C. Livelihood system

4. The revolving fund granted for livelihood action plan to 55.56% of SHG, 65.62 % to individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target. The main enterprises of SHG were pesticide presser pump, floor mill, tailoring, black smith work, agro-center, etc.
5. - Expert team met the members of SHG groups during the visit. The 73.50% of SHG has been working properly and repaying the loan in time. Only 26.50% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-I Block- Antrol District –Banaskantha (Gujarat)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	9	7	7.60	-0.60	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area.(actual status of water table drawn from data received from farmers at the time of expert visit
2	Ground water structures (dug wells, tube wells hand pumps) repaired/rejuvenated	No.	0	15	11	-4	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	141	520	396	-124	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	2920	3760	3593	-167	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and wasteland development
5	Crop productivity						
6	Pearl millets	Kg/ha	800	1020	1100	80	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology, efficient use of limited irrigation water and adoption of dry land cultivation practices.
	guar	Kg/ha	520	800	920	120	
	castor	Kg/ha	910	1100	1205	105	
	Mustard	Kg/ha	610	800	875	75	
	cumin	Kg/ha	790	850	910	60	
7	Area under horticulture	ha	20	42	25	-17	Farmers are not interested due to lack of irrigation water in

							summer and marketing problem of horticulture produce.
8	SHG formed	No.	5	51	32	-19	maximum groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	45200	65500	71000	5500	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration	No.	2074	413	740	-327	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP and adoption of livelihood activities.
11	Cropping intensity	%	100	150	125	-25	The outcome of cropping intensity was not achieved because of not inclusion of short duration crop in crop rotation and lack of irrigation water.
12	Waste land development	ha	431.4	150	235	-85	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-I Block- Antrol District –Banaskantha (Gujarat)

1. The anticipate increase in ground water table has been not achieved i.e. -0.60 m against the above target. (Refer item 1, table 2).The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2, 3&5 under NRM activity table 1).But the marginal increase in GW table is registered due to expected target achieved of other structures like Field bund, Well Recharge and Deepening of pond repair (Refer items1, 4&6 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being3593 ha against target of 3760 ha) and remained short by167 ha i.e.4.44% (Refer Item 4 table 2) due to 56.70% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 23.40 % short than the target (achieved 396 ha against target of 530 ha) – Refer item 3, table2. Similarly cropping intensity remained short by 25% (achieved 125 % against target of 150 %) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of pearl millets, guar, castor, Cumin and mustard crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology, efficient use of irrigation water and use of soil moisture conservation practices.
5. Only 59.52 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of irrigation water for horticulture crop. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
6. 62.74 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
7. The household income increased over the expected post-project income of Rs 65500/Annum by 8.40 % i.e. Rs 5500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The share in income contribution of agriculture, dairy, labor and other occupation were 61.20, 23.80, 13.10and 1.90 % respectively.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities.



WAPCOS TEAM INTERACTING WITH THE VILLAGERS ABOUT WATERSHED



Name of Project-	IWMP-III
Block-	Tharad
District-	Banaskantha
State-	Gujarat

Table 1: Activity wise Physical Target and Achievements of IWMP- III Block- Tharad District – Banaskantha (Gujarat)

Sanctioned Amount- 750.00Lakh

Expenditure- 482.53Lakh

Expenditure % -64.33

Total project Area- 7944 ha

Year of Sanction-2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Field bund	Rmt	300634	300634	100	Target achieved
2	Field leveling	Ha.	85	0	0	Farmers were not interested in this activity. due to cost factor
3	Well Recharge	No.	51	30	58.82	Farmers were not interested in this activity.
4	Pond	No.	14	8	57.14	Lack of fund
5	Farm Pond	No.	154	40	25.97	Farmers not turned up during execution due to small holding
6	Percolation tanks / Ground water recharge structure	No.	4	4	100	Target achieved
7	Check dam	No.	10	6	60	Lack of fund
8	Pasture Development	Ha	10	4	40	Only four ha. land provided by the Gram Sabah for pasture development
9	Percolation tanks / Ground water recharge structure Repair	No.	20	12	60	Lack of fund
10	Inlet	No	8	0	0	Lack of fund
11	Earthen bund	No.	4	4	10	Target achieved
B	Production Activities					
1	Crop demonstration	No.	200	200	100	Target achieved
2	Cattle health camp	No.	30	19	63.30	Lack of coordination of with the Department of A.H
3	Nursery	No.	16	7	43.75	Some Farmers were not interested in this activity due lack of sale

4	Vermin Compost	No.	30	14	46.67	Lack of fund
5	Drip system	Ha.	18	10	55.56	Lack of coordination of with the Department of agriculture.
6	Vegetable Seed Kits	Pack et	200	200	100	Target achieved
7	beekeeping	No.	12	2	16.70	Lack of coordination of with the Department of Horticulture and lack of fund.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	11	7	63.64	Some Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	22	16	72.70	The Some group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in Aids to Federation SHG for their livelihood plan.	No	2	1	50	Only one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of Well Recharge, Pond, farm pond, Check dam, Pasture Development and Percolation tanks / Ground water recharge structure repair were achieved to the extent of 58.82, 57.14, 25.97,60,40 and 60 % respectively.
2. Work of Field leveling and Inlet constriction has remained unattended.
3. The target of Field bund, earthen bund and Percolation tanks / Ground water recharge structure work was achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 7 production activities target of all 7 activities namely Crop demonstration, Cattle health camp, Nursery, Vermin Compost, Drip system, Vegetable Seed Kits and beekeeping was 100,63.30,43.75,46.67,55.56,100 and 16.70% achieved respectively. The main reason for not achieving the target were lack of staff, villagers not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture .

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 63.64% of SHG, 72.70 % to individual SHG against the target. The fund granted to SHG federation was 50% in the project against the target. The main enterprises of SHG were pesticide presser pump, floor mill, alovera process machinery, tailoring, Mason work, agro-centre, etc
2. Expert team met the members of SHG groups during the visit. The 69% of SHG has been working properly and repaying the loan in time. Only 31% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan

Table 2: Indicator wise impact of sample IWMP- III Block- Tharad District –Banaskantha (Gujarat)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	10-12	8-10	9-10	-1.00	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area.(actual status of water table drawn from data received from farmers at the time of expert visit
2	Ground water structures (repaired/rejuvenated	No.	0	20	12	-8	Target was not achieved due to lack of fund.
3	Change in irrigated area	ha	478	810	687	-123	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	6623	6981	6874	-107	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and waste land development
5	Crop productivity						
6	Pearl millets	Kg/ha	483	560	645	85	Increase in productivity due to
	Guar	Kg/ha	347	460	510	50	

	Castor	Kg/ha	860	900	940	40	adoption of HYV/Hybrid seed of crop variety, advance crop technology and adoption of dry land cultivation practices.
	Mustard	Kg/ha	733	870	950	80	
	Cumin	Kg/ha	439	630	700	70	
7	Area under horticulture	ha	0	24	15	-9	Farmers are not interested due to lack of irrigation water in summer and marketing problem
8	SHG federations formed	No.	22	30	23	-7	maximum groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	40100	65000	69500	4500	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration	No.	2209	664	857	-193	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP and adoption of livelihood activities.
11	Cropping intensity	%	105	150	130	-20	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation and lack of irrigation water.
12	Waste land development	ha	298	148	212	-64	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP- III Block- Tharad District –Banaskantha (Gujarat)

1. The anticipate increase in ground water table has been not achieved i.e. -1.00 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 4, 5&7 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like field bund, earthen bund and percolation tank (Refer items 1, 6&11 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 6874 ha against target of 6981 ha) and remained short by 105 ha i.e. 1.53% (Refer Item 4 table 2) due to 43.20% less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 15.20 % short than the target (achieved 687 ha against target of 810 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 20 % (achieved 130 % against target of 150 %) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Pearl millets, Guar, castor, Cumin and mustard crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology, soil moisture conservation practices and judicious use of limited irrigation water.
5. Only 62.50 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of irrigation water for horticulture crop. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
6. 76.70 % expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase their income.
7. The household income increased over the expected post-project income of Rs 65000/Annum by 6.92 % i.e. Rs 4500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The share in income contribution of agriculture, dairy, labor and other occupation were 62.40, 27.05, 9.70 and 0.85 % respectively.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities.



WAPCOS TEAM VISIT POND IN IWMP-III BANASKANTHA



WAPCOS TEAM INTERACTING WITH UGs IN IWMP-III BANASKANTHA

Name of Project-	IWMP-VII
Block-	Tharad
District-	Banaskantha
State-	Gujarat

**Table 1: Activity wise Physical Target and Achievements of IWMP- VII Block- Tharad District
–Banaskantha (Gujarat)**

Sanctioned Amount- 750Lakh
Expenditure % - 47.51
Year of Sanction-2010-11

Expenditure-356.34 Lakh
Total project Area- 6157 ha

S.No.	Activity	Unit	Target as per DPR	Achiev ement	% achiev ement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Field bund	Rmt	749708	749708	100	Target achieved
2	Field leveling	Ha.	62	0	0	Farmers were not interested in this activity. due to cost share factor
3	Well Recharge	No.	42	28	58.82	Farmers were not interested in this activity.
4	Pond	No.	9	9	100	Target achieved
5	Farm Pond	No.	154	0	0	Farmers not turned up during execution due to small holding
6	Percolation tanks / Ground water recharge structure	No.	9	7	77.78	Lack of fund
7	Check dam	No.	11	6	54.50	Lack of fund
8	Pasture Development	Ha	5	1.50	30	Only 1.50 ha. land provided by the Gram Sabah for pasture development
9	Percolation tanks / Ground water recharge structure Repair	No.	36	6	60	Lack of fund
10	Inlet	No	9	2	22.20	Lack of fund
B	Production Activities					
1	Drip system	Ha	42	14.50	34.52	Lack of fund
2	Crop Demo	Ha	150	150	100	Target achieved
3	Animal health camp	No.	12	8	66.70	Lack of coordination of with the Department of A.H
4	Vermi compost	No.	36	22	61.10	Lack of fund

5	Sprinkler	No.	19	10	52.62	Lack of coordination of with the Department of agriculture.
6	Kitchen garden seed kit	No.	130	130	100	Target achieved
7	beekeeping	No.	10	3	30	Lack of fund and migration problem.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	10	6	60.0	Many Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	23	16	69.56	The some group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in Aids to Federation SHG for their livelihood plan.	No	0	0	0	No Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Well Recharge, Percolation tanks / Ground water recharge structure , Check dam, Pasture Development , Percolation tanks / Ground water recharge structure Repair and Inlet Were achieved to the extent of 58.82,77.78,54.50,30,60 and 22.20 % respectively.
2. Work of Field leveling and farm pond has remained unattended
3. The target of Field bund and Pond work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 7 production activities target of all 7 activities namely Drip system, Crop Demonstration, Animal Health Camp, Vermin compost, Sprinkler, Kitchen garden seed kit, and beekeeping was 34.52,100,66.70,61.10,52.62,100 and 30% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture etc.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 60% of SHG, 69.56 % to individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target. The main enterprises of SHG were floor mill, tailoring, man dap decoration, agro-centre, net house vegetable cultivation etc.
2. Expert team met the members of SHG groups during the visit. The 70% of SHG has been working properly and repaying the loan in time. Only 30 % of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP- VII Block- Tharad District –Banaskantha (Gujarat)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	25-30	20-25	21.25-25	-1.25	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area.(actual status of water table drawn from data received from farmers at the time of expert visit
2	Ground water structures (dug wells, tube wells& hand pumps) repaired/rejuvenated	No.	0	12	8	-4	Target was not achieved due to lack of fund.
3	Change in irrigated area	ha	1410	1680	1576	-104	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	2394	2672	2570	-102	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and wasteland development
5	Crop productivity						

	Castor	Kg/ha	850	1000	1085	85	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology, judicious use of limited irrigation water and adoption of dry land cultivation practices
	Bajra	Kg/ha	755	900	945	45	
	Guar	Kg/ha	550	725	800	75	
	Cumin	Kg/ha	510	600	672	72	
	Mustard	Kg/ha	870	950	1040	90	
7	Area under horticulture	ha	0	19	11.5	-7.5	Farmers are not interested due to lack of irrigation water in summer and marketing problem of horticulture produce.
8	SHG federations formed	No.	22	30	21	-9	maximum groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	42750	70000	74500	4500	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration	No.	1233	650	802	-152	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP and adoption of livelihood activities.
11	Cropping intensity	%	110	150	135	-15	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation and lack of irrigation water.
12	Waste land development	ha	269	120	163	-43	Target not achieved due to lack of funds

Impact Evaluation Summary of -IWMP- VII Block- Tharad District –Banaskantha (Gujarat)

1. The anticipate increase in ground water table has been not achieved i.e. -1.25 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2&5 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like field bund and pond (Refer items 1&4 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 2570 ha against target of 2672 ha) and remained short by 102 ha i.e. 3.82% (Refer Item 4 table 2) due to 35.83% less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 6.20 % short than the target (achieved 1576 ha against target of 1680 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 15 % (achieved 135 % against target of 150 %) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of castor, Bajra, guar, and Cumin and Mustard crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology, use of soil moisture conservation practices and judicious use of irrigation water.
5. Only 60.52 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of irrigation water for horticulture crop. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
6. 70 % expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase their income.
7. The household income increased over the expected post-project income of Rs 70000/Annum by 6.53 % i.e. Rs 4500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The share in income contribution of Agriculture, dairy, labor and other occupation were 46.00, 34.00, 11.70 and 8.30 % respectively.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities



WAPCOS EXPERT INTERACTING WITH SHG IN IWMP-VII BANASKANTHA



APCOS OFFICIALS VISIT CHECK DAM IN IWMP-VII BANASKANTHA

Name of Project-	IWMP-VIII
Block-	Tharad
District-	Banaskantha
State-	Gujarat

**Table 1: Activity wise Physical Target and Achievements of IWMP-VIII Block-Tharad District
–Banaskantha (Gujarat)**

Sanctioned Amount-741.00 Lakh

Expenditure- 468.04 Lakh

Expenditure % -63.16

Total project Area- 6454 ha

Year of Sanction-2010-11

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Field bund	Rmt.	279818	279818	100	Target achieved
2	Diversion canal deepening	rmt.	1125	574	51	Lack of fund
3	Land leveling	Ha.	65	35	53.84	Farmers not turned up during execution due to share money
4	Ponds	No.	7	7	100	Target achieved
5	Nallah bunds	No.	26	9	34.61	Maximum Farmers not turned up during execution because his name is not in revenue record
6	check dam	No.	6	4	66.70	Lack of fund
7	Percolation tank (new)	No	11	0	0	Lack of fund
8	Pasture Development	Ha	12	5.5	45.83	Only 5.50ha. land provided by the Gram Sabah for pasture development
9	Farm outlet(farm west weir)	No	8	5	62.50	Lack of fund
10	Protection tank recharge(repairing)	No	35	9	25.71	Maximum Farmers not turned up during execution
B	Production Activities					
1	Drip system	Ha	50	12.50	25	Lack of fund
2	Crop Demonstration	No.	100	100	100	Target achieved with the coordination of department of agriculture.
3	Kitchen Garden kit	No	80	80	100	Target achieved with the coordination of department of horticulture.
4	Seed Drill distribution	No.	36	0	0	Lack of fund

5	beekeeping	No.	19	10	52.62	Lack of fund and migration problem of bee box for flora.
6	Cattle camp	No.	13	7	53.84	Lack of coordination of with the Department of A.H and fund
7	Horticulture nursery	No.	10	3	30	Lack of fund.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	8	5	62.50	Many Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	26	19	73.10	The some group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in Aids to Federation SHG for their livelihood plan.	No	1	0	0	No one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Diversion canal deepening , Land leveling , Nallah bunds , check dam , Pasture Development, Farm outlet(farm west weir), and Protection tank recharge(repairing Were achieved to the extent of 51,53.84,34.61,66.70,45.83,62.50and 25.71 % respectively.
2. Work of Percolation tank (new) has remained unattended.
3. The target of Field bund and Ponds work were achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 7 production activities only target of 6 activities namely Drip system , Crop Demonstration, Kitchen Garden kit , beekeeping , Cattle camp and Horticulture nursery was 25,100,100,52.62,53.84 and30% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture . The target of Seed Drill distribution has remained unattended.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 62.50% of SHG, 73.10 % to individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target. The main enterprises of SHG were pesticide presser pump, floor mill, tailoring, man dap decoration, agro-centre, etc
2. Expert team met the members of SHG groups during the visit. The 68% of SHG has been working properly and repaying the loan in time. Only 32% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-VIII Block- Tharad District –Banaskantha (Gujarat)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	25-30	20-25	21.80-25	-1.80	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area.(actual status of water table drawn from data received from farmers at the time of expert visit
2	Ground water structures repaired/rejuvenated	No.	0	46	9	-38	Target was not achieved due to lack of fund.
3	Change in irrigated area	ha	962	1230	1126	-104	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	3368	3627	3493	-134	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and waste land development
5	Crop productivity						
6	Castor	Kg/ha	637	850	995	145	Increase in productivity

	Pearl millet	Kg/ha	770	900	940	40	due to adoption of HYV/Hybrid seed of crop variety, advance crop technology and adoption of dry land cultivation practices, judicious use of limited irrigation water.
	Mustard	Kg/ha	703	920	1005	85	
	wheat	Kg/ha	1924	2200	2260	60	
7	Area under horticulture	ha	0	11	6.50	-4.50	Farmers are not interested due to lack of irrigation water in summer and marketing problem of horticulture produce.
8	SHG federations formed	No.	19	28	21	-7	maximum groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	42900	70500	74000	3500	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration	No.	778	289	356	-67	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP and adoption of livelihood activities.
11	Cropping intensity	%	125	160	150	-10	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation and lack of irrigation water.
12	Waste land development	ha	575	240	352	-112	Target not achieved due to lack of funds

Impact Evaluation Summary of -IWMP-VIII Block- Tharad District –Banaskantha (Gujarat)

1. The anticipate increase in ground water table has been not achieved i.e. -1.80 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item3, 5&6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like field bund, ponds and waste weir (Refer items 1, 4&10 of NRM activity table 1)
2. The “Area Under Agriculture Crop” did not increase as expected (actual being3493 ha against target of 3627 ha) and remained short by134 ha i.e.3.69% (Refer Item 4 table 2) due to 46.67% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 8.45 % short than the target (achieved1126 ha against target of1230 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10 % (achieved 150 % against target of 160 %) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of castor, pearl millet, Wheat and mustard crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology, soil moisture conservation practices and judicious use of limited irrigation water.
5. Only 59 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of irrigation water for horticulture crops. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
6. 75 % expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase their income
7. The household income increased over the expected post-project income of Rs70500/Annum by 4.96 % i.e. Rs 3500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.The share in income contribution of agriculture, dairy, labor and other occupation were 61.10, 28.93, 6.32and 3.40 % respectively.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities



WAPCOS OFFICIALS INTERACTING WITH VILLAGERS ABOUT WATERSHED IMPACT

IMPACT EVALUATION OF SAMPLE IWMP PROJECTS OF – JHARKHAND

The Impact Evaluation of IWMP Projects has been carried out on the basis of following criteria:

1. Comparing the activity wise Physical Achievement vis-à-vis Target as per DPR (Refer Table1).
2. Comparing the Indicator wise impact with the expected out come after completion of the project as per DPR (Refer Table 2).
3. Impact Evaluation Summary.

Name of Project - IWMP-I

Block - Devipur&Madhupur

District - Deoghar

State - Jharkhand

Table 1: Activity wise Physical Target and Achievements of IWMP-I, Block- Devipur & Madhupur, District- Deoghar (Jharkhand)

Sanctioned Amount- 818.32 Lakh

Expenditure- 398.92 Lakh

Expenditure - 48.74%

Total project Area- 6819.30 Ha.

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A.	Natural Resource Management					
1.	Field Bund	Ha.	546	92.28	16.90	Farmers not turned up during execution
2.	Bench Terracing	Ha.	530	265	50	Due to unavailability of sufficient fund
3.	Farm Pond	Nos.	152	88	57.89	
4.	Nala Bunds /ECD	No.	386	241	62.44	
5.	Water Tank	Nos.	130	98	75.38	
6.	Sunken pits	Nos.	1354	0	0	Farmers not turned up during execution
B.	Production Activities					
1.	Animal Husbandry (Health Camp)	Nos.	12	12	100	With coordination with department of A.H
2.	Fodder Development	Ha.	160	160	100	With coordination with department of A.H
3.	Crop demonstration	Nos.	70	70	100	With coordination with department of agriculture
4.	Sheep & Goat rearing	Nos.	240	200	83.33	Lack of fund
5.	Kitchen Gardening Seed kit	No.	166	166	100	With coordination with department of Horticulture
6.	Organic Farming	Ha.	8.4	2.23	26.55	Farmers not turned up during execution
7.	Vermi compost	Nos.	11	11	100	With coordination with department of agriculture
C.	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	85	77	90.60	groups were not Fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Field Bund, Bench Terracing, farm pond, Nala Bunds /ECD structure and Water Tank work was achieved to the extent of 16.90, 50, 57.89, 62.44, and 75.38 % respectively.
2. The work of Sunken pits has remained unattended. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 7 production activities target of 5 activities namely, Animal Husbandry (Health Camp), Fodder Development, crop demonstration, Kitchen Gardening Seed kit and Vermi compost were achieved to the extent of outcome.
2. The target of Sheep & Goat rearing and Organic Farming work were achieved to the extent of 83.33, and 26.55 % respectively. The main reason for not achieving the target were non availability of fund, villager's interest and lack of convergence with concern department i.e. Department of horticulture etc.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 90.60% of SHG against the target. The main enterprises of SHG were Mobil repairing, motorcycle repairing work, , agro-service Centre,, tailoring, Grocery shop, papad making, dairy, computer repairing work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 82% of SHG has been working properly and repaying the loan in time. 18% of SHG were not working smoothly and not repaying the loan in time.

Table1 2: Activity wise Physical Target and Achievements of IWMP-I, Block-Devipur & Madhupur, District-Deoghar (Jharkhand)

S.No.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	8	6	7	-1.0	As the target of water harvesting structures were not achieved; the Water table not increased up to the expected post project stage; Actual status of water table drawn from data received from farmers. at the time of expert visit
2	Ground water structures repaired / rejuvenated	No.	57	0	0	0	Not included in DPR
3	Change in irrigated area	Ha.	900	1457	1275	-182	Expected post project outcome not achieved due to the lack of harvested rain water quantity.
4	Area under agriculture crop	Ha.	3127	3500	3326	-174	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected.
5	Crop productivity						
	Yield of Paddy	Kg/ha	1824	2000	2104	104	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Yield ofWheat	Kg/ha	2560	3000	3200	200	
	Yield of Gram	Kg/ha	854	950	1063	113	
6	Area under horticulture	Ha.	40	56	39	-17	Farmers were interested due to higher income.
7	SHG formed	No.	2	105	85	-20	Some groups not fulfill the pre-requisite for SHG formation

8	Income	Rs.	34500	70000	74200	4200	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	312	90	141	-51	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	105	130	125	-5	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	598	357	172	-185	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	103	150	68	-82	Lack of fund.

Impact Evaluation Summary of IWMP- I, Block- Devipur & Madhupur

District- Deoghar (Jharkhand)

1. The anticipated increase in ground water table has been not achieved i.e. -1.0 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure partially/not constructed (Refer item 1 to 6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures constructed under other state agencies like; MANERAGA etc.
2. The “Area under Agriculture Crop” did not increase as expected (actual being 3326ha against target of 3500 ha) and remained short by 174 ha i.e.4.97% (Refer Item 4 table 2) due to 51.82% less progress on conversion of waste land into agricultural land (Refer Item 1 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 12.49% short than the target (achieved 1275 ha against target of 1457 ha) – Refer item 3, table 2). Similarly cropping intensity remained short by 5% (achieved 125% against target of 130%) – Refer item 10, table 2. The progress of both these items remained short due to lack of harvested rain water quantity. However, the productivity of paddy, wheat and gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 69.65% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not receiving the remunerative price of horticulture produce.
5. The 81% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 70000/Annum by 6.00 % i.e. Rs 4200/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 70.10, 15.40, 11.50 and 1.70 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The expected outcome of Area under vegetation has been achieved to check the runoff water and to retain the soil moisture for the use of crop yield.



WAPCOS Experts Visited the Water Harvesting Structure and Interacting with farmers of IWMP –I (Deoghar)

Name of Project - IWMP-I

Block - Kanke, Ratu&Burmu

District - Ranchi

State - Jharkhand

Table 1: Activity wise Physical Target and Achievements of IWMP-I, Block- Kanke, Ratu & Burmu, District-Ranchi, (Jharkhand)

Sanctioned Amount-1288.70 Lakh

Expenditure- 615.09323 Lakh

Expenditure % - 47.73

Total project Area- 11800 Ha.

Year of Sanction - 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty.	Phy.	Phy.	
A. Natural Resource Management						
1	Terrace	Ha.	304.65	97.75	32.08	Due to unavailable of sufficient fund
2	Check Dams	Nos.	15	9	60	Lack of fund
3	Farm Pond	Nos.	163	163	100	Target were achieved
4	LBS	Nos.	210	45	21.43	Due to unavailable of sufficient fund
5	WHS recharge	Nos.	34	22	64.70	Lack of fund.
6	Water Tank	Nos.	28	28	100	Target were achieved
7	Irrigation Well	Nos.	17	5	29.41	Due to unavailable of sufficient fund
8	Field bund	Ha.	627.00	167	26.63	Due to unavailable of sufficient fund
B. Production Activities						
1	Animal Vaccination Camp	Nos.	60	60	100	With coordination with department of A.H
2	Fodder Development	Ha	20	20	100	With coordination with department of Animal husbandry
3	Backyard Poultry	Nos.	100	80	80	Lack of fund
4	Sheep & Goat rearing	Nos.	150	55	36.67	Due to unavailable of sufficient fund
5	Vermi Compost unite	Nos.	25	20	80	Lack of fund
6	Demonstrations of Crop	Nos.	780	780	100	With coordination with department of agriculture

7	Beekeeping unite	No.	40	28	70	Due to problem of bee box migration.
C. Livelihood System						
1	Revolving Fund to SHG for livelihood action plan.	No	54	43	79.63	groups were not Fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of farm pond and water tank was achieved to the extent of outcome.
2. The target of Terrace, Check Dams , LBS , WHS recharge, Irrigation Well and Field bund work was achieved to the extent of 32.10,60,21.43,64.70,29.41 and 26.63% respectively. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 7 production activities target of 3 activities namely, Animal Vaccination Camp, Fodder Development and crop demonstration were achieved as expected outcome.
2. The target of Backyard Poultry, Sheep & Goat rearing, Vermi Compost unite and Beekeeping unite to the extent of 80, 36.67,80 and 70% respectively. The main reason for not achieving the target were non availability of fund, villager's interest and lack of convergence with concern department i.e. Department of horticulture etc.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 79.63% of SHG against the target. The main enterprises of SHG were Mobil repairing, motorcycle repairing work, , agro-service Centre dairy, computer, tailoring, Grocery shop, papad making work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 76% of SHG has been working properly and repaying the loan in time. 24% of SHG were not working smoothly and not repaying the loan in time. Out of them 5 % SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP-I,
Block- Kanke, Ratu & Burmu, District- Ranchi, (Jharkhand)**

Sanctioned Amount-1288.704 Lakh

Expenditure- 615.10 Lakh

Expenditure % - 47.73

Total project Area- 11800.00 Ha.

Year of Sanction - 2009-10

S.No.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1.	Status of water table (Depth to Ground water level)	meters	11	9	9.80	-0.80	As the target of water harvesting structures were not achieved; the Water table not increased up to the expected post project stage; Actual status of water table drawn from data received from farmers. at the time of expert visit.
2.	Ground water structures repaired/ rejuvenated	No.	42	30	20	-10	Well Recharged; (lack of fund)
3.	Change in irrigated area	Ha.	6559.73	7650	7012	-638	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4.	Area under agriculture crop	Ha.	7389.04	10050	9076	-974	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5.	Crop productivity	Kg/ha.					
6.	Paddy	Kg/ha	1290	2100	2142	42	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety
	Maize	Kg/ha	10	16	1702	102	

	Wheat	Kg./ha	1604	1900	2017	117	seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Gram	Kg./ha	900	1100	1180	80	
	Mustard	Kg./ha	784	1000	1150	150	
7.	Area under horticulture	Ha.	7	62	46	-16	Farmers were interested due to higher income.
8.	SHG federations formed	No.	0	75	54	-21	Some groups not fulfill the pre-requisite for SHG formation
9.	Income	Rs.	40000	75000	83000	8000	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
10.	Migration	No.	190	0	45	-45	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
11.	Cropping intensity	%	100	130	118	-12	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
12.	Waste land development	Ha.	3030	2438	1215	-1223	Target was not achieved due to lack of fund.
13.	Area under vegetation	Ha.	42	250	102	-148	Lack of fund.

Impact Evaluation Summary of IWMP- I, Block- Kanke, Ratu & Burmu, District-Ranchi, (Jharkhand)

1. The anticipate increase in ground water table has been not achieved i.e. -0.80 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure partially/not constructed (Refer item 1, 2, 4, 5, 7 & 8 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like; farm pond and water tank (Refer items 3 & 6 of NRM activity table1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 9076ha against target of 10050 ha) and remained short by 974 ha i.e.9.70% (Refer Item 4 table 2) due to 50.20% less progress on conversion of waste land into agricultural land (Refer Item11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 10.61% short than the target (achieved 1609 ha against target of 1800 ha) – Refer item 3, table 2). Similarly cropping intensity remained short by 12% (achieved 118% against target of 130%) – Refer item 10, table 2.The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of paddy, maize, wheat gram and mustard crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 74.20% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 72% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 75000/Annum by 10.67 % i.e. Rs 8000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 68.20, 17.30, 12.60and 1.90 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 40.80% expected outcome of Area under vegetation has been achieved to check the runoff water and to retain the soil moisture for the use of crop yield.



WAPCOS Experts Visited the Water Harvesting Structure and Interacting with farmers of IWMP –I (Ranchi)

IMPACT EVALUATION OF SAMPLE IWMP PROJECTS OF – KARNATAKA

The Impact Evaluation of IWMP Projects has been carried out on the basis of following criteria:

1. Comparing the activity wise Physical Achievement vis-à-vis Target as per DPR (Refer Table1).
2. Comparing the Indicator wise impact with the expected out come after completion of the project as per DPR (Refer Table2).
3. Impact Evaluation Summary.

Name of Project - IWMP-II
Block - K.R.Nagar
District - Mysore
State - Karnataka

**Table 1: Activity wise Physical Target and Achievements of IWMP-II
Block: K.R.Nagar, District: Mysore, State: Karnataka**

Sanctioned Amount - 294.000 Lakh

Expenditure - 268.96 Lakh

Expenditure % - 91.48%

Total project Area- 2450.00 ha

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achiev ement	% achiev ement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Nala bund	No.	7	7	100	Expected target were achieved with Coordination of beneficiaries & availability of fund.
2	Farm pond	No.	127	107	84.25	Lack of fund
3	MPT	No.	2	2	100	Expected target were achieved with coordination of beneficiaries & availability of fund
4	Trench cum Bund	Ha.	1122	1122	100	
5	Forestry	Ha	613	613	100	
B	Production Activities					
1	Animal Husbandry (Health Camp)	No.	9	9	100	Expected target were achieved with coordination of department of A.H& availability of fund.
2	Fodder Development	Ha.	6	6	100	Expected target were achieved with coordination of department of A.H& availability of fund.
3	Sprinkler Irrigation	No.	65	65	100	Expected target were achieved with coordination of department of Agriculture& availability of fund.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No.	25	25	100	Target of availing Revolving Fund were achieved

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Nala bund, MPT, Trench cum Bund and Forestry were achieved to the extent of outcome.
2. The target Farm pond work was achieved to the extent of 84.25%.
3. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 3 production activities target of all 3 activities namely, Animal Husbandry (Health Camp,) Fodder Development and Sprinkler Irrigation were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were Dairy farming, Agarbathi Mfg., Pappad Mfg., Dress Designing for women, Piggery, Sheep & goat rearing, Candle mfg., and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 76% of SHG has been working properly and not repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities.

**Table 2: Indicator wise impact of sample IWMP-II, Block: K. R. Nagar, District: Mysore
State: Karnataka**

S.No.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	65	60	61.50	-1.50	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuven	No.	2	2	2	2	Coordination with villagers.
3	Change in irrigated area	Ha.	10	200	142	-58	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	Ha.	1283	1680	1528	-152	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity	Kg/ha					
	Maize	Kg/ha	1167	1285	1300	15	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judical use of limited irrigation water in Rabi crop.
	Ragi	Kg/ha	845	900	960	60	
	Cotton	Kg/ha	910	1000	1090	90	
	Pulses	Kg/ha	600	650	684	34	
6	Area under Horticulture	Ha.	120	250	200	-50	Farmers were interested due to higher income.
7	SHG federations formed	No.	-	40	25	-15	Some groups not fulfill the pre-requisite for SHG formation

8	Income	Rs.	50200	65000	70500	5500	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	200	0	50	-50	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	130	160	155	-5	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	512	290	200	-90	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	150	200	81	-119	Only 81 ha. land was covered under vegetation.

**Impact Evaluation Summary of IWMP- II, Block: K. R. Nagar, District: Mysore,
State: Karnataka**

1. The anticipate increase in ground water table has been not achieved i.e. -1.50 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 2 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, of Nala bund, MPT, Trench cum Bund and Forestry (Refer items 1, 3, 4&5 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 1528 ha against target of 1680 ha) and remained short by 152 ha i.e. 9.05% (Refer Item 4 table 2) due to 45% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 29% short than the target (achieved 142 ha against target of 200 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 5 % (achieved 155% against target of 160%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of maize, ragi, cotton and pulses crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 80% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 62.50% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs65000/Annum by 8.46 % i.e. Rs5500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 66.10, 18.50, 12.80 and 2.60 % respectively
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 40.50% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the Water Harvesting Structure and Discuss with Farmers of IWMP-II (K. R. Nagar)

Name of Project - IWMP-III

Block - H.D.Kote

District - Mysore

State - Karnataka

Table 1: Activity wise Physical Target and Achievements of IWMP-III, Block: H.D.Kote, District: Mysuru, State: Karnataka

Sanctioned Amount – 595.920 Lakh

Expenditure - 553.04 Lakh

Expenditure % - 92.80%

Total project Area- 4966.00 ha

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1	Check Dam	Nos.	12	12	100	Expected target were achieved with coordination of beneficiaries & availability of fund.
2	Nala bund	Nos.	1	1	100	
3	Farm pond	Nos.	92	87	94.56	Lack of fund
4	Gokatte	Nos.	2	2	100	Expected target were achieved with coordination of beneficiaries & availability of fund
5	MPT	Nos.	1	1	100	
6	Rock Filled Dam	Nos.	1	1	100	
7	Trench cum Bund	Ha.	2918	2218	76.01	Some farmers were not interested.
8	Forestry	Ha.	1309	1309	100	Expected target were achieved with coordination of beneficiaries & availability of fund.
B	Production Activities					
1	Animal Husbandry (Health Camp)	Nos.	6	6	100	Expected target were achieved with coordination of department of A.H& availability of fund.
2	Fodder Development	Ha.	18	18	100	Expected target were achieved with coordination of department of A.H& availability of fund.
3	Sprinkler Irrigation	Nos.	113	113	100	Expected target were achieved with coordination of department of Agriculture& availability of fund.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	Nos.	45	45	100	Target of availing Revolving Fund were achieved.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of check dam, Nala bund, Gokatte, MPT, Rock Filled Dam and Forestry were achieved to the extent of outcome.
2. The target of Farm pond and Trench cum Bund work was achieved to the extent of 94.56 and 76.01% respectively.
3. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 3 production activities target of all 3 activities namely, Animal Husbandry (Health Camp), Fodder Development and Sprinkler Irrigation were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were Dairy farming, Agarbathi Mfg., Pappad Mfg., Dress Designing for women, Piggery, Sheep & goat rearing, Candle mfg., and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 81% of SHG has been working properly and not repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities ,Out of them 8 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP-III, Block: H.D. Koteka,
District: Mysore, State: Karnataka**

S.N.	Item	Unit	Pre-proje ct Statu	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	Mtr.	58	54	56	-2.0	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired /rejuvenated	No.	-	3	3	3	Community utilization.
3	Change in irrigated area	Ha.	145	380	274	-106	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	Ha.	1300	2030	1865	-165	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected.
5	Crop Productivity	Kg/ha					
	Ragi	Kg/ha	400	600	650	50	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Maize	Kg/ha	800	1000	1200	200	
	Cowpea	Kg/ha	300	400	455	55	
	Horse gram	Kg/ha	410	500	540	40	
6	Area under Horticulture	Ha.	106	380	250	-130	Farmers were interested due to higher income.
7	SHG formed	No.	-	65	45	-20	Some groups not fulfill the pre-requisite for SHG formation

8	Income	Rs.	70000	100000	106000	6000	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activity.
9	Migration	No.	500	0	200	-200	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping Intensity		135	175	160	-15	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	140	100	60	-40	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	-	1	1	0	Only 1.00 ha. land was allotted for vegetation by gram Sabah

**Impact Evaluation Summary of IWMP III, Block: H.D. Koteka, District: Mysore,
State: Karnataka**

1. The anticipate increase in ground water table has been not achieved i.e. -2.00 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 3&7 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, check dam, Nala bund, Gokatte, MPT, Rock Filled Dam and Forestry (Refer items 1,2,4,5,6&8 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 2030 ha against target of 1865 ha) and remained short by 165 ha i.e. 8.12% (Refer Item 4 table 2) due to 40% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 27.90% short than the target (achieved 274 ha against target of 380 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 15 % (achieved 160% against target of 175%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of maize, ragi, cowpea and horse gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 65.79% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 69.20% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs100000/Annum by 6.0 % i.e. Rs6000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 68.20, 16.90, 13.10 and 1.80 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 100% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



**WAPCOS Experts Visited the NRM and Production Activity of IWMP-III
(H.D. Koteka)**

Name of Project	- IWMP-IV
Block	- Hunsur
District	- Mysore
State	- Karnataka

**Table 1: Activity wise Physical Target and Achievements of IWMP-IV
Block: Hunsur, District: Mysuru, State: Karnataka**

Sanctioned Amount – 613.546 Lakh

Expenditure - 582.56 Lakh

Expenditure % - 94.95%

Total project Area- 5112.88 ha

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1	Nala bund	Nos.	25	25	100	Expected target were achieved with coordination of beneficiaries & availability of fund.
2	Farm pond	Nos.	151	151	100	
3	Gokatte	Nos.	13	13	100	
4	Trench cum Bund	Ha.	2680	2180	81.34	Lack of fund.
5	Forestry	Ha	1335	1335	100	Expected target were achieved with coordination of beneficiaries & availability of fund.
B	Production Activities					
1	Animal Husbandary (Health Camp)	Nos.	16	16	100	Expected target were achieved with coordination of department of A.H& availability of fund.
2	Fodder Development	Ha.	17	17	100	Expected target were achieved with coordination of department of A.H& availability of fund.
3	Sprinkler Irrigation	Nos.	146	146	100	Expected target were achieved with coordination of department of Agriculture& availability of fund.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No.	50	50	100	Target of availing Revolving Fund were achieved.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Nala bund, farm pond, Gokatte and Forestry were achieved to the extent of outcome.
2. The target of Trench cum Bund work was achieved to the extent of 81.34% only.
3. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 3 production activities target of all 3 activities namely, Animal Husbandry (Health Camp), Fodder Development and Sprinkler Irrigation were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were Dairy farming, Agarbathi Mfg., Pappad Mfg., Dress Designing for women, Piggery, Sheep & goat rearing, Candle mfg., and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 80% of SHG has been working properly and not repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities ,Out of them 10 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP- IV, Block:
Hunsur, District: Mysuru, State: Karnataka**

S.N.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meter	70	60	62.5	-2.50	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert
2	Ground water structures repaired /rejuvenated	No.	-	5	5	0	maintained by users group
3	Change in irrigated area	Ha.	246	475	387	-88	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	Ha.	2112	2750	2618	-132	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity						
	Ragi	Kg/ha	800	950	1000	50	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Maize	Kg/ha	1000	1200	1350	150	
	Horse gram	Kg/ha	300	500	550	50	
	Cowpea	Kg/ha	400	500	580	80	
6	Area under horticulture	Ha.	329	494	416	-78	Farmers were interested due to higher income.
7	SHG federations formed	No.	-	70	50	-20	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	33500	55500	60200	4700	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activity.

9	Migration	No.	250	100	100	0	Expected outcome of Reduction in migration achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood
10	Cropping intensity	%	110	160	140	-20	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land
11	Waste land development	Ha.	200	172	117	-55	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	150	105	48	-57	Lack of fund & small size of holding.

**Impact Evaluation Summary of IWMP –IV, Block: Hunsur, District: Mysore,
State: Karnataka**

1. The anticipate increase in ground water table has been not achieved i.e. -2.50 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 4 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Nala bund, farm pond, Gokatte and Forestry (Refer items1, 2, 3&5 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 2618 ha against target of 2750 ha) and remained short by132 ha i.e.4.80% (Refer Item 4 table 2) due to32% less progress on conversion of waste land into agricultural land (Refer Item11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 18.53% short than the target (achieved 387 ha against target of 475 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 20 % (achieved 160% against target of 140%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of ragi, Maize, horse gram and cow pea crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 84.21% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 71.42% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs. 55500/Annum by 8.47 % i.e. Rs. 4700/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 66.10, 18.50, 13.10and 2.30 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 45.71% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



Latitude: 12.219185
Longitude: 76.13351
Elevation: 834.64m
Accuracy: 2.0m
Time: 20-11-2019 14:16
Note: WIMP 4 SHG interaction with womeni hanagodu hobli, neralekuppe

Powered by NoteCam



Latitude: 12.349333
Longitude: 76.452611
Altitude: 682.0m
Accuracy: 7.5m
Time: 20-11-2019 09:54
Note: ravi s/o siddaiah visited and inspect playhouse capsicum crop

Powered by NoteCam

WAPCOS Experts Discuss with SHG Members and Visited the Production Activity of IWMP- IV (Hunsur)

Name of Project - **IWMP-V**
Block - **Nanjnagud**
District - **Mysore**
State - **Karnataka**

**Table 1: Activity wise Physical Target and Achievements of IWMP-V, Block:
Nanjnagud, District: Mysore, State: Karnataka**

Sanctioned Amount – 534.060 Lakh

Expenditure - 491.558 Lakh

Expenditure % - 92.04%

Total project Area- 4450.50 ha

Year of Sanction- 2010-11

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Check Dam	Nos.	2	2	100	Expected target were achieved with coordination of beneficiaries & availability of fund
2	Gokatte	Nos.	4	4	100	
3	MPT	Nos.	1	1	100	
4	Trench cum Bund	Ha.	3254	3054	93.85	Lack of fund
5	Forestry	Ha	1031	1031	100	Expected target were achieved with coordination of beneficiaries & availability of fund
B	Production Activities					
1	Animal Husbandry (Health Camp)	Nos.	27	27	100	Expected target were achieved with coordination of department of A.H& availability of fund.
2	Fodder Development	Ha	4	4	100	Expected target were achieved with coordination of department of A.H& availability of fund.
3	Sprinkler Irrigation	Nos.	136	136	100	Expected target were achieved with coordination of department of Agriculture& availability of fund.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	45	45	100	Target of availing Revolving Fund were achieved

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Check Dam, Gokatte, MPT and Forestry were achieved to the extent of outcome.
2. The target of Trench cum Bund work was achieved to the extent of 93.85% only. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. 3 Out of 3 production activities target of all 3 activities namely, Animal Husbandry (Health Camp), Fodder Development and Sprinkler Irrigation were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were Dairy farming, beauty polar, Papped Mfg., Dress Designing for women, Piggery, Sheep & goat rearing, Candle mfg., and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 82% of SHG has been working properly and not repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities ,Out of them 6 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP-V, Block:
Nanjangud, District: Mysuru, State: Karnataka**

Sl.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	55	50	51.80	-1.80	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	-	01	1	0	Maintained by users group.
3	Change in irrigated area	Ha.	341	655	525	-130	Expected post project outcome not achieved due to the lack of harvested rain water quantity.
4	Area under Agriculture crop	Ha.	2104	2640	2484	-156	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity	Kg/ha.					
	Ragi	Kg/ha	650-	800	880	80	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Sorghum	Kg/ha	700	800	910	110	
	Maize	Kg/ha	1000	1200	1290	90	
	Pulses	Kg/ha	400	510	560	50	
6	Area under horticulture	Ha.	289	445	321	-124	Farmers were interested due to higher income.
7	SHG formed	No.	-	70	45	-25	Some groups not fulfill the pre-requisite for SHG formation

8	Income	Rs.	34300	50500	55000	4500	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activity.
9	Migration	No.	400	100	180	-80	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	130	150	145	-5	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	225	130	68	-62	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	151	200	108	-92	Lack of fund & small size of holding.

**Impact Evaluation Summary of IWMP – V, Block: Nanjangud, District: Mysore,
State: Karnataka**

1. The anticipate increase in ground water table has been not achieved i.e. -1.80 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 4 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Check Dam, Gokatte, MPT and Forestry (Refer items 1,2,3,&5 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 2484 ha against target of 2640 ha) and remained short by 156 ha i.e. 5.90% (Refer Item 4 table 2) due to 47.70% less progress on conversion of waste land into agricultural land (Refer Item 1 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 19.84% short than the target (achieved 525 ha against target of 655 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 5 % (achieved 145% against target of 150%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of ragi, sorghum, maize and pulses crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops
4. The 72.13% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 64.28% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs50500/Annum by 8.91 % i.e. Rs 4500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 65.10, 18.60, 13.50 and 2.80 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 54% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the NRM and Production Activity of IWMP-V (Nanjangud)

Name of Project - IWMP-VI
Block - Nanjnagud
District - Mysore
State - Karnataka

**Table 1: Activity wise Physical Target and Achievements of IWMP-VI,
Block: Nanjnagud, District: Mysore, State: Karnataka**

Sanctioned Amount – 706.680 Lakh

Expenditure - 668.210 Lakh

Expenditure % - 94.56%

Total project Area- 5889.17 ha

Year of Sanction- 2010-11

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A. Natural Resource Management						
1	Check Dam	Nos.	5	5	100	Expected target were achieved with coordination of beneficiaries & availability of fund
2	Nala bund	Nos.	1	1	100	
3	Farm pond	Nos.	10	10	100	
4	Gokatte	Nos.	5	5	100	
5	MPT	Nos.	2	2	100	
6	Trench cum Bund	Ha.	4164	3864	92.80	Lack of fund
7	Forestry	Ha	1518	1518	100	Expected target were achieved with coordination of beneficiaries & availability of fund
B. Production Activities						
1	Animal Husbandry (Health Camp)	Nos.	49	49	100	Expected target were achieved with coordination of department of A.H& availability of fund.
2	Fodder Development	Ha	2	2	100	Expected target were achieved with coordination of department of A.H& availability of fund.
3	Sprinkler Irrigation	Nos.	143	143	100	Expected target were achieved with coordination of department of Agriculture& availability of fund.
C. Livelihood System						
1	Revolving Fund to SHG for livelihood action	Nos.	68	68	100	Target of availing Revolving Fund were achieved

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of check dam, Nalah bund, farm pond, Gokatte, MPT and Forestry were achieved to the extent of outcome.
2. The target of Trench cum Bund work was achieved to the extent of 92.80% only.
3. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 3 production activities target of all 3 activities namely, Animal Husbandry (Health Camp), Fodder Development and Sprinkler Irrigation were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were Dairy farming, beauty polar, Papped Mfg., Dress Designing for women, Piggery, Sheep & goat rearing, Candle mfg., and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 85% of SHG has been working properly and not repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities ,Out of them 10 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-VI, Block: Nanjangud, District: Mysore, State: Karnataka

Sl.No.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1.	Status of water table (Depth to Ground water level)	meters	51	48	49.7	1.70	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit
2.	Ground water structures repaired /rejuvenated	No.	-	02	1	-1	Lack of fund
3.	Change in irrigated area	Ha.	341	755	645	-110	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4.	Area under agriculture crop	Ha.	3163	4450	4215	-235	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5.	Crop productivity	Kg/ha					
	Ragi	Kg/ha	910	950	974	24	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Sugarcane	Kg/ha	33600	42200	45100	2900	
	Maize	Kg/ha	1450	1600	1702	102	
	banana	Kg/ha	19800	21500	22850	1350	
6.	Area under horticulture	Ha.	286	450	185	-265	Farmers were interested due to higher income.
7.	SHG formed	No.	-	80	68	-12	Some groups not fulfill the pre-requisite for SHG formation
8.	Income	Rs.	35000	55000	60100	5100	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activity.

9.	Migration	No.	250	0	40	-40	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10.	Cropping intensity	%	140	160	150	-10	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land
11.	Waste land development	Ha.	130	100	67	-33	Target was not achieved due to lack of fund.
12.	Area under vegetation	Ha.	350	150	58	-92	Lack of fund& small size of holding.

**Impact Evaluation Summary of IWMP VI, Block: Nanjangud, District: Mysore,
State: Karnataka**

1. The anticipate increase in ground water table has been not achieved i.e. -1.70 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, check dam, Nalah bund, farm pond, Gokatte , MPT and Forestry (Refer items 1,2,3,4,5&7 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 4215 ha against target of 4450 ha) and remained short by 235 ha i.e.5.28% (Refer Item 4 table 2) due to 33% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 14.57% short than the target (achieved 645 ha against target of 755 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10 % (achieved 150% against target of 160%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Ragi, sugarcane, maize and Banana crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops
4. The 41.10 expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 85% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs55000/Annum by 9.27 % i.e. Rs. 5100/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 68.10, 17.40, 12.30 and 2.20 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 38.67% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Discuss with SHG Members and Visited the production Activity of IWMP-VI (Nanjangud)

Name of Project - IWMP-VII
Block - Periyapatna
District - Mysore
State - Karnataka

Table 1: Activity wise Physical Target and Achievements of IWMP-VII, Block-Periyapatna, District: Mysore, State: Karnataka

Sanctioned Amount – 806.520 Lakh

Expenditure - 802.862 Lakh

Expenditure % - 99.55%

Total project Area- 6721.00 ha.

Year of Sanction- 2010-11

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A.	Natural Resource Management					
1	Check Dam	Nos.	16	16	100	Expected target were achieved with coordination of beneficiaries & availability of fund
2	Nala bund	Nos.	3	3	100	
3	Farm pond	Nos.	92	92	100	
4	Gokatte	Nos.	18	18	100	
5	Diversion Channel	Rmt	300	300	100	
6	Waterway	Rmt	532	532	100	
7	Rock Filled Dam	Nos.	26	26	100	
8	Trench cum Bund	Ha.	2504	2204	88.01	Lack of fund
9	Forestry	Ha.	1626	1626	100	Expected target were achieved with coordination of beneficiaries & availability of fund
B.	Production Activities					
1	Animal Husbandry (Health Camp)	Nos.	40	40	100	Expected target were achieved with coordination of department of A.H & availability of fund.
2	Fodder Development	Ha	6	6	100	Expected target were achieved with coordination of department of A.H & availability of fund.
6	Sprinkler Irrigation	Nos.	222	222	100	Expected target were achieved with coordination of department of Agriculture & availability of fund.
C.	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	50	50	100	Target of availing Revolving Fund were achieved

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of check dam, Nala bund, farm pond, Gokatte, Diversion Channel, Waterway, Rock Filled Dam and Forestry were achieved to the extent of outcome.
2. The target of Trench cum Bund was achieved to the extent of 88.01% only.
3. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 3 production activities target of all 3 activities namely, Animal Husbandry (Health Camp), Fodder Development and Sprinkler Irrigation were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were tea stall, Dairy farming, beauty parlor, Papped Mfg., Dress Designing for women, Piggery, Sheep & goat rearing, Candle mfg., and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 80.50% of SHG has been working properly and not repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities ,Out of them 11 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP- VII, Block Periyapatna District:
Mysore, State: Karnataka**

Sl. No.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	metres	65	60	62.40	-2.40	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert
2	Ground water structures repaired/rejuvenate	No.	02	18	12	-6	Gokkate Rejuvenated.
3	Change in irrigated area	Ha.	965	1285	1175	-110	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	Ha.	3405	4508	4350	-158	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected.
5	Crop productivity	Kg/ha.					
	Ragi	Kg/ha	600	800	980	80	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Maize	Kg/ha	1000	1200	1350	150	
	Cowpea	Kg/ha	400	500	560	60	
	Horse gram	Kg/ha	600	700	785	85	
6	Area under horticulture	Ha.	288	431	265	-166	Farmers were interested due to higher income.
7	SHG formed	No.	-	70	0	-20	Some groups not fulfill the pre-requisite for SHG formation

8	Income	Rs.	30500	50500	60000	-4500	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activity.
9	Migration	No.	360	0	180	-180	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood
10	Cropping intensity	%	131	160	150	-10	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land
11	Waste land development	Ha.	21	85	51	-34	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	165	253	138	-115	Lack of fund& small size of holding.

**Impact Evaluation Summary of IWMP- VII, Block Periyapatna, District: Mysore,
State: Karnataka**

1. The anticipate increase in ground water table has been not achieved i.e. -2.40 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 8 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, check dam, Nala bund, farm pond, Gokatte , Diversion Channel, Waterway , Rock Filled Dam and Forestry (Refer items 1,2,3,4,5,6,7&9 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 4508 ha against target of 4350 ha) and remained short by 158 ha i.e. 3.51% (Refer Item 4 table 2) due to 40% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 8.56% short than the target (achieved 1175 ha against target of 1285 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10 % (achieved 150% against target of 160%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Ragi, maize, cowpea and horse gram sun flower crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 61.48% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 71.43% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs. 50500/Annum by 8.91Rs 4500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 65.60, 18.40, 13.80 and 2.20 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 54.50% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the NRM and Production Activity of IWMP-VII (Periyapatna)

Name of Project - IWMP-I
Block - Sindhanur
District - Raichur
State - Karnataka

**Table 1: Activity wise Physical Target and Achievements of IWMP-I, Block-
Sindhanur, District- Raichur (Karnataka)**

Sanctioned Amount- 628.80 Lakh

Expenditure- 515.56 Lakh

Expenditure % - 81.99

Total project Area- 5240.00 ha

Year of Sanction-30.09.2009

S. No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1	Afforestation	Ha.	1142	968	84.76	Non availability of plants
2	Bio-fuel Planting activities taken up	Ha.	286	242	84.62	Farmers not turned up during execution
3	Field Bunds	Mtr.	597269	506160	84.75	Lack of fund
4	Farm ponds	Nos.	1	1	100	Target achieved
5	Check dams/Vented dam	Nos.	16	16	100.	Target achieved
6	Percolation tanks (PT/MPT).	Nos.	31	31	100	Target achieved
B	Production Activities					
1	Micro Irrigation	Nos.	54	54	100	Organized with the coordination of department of A.H
2		Nos.	6	6	100	Target achieved
3	Animal Health Camp	Nos.	8	8	100	Organized with the coordination of department of A.H
4	Fodder Mini Kits	Nos.	1560	1500	96.15	Lack of fund
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No.	60	60	100	Target of availing Revolving Fund were achieved

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Farm ponds, Check dams and Percolation tanks (PT/MPT). Were achieved to the extent of expected outcome.
2. The target of a forestation, Bio-fuel Planting activities and Field Bunds work was achieved to the extent of 84.76, 84.62and 84.75% respectively.
3. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 4 production activities target of all 3 activities namely, Micro Irrigation, Travis Installation and Animal Husbandry (Health Camp,) were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.
2. The target of Fodder Mini Kits was achieved to the extent of 96.15% only.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were Dairy farming, Pappad Mfg., Dress Designing for women, Piggery, Sheep & goat rearing, Candle mfg., and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 79% of SHG has been working properly and not repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities.

**Table 2: Indicator wise impact of sample IWMP- I, Block- Sindhanur,
Raichur- District (Karnataka)**

S. No.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	Mtr.	55	50	52	-2.00	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired /rejuvenated	No.	0	0	0	0	Lack of fund.
3	Change in irrigated area	Ha.	212	630	523	-107	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	Ha.	2373	3650	3445	-205	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected.
5	Crop productivity						
	Bengal Gram	Kg/ha	996	1100	1145	45	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Sorghum	Kg/ha	1181	1250	1310	60	
6	Area under horticulture	Ha.	73	94	54	-40	Farmers were interested due to higher income.
7	SHG formed	No.	0	80	60	-20	Some groups not fulfill the pre-requisite for SHG formation.

8	Income	Rs.	35000	63000	65500	2500	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities.
9	Migration	No.	136	0	40	-40	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	89	140	125	-15	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	16	16	11	-5	Target was not achieved due to lack of fund.
12	Area under vegetation	ha	107	140	84	-56	Target was not achieved due to lack of fund.

Impact Evaluation Summary of IWMP- I, Block-Sindhanur, Raichur- District (Karnataka)

1. The anticipate increase in ground water table has been not achieved i.e. -2.00 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 1, 2,&3 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Farm ponds, Check dams and Percolation tanks (Refer items 4, 5& 6 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 3445 ha against target of 3650 ha) and remained short by 205 ha i.e. 5.61% (Refer Item 4 table 2) due to 31.25 less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 16.98% short than the target (achieved 523 ha against target of 630 ha) – (Refer item 3, table 2). Similarly cropping intensity remained short by 15 % (achieved 125% against target of 140%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity.

However, the productivity of Bengal gram and sorghum crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.

4. The 57.45% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 75.00% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 63000/Annum by 3.97 % i.e. Rs. 2500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 67.20, 18.20, 13.00 and 1.60 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 60.00% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the NRM and Production Activity of IWMP -I (Sindhanur)

Name of Project - **IWMP-II**
Block - **Lingasugur**
District - **Raichur**
State - **Karnataka**

**Table 1: Activity wise Physical Target and Achievements of IWMP-II, Block- Lingasugur,
District- Raichur (Karnataka)**

Sanctioned Amount- 655.50 Lakh

Expenditure- 468.09 Lakh

Expenditure % - 71.40

Total project Area- 4370.00 ha

Year of Sanction-30.09.2009

S. No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1	Afforestation	Ha.	1068	828	77.53	Non availability of plants
2	Bio-fuel Planting activities taken up	Ha.	267	206	77.15	Farmers not turned up during execution
3	Field Bunds	Mtr.	429880	333240	100	Target achieved
4	Farm ponds	Nos.	4	4	100	Target achieved
5	Check dams/Vented dam	Nos.	8	8	100	Target achieved
6	Percolation tanks (PT/MPT).	Nos.	8	6	75	Lack of fund
B	Production Activities					
1	Micro Irrigation (set.)	Nos.	6	6	100	Distribution with the coordination of department of argil.
2	Travis Installation	Nos.	7	7	100	Target achieved
3	Animal Health Camp	Nos.	12	12	100	Organized with the coordination of department of A.H
4	Fodder Mini Kits	Nos.	1550	1500	96.77	Lack of availability of mini kits.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	Nos.	33	33	100	Target of availing Revolving Fund were achieved

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Farm ponds, Check dams and Field Bunds Were achieved to the extent of expected outcome.
2. The target of a forestation, Bio-fuel Planting activities and Percolation tanks (PT/MPT). Work was achieved to the extent of 77.53,77,15 and 75% respectively. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area

B. Production Activities

1. Out of 4 production activities target of all 3 activities namely, Micro Irrigation, Travis Installation and Animal Husbandry (Health Camp,) were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture
2. The target of Fodder Mini Kits was achieved to the extent of 96.77% only.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were beauty porlar, .Dairy farming, Pappad Mfg., Dress Designing for women, Piggery , Sheep & goat rearing, Candle mfg., and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 84% of SHG has been working properly and not repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities.

**Table 2: Indicator wise impact of sample IWMP-II, Block-Lingasugur,
Raichur- District (Karnataka)**

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	Meters	35	30	33	-3.00	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired /rejuvenated	No.	0	0	0	0	Not taken in DPR.
3	Change in irrigated area	Ha.	331	760	644	-116	Expected post project outcome not achieved due to the lack of harvested rain water quantity.
4	Area under agriculture crop	Ha.	1427	1950	1788	-162	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected.
5	Crop productivity						
	Bengal Gram	Kg/ha	565	690	750	60	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Sorghum	Kg/ha	974	1050	1204	154	
	Bajra	Kg/ha	1070	1150	1205	55	
	Tur	Kg/ha	580	700	820	120	
6	Area under horticulture	Ha.	81.54	98	61.50	-36.50	Farmers were interested due to higher income.
7	SHG formed	No.	0	50	33	-17	Some groups not fulfill the pre-requisite for SHG formation.
8	Income	Rs.	42000	70000	74200	4200	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities.
9	Migration	No.	193	0	62	-62	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	95	130	125	-5	The expected outcome of cropping intensity was not

							achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	33.25	20	14	-6	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	91.25	135	53	-82	Target were achieved a forestation program.

Impact Evaluation Summary of IWMP- II, Block-Lingasugur, Raichur- District (Karnataka)

1. The anticipate increase in ground water table has been not achieved i.e. -3.00 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 1, 2, & 6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Farm ponds, Check dams and Field Bunds (Refer items 3, 4&5 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 1788 ha against target of 1950 ha) and remained short by 162 ha i.e. 8.30% (Refer Item 4 table 2) due to 30% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 15.26% short than the target (achieved 644 ha against target of 760 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 5 % (achieved 125% against target of 130%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity.
However, the productivity of Bengal gram, sorghum, bajra and Tur crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops
4. The 62.75% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 66% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs70000/Annum by 6.00 % i.e. Rs. 4200/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 65.40, 18.50, 13.60 and 2.50 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 39.25% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the NRM and Production Activity of IWMP-II (Lingasugur)

Name of Project - **IWMP-III**
Block - **Manvi**
District - **Raichur**
State - **Karnataka**

**Table 1: Activity wise Physical Target and Achievements of IWMP-III, Block- Manvi,
District- Raichur (Karnataka)**

Sanctioned Amount- 354.00 Lakh

Expenditure- 282.87 Lakh

Expenditure % - 79.90

Total project Area- 2950.00 ha

Year of Sanction-30.09.2009

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty.	Phy.	Phy.	
A.	Natural Resource Management					
1	Afforestation	Ha.	704	587	83.38	Non availability of plants
2	Bio-fuel Planting activities taken up	Ha.	176	140	79.54	Farmers not turned up during execution
3	Field Bunds	Mtr.	247104	205100	83.01	Lack of fund
4	Farm ponds	Nos.	1	1	100	Target achieved
5	Check dams/Vented dam	Nos.	4	4	100	Target achieved
6	Percolation tanks (PT/MPT).	Nos.	13	13	100	Target achieved
B.	Production Activities					
1	Micro Irrigation	Nos.	5	5	100.00	Distribution with the coordination of department of argil.
2	Travis Installation	Nos.	8	8	100	Target achieved
3	Animal Health Camp	Nos.	12	12	100	Organized with the coordination of department of A.H
4	Fodder Mini Kits	Nos.	900	650	72.20	Lack of availability of mini kits.
C.	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	37	37	100	Target of availing Revolving Fund were achieved

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Farm ponds, Check dams and Percolation tanks (PT/MPT) were achieved to the extent of expected outcome.
2. The target of A forestation, Bio-fuel Planting activities and Field Bunds Work was achieved to the extent of 83.38, 79.54and 83.01% respectively. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 4 production activities target of all 3 activities namely, Micro Irrigation, Travis Installation and Animal Husbandry (Health Camp,) were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture
2. The target of Fodder Mini Kits was achieved to the extent of 72.20% only.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were beauty parlor, Dairy farming, Pappad Mfg., Dress Designing for women, Piggery , Sheep & goat rearing, Candle mfg., and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 82% of SHG has been working properly and not repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities. 18% of SHG were not working smoothly and not repaying the loan in time. Out of them 8 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP-III, Block- Manvi,
Raichur- District (Karnataka)**

S.No.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	32	30	31.10	-1.10	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	0	0	0	Not included in DPR.
3	Change in irrigated area	ha	428	650	562	-88	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	1244	1654	1506	-148	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity						
	Cotton	Kg/ha	654	750	810	60	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Sorghum	Kg/ha	856	1000	1105	105	
6	Area under horticulture	ha	79.45	100	53	-47	Farmers were interested due to higher income.
7	SHG federations formed	No.	0	50	37	-13	Some groups not fulfill the pre-requisite for SHG formation

8	Income	Rs.	35000	62500	65200	2700	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	126	0	14	-14	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	95	130	121	-9	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	35	28	17	-11	Target was not achieved due to lack of fund.
12	Area under vegetation	ha	89.75	125	62	-63	Target not was achieved lack of fund.

Impact Evaluation Summary of IWMP- III, Block- Manvi, Raichur – District (Karnataka)

- 1.** The anticipated increase in ground water table has not been achieved i.e. -1.10 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 1, 2, & 3 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Farm ponds, Check dams and Percolation tanks (PT/MPT (Refer items ,4,5&6 of NRM activity table 1).
- 2.** The “Area under Agriculture Crop” did not increase as expected (actual being 1506 ha against target of 1654 ha) and remained short by 158 ha i.e. 8.94% (Refer Item 4 table 2) due to 39.28% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
- 3.** The increase in irrigated area after implementation of the watershed structure remained 13.54% short than the target (achieved 562 ha against target of 650 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 9 % (achieved 121% against target of 130%) – Refer item 10, table 2. The progress of both these items remained short due to lack of harvested rain water quantity. However, the productivity of cotton and sorghum crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
- 4.** The 53% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not receiving the remunerative price of horticulture produce.
- 5.** The 74% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
- 6.** The household income increased over the expected post-project income of Rs. 62500/Annum by 4.32 % i.e. Rs. 2700/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 68.10, 17.20, 12.40 and 2.30 % respectively.
- 7.** Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
- 8.** The 49.60% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Interacting with SHG Members and Visited the Water Harvesting Structure and of IWMP-III (Manvi)

Name of Project - IWMP-VI

Block - Sindhanur

District - Raichur

State - Karnataka

**Table 1: Activity wise Physical Target and Achievements of IWMP-VI Block-Sindhanur District-
Raichur (Karnataka)**

Sanctioned Amount- 630.00 Lakh

Expenditure- 525.64 Lakh

Expenditure % - 83.43

Total project Area-5250.00 ha

Year of Sanction-29.09.2010

S. No.	Activity	Unit	Target as per DPR	Achievement	% Achievem ent	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1	Afforestation	Ha	803	686	85.43	Non availability of plants
2	Bio-fuel Planting activities taken up	Ha.	201	172	85.57	Farmers not turned up during execution
3	Field Bunds	Mtr.	637978	545280	85.47	Lack of fund
4	Farm ponds	Nos.	2	2	100	Target achieved
5	Check dams/Vented dam	Nos.	2	2	100	Target achieved
6	Percolation tanks (PT/MPT).	Nos.	33	33	100	Target achieved
B	Production Activities					
1	Micro Irrigation(set)	Nos.	4	4	100	Distribution with the coordination of department of argil.
2	Travis Installation	Nos.	10	10	100	Target achieved
3	Animal Health Camp	Nos.	12	12	100	Organized with the coordination of department of A.H
4	Fodder Mini Kits	Nos.	1750	941	53.77	Lack of availability of mini kits.
5	Crop Demonstration	Ha.	225	225	100	Conducted with the coordination of department of argil.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No.	31	31	100	Target of availing Revolving Fund were achieved

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Farm ponds, Check dams and Percolation tanks (PT/MPT) were achieved to the extent of expected outcome.
2. The target of A forestation, Bio-fuel Planting activities and Field Bunds Work was achieved to the extent of 85.43, 85.57and 85.47% respectively. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 5 production activities target of all 4 activities namely, Micro Irrigation, Travis Installation, crop demonstration and Animal Husbandry (Health Camp,) were achieved as per expected outcome.
2. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture
3. The target of Fodder Mini Kits was achieved to the extent of 53.77% only.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were beauty parlor, Dairy farming, Pappad Mfg., Dress Designing for women, Piggery , Sheep & goat rearing, Candle mfg., and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 75% of SHG has been working properly and not repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities. 25% of SHG were not working smoothly and not repaying the loan in time. Out of them 10 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP-VI, Block- Sindhanur, Raichur- District
(Karnataka)**

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	55	50	52.5	-2.50	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired /rejuvenated	No.	0	0	0	0	Not taken in DPR.
3	Change in irrigated area	ha	1240	1595	1421	-174	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	2504	3084	2832	-252	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity	Kg/ha					
	Bengal Gram	Kg/ha	1018	1100	1144	44	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Sorghum	Kg/ha	1200	1300	1386	86	
6	Area under horticulture	ha	93	134	79	-55	Farmers were interested due to higher income.
7	SHG formed	No.	4	54	31	-23	Some groups not fulfill the pre-requisite for SHG formation

8	Income	Rs.	40500	72000	75500	3500	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	125	0	35	-35	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	91	135	125	-10	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	30	20	12	-8	Target was not achieved due to lack of fund.
12	Area under vegetation	ha	117.28	65	41	-24	Targets were not achieved lack of fund.

Impact Evaluation Summary of IWMP- VI, Block- Sindhanur, Raichur- District (Karnataka)

1. The anticipated increase in ground water table has been not achieved i.e. -2.50 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 1, 2, & 3 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Farm ponds, Check dams and Percolation tanks (PT/MPT (Refer items ,4,5&6 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 2832 ha against target of 3084 ha) and remained short by 252 ha i.e. 8.17% (Refer Item 4 table 2) due to 40% less progress on conversion of waste land into agricultural land (Refer Item 1 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 10.90% short than the target (achieved 1421 ha against target of 1595 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10 % (achieved 125% against target of 135%) – Refer item 10, table 2. The progress of both these items remained short due to lack of harvested rain water quantity. However, the productivity of Bengal gram and sorghum crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 58.96% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not receiving the remunerative price of horticulture produce.
5. The 57.40% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs72000/Annum by 4.86 % i.e. Rs3500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 66.40, 18.20, 13.50 and 1.90 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 63% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



Latitude: 15.838166
Longitude: 76.587782
Elevation: 439.0m
Accuracy: 3.2m
Time: 11-05-2019 08:27
Note: WAPCOS central team visit
Percolation tank
vapour village
Sindhanur Taluk
Raichur district

Powered by NoteCam



Latitude: 15.878882
Longitude: 76.597495
Elevation: 442.48m
Accuracy: 3.2m
Time: 11-05-2019 09:56
Note: WAPCOS (Nitiayoga) central team visit
SHG Activity
Hand craft
Hampanal village
Sindhanur Taluk Raichur district

Powered by NoteCam

WAPCOS Experts Visited the SHG Activity and Water Harvesting Structure of IWMP- VI (Sindhanur)

Name of Project - **IWMP-VII**
Block - **Raichur**
District - **Raichur**
State - **Karnataka**

**Table 1: Activity wise Physical Target and Achievements of IWMP-VII, Block- Raichur,
District- Raichur (Karnataka)**

Sanctioned Amount- 682.50 Lakh

Expenditure- 500.84 Lakh

Expenditure % - 73.38

Total project Area-4550.00 ha

Year of Sanction-29.09.2010

S. No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	A forestation (excluding (b))	Ha.	757	506	66.84	Non availability of plants
2	Bio-fuel Planting activities taken up	Ha.	189	149	78.84	Farmers not turned up during execution
3	Field Bunds	Mtr.	693572	540120	77.87	Lack of fund
4	Farm ponds	Nos.	2	2	100	Target achieved
5	Check dams/Vented dam	Nos.	13	13	100	Target achieved
6	Percolation tanks (PT/MPT).	Nos.	1	1	100	Target achieved
B	Production Activities					
1	Micro Irrigation	Nos.	6	4	66.70	Distribution with the coordination of department of argil.
2	Travis Installation	Nos.	11	11	100	Target achieved
3	Animal Health Camp	Nos.	15	15	100	Organized with the coordination of department of A.H
4	Fodder Mini Kits	Nos.	400	360	90	Lack of availability of mini kits.
5	Crop Demonstration	Ha.	325	325	100	Conducted with the coordination of department of argil.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	59	59	100	Target of availing Revolving Fund were achieved.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Farm ponds, Check dams and Percolation tanks (PT/MPT) Were achieved to the extent of expected outcome.
2. The target of A forestation, Bio-fuel Planting activities and Field Bunds Work was achieved to the extent of 66.84, 78.84and 77.87% respectively. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 5 production activities target of all 3 activities namely, Travis Installation, crop demonstration and Animal Husbandry (Health Camp,) were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture
2. The target of Micro Irrigation and Fodder Mini Kits was achieved to the extent of 66.70and 90% respectively.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were beauty parlor, Dairy farming, cycle repairing, Dress Designing for women, Piggery , Sheep & goat rearing, Candle mfg., and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 76% of SHG has been working properly and not repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities. 24% of SHG were not working smoothly and not repaying the loan in time.

**Table 2: Indicator wise impact of sample IWMP-VII, Block- Raichur,
Raichur- District (Karnataka)**

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	37	32	34.1	2.10	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired /rejuvenated	No.	0	0	0	0	Not mention in DPR.
3	Change in irrigated area	ha	552.4	800	709	-91	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	1636	2010	1840	-170	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity						
	Bengal Gram	Kg/ha	920	1050	1141	91	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Tur	Kg/ha	880	955	1052	97	
6	Area under horticulture	ha	88.35	115	61.4	-63.6	Farmers were interested due to higher income.
7	SHG formed	No.	0	70	59	-11	Some groups not fulfill

							the pre-requisite for SHG formation
8	Income	Rs.	33000	52000	56300	4300	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	204	0	78	-78	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	95	130	125	-5	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	51.1	40	23.4	-16.6	Target was not achieved due to lack of fund.
12	Area under vegetation	ha	109.3	45	26.5	-18.50	Target was not achieved due to lack of fund.

Impact Evaluation Summary of IWMP- VII, Block- Raichur, Raichur- District (Karnataka)

1. The anticipate increase in ground water table has been not achieved i.e. -2.10 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 1, 2, & 3 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Farm ponds, Check dams and Percolation tanks (PT/MPT (Refer items ,4,5&6 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 1840 ha against target of 2010 ha) and remained short by170 ha i.e.8.46% (Refer Item 4 table 2) due to 41.50% less progress on conversion of waste land into agricultural land (Refer Item11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 11.37% short than the target (achieved 709 ha against target of 800 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 5 % (achieved 125% against target of 130%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Bengal gram and Tur crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops
4. The 53.40% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 84.28% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs52000/Annum by 8.27 % i.e. Rs. 4300/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 68.20, 16.80, 12.80and 2.20 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 58.90% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Discuss with SHG Members and Visited the Water Harvesting Structure and production activity of IWMP-VII (Raichur)

Name of Project - IWMP-VIII
Block - Lingasugur
District - Raichur
State - Karnataka

**Table 1: Activity wise Physical Target and Achievements of IWMP-VIII, Block-Lingasugur,
District- Raichur (Karnataka)**

Sanctioned Amount- 765.00 Lakh

Expenditure- 502.54 Lakh

Expenditure % - 65.69

Total project Area-5100.00 ha

Year of Sanction-29.09.2010

S. No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1	Afforestation	Ha.	1241	926	74.62	Non availability of plants
2	Bio-fuel Planting activities taken up	Ha.	310	231	74.52	Farmers not turned up during execution
3	Field Bunds	Mtr.	488189	361320	74.01	Lack of fund
4	Farm ponds	Nos.	3	3	100	Target achieved
5	Check dams/Vented dam	Nos.	36	36	100	Target achieved
6	Percolation tanks (PT/MPT).	Nos.	10	0	00	Lack of fund
B	Production Activities					
1.	Micro Irrigation	Nos.	5	5	100	Distribution with the coordination of department of argil.
2.	Travis Installation	Nos.	12	12	100.00	Target achieved
3.	Animal Health Camp	Nos.	16	16	100	Organized with the coordination of department of A.H
4.	Fodder Mini Kits	Nos.	620	580	93.54	Lack of availability of mini kits.
5.	Crop Demonstration	Ha.	245	245	100	Conducted with the coordination of department of argil.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No.	49	49	100	Target of availing Revolving Fund were achieved

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Farm ponds and Check dams were achieved to the extent of expected outcome.
2. The target of A forestation, Bio-fuel Planting activities and Field Bunds Work was achieved to the extent of 74.62, 74.52and 74.01% respectively.
3. The work of Percolation tanks has remained unattended. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 5 production activities target of all 4 activities namely, Travis Installation, crop demonstration and Animal Husbandry (Health Camp,) were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture
2. The target of Fodder Mini Kits was achieved to the extent of 93.54% only.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were beauty parlor, Dairy farming, cycle repairing, Dress Designing for women, Piggery , Sheep & goat rearing, Candle mfg., and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 83% of SHG has been working properly and repaying the loan in time to SHG. SHG were distributed the fund with in group members for further livelihood activities. 17% of SHG were not working smoothly and not repaying the loan in time.

**Table 2: Indicator wise impact of sample IWMP-VIII, Block-Lingasugur, Raichur- District
(Karnataka)**

S. No.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	31	27	29	-2	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	0	0	0	Not taken in DPR.
3	Change in irrigated area	Ha.	638	980	876.5	-103.5	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	Ha.	2032	2550	2360	-190	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity						Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Tur	Kg/ha	1270	1350	1410	60	
	Sunflower	Kg/ha	805	950	1024	74	
	Groundnut	Kg/ha	1200	1300	1352	52	

	Sorghum	Kg/ha	1200	1500	1540	40	
6	Area under horticulture	Ha.	79.3	95	45	-50	Farmers were interested due to higher income.
7	SHG federations formed	No.	0	65	49	-16	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	31000	50000	54100	4100	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	233	0	64	-64	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	85	130	120	-10	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	68	36	21.5	-14.50	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	70.4	50	28	-22	Target was not achieved due to lack of fund.

Impact Evaluation Summary of IWMP- VIII, Block-Lingasugur, Raichur- District (Karnataka)

- 1.** The anticipate increase in ground water table has been not achieved i.e. -2.00 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item1, 2, 3&6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Farm ponds and Check dams (Refer items 4&5 of NRM activity table 1).
- 2.** The “Area under Agriculture Crop” did not increase as expected (actual being 2360 ha against target of2550 ha) and remained short by190 ha i.e.7.45% (Refer Item 4 table 2) due to40.30% less progress on conversion of waste land into agricultural land (Refer Item11 table 2).
- 3.** The increase in irrigated area after implementation of the watershed structure remained 10.56% short than the target (achieved 876.5 ha against target of 980 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10 % (achieved 120% against target of 130%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Tur, sunflower, sorghum and ground nut crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
- 4.** The 47.37% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
- 5.** The 75.38% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
- 6.** The household income increased over the expected post-project income of Rs50000/Annum by 8.20 % i.e. Rs 4100/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 66.40, 18.20, 13.10and 2.30 % respectively.
- 7.** Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
- 8.** The 56% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Discuss with SHG Members and visited the Water Harvesting Structure of IWMP-VIII (Lingasugur)

Name of Project - **IWMP-I**
Block - **Shimoga**
District - **Shimoga**
State - **Karnataka**

**Table 1: Activity wise Physical Target and Achievements of
IWMP-I, Block- Shimoga, District- Shimoga (Karnataka)**

Sanctioned Amount-691.800 Lakhs

Expenditure- 636.41 Lakhs

Expenditure % - 92

Total project Area- 4612.00 ha

Year of Sanction- 2009-10

S. No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Field Bund & waste weir	Ha.	268	268	100	Target were achieved
2	Check Dams	Nos.	15	15	100	
3	Vented Dam	Nos.	2	2	100	
4	Farm Pond	Nos.	30	30	100	
5	Gokatte	Nos.	10	10	100	
7	Nala Bunds	Nos.	6	6	100	
8	Contour/Field Bund	Ha.	1623	269	16.57	Farmers not turned up during execution
9	Water ways	Mtr.	40000	15463	38.66	Lack of fund
10	Rubble Checks	Nos.	600	277	46.16	Lack of fund Target
B	Production Activities					
1	Fodder Development	Ha.	6	6	100	Organized with the coordination of department of A.H
2	Micro irrigation system	Nos.	100	77	77	Farmers not turned up during execution
3	Apiculture/Bee keeping	Nos.	2	2	100	Target achieved
4	Fodder Mini Kits	Nos.	1200	1200	100	Target achieved
5	Animal Health Camps	Nos.	10	10	100	Organized with the coordination of department of A.H
6	Fish production tanks	Nos.	12	9	75	Organized with the coordination of department of fishery
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	Nos.	36	36	100	Target of availing Revolving Fund were achieved

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Field Bund & waste weir, Check Dams, Vented Dam, Farm ponds, Gokatte and Nala Bunds Were achieved to the extent of expected outcome.
2. The target of Contour/Field Bund, Water ways and Rubble Checks work were achieved to the extent of 16.57,38. 66 and 46.16% respectively. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of 4 activities namely, Fodder Development, Apiculture/Bee keeping, Fodder Mini Kits, and Animal Husbandry (Health Camp,) were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.
2. The target of Micro irrigation system and Fish production tanks was achieved to the extent of 77and75% respectively.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were Dairy farming, cycle repairing, Dress Designing for women, Piggery, Sheep & goat rearing, Candle mfg., and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 84% of SHG has been working properly and not repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities.

**Table 2: Indicator wise impact of sample IWMP-I, Block-Shimoga in District-Shimoga
(Karnataka)**

S. No.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	Mtr.	85	80.50	82	-1.50	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired /rejuvenated	No.	0	4	2	-2	Lack of fund.
3	Change in irrigated area	Ha.	195.45	392	329	-63	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	Ha.	1693.7	2188	2068	-120	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity	kg/ha					
	Maize	kg/ha	2420	2510	2547	37	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Ragi	kg/ha	1200	1300	1400	100	
	Paddy	kg/ha	3600	3800	3860	60	
	Pulses	kg/ha	750	850	920	70	
6	Area under horticulture	Ha.	20	120	72	-42	Farmers were interested due to higher income.
7	SHG formed	No.	0	50	36	-14	Some groups not fulfill the

							pre-requisite for SHG formation
8	Income	Rs.	22000	40000	43500	3500	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	659	200	241	-41	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	112	135	130	-5	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	403.52	130	87	-43	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	209	45	24	-21	Target was not achieved due to lack of fund.

Impact Evaluation Summary of IWMP- I, Block- Shimoga in District-Shimoga (Karnataka)

1. The anticipate increase in ground water table has been not achieved i.e. -1.50 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 8, 9&10 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Field Bund & waste weir, Check Dams, Vented Dam, Farm ponds, Gokatte and Nala Bunds (Refer items 1, 2, 3, 4, 5, 6&7 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 2068 ha against target of 2188 ha) and remained short by 120 ha i.e. 5.48% (Refer Item 4 table 2) due to 33.10 less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 16.10% short than the target (achieved 329 ha against target of 392 ha) – (Refer item 3, table 2). Similarly cropping intensity remained short by 5 % (achieved 130% against target of 135%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Maize, Ragi, paddy and pulses crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops
4. The 60% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 72% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs40000/Annum by 8.75 % i.e. Rs 3500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 67.80, 17.10, 12.70 and 2.40 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 53.30% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts visited the Production Activity and Water Harvesting Structure of IWMP-I (Shimoga)

Name of Project - IWMP-II
Block - Shimoga
District - Shimoga
State - Karnataka

**Table 1: Activity wise Physical Target and Achievements of IWMP-II,
Block- Thirthahalli, District- Shimoga (Karnataka)**

Sanctioned Amount- 573.6 Lakhs,
Expenditure % - 87

Expenditure- 497.225 Lakhs
Total project Area- ha

Year of Sanction- 2009-10

S. No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Vented Dam	Nos.	55	51	93	Lack of fund
2	Gokatte	Nos.	25	22	88	Lack of fund
3	Nala Bunds	Nos.	1	1	100	Target were achieved
4	Water ways	Mtr.	2601	2601	100	Target were achieved
5	Farm Pond	Nos.	30	30	100	Target were achieved
6	Forestry	Ha	171.01	171.01	100	Target were achieved
7	Diversion Channel	Rmtr	10000	3975	39.8	Farmers not turned up during execution.
8	Field Bund & waste weir	Ha.	180	180	100	Target were achieved
B	Production Activities					
1	Fodder Development	Ha	5	1	20	Organized with the coordination of department of A.H
2	Micro irrigation sytem	Nos.	10	10	100	Target were achieved
3	Apiculture/Bee keeping	Nos.	25	15	60	Farmers not turned up during execution
4	Distribution of Vegetable kits	Nos.	550	550	100	Target were achieved
5	Animal Health Camps	Nos.	20	20	100	Organized with the coordination of department of A.H
6	Fodder kits	Nos.	500	500	100	Organized with the

						coordination of department of A.H
7	Fish production in tanks	Nos.	6	4	66.70	Organized with the coordination of department of fishery
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	18	18	100	Target of availing Revolving Fund were achieved

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Nala Bunds, Water ways, Forestry, farm pond and Field Bund & waste weir were achieved to the extent of expected outcome.
2. The target of Vented Dam, Gokatte and Diversion Channel were achieved to the extent of 93, 88 and 39.80% respectively. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 7 production activities target of 4 activities namely, Micro irrigation system, Distribution of Vegetable kits, Fodder Mini Kits, and Animal Husbandry (Health Camp,) were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture
2. The target of Fodder Development, Apiculture/Bee keeping and Fish production tanks was achieved to the extent of 20, 60 and 66.70% respectively. Expected outcome were not achieved due to lack of fund and Farmers not turned up during execution.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were Dairy farming, cycle repairing, Dress designing for women, Piggery, Sheep & goat rearing, Candle mfg., and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 80% of SHG has been working properly and not repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities for further livelihood activities.

Table 2: Indicator wise impact of sample IWMP-II Block-Thirthahalli in District-Shimoga (Karnataka)

S. No.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	Mtr.	75	70	73	-3	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	1	0	-1	Lack of fund.
3	Change in irrigated area	Ha.	296	469	393	-76	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	Ha.	1949.6	2230	2105	-125	Expected outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity	Kg/ha.					
	Maize	Kg/ha.	2450	2500	2560	60	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Ragi	Kg/ha.	1210	1300	1380	80	
	Paddy	Kg/ha.	3500	3700	3745	45	
	Pulses	Kg/ha.	800	900	950	50	
6	Area under horticulture	Ha.	62	140	93	-47	Farmers were interested due to higher income.
7	SHG formed	No.	2	30	18	-12	Some groups not fulfill the pre-requisite for SHG formation

8	Income	Rs.	27500	45500	50800	5300	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	250	0	80	-80	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	100	130	120	-10	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	267.91	140	87	-53	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	124	75	51	-24	Target was not achieved due to lack of fund.

Impact Evaluation Summary of IWMP- II Block-Thirtahalli in District-Shimoga (Karnataka)

1. The anticipate increase in ground water table has been not achieved i.e. -3.00 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 1, 2, &7 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Nala Bunds, Water ways, Forestry, farm pond and Field Bund & waste weir (Refer items 3, 4, 5, 6& 8 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 2105 ha against target of 2230 ha) and remained short by125 ha i.e.5.60% (Refer Item 4 table 2) due to 37.86 less progress on conversion of waste land into agricultural land (Refer Item11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 16.20% short than the target (achieved 393 ha against target of 469 ha) –(Refer item 3, table 2). Similarly cropping intensity remained short by 10 % (achieved 120% against target of 130%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Maize, ragi, paddy and pulses crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops
4. The 66.42% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 60% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs45500/Annum by 11.64 % i.e. Rs 5300/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 65.70, 18.60, 13.50 and 2.20 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 68.00% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield



WAPCOS Experts visited the NRM and Production Activity of IWMP-II (Thirthahalli)

Name of Project - IWMP-III

Block - Thirthahalli

District - Shimoga

State - Karnataka

**Table 1: Activity wise Physical Target and Achievements of IWMP-III, Block-Thirthahalli,
District- Shimoga (Karnataka)**

Sanctioned Amount- 531.75 Lakhs,

Expenditure- 429.067 Lakhs

Expenditure % - 81

Total project Area- 3545 Ha.

Year of Sanction- 2009-10

S. No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1	Check Dams	Nos.	3	2	67	Lack of fund
2	Vented Dam	Nos.	20	20	100	Target were achieved
3	Farm Pond	Nos.	155	155	100	Target were achieved
4	Gokatte	Nos.	14	14	100	Target were achieved
5	Nala Bunds	Nos.	3	3	100	Lack of fund
6	Water ways	Mtr.	350	314	90	Farmers not turned up during execution
7	Diversion Channel	Mtr.	18980	14980	78.92	Farmers not turned up during execution
8	Rubble Check	Nos.	2	2	100	Target were achieved
B	Production Activities					
1	Fodder Development	Ha.	6	6	100	Organized with the coordination of department of A.H
2	Micro Irrigation System	Nos.	18	10	55.60	Lack of fund
3	Apiculture/Bee keeping	Nos.	20	12	60	Farmers not turned up during execution
4	Animal Health Camps	Nos.	15	15	100	Target were achieved
5	Installation of Trevis	Nos.	28	28	100	Organized with the coordination of department of A.H

6	Distribution of Vegetable kits	Nos.	250	250	100	Organized with the coordination of department of Horticulture.
7	Fodder kits	Nos.	1956	1956	100	Organized with the coordination of department of A.H.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	22	22	100	Target of availing Revolving Fund were achieved.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Vented Dam, farm pond, Gokatte, Nala Bunds, and Rubble Check were achieved to the extent of expected outcome.
2. The target of Check Dams, Water ways and Diversion Channel were achieved to the extent of 67, 90 and 78.92% respectively. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 7 production activities target of 5 activities namely, Fodder Development, Installation of Travis Distribution of Vegetable kits, Fodder Mini Kits, and Animal Husbandry (Health Camp,) were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.
2. The target of Micro irrigation system and Apiculture/Bee keeping was achieved to the extent of 55.60 and 60% respectively.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were Dairy farming, cycle repairing, Dress designing for women, Piggery, Sheep & goat rearing, Candle mfg., and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 83% of SHG has been working properly and not repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities for further livelihood activities.

**Table 2: Indicator wise impact of sample IWMP-III, Block-Thirthahalli in District-Shimoga
(Karnataka)**

S. no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	74	70	72	-2.00	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	5	0	0	Lack of fund.
3	Change in irrigated area	ha	199.75	450	394	-56	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	1767.53	2030	1948	-82	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity	Kg/ha.					
	Maize	Kg/ha.	2470	2550	2600	50	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Ragi	Kg/ha.	1240	1310	1300	90	
	Paddy	Kg/ha.	3400	3505	3607	98	
	Pulses	Kg/ha.	810	900	945	45	
6	Area under horticulture	ha	97	132	76	-54	Farmers were interested due to higher income.
7	SHG formed	No.	4	40	22	-18	Some groups not fulfill the

							pre-requisite for SHG formation
8	Income	Rs.	38000	55000	60100	5100	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	223	0	62	-62	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	100	135	130	-5	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	353.51	140	87	-53	Target was not achieved due to lack of fund.
12	Area under vegetation	ha	79	60	37	-23	Target was not achieved due to lack of fund.

Impact Evaluation Summary of IWMP- III Block-Thirthahalli in District-Shimoga (Karnataka)

1. The anticipate increase in ground water table has been not achieved i.e. -2.00 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 1,6&7 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Vented Dam, farm pond, Gokatte, Nala Bunds, and Rubble Check (Refer items 2, 3, 4, 5& 8 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 1948 ha against target of 2030 ha) and remained short by 82 ha i.e. 4.10% (Refer Item 4 table 2) due to 37.85 less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 12.44% short than the target (achieved 394 ha against target of 450 ha) – (Refer item 3, table 2). Similarly cropping intensity remained short by 5 % (achieved 130% against target of 135%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Maize, ragi, paddy and pulses crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops
4. The 57.60% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 55.00% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 55000/Annum by 9.27 % i.e. Rs 5100/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 67.50, 17.80, 12.20 and 2.50 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 61.70% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield



WAPCOS Experts Visited the Production Activity and Water Harvesting Structure of IWMP- III (Thirthahalli)

Name of Project	- IWMP-XI
Block	- Shimoga
District	- Shimoga
State	- Karnataka

Table 1: Activity wise Physical Target and Achievements of IWMP-) XI Block- Shimoga, District- Shimoga (Karnataka)

Sanctioned Amount- 451.50 Lakhs,
Expenditure % - 94

Expenditure- 423.539 Lakhs
Total project Area- 3010 ha

Year of Sanction- 2010-1

S. No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1	Check Dams	Nos.	2	2	100	Target were achieved
2	Vented Dam	Nos.	15	15	100	Target were achieved
3	Farm Pond	Nos.	133	133	100	Target were achieved
4	Gokatte	Nos.	1	1	100	Target were achieved
5	Nala Bunds	Nos.	11	11	100	Target were achieved
6	Forestry	Ha.	293	119.50	41	Farmers not turned up during execution
7	Diversion Channel	Mtr.	92789	80465	86.71	Farmers not turned up during execution
8	Nala training with Revt.	Mtr.	350	216	61.71	Lack of fund
B	Production Activities					
1	Fodder Development	Ha.	12	12	100	Organized with the coordination of department of A.H
2	Micro irrigation system	Nos.	23	18	78.26	Lack of fund
3	Distribution of Vegetable kits	Nos.	500	500	100	Farmers not turned up during execution
4	Animal Health Camps	Nos.	8	8	100	Target were achieved
5	Installation of Trevis	Nos.	10	10	100	Organized with the coordination of department of A.H
6	Fodder kits	Nos.	850	710	83.52	Farmers not turned up during execution
7	Model cattle shed	Nos.	3	3	100	Organized with the coordination of department of A.H
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	Nos.	32	32	100	Target of availing Revolving Fund were achieved

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Check Dams, Vented Dam, farm pond, Gokatte and Nala Bund were achieved to the extent of expected outcome.
2. The target of Forestry, Diversion Channel and Nala training with Revt. Were achieved to the extent of 41, 86.71 and 61.71% respectively.
3. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 7 production activities target of 5 activities namely, Fodder Development, Installation of Travis Distribution of Vegetable kits, Fodder Mini Kits, and Animal Husbandry (Health Camp,) were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture
2. The target of Micro irrigation system and Fodder kits was achieved to the extent of 78.26and 83.52% respectively.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were Dairy farming, cycle repairing, Dress designing for women, Piggery, Sheep & goat rearing, Candle mfg., and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 83% of SHG has been working properly and not repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities for further livelihood activities.

**Table 2: Indicator wise impact of sample IWMP- XI Block- Shimoga, District- Shimoga
(Karnataka)**

S. No.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	mtr.	83	71.5	73	1.5	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	2	0	0	Lack of fund.
3	Change in irrigated area	ha	204.50	510	456	-54	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	1585.9	1974	1877	-97	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity	Kg/ha					
	Maize	Kg/ha	2478	2550	2610	60	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Ragi	Kg/ha	1230	1310	1350	40	
	Paddy	Kg/ha	3420	3515	3610	95	
	Pulses	Kg/ha	840	900	965	65	
6	Area under horticulture	ha	254	145	76	-69	Farmers were interested due to higher income.
7	SHG formed	No.	0	55	32	-23	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	35000	60000	63200	3200	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and

							livelihood activities
9	Migration	No.	572	200	265	-65	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	100	130	121	-9	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	232.12	153	97	-56	Target was not achieved due to lack of fund.
12	Area under vegetation	ha	132	60	25	-35	Target was not achieved due to lack of fund.

Impact Evaluation Summary of IWMP-XI, Block-Shimoga in District-Shimoga (Karnataka)

1. The anticipate increase in ground water table has been not achieved i.e. -1.50 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 6,7&8 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Check Dams, Vented Dam, farm pond, Gokatte and Nala Bund (Refer items 1,2, 3, 4, & 5 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 1877 ha against target of 1974 ha) and remained short by 82 ha i.e. 4.91% (Refer Item 4 table 2) due to 36.60 less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 10.60% short than the target (achieved 456 ha against target of 510 ha) – (Refer item 3, table 2). Similarly cropping intensity remained short by 9 % (achieved 121% against target of 130%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Maize, ragi, paddy and pulses crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops
4. The 52.41% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 58.20% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 60000/Annum by 5.33 % i.e. Rs 3200/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 66.70, 17.20, 13.40 and 2.70 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 41.70% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the Production Activity and Water Harvesting Structure of IWMP-XI (Shimoga)

Name of Project - **IWMP-XII**
Block - **Sagara**
District - **Shimoga**
State - **Karnataka**

**Table 1: Activity wise Physical Target and Achievements of IWMP-XII Block- Sagara,
District- Shimoga (Karnataka)**

Sanctioned Amount- 456.0 Lakhs,
Expenditure % - 96
Year of Sanction- 2010-11

Expenditure- 439.631 Lakhs
Total project Area- 3040 ha

S. No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1	Vented Dam	Nos.	19	19	100	Target were achieved
2	Gokatte	Nos.	30	30	100	Target were achieved
3	Forestry	Ha	733	507.95	69.30	Farmers not turned up during execution
4	Diversion Channel	Mtr.	19489	15490	79.40	Farmers not turned up during execution
5	Field bund	Ha.	37	37	100	Target were achieved
6	Nala training with Revt.	Mtr.	478.5	412	86	Lack of fund
7	Farm pond	No.	6	6	100	Target were achieved
B	Production Activities					
1	Micro irrigation system	Nos.	113	113	100	Organized with the coordination of department of Agriculture
2	Apiculture/Bee keeping	Nos.	15	10	66.70	Farmers were not interested due to migration of bee box.
3	Distribution of Vegetable kits	Nos.	500	500	100	Distributed with the coordination of department of horticulture.
4	Animal Health Camps	Nos.	8	8	100	Target were achieved
5	Installation of Trevis	Nos.	8	8	100	Organized with the coordination of department of A.H
6	Silage pits	Nos.	4	2	50	Farmers not turned up during execution
7	Fodder kits	Nos.	350	350	100	Organized with the coordination of department of A.H
8	Fish production in tanks	Nos.	5	5	100	Organized with the coordination of department of fishery.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	16	16	100	Target of availing Revolving Fund were achieved

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Vented Dam, Gokatte, field bund, and farm pond were achieved to the extent of expected outcome.
2. The target of Forestry, Diversion Channel and Nala training with Revt. Were achieved to the extent of 69.30, 79.40 and 86% respectively. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 8 production activities target of activities namely, Micro irrigation system, Distribution of Vegetable kits, Animal Health Camps, Installation of Travis, Fodder Mini Kits, and Fish production in tanks were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of Agriculture, A.H etc.
2. The target of Apiculture/Bee keeping and Silage pits was achieved to the extent of 66.70and 50% respectively.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were Dairy farming, cycle repairing, Dress designing for women, fishery, beekeeping, Sheep & goat rearing, Candle mfg., and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 78% of SHG has been working properly and not repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities for further livelihood activities.22% of SHG were inactive and not reaping the loan.

**Table 2: Indicator wise impact of sample IWMP-XII, Block-Sagara in District-Shimoga
(Karnataka)**

S. No.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	80	75	78	2	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired /rejuvenated	No.	0	0	0	0	Not taken in DPR.
3	Change in irrigated area	ha	319.25	550	460	-90	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	1534.1	1865	1756	-109	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity	Kg/ha.					
	Maize	Kg/ha.	2460	2500	2561	61	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Ragi	Kg/ha.	1200	1300	1360	60	
	Paddy	Kg/ha.	3460	3540	3595	55	
	Pulses	Kg/ha.	864	925	972	47	
6	Area under horticulture	ha	125	130	75	-55	Farmers were interested due to higher income.
7	SHG formed	No.	0	25	16	-9	Some groups not fulfill the pre-requisite for SHG formation

8	Income	Rs.	26000	51000	54200	3200	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities.
9	Migration	No.	309	50	75	-25	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	100	135	125	-10	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	285.3	106.25	149.05	-42.80	Target was not achieved due to lack of fund.
12	Area under vegetation	ha	215.20	65	42	-23	Target was not achieved due to lack of fund.

Impact Evaluation Summary of IWMP- XII, Block- Sagara in District- Shimoga (Karnataka)

1. The anticipate increase in ground water table has been not achieved i.e. -2.00 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 3,4&6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Vented Dam, Gokatte, field bund, and farm pond (Refer items 1,2, 5&7 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 1756 ha against target of 1865 ha) and remained short by 109 ha i.e. 5.84% (Refer Item 4 table 2) due to 40.28 less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 16.36% short than the target (achieved 460 ha against target of 550 ha) – (Refer item 3, table 2). Similarly cropping intensity remained short by 10 % (achieved 125% against target of 135%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Maize, ragi, paddy and pulses crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops
4. The 57.70% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 64.00% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 51000/Annum by 6.27 % i.e. Rs. 3200/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 66.50, 17.60, 13.70 and 2.20 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 64.60% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the Water Harvesting Structure and Discuss with Farmers of IWMP-XII (Sagara)

Name of Project	- IWMP-XIII
Block	- Thirthahalli
District	- Shimoga
State	- Karnataka

**Table 1: Activity wise Physical Target and Achievements of IWMP-XIII, Block- Thirthahalli,
District- Shimoga (Karnataka)**

Sanctioned Amount- 450.00 Laths,

Expenditure- 413.55 Laths

Expenditure % - 92

Total project Area- 3000 ha

Year of Sanction- 2010-11

S. No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1	Vented Dam	Nos.	22	22	100	Target were achieved
2	Gokatte	Nos.	19	19	100	Target were achieved
3	Farm pond	Nos.	7	7	100	
4	Water ways	Mtr.	2600	2109	81.10	Farmers not turned up during execution
5	Forestry	Ha.	552	363	66	Farmers not turned up during execution
6	Diversion Channel	Mtr.	34814	25371	73	Some farmer were not interested
7	Field bund	Ha.	30	30	100	Target were achieved
8	Nala training with Revt.	Rmtr	13898	12140	87	Target were achieved due to lack of fund
B	Production Activities					
1	Fodder Development	Ha.	3	3	100	Organized with the coordination of department of Agriculture
2	Micro irrigation system	Nos.	15	15	100	Target were achieved
3	Apiculture/Bee keeping	Nos.	80	18	22.50	Farmers were not interested due to migration of bee box.
4	Distribution of Vegetable kits	Nos.	300	250	83	Target were not achieved
5	Animal Health Camps	Nos.	10	10	100	Organized with the coordination of department of A.H
6	Installation of Trevis	Nos.	12	12	100	Organized with the coordination of department of A.H
7	Fodder kits	Nos.	1020	1020	100	Organized with the coordination of department of A.H
8	Azolla production	Nos.	40	40	100	Organized with the coordination of department of fishery.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	16	16	100	Target of availing Revolving Fund were achieved.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Vented Dam, Gokatte, farm pond, and Field bund were achieved to the extent of expected outcome.
2. The target of Water ways, Forestry, Diversion Channel and Nala training with Revt. were achieved to the extent of 81.10,66,73 and 87% respectively.

All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 8 production activities target of 6 activities namely, Fodder Development, Micro irrigation system, Animal Husbandry (Health Camp), Installation of Travis, Fodder Mini Kits, and Azolla production were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.
2. The target of Apiculture/Bee keeping and Distribution of Vegetable kits was achieved to the extent of 22.50 and 83% respectively.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were beekeeping, Dairy farming, cycle repairing, Dress designing for women, Sheep & goat rearing, and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 84% of SHG has been working properly and not repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities. Other 16% of SHG were not working condition and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP- XIII Block- Thirthahalli,
District- Shimoga (Karnataka)**

S. No.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	72	68	70	-2.00	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	3	0	-3	Lack of fund.
3	Change in irrigated area	Ha.	284	530	442	-88	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	1480.14	1820	1721.50	-98.50	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity	Kg/ha					
	Maize	Kg/ha.	2460	2500	2561	61	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Ragi	Kg/ha.	1200	1300	1360	60	
	Paddy	Kg/ha.	3460	3540	3595	55	
	Pulses	Kg/ha.	864	925	972	47	
6	Area under horticulture	ha	276	145	84	-64	Farmers were interested due to higher income.

7	SHG formed	No.	1	30	16	-14	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	38000	60500	63700	3200	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	230	0	43	-43	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	100	135	125	-10	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	505.31	191.75	106	-85.75	Target was not achieved due to lack of fund.
12	Area under vegetation	ha	59.3	121	55.7	-65.30	Target was not achieved due to lack of fund.

Impact Evaluation Summary of IWMP- XIII, Block- Thirthahalli, District- Himoga (Karnataka)

1. The anticipate increase in ground water table has been not achieved i.e. -2.00 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 4, 5, 6&8 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Vented Dam, Gokatte, farm pond, and Field bund (Refer items 1, 2, 3&7 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 1721.50 ha against target of 1820 ha) and remained short by 98.50 ha i.e. 5.41% (Refer Item 4 table 2) due to 44.72 less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 16.60% short than the target (achieved 442 ha against target of 530 ha) – (Refer item 3, table 2). Similarly cropping intensity remained short by 10 % (achieved 125% against target of 135%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Maize, Ragi, paddy and pulses crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 44.20% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 53.30% of the expected outcome of SHG formation has been achieved to implement the Livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs. 60500/Annum by 5.30 % i.e. Rs. 3200/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 68.10, 17.60, 12.40 and 1.90 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 46.03% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the Water Harvesting Structure of IWMP- XIII (Thirthahalli)

IMPACT EVALUATION OF SAMPLE IWMP PROJECTS OF – KERELA

The Impact Evaluation of IWMP Projects has been carried out on the basis of following criteria:

1. Comparing the activity wise Physical Achievement vis-à-vis Target as per DPR (Refer Table1).
2. Comparing the Indicator wise impact with the expected out come after completion of the project as per DPR (Refer Table2).
3. Impact Evaluation Summary

Name of Project - IWMP-I

Block - Kodakara

District - Thrissur

State - Kerala

Table 1: Activity wise Physical Target and Achievements of IWMP- I, Block – Kodakara, District – Thrissur, State – Kerala

Sanctioned Amount- Rs. 685.44 Lakh

Expenditure- Rs 214.04 Lakh

Expenditure - 31.23 %

Total project Area- 5712 Ha

Year of Sanction- 2010 -11

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1.	New sluice	Nos.	15	0	0	Insufficient fund
2.	canal side wall protection	Nos.	12	1	8.3	Encroachment problem
3.	Farm Ponds	Nos.	9	1	11	Insufficient fund
4.	Construction of Check dam	Nos.	3	3	100	Completely achieved
5.	Biogas plant	Nos.	20	14	70	Target achieved through Wichita mission
6.	Rain Water Harvesting Structure	Nos.	763	704	92.26	Target not achieved due lack of fund
7.	Earthen Bund	Ha.	10	10	100	Lack of fund
8.	Staggered Trench	Nos.	150	0	0	Lack of fund
9.	Well recharge	Nos.	10	8	80	Insufficient fund
B	Production Activities					
1.	Crop demonstration	Nos.	40	40	100	With coordination with department of agriculture department.
2.	Social Forestry	Ha.	194.35	190.70	98.12	Remaining target listed to MGNREGS
3.	Fodder Plantation	Ha	268.63	10.94	7.42	Remaining target listed to Dairy dept
4.	Homestead Plantation	Nos.	45000	39848	88.5	With coordination with department of horticulture.
C	Livelihood Systems					
1.	Revolving Fund to SHG for livelihood action plan.	Nos	45	39	86.7	groups were not Fulfilling the pre-requisite for availing Revolving Fund.
2.	Revolving Fund to individual Entrepreneurs for livelihood plan.	No.	30	15	50	Individuals were not Interested not fulfilling the pre-requisite for availing evolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Check dam, farm pond, check dam and Earthen Bund were achieved to the extent of outcome.
2. The target of canal side wall protection, farm pond, Biogas plant, Rain Water Harvesting Structure and Well recharge work was achieved to the extent of 8.30, 11, 70, 92.26 and 80% respectively. The work of new sluice and Staggered Trench has remained unattended due to lack of fund.
3. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 4 production activities target of all 4 activities namely, crop demonstration, Social Forestry, Fodder Plantation and Homestead Plantation deer varieties were achieved to the extent of 100,98.127.42 and 88.50% respectively.
2. The main reason for not achieving the target were non availability of fund, villager's interest and lack of convergence with concern department i.e. Department of horticulture etc.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 86.70% of SHG and 50 % fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were Mobil repairing, banana product, coconut product , motorcycle repairing work, , agro-service Centre,, tailoring, Grocery shop, papad making work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 78% of SHG has been working properly and repaying the loan in time. 22% of SHG were not working smoothly and not repaying the loan in time. Out of them 8 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP I, Block- Kodakara, District- Thrissur, State- Kerala

S.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1.	Status of water table (Depth to Ground water level)	meters	8.68	6.85	7.76	-0.91	As the target of water harvesting structures were not achieved; the Water table not increased up to the expected post project stage; Actual status of water table drawn from data received from farmers at the time of expert visit.
2.	Ground water structures repaired/ rejuvenated	No.	10	10	8	-2	Well Recharged;
3.	Change in irrigated area	Ha.	1415.7	1800	1609	-191	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4.	Area under agriculture crop	Ha.	1953	2250	2147	-103	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5.	Crop productivity	Kg/ha					
	Paddy (All season av.)	Kg/ha	2700	3000	3147	147	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Coconut	nuts/ha	6110	6211	6314	103	
	Banana	Kg/ha	6010	6500	6820	320	
	Areca nut	Kg/ha	1040	1150	1204	104	
6.	Area under horticulture	Ha.	74	200	170.50	-29.50	Farmers were interested due to higher income.
7.	SHG formed	No.	0	110	77	-33	Some groups not fulfill the pre-requisite for SHG formation

8.	Income	Rs.	36000	65500	71200	5700	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9.	Migration	No.	132	0	30	-30	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10.	Cropping intensity	%	100	125	112	-13	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11.	Waste land development	Ha.	52	40	19	-21	Target was not achieved due to lack of fund.
12.	Area under vegetation	Ha.	140	200	200	0	The villagers were interested so, target of vegetation was achieved.

Impact Evaluation Summary of IWMP- I, Block- Kodakara, District- Thrissur, State- Kerala

1. The anticipate increase in ground water table has been not achieved i.e. -0.91 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure partially/not constructed (Refer item 1, 2, 3, 5 &8 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like; Check dam and Earthen Bund (Refer items 4 &7 of NRM activity table1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 2147ha against target of 2250 ha) and remained short by 103 ha i.e.4.58% (Refer Item 4 table 2) due to 52.50% less progress on conversion of waste land into agricultural land (Refer Item11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 10.61% short than the target (achieved 1609 ha against target of 1800 ha) – Refer item 3, table 2). Similarly cropping intensity remained short by 13% (achieved 112% against target of 125%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of paddy, coconut, banana and Areca nut crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 85.25% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 70% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs. 65500/Annum by 8.70 % i.e. Rs. 5700/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 69.10, 16.70, 12.50and 1.70 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The expected outcome of Area under vegetation has been achieved to check the runoff water and to retain the soil moisture for the use of crop yield.



WAPCOS Experts Visited the Water Harvesting Structure of IWMP-I (Thrissur)

Name of Project - IWMP-I

Block - Vamanapuram

District - Thiruvananthapuram

State - Kerala

Table 1: Activity wise Physical Target and Achievements of IWMP I Block – Vamanapuram District – Thiruvananthapuram State - Kerala

Sanctioned Amount- Rs. 1123.80 Lakh

Expenditure- Rs. 383.10 Lakh

Expenditure – 34.09 %

Total project Area- 7452 Ha.

Year of Sanction- 2010 -11

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty.	Phy.	Phy.	
A.	Natural Resource Management					
1.	Ground water recharge structure (well recharge)	Nos.	250	278	100	Target were achieved
2.	Others (M.C. Pit, Drinking water schemes, trenches etc)	Nos.	985	45	4.57	Shortage of funds the remains works not completed
3.	Pond	Nos.	32	13	40.62	Shortage of funds the remains works not completed
4.	Check dam	Nos.	16	16	100	Target were achieved
5.	WHS recharge structure renovation	Nos.	559	459	82.11	Shortage of funds the remains works not completed
6.	Other Water harvesting structure (dugout pond, Spring protection, drinking water schemes etc.)	Nos.	1086	25	2.3	Shortage of funds and remains works undertaken through convergence with MGNREGA
7.	Earthen bund	Ha	45	0	0	Shortage of funds and remains works undertaken through convergence with MGNREGA
8.	Bench terracing	Ha	42	5	11.90	Shortage of funds and remains works undertaken through convergence with MGNREGA
B.	Production Activities					
1.	Plantation (rubber plant)	Ha	153.21	43	28.07	Remaining area under Rubber plantation by farmers themselves.

2.	Social Forestry	Ha.	1.28	1.28	100	Only 1.28ha. land were provided by gram sabha.
3.	Crop demonstration	No.	50	50	100	With coordination with department of agriculture department.
4.	Animal health camp	No.	14	10	71.42	With coordination with department of A.H.
B.	Livelihood Systems					
1.	Revolving Fund to SHG for livelihood action plan.	No.	53	51	96.20	The other groups were not Fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Ground water recharge structure and Check dam structure were achieved as per expected outcome.
2. The target of M.C. Pit, Drinking water schemes, Pond, WHS recharge structure renovation, dugout pond, Spring protection and Bench terracing were achieved to the extent of 4.57,40.63,82.11,2.30 and 11.90 % respectively.
3. The work of earthen bund has remained unattended. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 4 production activities target of 2 activities namely, Social Forestry and Crop demonstration were achieved as per outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.
2. The target of Plantation (rubber plant) and Animal health camp was achieved to the extent of 28.07 and 71.42% respectively.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 96.20% of SHG against the target. The main enterprises of SHG were electrician, Mobil repairing, banana product, coconut product, motorcycle repairing work, agro-service Centre, tailoring, Grocery shop, agro-service Centre, tailoring, tea stall etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 85% of SHG has been working properly and repaying the loan in time. 15% of SHG were not working smoothly and not repaying the loan in time.

Table 2: Indicator wise impact of sample IWMP I, Block- Vamanapuram, District- Thiruvananthapuram, State- Kerala

S. No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1.	Status of water table (Depth to Ground water level)	meters	8.5	7.50	7.90	-0.40	As the target of water harvesting structures were not achieved; the Water table not increased up to the expected post project stage; Actual status of water table drawn from data received from farmers at the time of expert visit.
2.	Ground water structures repaired/rejuvenated	No.	1693	607	577	-30	Shortage of funds the remains works undertaken through convergence with MGNREGA
3.	Change in irrigated area	Ha.	1150	1500	1333	-167	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4.	Area under agriculture crop	Ha.	2614	3050	2914	-136	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5.	Crop productivity	Kg/ha					
	Paddy(all season)	Kg/ha	2671	3000	3187	187	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Coconut	nuts/ha	6110	6211	6314	103	
	Banana	Kg/ha	6104	6550	6810	260	
6.	Area under horticulture	Ha.	76	80	62	-18	Farmers were interested due to higher income.

7.	SHG formed	No.	0	80	55	-25	Some groups not fulfill the pre-requisite for SHG formation
8.	Income per annum	Rs.	34200	63500	68400	4900	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9.	Migration	No.	82	0	18	-18	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10.	Cropping intensity	%	100	120	115	-5	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11.	Waste land development	ha	143	95	57	-38	Target was not achieved due to lack of fund.
12.	Area under vegetation	ha	108	150	150	0	The villagers were interested so, target of vegetation was achieved.

Impact Evaluation Summary of IWMP- I, Block- Vamanapuram, District Thiruvananthapuram, State- Kerala

1. The anticipated increase in ground water table has been not achieved i.e. -0.40 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure partially/not constructed (Refer item 2, 3, 5, 6, ,&8 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like; Ground water recharge structure and Check dam structure (Refer items 1&4 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 2914ha against target of 3050 ha) and remained short by 136 ha i.e.6.63% (Refer Item 4 table 2) due to 40% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 11.13% short than the target (achieved 1333 ha against target of 1500 ha) – Refer item 3, table 2). Similarly cropping intensity remained short by 5% (achieved 115% against target of 120%) – Refer item 10, table 2. The progress of both these items remained short due to lack of harvested rain water quantity. However, the productivity of paddy, coconut and banana crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 77.50% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not receiving the remunerative price of horticulture produce.
5. The 68.75% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs. 63500/Annum by 7.72 % i.e. Rs. 4900/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 67.60, 18.10, 12.40 and 1.90 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The expected outcome of Area under vegetation has been achieved to check the runoff water and to retain the soil moisture for the use of crop yield



WAPCOS Experts Visited the Water Harvesting Structure and Interacting with Farmers of IWMP-I (Thiruvananthapuram)

IMPACT EVALUATION OF IWMP SAMPLE PROJECTS OF BHOPAL, JABALPUR, GWALIOR AND UJJAIN DISTRICTS –MADHYA PRADESH

The Impact Evaluation of IWMP Projects has been carried out on the basis of following criteria:

1. Comparing the activity wise Physical Achievement vis-à-vis Target as per DPR (Refer Table1).
2. Comparing the Indicator- wise impact with the expected outcome after completion of the project as per DPR (Refer Table2).
3. Impact Evaluation Summary.
4. The project wise details are enclosed-

Name of Project- IWMP-I
Block- Phanda
District- Bhopal
State Madhya Pradesh

Table 1: Activity wise Physical Target and Achievements of sample IWMP-I Block-Phanda District Bhopal (Madhya Pradesh)

Sanctioned Amount- 624akh
 Expenditure %- 75.54
 Year of Sanction- 2009-10

Expenditure- 470.38Lakh
 Total project area- 5200 ha

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Farm Pond	No's	24	19	79.17	Few Farmers not turned up during execution due to small size of holding
2	Trench	Meter	12820	6752	52.67	Some farmers were not interested in this activity
3	Field bund	Meter	61300	61300	100	Target achieved
4	Check dam	No.	25	20	80.00	Some Farmers not turned up during execution.
5	Nalah Bunds	No.	1	0	0	Lack of fund
6	Percolation tanks	Nos	3	3	100	Target achieved
7	Checks &Plugs	Nos	15	9	60	Some Farmers not turned up during execution.
8	Animal Water Drinking Tank	Nos.	12	10	83.30	Lack of fund
9	Rejuvenation of WHS	Nos.	8	3	37.5	Lack of fund
B	Production Activities					
1	Sprinkler	No	17	11	64.70	Response not received from villagers
2	Goat rearing	Nos.	8	8	100	Target achieved With the coordination of Department of animal husbandry.
3	Poultry	NO.	13	9	69.20	Lack of fund.
4	Vermi compost	No's	22	17	77.27	With the coordination of Department of animal husbandry.
5	Crop Demonstration	No's	50	50	100	Target achieved With the coordination of Department of Agriculture.
6	Veterinary Camp	No's	15	12	80.00	With the coordination of Department of animal husbandry.

C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No's	13	9	69.23	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No's	35	26	74.28	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Farm Pond, Trench, Check dam, Checks & Plugs, Animal Water Drinking Tank and Rejuvenation of Water harvesting structure were achieved to the extent of 79.17, 52.67, 80.60, 83.30 and 37.50% respectively only.
2. Work of construction of Nalah Bunds structure has remained unattended
3. The target of Field bund and Percolation tanks work was achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

4. Out of 6 production activities target of all 6 activities namely, Sprinkler, Goat rearing, poultry, Vermicompost, crops demonstration and Veterinary Camp 64.70, 100, 69.20, 77.27, 100 and 80 percent were achieved respectively. The main reason for not achieving the target were lack of staff, villagers not showed interest in programme, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture etc.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 69.23% of SHG and 74.24% fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were Mobil repairing, poultry rearing, masonry work, chicks, tailoring, Grocery shop, carpentry work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 60% of SHG has been working properly and repaying the loan in time. Only 40% of SHG were not working smoothly and not repaying the loan in time. Out of them 16% SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-I Block-Phanda District Bhopal (Madhya Pradesh)

S. no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	11	9	9.80	-0.80	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/ rejuvenated	No.	0	8	3	-5	Target was not achieved due to lack of fund.
3	Change in irrigated area	ha	891	1280	1095	-185	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	3310	4015	3784	-231	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	Kg/ha					
6	Paddy	Kg/ha	2100	2300	2405	105	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	sorghum	Kg/ha	1100	1250	1310	60	
	Maize	Kg/ha	1200	1400	1450	50	
	Wheat	Kg/ha	2400	2600	2700	100	
	gram	Kg/ha	750	900	1003	103	
7	Area under horticulture	ha	24.70	35.10	30	-5.10	Farmers were interested due to higher income.
8	SHG (Self Help Group) formed	No.	5	89	46	-43	Some groups not fulfill the pre-requisite for SHG formation

9	Income	Rs.	24600	40000	43700	3700	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
10	Migration	No.	167	45	67	-22	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place, the same is due to available work under IWMP scheme and livelihood program.
11	Cropping intensity	%	130	160	152	-8	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
12	Waste land development	ha	201	70	87	-17	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-I Block-phanda District Bhopal (Madhya Pradesh)

1. The anticipate increase in ground water table has been not achieved i.e. -0.80 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1, 2, 7, &9 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, field bund, Check dam and Percolation tanks (Refer items 3, 4 &6 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected(actual being 3784 ha against target of 4015 ha) and remained short by 231 ha i.e.5.75% (Refer Item 4 table 2)due to 24.27 % less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 14.45% short than the target (achieved 1095 ha against target of 1280 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 8 % (achieved 152% against target of 160%) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of paddy, sorghum, maize, Wheat and gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
5. The 85.47% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
6. The 51.68% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
7. The household income increased over the expected post-project income of Rs 40000/Annum by 9.25 % i.e. Rs 3700/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income were agriculture, dairy, labor and other occupation they contribute to the extent 63.40, 21.50, 12.60and 2.50 % respectively.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.



WAPCOS TEAM VISIT CAUSE WAY CUM CHECK DAM IN IWMP-I BHOPAL

Name of Project- IWMP-II
Block- Berasia
District- Bhopal
State Madhya Pradesh

Table 1: Activity wise Physical Target and Achievements of sample IWMP-II Berasia District Bhopal (Madhya Pradesh)

Sanctioned Amount- 540Lakh
 Expenditure %- 94.38
 Year of Sanction- 2009-10

Expenditure- 509.12akh
 Total project area- 4500 ha

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Farm Pond	No's	33	33	100	Target achieved.
2	Field bund	Meter	23300	20000	85.84	Some farmers were not interested in this activity
3	Trench	Meter	76400	52600	68.84	Some Farmers not turned up during execution.
4	Check dam	No.	10	10	100	Target achieved
5	Nalah Bunds	No.	13	10	76.94	Lack of fund
6	Percolation tanks	Nos	8	6	75	Some farmers were not interested in this activity
7	Checks &Plugs	Nos	36	29	80.55	Some Farmers not turned up during execution.
8	rejuvenated WHS	Nos	2	0	0	Lack of fund
9	Animal Water Drinking Tank	Nos.	10	8	80	Lack of fund
B	Production Activities					
1	Sprinkler	No	16	12	75	Response not received from villagers
2	Sprayer	No	24	20	83.30	With the coordination of Department of horticulture
3	fishery	No	8	0	0	Farmers not turned up during execution due to religion.
4	Vermi compost	No's	20	16	80	With the coordination of Department of Agriculture.
5	Crop Demonstration	No's	40	40	100	Target achieved With the coordination of Department of Agriculture.
6	Veterinary Camp	No's	12	8	66.67	With the coordination of Department of animal husbandry.

C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No's	21	12	57.14	Many Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No's	53	32	60.37	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of field bund, Trench, Staggered Trench, Nalah Bunds, percolation tank, Checks & Plugs and Animal Water Drinking Tank were achieved to the extent of 85.84, 68.84, 76.94, 75, 80.55 and 80% respectively only.
2. Work of rejuvenated water harvesting structure has remained unattended
3. The target of farm pond and Check dam work was achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of only 5 activities namely, Sprinkler, Sprayer, fishery, Vermi compost, crops demonstration and Veterinary Camp 75, 83.30, 80, 100, and 66.67 percent were achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in programme, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture etc. the target of fishery unite has remained unattended.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 57.14% of SHG and 60.37% fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were poultry, Mobil repairing, sheep rearing, chicks, tailoring, Grocery shop, carpentry work etc.
2. Expert team met the members of SHG groups during the visit and observed that, the 68% of SHG has been working properly and repaying the loan in time. Only 32% of SHG were not working smoothly and not repaying the loan in time. Out of them only 14% SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-II berasia District Bhopal (Madhya Pradesh)

S. no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	10.50	8.50	9.10	-0.60	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	1	1	0	Target achieved.
3	Change in irrigated area	ha	590	825	694	-131	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	2250	2606	2464	-142	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	ha					
6	soybean	Kg/ha	850	1150	985	-165	Target of Productivity of soybean crop were not achieved due to early withdrawal of monsoon at the time grain formation.
	mustard	Kg/ha	780	900	1015	115	
	Wheat	Kg/ha	1650	2200	2340	140	
	gram	Kg/ha	925	1040	1055	15	Increase in productivity of rabi crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in crops.

7	Area under horticulture	ha	14	23	19.50	-3.50	Farmers are interested due to higher income.
8	SHG (Self Help Group) formed	No.	8	80	56	-24	Some groups not fulfill the pre-requisite for SHG formation
9	Income	Rs.	35000	55000	60000	5000	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities.
10	Migration	No.	385	150	203	-53	Maximum outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
11	Cropping intensity	%	122	160	143	-17	The outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of short duration crop variety.
12	Waste land development	ha	311	120	156	-36	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-II Berasia District Bhopal (Madhya Pradesh)

1. The anticipate increase in ground water table has been not achieved i.e. -0.60 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2, 3, 6 &7 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like farm pond and Check dam and Percolation tanks (Refer items 1,4&9 of NRM activity table 1).
2. The Area Under Agriculture Crop” did not increase as expected(actual being 2464 ha against target of 2606 ha) and remained short by142 ha i.e.5.45% (Refer Item 4 table 2)due to 30 % less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 15.87% short than the target (achieved 694 ha against target of 825 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 17% (achieved 143% against target of 160%) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity.
5. However, the productivity of Mustard, Wheat and gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops. The Productivity of kharif crop (soybean) not achieved due to early withdrawal of monsoon at the time of grain formation.
6. The 84.78% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
7. The 70 % of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
8. The household income increased over the expected post-project income of Rs 55000/Annum by 9.10 % i.e. Rs 5000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 65.40, 20.50, 12.10and 2.00 % respectively.
9. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.

Name of Project-	IWMP-III
Block-	Phanda
District-	Bhopal
State	Madhya Pradesh

Table 1: Activity wise Physical Target and Achievements of sample IWMP-III Block-Phanda District Bhopal (Madhya Pradesh)

Sanctioned Amount- 636 Lakh

Expenditure- 579.48Lakh

Expenditure %- 91.11

Total project area- 5300 ha

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Farm Pond	No's	13	13	100	Target achieved
2	Field bund	Meter	13834	10214	73.83	Some farmers were not interested in this activity
3	Trench	Meter	4120	3612	87.67	Some Farmers not turned up during execution.
4	Check dam	No.	47	36	76.60	Lack of fund
5	Nalah Bunds	No.	15	12	80	Lack of fund
6	Percolation tanks	Nos	6	0	0	Beneficiary not turned up during execution.
7	Checks &Plugs	Nos	28	23	82.14	Some Farmers not turned up during execution.
8	Rejuvenation of old WHS.	Nos	8	8	100	Target achieved
9	Animal Water Drinking Tank	Nos.	24	14	58.33	Lack of fund
B	Production Activities					
1	Sprinkler	No	14	8	57.14	Response not received from villagers
2	Sprayer	Nos.	40	24	60	With the coordination of Department of horticulture
3	Poultry unite	No.	8	4	50	Lack of fund.
4	Vermi compost	No's	15	8	53.30	With the coordination of Department of Agriculture.
5	Crop Demonstration	No's	32	32	100	Target achieved. With the coordination of Department of Agriculture.
6	Veterinary Camp	No's	16	10	62.50	With the coordination of Department of animal husbandry.

C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No's	25	12	48	Many Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No's	54	35	64.81	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Field bund, Trench, check dam, Nalah Bunds, Checks &Plugs and Animal Water Drinking Tank were achieved to the extent of 73.83,87.67,76.60,80,82.14 and 58.33% respectively.
2. Work of construction of Percolation tanks has remained unattended
3. The target of farm pond and Rejuvenation of old Water harvesting structure. Work was achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of all 6 activities namely, Sprinkler , Sprayer , poultry , Vermi compost, crops demonstration and Veterinary Camp 57.14,60,50,53.30,100, and 63.50 percent were achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in programme, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 48% of SHG against the target and 64.81% fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were cycle repairing, chick making, tailoring, Grocery shop, carpentry and masonry work etc.
2. Expert team met the members of SHG groups during the visit team observed that; the 63% of SHG has been working properly and repaying the loan in time. Only 37% of SHG were not working smoothly and not repaying the loan in time. Out of them only 16%SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-III Block-Phanda District Bhopal (Madhya Pradesh)

S. no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	11.20	9.50	10.10	-0.60	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	8	8	0	Target were achieved
3	Change in irrigated area	ha	385	515	408	-107	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	588.3	850	724	-126	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	ha					
6	paddy	Kg/ha	2300	2450	2500	50	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in crops.
	Maize	Kg/ha	1210	1350	1500	150	
	Wheat	Kg/ha	2165	2300	2452	152	
	Mustard	Kg/ha	1050	1120	1204	84	
	gram	Kg/ha	930	1000	11055	105	
7	Area under horticulture	ha	15	30	24	-6	Farmers are interested due to higher income.
8	SHG (Self Help	No.	6	85	63	-22	Some groups not fulfill

	Group) formed						the pre-requisite for SHG formation
9	Income	Rs.	56000	75000	79200	4200	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
10	Migration	No.	411	200	267	-67	Maximum outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
11	Cropping intensity	%	145	165	156	-9	The outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of short duration of crop variety.
12	Waste land development	ha	408	250	321	-71	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-III Block-Phanda District Bhopal (Madhya Pradesh)

1. The anticipate increase in ground water table has been not achieved i.e. -0.60 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2, 4, 6 &9 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like farm pond, Trench, Nalah bund, Check dam and Rejuvenation of old Water harvesting structure. (Refer items 1,3,5,7&8 of NRM activity table 1).
2. The Area Under Agriculture Crop” did not increase as expected(actual being 724 ha against target of 850 ha) and remained short by126 ha i.e.14.82% (Refer Item 4 table 2)due to 28.40 % less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 20.77% short than the target (achieved 408 ha against target of 515 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 9% (achieved 156% against target of 165%) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity.
5. However, the productivity of paddy, maize, Wheat, Mustard and gram crops has been more than the target due to adoption of HYV of crop variety seed, adapting dry land crop technology and judicial use of limited irrigation water in crops.
6. The 80% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
7. The 74.11% of the expected outcome of SHG formation has been achieved to implement thelivelihood action plan to increase the income of villagers.
8. The household income increased over the expected post-project income of Rs 75000/Annum by 5.60 % i.e. Rs 4200/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income were agriculture, dairy, labor and other occupation they contribute to the extent 67.10, 20.30, 10.60and 2.00 % respectively.
9. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.



WAPCOS

TEAM VISIT STOP DAM IWMP-III BHOPAL



Name of Project- IWMP-I
Block- Kundam
District- Jabalpur
State Madhya Pradesh

Table 1: Activity wise Physical Target and Achievements of sample IWMP-I Block- kundam District Jabalpur (Madhya Pradesh)

Sanctioned Amount- 840Lakh
 Expenditure %- 94.04
 Year of Sanction- 2009-10

Expenditure- 790 Lakh
 Total project area- 7000 ha

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Farm Pond	No's	20	18	90	Few Farmers not turned up during execution due to small size of holding
2	Field bund	Meter	30000	23400	78	Some farmers were not interested in this activity
3	Trench	Meter	42975	42975	100	Target achieved
4	Gabion structure	No.	30	30	100	Target achieved
5	Nalah Bunds	No.	9	6	66.70	Lack of fund
6	Percolation tanks	Nos	8	5	62.50	Some Farmers not turned up during execution
7	Checks dams	Nos	42	30	71.42	Some Farmers not turned up during execution.
8	Checks &Plugs	Nos	241	156	64.73	Lack of fund
9	Animal Water Drinking Tank	Nos.	10	0	0	Lack of fund
10	Rejuvenation of WHS	Nos.	6	3	50	Lack of fund
B	Production Activities					
1	Sprinkler	No	16	4	25	Response not received from villagers
2	poultry	Nos.	6	5	83.30	With the coordination of Department of Animal husbandry.
3	Goat rearing	Nos.	12	6	50	Lack of fund.
4	Vermi compost	Nos.	50	40	80	With the coordination of Department of Agriculture.
5	Crop Demonstration	No's	60	60	100	Target achieved.
6	Veterinary Camp	No's	22	22	100	Target achieved With the coordination of Department of animal husbandry.

C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No's	16	10	62.50	Few Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No's	46	31	67.40	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Farm Pond, Field bund, Nalah Bunds Percolation tanks, Checks dams, Checks &Plugs and Rejuvenation of WHS were achieved to the extent of 90,78,66.70,62.50,71.42,64.73 and 50% respectively only.
2. Work of construction of Animal Water Drinking Tank structure has remained unattended
3. The target of Trench and Gabion structure work was achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of all 6 activities namely, Sprinkler , poultry, Goat rearing, Vermi compost, crops demonstration and Veterinary Camp 25,83.30,50,80,100 and 100 percent were achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in programme, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture etc.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 62.50% of SHG and 67.40% fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were motor cycle repairing, sheep raring, chick making, tailoring, Grocery shop, carpentry work etc.
2. Expert team met the members of SHG groups during the visit. The 63% of SHG has been working properly and repaying the loan in time. Only 37% of SHG were not working smoothly and not repaying the loan in time. Out of hem only 15%SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-I Block- kundam District Jabalpur (Madhya Pradesh)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	10.80	9.32	9.85	-0.53	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	6	2	-4	Target was not achieved due to lack of fund.
3	Change in irrigated area	ha	362	650	504	-146	Expected post project outcome was not achieved due to the lack of harvested rain water quantity and water use for animal drinking purpose.
4	Area under agriculture crop	ha	3394	3832	3694	-138	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	ha					
6	Paddy	Kg/ha	1500	2000	2173	73	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance dry land crop technology and judicious use of limited irrigation water in crops.
	Maize	Kg/ha	1000	1200	1310	110	
	Wheat	Kg/ha	2000	2150	2200	50	
	mustard	Kg/ha	600	800	860	60	
	gram	Kg/ha	800	900	940	40	
7	Area under	ha	1.5	4	2.5	-1.5	Farmers are interested due

	horticulture						to higher income.
8	SHG (Self Help Group) formed	No.	8	70	54	-16	Some groups not fulfill the pre-requisite for SHG formation
9	Income	Rs.	26000	45000	48000	3000	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
10	Migration	No.	625	200	240	-40	Expected outcome of Reduction in migration was not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
11	Cropping intensity	%	100	130	125	-5	The outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of short duration crop variety.
12	Waste land development	ha	225	90	120	-30	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-I Block- kundam District Jabalpur (Madhya Pradesh)

1. The anticipate increase in ground water table has been not achieved i.e. -0.53 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2, 5, 6 &8 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like –farm pond, Trench and Gabion structure, (Refer items 1, 3&4 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected(actual being 3694 ha against target of 3832 ha) and remained short by 138 ha i.e.3.60% (Refer Item 4 table 2)due to 33.30 % less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 22.46% short than the target (achieved 504 ha against target of 650 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 5% (achieved 125% against target of 130%) – Refer item 11, table 2.

The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of paddy Maize, Wheat, Mustard and gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.

4. The 62.50% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crops. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 77.14% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 45000/Annum by 6.67 % i.e. Rs 3000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income were Agriculture, dairy, labor and other occupation they contribute to the extent 66.20, 19.50, 12.40and 1.90 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.



WAPCOS TEAM VISIT STOP DAM IWMP-I JABALPUR



E.P. A

WORK IN IWMP-I JABALPUR

Name of Project- IWMP-II
Block- KUNDAM
District- JABALPUR
State Madhya Pradesh

Table 1: Activity wise Physical Target and Achievements of sample IWMP-II Block- kundam District Jabalpur (Madhya Pradesh)

Sanctioned Amount- 885.60Lakh

Expenditure- 805.34Lakh

Expenditure %- 90.93

Total project area-7380 ha

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Farm Pond	No's	66	66	100	Target achieved
2	Trench	Meter	14376	12400	86.25	Some farmers were not interested in this activity
3	Field bund	Meter	12090	12090	100	. Target achieved
4	Check dam	No.	61	52	85.24	Some Farmers not turned up during execution
5	Nalah Bunds	No.	9	8	88.90	Lack of fund
6	Percolation tanks	Nos	1	1	100	Target achieved
7	Checks &Plugs	Nos	278	196	70.50	Some Farmers not turned up during execution.
8	Gabion structure	Nos	19	0	0	Lack of fund
9	Animal Water Drinking Tank	Nos	14	14	100	Target achieved
B	Production Activities					
1	Sprinkler	No	14	8	57.14	Response not received from villagers
2	Goatery	Nos.	4	4	100	With the coordination of Department of Animal husbandry.
3	poultry	Nos.	6	3	50	Lack of fund.
4	Vermi compost	No's	10	7	70	With the coordination of Department of Agriculture.
5	Crop Demonstration	No's	40	40	100	Target achieved With the coordination of Department of Agriculture.
6	Veterinary Camp	No's	15	9	60	With the coordination of

						Department of animal husbandry.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No's	12	7	58.33	Some Groups was not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No's	35	26	74.30	Few individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Trench, Check dam, Nalah Bunds, Staggered Trench and Checks & Plugs were achieved to the extent of 86.25,85.24,88.90 and 70.50% respectively only.
2. Work of construction of Gabion structure has remained unattended
3. The target of farm pond, Field bund, Percolation tanks and Animal Water Drinking Tank work was achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of all 6 activities namely, Sprinkler, Goatery, poultry Vermi compost, crops demonstration and Veterinary Camp 57.14, 100, 50, 70, 100 and 60 percent were achieved respectively. The main reason for not achieving the target were lack of staff, villagers not showed interest in programme, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture etc.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 58.30% of SHG and 74.30% to individual Entrepreneurs was granted against the target. The main enterprises of SHG were Mobil repairing Goatery, poultry, chick making, tailoring, Grocery shop, carpentry work etc.
2. Expert team met the members of SHG groups during the visit. The 67% of SHG has been working properly and repaying the loan in time. Only 33% of SHG were not working smoothly and not repaying the loan in time. Out of hem only 13% SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP-II Block- kundam District Jabalpur
(Madhya Pradesh)**

S. no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	10.90	9.50	9.90	-0.40	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	0	0	0	Target was not taken in DPR.
3	Change in irrigated area	ha	345	600	492	-108	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	2188	2783	2564	-219	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	ha					
6	Paddy	Kg/ha	1700	2000	2080	80	Increase in productivity of crop due to adoption of HYV/Hybrid crop varietyseed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	maize	Kg/ha	1000	1200	1245	45	
	Wheat	Kg/ha	2000	2150	2210	60	
	Mustard	Kg/ha	810	950	1000	50	
	gram	Kg/ha	1000	1100	1142	42	

7	Area under horticulture	ha	0	5	3	-2	Farmers are interested due to higher income.
8	SHG (Self Help Group) formed	No.	4	70	43	-27	Some groups not fulfill the pre-requisite for SHG formation
9	Income	Rs.	22000	40000	42500	2500	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
10	Migration	No.	736	350	432	-82	Maximum outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
11	Cropping intensity	%	120	150	135	-15	The outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
12	Waste land development	ha	524	250	322	-72	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-II Block-kundam District Jabalpur (Madhya Pradesh)

1. The anticipate increase in ground water table has been not achieved i.e. -0.40 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2, 4 &7 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like farm pond, field bund and Percolation tanks (Refer items 1, 3&6 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 2564 ha against target of 2783 ha) and remained short by 219 ha i.e. 7.86% (Refer Item 4 table 2) due to 28.8 % less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 18% short than the target (achieved 492 ha against target of 600 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 15% (achieved 135% against target of 150%) – Refer item 11, table 2.

The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of paddy, Maize, Mustard, Wheat and gram crops has been more than the target due to adoption of HYV of crop variety, adapting dry land crop technology and judicious use of limited irrigation water in Rabi crops.

4. The 60% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 61.40% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 40000/Annum by 6.25 % i.e. Rs 2500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income were Agriculture, dairy, labor and other occupation they contribute to the extent 65.10, 21.70, 11.80 and 1.40 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.



WAPCOS TEAM INTERACTING WITH USERS IWMP-II JABALPUR



WAPCOS TEAM VISIT WATERSHED OFFICE IN JABALPUR

Name of Project- IWMP-II
Block- Ghatigaon
District- Gwalior
State Madhya Pradesh

Table 1: Activity wise Physical Target and Achievements of sample IWMP-II Block- Ghatigaon District Gwalior (Madhya Pradesh)

Sanctioned Amount- 716.76 Lakh

Expenditure- 488.61 Lakh

Expenditure %- 68.16

Total project area- 5973 ha

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Field boundary bunding	Ha	210	120.09	57.18	Lack of fund
2	Farm Pond	Nos	14	10	71.42	Few Farmers not turned up during execution due to small size of holding
3	Contour Trench (CCT)	Ha	11.4	6.75	59.21	Farmers not turned up during execution.
4	Horticulture Orchard Model (NRM)	No.	4	0	0	Farmers was not interest in this activity due to small holding
5	C C Ring bund	Nos	1	0	0	Lack of fund
6	Masonry Check dam	Nos	24	13	54.16	Lack of fund and Few Farmers not turned up during execution
7	Earthen Dam	Nos	22	18	81.81	Lack of fund
8	Nadi / PT	Nos	0	26	100	Target achieved
B	Production Activities					
1	Crops Demonstration	No	211	174.70	82.79	Mini kits were Distributed against Crop Demonstration hence increase in Number
2	Drip irrigation	No	62	15	24.19	Response not received from villagers & lack of fund
3	Vermi compost	No's	20	11	55	Farmers not turned up during execution due to religion
4	Bee keeping	No's	15	10	66.70	With the coordination of Department of horticulture
5	Veterinary Camp	No's	14	10	71.42	With the coordination of Department of animal husbandry.

C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No's	16	10	62.50	Some Groups was not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No's	30	21	70	Some individual could fulfill the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of Field boundary bunding, Farm Pond, Contour Trench (CCT), Masonry Check dam, and Earthen Dam were achieved to the extent of 57.18,71.42,59.21,54.16 and 81.81% respectively only.
2. Work of Horticulture Orchard Model (NRM) and CC Ring bund has remained unattended
3. The target of Gully plugs and a forestation work was achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 5 production activities target of all 5 activities namely, Crops Demonstration, Drip irrigation, Vermi compost, Bee keeping and Veterinary Camp 82.79,24.19,55,66.70 and 71.42 percent were achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in programme, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture etc.

C. Livelihood system

1. The revolving fund granted for livelihood action plan for 62.50% of SHG and 72% to individual SHG against the target. The main enterprises of SHG were Manson work, mobile repairing, chicks, tailoring, Grocery shop, carpentry work etc
2. Expert team met the members of SHG groups during the visit. The 70% of SHG has been working properly and repaying the loan in time. Only 30% of SHG were not working smoothly and not repaying the loan in time. Out of them 13% SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP-II Block- Ghatigaon District Gwalior
(Madhya Pradesh)**

S. no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	11	9.40	9.10	-0.30	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	10	2	0	0	Target was not achieved due to lack of fund.
3	Change in irrigated area	ha	106	360	227	-133	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	4208	4987	4585	-402	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development and lack of irrigation water.
5	Crop productivity	ha					
6	Bajra	Kg/ha	600	700	774	74	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop technology and judicious use of limited irrigation water in Rabi crop
	sorghum	Kg/ha	500	650	700	50	
	Wheat	Kg/ha	2000	2200	2340	140	
	Mustard	Kg/ha	800	1000	1085	85	
	Gram	Kg/ha	350	450	510	60	
7	Area under horticulture	ha	13.76	36.86	16.50	-20.36	Farmers are less interested due to lack of water during summer season.
8	SHG (Self Help Group) formed	No.	4	46	36	-10	Some groups not fulfill the pre-requisite for SHG formation

9	Income	Rs.	50000	75000	78500	3500	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration	No.	130	0	26	-26	Maximum outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
11	Cropping intensity	%	105	160	140	-20	The outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
12	Waste land development	ha	201.98	60	98	-38	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-II Block- Ghatigaon District Gwalior (Madhya Pradesh)

1. The anticipate increase in ground water table has been not achieved i.e. -0.30 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1,2 &5 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like Earthen Dam, Nadi / PT and Contour Trench (CCT) (Refer items 3, 7&8 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 4585 ha against target of 4987 ha) and remained short by 402 ha i.e. 8.06% (Refer Item 4 table 2) due to 63 % less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 36.94% short than the target (achieved 227 ha against target of 360 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 20% (achieved 140% against target of 160%) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity.
5. However, the productivity of Bajra, sorghum, Wheat, mustard & Gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
6. Only 44.76 % expected outcome of area under horticulture crops was achieved because of farmers was less interested due to non availability of irrigation water in summer for horticulture crop. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
7. 78.26% expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase their income.
8. The household income increased over the expected post-project income of Rs 75000/Annum by 4.67 % i.e. Rs 3500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income were agriculture, dairy, labor and other occupation which contribute to the extent 66.50, 20.70, 10.60 and 2.20 % respectively.
9. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities.



WAPCOS TEAM VISIT POND IN IWMP-II GWALIOR



WAPCOS TEAM DISCUSSING WITH SHGs IN IWMP-II GWALIOR

Name of Project- IWMP-III
Block- Morar
District- Gwalior
State Madhya Pradesh

Table 1: Activity wise Physical Target and Achievements of IWMP-III Block- Morar District Gwalior (Madhya Pradesh)

Sanctioned Amount- 605.52 Lakh

Expenditure 541.73 Lakh

Expenditure %- 80.04

Total project area- 5046 ha

Year of Sanction- 2009-10

S. No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Field bund	Ha	185	151	81.62	Some farmers were not interested in this activity.
2	Trench	Ha	20	8	40	Lack of fund
3	Pasture development	Ha	22	7	31.81	only 7 ha. Land was allotted by the gram Sabah for pasture developed.
4	Farm Ponds	Nos.	13	7	53.85	Farmers not turned up during execution due to small holding.
5	Check dams	Nos.	34	21	61.76	
6	Nalah Bunds	Nos.	5	0	0	Lack of fund
7	Irrigation tanks	Nos.	28	28	100	Target achieved
8	Rejuvenation old of WHS	Nos.	12	7	58.33	Lack of fund
9	LSCD	Nos	365	365	100	Targets achieved
10	Medium Masonry structure	Nos	9	9	100	Target achieved
B	Production Activities					
1	Horticulture plantation	Ha	5	2	40	Farmers not turned up during execution due to lack of irrigation water
2	Crop demonstration	No	55	55	100	Target achieved With the coordination of Department of agriculture.
3	Organize Veterinary Camps	No	12	8	66.67	Camps were organized With the coordination of Department of animal husbandry.
4	Drip Irrigation	No	10	2	20	Lack of fund
5	Sprinkler	No	12	6	50	Farmers not turned up during execution due to share money

6	Vermin compost	No.	10	5	50	Farmers not turned up during execution due to religion
C	Livelihood System					
1	Revolving fund for SHGs for their livelihood action plan	No	18	11	61.11	The some groups not Fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving fund to individual enterprising for livelihood plan	No	53	40	76.67	ew individual not Fulfilled the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of field bund, Trench, Khadin, Pasture development, Farm Ponds, Check dams and Rejuvenation old of WHS were achieved to the extent of 81.62,40,31.81,53.85,61.76 and 58.33% respectively.
2. Work of construction of Nalah Bunds has remained unattended.
3. The work target of Irrigation tanks, LSCD and Medium Masonry structure work was achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of all 6 activities namely, Horticulture plantation, crop demonstration, Organize Veterinary Camps, Drip Irrigation, Sprinkler and Vermin compost was 10,100,66.67,20,50 and 50 percent achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture etc.

C. Livelihood System

1. The revolving fund granted for livelihood action plan to 61.11% of SHG, 76.67 % to individual SHG against the target. The main enterprises of SHG were Mobil repairing, Goat raring, chick making, tailoring, Grocery shop, carpentry work etc
2. Expert team met the members of SHG groups during the visit. The 65.40% of SHG were working properly and repaying the loan in time. 34.60% of SHG were not working smoothly and not repaying the loan in time out of them 12% SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-III Block- Morar District Gwalior (Madhya Pradesh)

S. no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	11.25	9.60	10	-0.40	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	12	7	-5	Target was not achieved due to lack of fund.
3	Change in irrigated area	ha	955	1589	1380	-209	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	2389	3178	2785	-393	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and waste land area development
5	Crop productivity						
6	bajra	Kg/ha	1540	1850	1715	-135	Productivity of kharif crop not achieved due to early withdrawal of monsoon at the time grain formation in the crop. Increase in productivity of rabi crop due to adoption of HYV/Hybrid seed of crop variety, advance crop technology and judicious use of limited
	soybean	Kg/ha	753	850	785	-65	
	Urad	Kg/ha	513	550	494	-56	
	Wheat	Kg/ha	2817	3000	3115	115	
	Mustard	Kg/ha	905	1050	1135	85	
	Gram	Kg/ha	865	1000	1103	103	

							irrigation water .
7	Area under horticulture	ha	2.5	5.5	4.0	-1.50	Farmers are interested in horticulture plantation because of higher income from orchards.
8	SHG federations formed	No.	18	70	53	-17	Some groups was not fulfill the pre-requisite for SHG formation.
9	Income	Rs.	13500	18000	26500	8500	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration	No.	80	0	14	-14	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
11	Cropping intensity	%	129	175	162	-13	The outcome of cropping intensity not achieved due to lack of irrigation water and non-adoption of short duration crop variety.
12	Waste land development	ha	867.34	340	459	-119	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-III Block- Morar District Gwalior (Madhya Pradesh)

1. The anticipate increase in ground water table has been not achieved i.e. -0.40 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2, 3, 4, &5 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like Irrigation tanks, LSCD and Medium Masonry structure (Refer items 7, 9&10 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 2785 ha against target of 3179 ha) and remained short by 393 ha i.e.12.36% (Refer Item 4 table 2) due to 35 % less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 13.15% short than the target (achieved 1380 ha against target of 1589 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 13% (achieved 162% against target of 175%) – Refer item 11, table 2.

The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Wheat, gram & mustard crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops. The Productivity of kharif crop not achieved due to early withdrawal of monsoon at the time of grain formation and scattered rainfall.

4. The 72.70% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce. 57.71% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 26500/Annum by 47.20 % i.e. Rs 8500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income were agriculture, dairy, labor and other occupation which contribute to the extent 62.30, 24.50, 10.60 and 2.60 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.



Latitude: 26.118268
Longitude: 78.244942
Elevation: 267.53m
Accuracy: 2.2m
Time: 04-24-2019 12:57
Note: check dam adupura

WAPCOS TEAM VISIT CHECK DAM IWMP-III GWALIOR



Latitude: 26.116862
Longitude: 78.294015
Elevation: 286.26m
Accuracy: 1.7m
Time: 04-24-2019 11:05
Note: medbandi bastari

WAPCOS TEAM VISIT MEDBANDI WORK IN IWMP-III GWALIOR

Name of Project- IWMP-I
Block- Tarana
District- Ujjain
State Madhya Pradesh

Table 1: Activity wise Physical Target and Achievements of sample IWMP-I Block- Tarana District Ujjain (Madhya Pradesh)

Sanctioned Amount- 762.12Lakh

Expenditure- 632.12Lakh

Expenditure %- 82.94

Total project area- 6351 ha

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Farm Pond	No's	49	34	69.40	Few Farmers not turned up during execution due to small size of holding
2	Continuous Contour Trench	Meter	28200	26349	93.44	Some farmers were not interested in this activity
3	Staggered Trench	Meter	27900	24150	86.56	Some farmers were not interested in this activity
4	Check dam	No.	32	32	100	Target achieved
5	Nalah Bunds	No.	12	4	33.33	Lack of fund
6	Percolation tanks	Nos	16	16	100	Target achieved
7	Checks &Plugs	Nos	362	272	75.13	Some Farmers not turned up during execution.
8	Checks &Plugs	Nos	9	4	44.40	Lack of fund
9	BoriBaandh	Nos	109	0	0	Lack of fund
10	C.P.T	meter	12950	0	0	Farmers not turned up during execution.
11	Animal Water Drinking Tank	Nos.	24	0	0	Lack of fund
B	Production Activities					
1	Sprinkler	No	32	4	12.50	Response not received from villagers
2	Sprayer	Nos.	94	56	59.60	With the coordination of Department of horticulture
3	Pipeline	rmt	520	210	40.38	Lack of fund.
4	Vermi compost	No's	5	5	100	Target achieved with the coordination of Department of Agriculture.
5	Crop Demonstration	No's	32	32	100	Target achieved with the coordination of Department

						of Agriculture.
6	Veterinary Camp	No's	12	7	58.33	With the coordination of Department of animal husbandry.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No's	17	10	58.82	Many Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No's	48	37	77.10	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of Farm Pond, Continuous Contour Trench, Staggered Trench, Nalah Bunds and Checks & Plugs were achieved to the extent of 69.40,93.44,86.56,33.33,75.13 and 44.40% respectively only.
2. Work of construction of Bori Baandh, C.P.T and Animal Water Drinking Tank structure has remained unattended
3. The target of Check dam and Percolation tanks work was achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of all 6 activities namely, Sprinkler , Sprayer , Pipeline , Vermi compost, crops demonstration and Veterinary Camp 12.50,59.60,40.38,100,100 and 58.33 percent were achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in programme, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture etc.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 58.82% of SHG against the target and 77.10% fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were Mobil repairing, sheep rearing, chicks, tailoring, Grocery shop, carpentry work etc.
2. Expert team met the members of SHG groups during the visit. The 66% of SHG has been working properly and repaying the loan in time. Only 34% of SHG were not working smoothly and not repaying the loan in time. Out of hem only 11%SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP-I Block- Tarana District Ujjain
(Madhya Pradesh)**

S. no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	12	10	10.70	-.070	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	9	4	-5	Target was not achieved due to lack of fund.
3	Change in irrigated area	ha	491	825	689	-136	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	2214	2800	2642	-158	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	ha					
6	soybean	Kg/ha	800	925	860	-65	Target of Productivity of kharif crop were not achieved due to early withdrawal of monsoon at the time grain formation.
	sorghum	Kg/ha	600	700	660	-40	
	Wheat	Kg/ha	1600	2000	2140	140	
	gram	Kg/ha	825	1000	1055	55	Increase in productivity of rabi crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and

							judicial use of limited irrigation water in Rabi crop
7	Area under horticulture	ha	30	53	39.50	-13.5	Farmers are interested due to higher income.
8	SHG (Self Help Group) formed	No.	8	80	57	-23	Some groups not fulfill the pre-requisite for SHG formation
9	Income	Rs.	45600	60000	63500	3500	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
10	Migration	No.	116	25	38	-13	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
11	Cropping intensity	%	120	160	138	-22	The outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of short duration crop variety.
12	Waste land development	ha	2515.44	2161.90	2314	-152.10	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-01 Block- Tarana District Ujjain (Madhya Pradesh)

1. The anticipate increase in ground water table has been not achieved i.e. -0.70 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1, 5, 8 &9 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like Continuous Contour Trench, Staggered Trench, Check dam and Percolation tanks (Refer items 2, 3, 4&6 of NRM activity table 1).
2. The“Area Under Agriculture Crop” did not increase as expected(actual being 2642 ha against target of 2800 ha) and remained short by158 ha i.e.5.64% (Refer Item 4 table 2)due to 7.03 % less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 16.48% short than the target (achieved 689 ha against target of 825 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 33% (achieved 138% against target of 160%) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity.
5. However, the productivity of Wheat and gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops. The Productivity of kharif crop (soybean & sorghum) not achieved due to early withdrawal of monsoon at the time of grain formation and scattered rainfall.
6. The74.52% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop than other crops. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
7. The 71.25% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
8. The household income increased over the expected post-project income of Rs 60000/Annum by 5.38 % i.e. Rs 3500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income were Agriculture, dairy, labor and other occupation which, contribute to the extent 64.20, 22.50, 11.50and 1.80 % respectively.
9. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.



WAPCOS TEAM VISIT WHS IN IWMP-I UJJAIN



WAPCOS TEAM INTERACTING WITH SHGS IN IWMP-I UJJAIN

Name of Project- IWMP-02
Block- Tarana
District- Ujjain
State Madhya Pradesh

Table 1: Activity wise Physical Target and Achievements of IWMP-02 Block- Tarana District Ujjain (Madhya Pradesh)

Sanctioned Amount- 702.00 Lakh

Expenditure 614.31 Lakh

Expenditure %- 87.75

Total project area- 5850 ha

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Field bund	Rmt	34308	34308	100	Target achieved
2	Trench	Rmt	12244	6400	52.27	Farmers not turned up during execution.
3	Checks & Plugs	Nos	822	713	86.74	Some farmers were not interested in this activity
4	Farm Ponds	Nos.	64	57	89.06	Few Farmers not turned up during execution due to small size of holding
5	Check dams	Nos.	35	35	100	Target achieved
6	Rejuvenation of WHS	Nos.	12	0	0.00	Lack of fund
7	Gabion	Nos.	47	14	29.78	Some farmers were not interested in this activity
8	Gully plug	Rmt	1365	0	0.00	Lack of fund
B	Production Activities					
1	Cattle camp	Ha	16	12	75	With the coordination of Department of animal husbandry
2	Pasture development	Ha	15	10	66.70	Only 10 ha. Land was provided by gram Sabah to this activity
3	Crop Demonstration	No.	160	160	100.00	Target achieved
4	Seed treatment	Qt.	245	219	89.39	With the coordination of Department of Agriculture
5	Drip Irrigation	No	6	2	33.33	With the coordination of Department of horticulture.
6	Sprinkler	No	23	4	17.39	With the coordination of Department of Agriculture
7	Vermi compost	No	12	3	25	With the coordination of Department of Agriculture

8	Irrigation Pipe line	Rmt.	520	0	0.00	Lack of fund
C	Livelihood System					
1	Revolving fund for SHGs for their livelihood action plan	No	9	6	66.70	Few SHG was not Fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving fund to individual enterprising for livelihood plan	No	34	26	76.47	Some individual was not Fulfilled the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Trench, Checks & Plugs, Farm Ponds and Gabion were achieved to the extent of 52.27, 86.74, 89.06 and 29.78% respectively.
2. Work of construction of Rejuvenation of WHS and Gully plug structure has remained unattended.
3. The target of Field bund and Check dam was achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

1. Out of 8 production activities only target of 7 activities namely, Cattle camp, Pasture development, Crops demonstration, Seed treatment, Drip Irrigation, Sprinkler and, Vermi compost was 75,66.70,100,89.39,33.33 and 25 percent achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture etc. The work of Irrigation Pipe line has remained unattended.

C. Livelihood System

1. The revolving fund granted for livelihood action plan to 66.70% SHG and. 76.47% fund was given to Individual enterprises against the target. The main enterprises of SHG were Mobil repeating, sheep/goat raring, chicks making, tailoring, Grocery shop, carpentry work etc.
2. Expert team met the members of SHG groups during the visit. The 55.40% of SHG were working properly and repaying the loan in time. 44.60% of SHG were not working smoothly and not repaying the loan in time. 18% SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-02 Block- Tarana District Ujjain

(Madhya Pradesh)

S .no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	11.5	10.00	10.40	-.040	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area.(actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	12	0	0	Target was not achieved due to lack of fund
3	Change in irrigated area	ha	512	840	694	-146	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	2643	3050	2874	-176	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	ha					
6	soybean	Kg/ha	1000	1100	1040	-60	Target of Productivity of kharif crop were not achieved due to early withdrawal of monsoon at the time grain formation. Increase in productivity of rabi crop due to adoption of HYV/ Hybrid crop variety, advance crop technology and judicious use of limited irrigation water in Rabi crop
	sorghum	Kg/ha	800	900	850	-50	
	maize	Kg/ha	1200	1350	1280	-70	
	Wheat	Kg/ha	2800	3000	3045	45	
	gram	Kg/ha	900	1000	1065	65	
7	Area under horticulture	ha	12	60	35	-25	Farmers were interested due to higher income then

							other crops.
8	SHG federations formed	No.	3	75	40	-35	Some groups not fulfill the pre-requisite for SHG formation
9	Income	Rs. In lakh	36000	58000	61400	3400	Income of Household were increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
10	Migration	No.	135	35	25	-10	Maximum outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
11	Cropping intensity	%	124	150	141	-9	The outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology
12	Waste land development	ha	251.23	150	195	-45	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-02 Block- Tarana District Ujjain (Madhya Pradesh)

1. The anticipate increase in ground water table has been not achieved i.e. -0.70 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1, 5, 8 &9 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like Continuous Contour Trench, Staggered Trench, Check dam and Percolation tanks (Refer items 2, 3, 4&6 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 2874 ha against target of 3050 ha) and remained short by 176 ha i.e. 5.77 % (Refer item 4 table 2) due to 37.50% less progress on conversion of waste land into agricultural land (Refer item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 17.38% short than the target (achieved 694 ha against target of 840 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 9% (achieved 141% against target of 150%) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity.
5. However the productivity of Wheat & gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in *Rabi* crops. The *kharif* crops soybean, sorghum & Maize not achieved the target because of early withdrawal of monsoon at the time of grain formation and scattered rainfall.
6. Only 58.30% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
7. The 53.30 % of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
8. The household income increased over the expected post-project income of Rs 58000/Annum by 5.86% i.e. Rs 3400/- mainly due to increase in crop productivity, price of agriculture produce, wage rate and adoption of livelihood programme in the project area. The source of income were Agriculture, dairy, labor and other occupation which, contribute to the extent 65.30, 22.10, 10.70 and 1.90 % respectively.
9. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP project and adoption of livelihood activities.



Latitude: 23.46569
Longitude: 76.134235
Elevation: 481.94m
Accuracy: 2.9m
Time: 04-26-2019 09:54
Note: meeting sarli

WAPCOS TEAM INTERACTING WITH VILLAGERS ABOUT IWMP IMPACT



Latitude: 23.46876
Longitude: 76.136872
Elevation: 507.93m
Accuracy: 1.8m
Time: 04-26-2019 10:37
Note: stop dam sarli

WAPCOS TEAM VISIT STOP DAM IWMP-II UJJAIN

IMPACT EVALUATION OF IWMP SAMPLE PROJECTS OF Amravati, Aurangabad, Latur, & Pune DISTRICTS –MAHARASHTRA

The Impact Evaluation of IWMP Projects has been carried out on the basis of following criteria:

1. Comparing the activity wise Physical Achievement vis-à-vis Target as per DPR (Refer Table1).
2. Comparing the Indicator- wise impact with the expected outcome after completion of the project as per DPR (Refer Table2).
3. Impact Evaluation Summary.

The project wise details are enclosed-

Name of Project	- IWMP-I
Block	- Morshi
District	- Amravati
State	- Maharashtra

**Table 1: Activity wise Physical Target and Achievements of IWMP- I/2009-10 Block-Morshi District-
Amravati (Maharashtra)**

Sanctioned Amount- 277.00 (Lakh)

Expenditure- 104.76 (Lakh)

Expenditure % - 37.82 %

Total project Area- 4204.78 ha

Year of Sanction- 2009-2010

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management - NRM					
1	Field Bunds – Graded Bunding	Ha.	1100.00	846.32	76.94	Other Farmers are not interested For Field bunds
2	Continuous Contour Trenches (CCT)	Ha.	30	8	26.70	Lack of fund
3	Farm ponds	Nos.	4	0	0	Lack of fund
4.	Check Dams (Nala Deeping)	Nos.	26	13	50	Other Farmers are not given consent at the Time implementation
B.	Production Activities					
1	Pipeline	Nos	158	15	9.49	Lack of fund
2		Nos	20	5	25	Lack of fund
3	Crop demonstration	No.	25	25	100	Target achieved With the coordination of Department of Agriculture.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	18	13	72	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	32	21	65.60	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of Field Bunds, Continuous contour trenches (CCT) and Check Dams (Nala Deeping) were achieved to the extent of 79.94, 26.70 and 50% respectively.
2. Work of construction of farm pond structure has remained unattended. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has

resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B Production Activities

1. Out of 3 production activities target of all 3 activities namely, Pipeline, Electric / Diesel Pump set and crops demonstration 9.49,25 and 100 percent were achieved respectively. The main reason for not achieving the target were lack of fund, villagers not turned up during execution, and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture.

C Livelihood system

1. The revolving fund granted for livelihood action plan to 72% of SHG and 65.60% fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were Mobil repairing, poultry rearing, masonry work, floor mill, agro-service center,, tailoring, Grocery shop, backyard poultry work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 65% of SHG has been working properly and repaying the loan in time. 35% of SHG were not working smoothly and not repaying the loan in time. Out of them 15 % SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP- I Block- Morshi District- Amravati (Maharashtra)

Sr.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	14	9	10	-1	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	00	0	0	0	Target was not taken in DPR.
3	Change in irrigated area	ha	0	750	645	-150	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	4012	3762	3450	-312	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity						
	Cotton	Kg/ha	663	850	905	55	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	soybean	Kg/ha	765	870	920	50	
	Wheat	Kg/ha	812	963	1065	98	
	Gram	Kg/ha	652	730	800	70	
6	Area under horticulture	ha	112	290	150	-140	Farmers were interested due to higher income.
7	SHG (Self Help Group) formed	No.	0	70	55	-15	Some groups not fulfill the pre-requisite for SHG formation

Sr.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
8	Income	Rs.	45700	56500	60400	3900	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	45	0	10	-10	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	100	125	115	-10	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	92	24	50	-26	Lack of fund.
12	Area under vegetation	ha	0	8	4	-4	Only 4 ha. land was allotted for vegetation by gram Sabah

Impact Evaluation Summary of IWMP- I Block- Morshi District- Amravati (Maharashtra)

1. The anticipate increase in ground water table has been not achieved i.e. -1.00 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 3 under NRM activity table 1). But the marginal increase in GW table is registered due to partial expected target achieved of other structures like, field bund , Continuous contour trenches and Check Dams (CCT) (Refer items1,2 &4 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected(actual being 3450 ha against target of 3762 ha) and remained short by312 ha i.e.8.30% (Refer Item 4 table 2)due to 54% progress on conversion of waste land into agricultural land were achieved (Refer Item11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 20% short than the target (achieved 645 ha against target of 750 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10 % (achieved 115% against target of 125%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of cotton, soybean, wheat and gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 51.72% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 78.61% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs56500/Annum by 6.90 % i.e. Rs3900/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 65.10, 19.30, 13.30and 2.30 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 50 % of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Discuss with Officials and Visited the Water Harvesting Structure of IWMP-I

Name of Project - IWMP-II
Block - Morshi
District - Amravati
State - Maharashtra

Table 1: Activity wise Physical Target and Achievements of IWMP- II Block- Morshi District- Amravati (Maharashtra)

Sanctioned Amount- 670.91 (Lakh)
Expenditure % - 29.22
Year of Sanction- 2009-2010

Expenditure- 196.34 (Lakh)
Total project Area- 6022.88 ha

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management - NRM					
1	Graded Bunding	Ha.	5112	2326	45.49	Non availability of fund
2	Nalla Deepening	Nos	12	12	100	Target achieved
B.	Production Activities					
1	Dairy (Cow/Buffalo/goat)	Nos.	90	51	56.70	Lack of fund
2	Pipeline	Mrt.	579	78	13	Lack of fund
3	Crop demonstration	No.	40	40	100	Target achieved With the coordination of Department of Agriculture.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	15	10	66.70	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	42	31	73.80	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of Graded Bunding and Nalla Deepening were achieved to the extent of 45.49 and 100% respectively.
2. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 3 production activities target of all 3 activities namely, Dairy and crops demonstration 56.70,13 and 100 percent were achieved respectively. The main reason for not achieving the target were lack of

fund, villagers not turned up during execution, and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 66.70% of SHG and 73.80% individual Entrepreneurs against the target. The main enterprises of SHG were cycle repairing, poultry rearing, masonry work, floor mill, agro-service center, tailoring, Grocery shop, backyard poultry work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 67% of SHG has been working properly and repaying the loan in time. 33% of SHG were not working smoothly and not repaying the loan in time. Out of them 10 % SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP- II Block- Morshi District- Amravati (Maharashtra)

Sr. No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	13	11	12.5	-1.50	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	0	0		Target was not taken in DPR.
3	Change in irrigated area	ha	600	800	695	-105	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	4113	4500	4320	-180	Outcome of the area in the agriculture crop not achieved due to no any waste land area development
5	Crop productivity						
	Cotton	Kg/ha	500	700	800	100	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance
	Arhar	Kg/ha	400	650	700	50	
	soybean	Kg/ha	1200	1450	1500	50	
	Wheat	Kg/ha	1000	1150	1200	50	

	Gram	Kg/ha	600	750	810	60	crop technology and judicious use of limited irrigation water in Rabi crop
6	Area under horticulture	ha	425	600	481	-119	Farmers were interested due to higher income.
7	SHG federations formed	No.	0	80	57	-23	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	64000	90000	96000	6000	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	75	0	24	-24	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	110	135	125	-10	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	0	0	0	0	Target not taken in DPR.
12	Area under vegetation	ha	0	2	1	-1	Only 1.00 ha. land was allotted for vegetation by gram Sabah

Impact Evaluation Summary of IWMP—II Block- Morshi District- Amravati (Maharashtra)

1. The anticipated increase in ground water table has been not achieved i.e. -1.50 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1 under NRM activity table 1). But the marginal increase in GW table is registered due to partial expected target achieved of other structures like, field bund and Nalla Deepening (Refer items 1 & 2 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 4320 ha against target of 4500 ha) and remained short by 180 ha i.e. 4.00% (Refer Item 4 table 2) due to no any progress in conversion of waste land into agricultural land were achieved (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 13.12% short than the target (achieved 695 ha against target of 800 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10 % (achieved 125% against target of 135%) – Refer item 10, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of cotton, soybean, wheat and gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
5. The 80.10% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
6. The 71.25% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
7. The household income increased over the expected post-project income of Rs 90000/Annum by 6.67 % i.e. Rs6000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 68.10, 18.30, 11.60 and 2.00 % respectively.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
9. The 50 % of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Interacting with Member of SHG & Visited the Water Harvesting Structure of IWMP-II

Name of Project - IWMP-III
Block - Morshi
District - Amravati
State - Maharashtra

Table 1: Activity wise Physical Target and Achievements of IWMP- III Block- Morshi District- Amravati (Maharashtra)

Sanctioned Amount- 249.98 (Lakh)

Expenditure-184.11 (Lakh)

Expenditure - 73 %

Total project Area 4541.58 ha

Year of Sanction- 2009-2010

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A.	Natural Resource Management - NRM					
1	Graded Bunding	Ha.	1117.15	796	71	Lack of fund
2	Nalla Deepening	Nos.	35	32	91	Other Farmers are not interested
B.	Production Activities					
1	Dairy (Cow/Buffalo)	Nos.	291	142	48.80	Other Farmers are not interested
2	Goatry	Nos.	126	44	34.92	Some Farmers not turned up during execution.
3	Provision of Agri. implements	Nos.	51	22	43.10	Other Farmers are not interested
4	Multi crop Thresher	Nos.	06	0	0	Lack of fund
5	Rotavator	Nos.	03	0	0	Lack of fund
6	Other Implements	Nos.	01	0	0	Lack of fund
7	Pipeline	Mrt.	170	80	47.10	Lack of fund
8	Electric / Diesel Pump set	Nos.	144	67	46.50	Some Farmers not turned up during execution.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	24	14	58.20	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	41	32	78	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.
3	Grant in Aids to Federation SHG for their livelihood plan.	No	2	0	0	SHG Federation were not formed

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of Graded Bunding and Nalla Deepening were achieved to the extent of 71 and 91% respectively.
2. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 8 production activities target of 5 activities namely, dairy, goatary Provision of Agri. implements, Pipeline and Electric / Diesel Pump set 48.80, 34.92, 43.10, 47.10 and 46.50 percent were achieved respectively. the activity of Multi crop Thresher, Rotavator and Other Implements has remained unattended.
The main reason for not achieving the target were lack of fund, villagers not turned up during execution, and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 58.20,% of SHG ,78% individual Entrepreneurs and no fund was granted to SHG Federation against the target. The main enterprises of SHG were cycle repairing, poultry raring, masonry work, floor mill, agro-service Centre,, tailoring, Grocery shop, backyard poultry work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 65% of SHG has been working properly and repaying the loan in time.35% of SHG were not working smoothly and not repaying the loan in time. Out of them 15 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP- IIIBlock- Morshi District- Amravati (Maharashtra)

Sr. No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	12	10	10.50	-0.50	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired /rejuvenated	No.	0	0	0		Target was not taken in DPR.
3	Change in irrigated area	ha	236	300	277	-23	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	4312	4700	4508	-192	Outcome of the area in the agriculture crop not achieved due to no any waste land area development
5	Crop productivity						
	Cotton	Kg/ha	513	600	370	70	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Tur	Kg/ha	340	480	560	80	
	soybean	Kg/ha	840	900	940	40	
	Wheat	Kg/ha	1180	1230	1280	50	
	Gram	Kg/ha	663	900	920	20	
6	Area under horticulture	ha	54	112	80	-32	Farmers were interested due to higher income.
7	SHG federations formed	No.	0	90	65	-25	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	60000	80000	85200	5200	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	37	0	7	--7	Expected outcome of

Sr. No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
							Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	120	150	140	-10	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	0	0	0	0	Target not taken in DPR.
12	Area under vegetation	ha	0	5	3	-2	Only 3.00 ha. land was allotted for vegetation by gram Sabah

Impact Evaluation Summary of IWMP—III Block- Morshi District- Amravati (Maharashtra)

1. The anticipated increase in ground water table has been not achieved i.e. -0.50 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1 under NRM activity table 1). But the marginal increase in GW table is registered due to partial expected target achieved of other structures like, field bund and Nalla Deepening (Refer items 1 & 2 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 4508 ha against target of 4700 ha) and remained short by 192 ha i.e. 4.10% (Refer Item 4 table 2) due to no any progress in conversion of waste land into agricultural land were achieved (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 7.67% short than the target (achieved 277 ha against target of 300 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10 % (achieved 140% against target of 150%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of cotton, soybean, Tur, wheat and gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 71.42% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 72.20% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 80000/Annum by 6.50 % i.e. Rs 5200/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 64.20, 19.80, 12.50 and 3.50 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 60 % of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Interacting with Farmers & Visited the Water Harvesting Structure of IWMP-III

Name of Project - IWMP-IV
Block - Morshi
District - Amravati
State - Maharashtra

**Table 1: Activity wise Physical Target and Achievements of IWMP-IVBlock- Morshi District- Amravati
(Maharashtra)**

Sanctioned Amount- 232.57 (Lakh)

Expenditure- 135.87 (Lakh)

Expenditure % - 58

Total project Area 3453.67 ha

Year of Sanction- 2009-2010

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management - NRM					
1	Graded Bunding	Ha.	1923.46	1200.32	62.40	Other Farmers are not interested
2	Continuous Contour Trenches (CCT)	Ha.	51.59	0	0	Lack of fund &staff
3.	Check Dams (Cement Nala Bunds)	Nos.	2	0	0	Lack of fund &staff
4.	Nalla Deepening	Nos.	14	14	100	Target achieved
B.	Production Activities					
1.	Dairy (Cow/Buffalo)	Nos.	115	50	43.47	Other Farmers are not interested
2.	Goatry	Nos.	93	39	36.27	Lack of fund
3.	Provision of Agr. Implements distribution	Nos.	32	15	48	Lack of fund
4	Multi crop Thresher	Nos.	17	1	5.88	Some Farmers not turned up during execution
5	Other Implements	Nos.	8	07	88	With the coordination of agriculture department
6	Pipeline	Mrt.	113	50	62.5	Lack of fund
7	Electric / Diesel Pump set	Nos.	126	37	29.36	Lack of fund
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	20	13	65	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	35	24	68.60	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of Graded Bunding and Nalla Deepening were achieved to the extent of 62.40 and 100% respectively.
2. Work of construction of Continuous Contour Trenches and Check Dams (Cement Nala Bunds) structure has remained unattended
3. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 7 production activities target of all 7 activities namely, Dairy, Goatry, Provision of Agri. Implements distribution, Multi crop Thresher, Other Implements, Pipeline and Electric / Diesel Pump set 43.47, 36.27, 48.58, 88.62.50 and 29.36+ percent were achieved respectively. The main reason for not achieving the target were lack of fund, villagers not turned up during execution, and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 65% of SHG and 68.60% individual Entrepreneurs against the target. The main enterprises of SHG were cycle repairing, poultry rearing, masonry work, floor mill, agro-service center, tailoring, Grocery shop, backyard poultry work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 64% of SHG has been working properly and repaying the loan in time. 36% of SHG were not working smoothly and not repaying the loan in time. Out of them 14 % SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-IV Block- Morshi District- Amravati (Maharashtra)

Sr.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	15	12	13.50	-1.50	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired /rejuvenated	No.	0	0	0	0	Target was not taken in DPR.
3	Change in irrigated area	ha	900	1028	962	-66	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	3485	3904	3766	-138	Outcome of the area in the agriculture crop not achieved due to no any waste land area development
5	Crop productivity						
	Cotton	Kg/ha	558	650	745	95	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Tur	Kg/ha	340	510	560	50	
	soybean	Kg/ha	840	900	940	40	
	Wheat	Kg/ha	1232	1380	1425	45	
	Gram	Kg/ha	920	1000	963	-38	
6	Area under horticulture	ha	109	146	135	-11	Farmers were interested due to higher income.
7	SHG federations formed	No.	7	70	55	-15	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	65000	90000	96500	6500	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	200	20	20	20	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is

Sr.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
							due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	116	160	135	-25	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	533	140	40	-100	Target was not achieved due to lack of fund.
12	Area under vegetation	ha	0	10	3.50	-6.50	Only 3.50 ha. land was allotted for vegetation by gram Sabah

Impact Evaluation Summary of IWMP—IV Block- Morshi District- Amravati (Maharashtra)

1. The anticipate increase in ground water table has been not achieved i.e. -1.50 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2&3 under NRM activity table 1). But the marginal increase in GW table is registered due to partial expected target achieved of other structures like, field bund and Nalla Deepening (Refer items 1 & 4 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 3766 ha against target of 3904 ha) and remained short by 138 ha i.e. 3.53% (Refer Item 4 table 2) due to only 28.57% progress in conversion of waste land into agricultural land were achieved (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 6.42% short than the target (achieved 962 ha against target of 1028 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 25 % (achieved 135% against target of 160%) – Refer item 10, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of cotton, soybean, Tur, wheat and gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
5. The 92.46% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
6. The 78.57% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
7. The household income increased over the expected post-project income of Rs 90000/Annum by 6.73 % i.e. Rs 6500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 67.20, 18.50, 11.70 and 2.60 % respectively.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
9. The 35 % of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Interacting with Farmers & Visited the Vegetation Programme of IWMP-IV

Name of Project - **IWMP-I**
Block - **Gangapur**
District - **Aurangabad**
State - **Maharashtra**

Table 1: Activity wise Physical Target and Achievements of IWMP- I Block- Gangapur District- Aurangabad (Maharashtra)

Sanctioned Amount- 362.79(Lakh)

Expenditure- 195.42(Lakh)

Expenditure % - 53.86

Total project Area- 3295.30 ha

Year of Sanction- 2009-2010

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management - NRM					
1	Field Bunds – Compartment Bunding	Ha.	1760	1605	91.20	Other Farmers are not interested For Field bunds
2	Farm ponds	Nos.	33	6	18.20	Other Farmers are not interested For Field bunds
3	Check Dams (Cement Nala Bunds)	Nos.	4	2	50	Other Farmers are not given consent at the Time implementation
B.	Production Activities					
1.	Micro irrigation (Drip Set)	Nos.	33	33	100	Target achieved
2	Chaff Cutter	Nos.	2	2	100	Target achieved
3	Multi crop Thresher	Nos.	1	1	100	Target achieved
4	Other Implements (Sprinklers)	Nos.	34	34	100	Target achieved
5	Pipeline	Nos.	68	68	100	Target achieved
6	Electric / Diesel Pump set	Nos.	3	3	100	Target achieved
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	17	11	64.70	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	30	21	70	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Field Bunds, Farm ponds and Check Dams work was achieved to the extent of 91.20, 18.20 and 50% respectively.
2. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of all 6 activities namely, Micro irrigation, Chaff Cutter, Multi crop Thresher, Other Implements, (Sprinklers) Pipeline and Electric / Diesel Pump set were achieved as per outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concerned department i.e. Department of agriculture.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 64.70% of SHG and 70 % fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were Mobil repairing, poultry rearing, motorcycle repairing work, dal mill, agro-service Centre, tailoring, Grocery shop, papad making work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 60% of SHG has been working properly and repaying the loan in time. 40% of SHG were not working smoothly and not repaying the loan in time. Out of them 10 % SHG were waiting for waiver of the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP- I Block-Gangapur District- Aurangabad
(Maharashtra)**

Sr. No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	7-12	6-10	6.5	-0.50	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	00	0	0	0	Target was not taken in DPR.
3	Change in irrigated area	ha	290	492	398	-94	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	2625	3033	2856	-177	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity						
	Maize	Kg/ha	1088	1250	1308	58	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Cotton	Kg/ha	314	370	410	40	
	Arhar	Kg/ha	687	790	905	115	
	soybean	Kg/ha	560	644	775	131	
	Wheat	Kg/ha	1500	1725	1869	144	
	Gram	Kg/ha	811	932	955	55	
	R.Jowar	Kg/ha	1067	1227	1101	30	
6	Area under horticulture	ha	20	42	35	-7	Farmers were interested due to higher income.
7	SHG federations	No.	0	60	47	-13	Some groups not fulfill

Sr. No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
	formed						the pre-requisite for SHG formation
8	Income	Rs.	48000	80000	86000	6000	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	190	00	47	-47	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	110	150	130	-20	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	142	42	98	-56	Target was not achieved due to lack of fund.
12	Area under vegetation	ha	0	5	2	-3	Only 2.00 ha. land was allotted for vegetation by gram Sabah

Impact Evaluation Summary of IWMP- I Block-Gangapur District- Aurangabad (Maharashtra)

1. The anticipated increase in ground water table has not been achieved i.e. -0.50 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2&3 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Field Bunds – Compartment Bunding structure (Refer items 1 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 2856 ha against target of 3033 ha) and remained short by 177 ha i.e. 5.83% (Refer Item 4 table 2) due to 39.43% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 19.10% short than the target (achieved 398 ha against target of 492 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 20 % (achieved 130% against target of 150%) – Refer item 10, table 2.
The progress of both these items remained short due to lack of harvested rain water quantity. However, the productivity of maize, cotton, arhar, soybean, wheat, gram and jowar crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 83.30% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not receiving the remunerative price of horticulture produce.
5. The 78.30% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs80000/Annum by 7.50 % i.e. Rs6000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 66.10, 18.30, 12.80 and 2.80 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 40.0% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the Field Crop & Water Harvesting Structure of IWMP-I

Name of Project - IWMP-II
Block - Gangapur
District - Aurangabad
State - Maharashtra

Table 1: Activity wise Physical Target and Achievements of IWMP- II Block- Gangapur District- Aurangabad (Maharashtra)

Sanctioned Amount- 316.45 (Lakh)

Expenditure- .102.54 (Lakh)

Expenditure % - 32.40

Total project Area- 2809.00 ha

Year of Sanction- 2009-2010

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management - NRM					
1	Field Bunds – Compartment Bunding	Ha.	1241	1061	85.49	Other Farmers are not interested For Field bunds
2	Farm ponds	Nos.	68	9	13.23	Other Farmers are not interested For Field bunds
3	Check Dams (Cement Nala Bunds)	Nos.	2	0	0.00	Other Farmers are not given consent at the Time implementation
4	Earthen Structures	Nos.	410	0	0.00	Lack of fund
	Total					
B.	Production Activities					
1.	Micro irrigation (Drip Set)	Nos.	4	4	100	Target achieved
2	Chaff Cutter	Nos.	1	1	100	Target achieved
3	Rotavator	Nos	1	1	100	Target achieved
4	Other Implements	Nos	11	11	100	Target achieved
5	Pipeline	Nos	13	13	100	Target achieved
6	Bore well/s		1	1	100	Target achieved
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	10	3	30	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.

2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	20	10	50	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.
3	Grant in Aids to Federation SHG for their livelihood plan.	No	5	0	0	SHG Federation were not formed

From the above table the conclusions derived are as follows-

A Natural Resource Management (NRM)

1. The target of Field Bunds – Compartment Bunding and farm pond work was achieved to the extent of 85.49and13.23%.
2. The work of Check Dams and Earthen Structures has remained unattended. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B Production Activities

1. Out of 6 production activities target of all 6 activities namely, Micro irrigation, Chaff Cutter, Rotavator, Other Implements,(Sprinklers), Pipeline and Bore well/s were achieved as per out come. The main reason for achieving the target was availability of fund, villager’s interest and convergence of concern department i.e. Department of agriculture.

C Livelihood system

1. The revolving fund granted for livelihood action plan to 30% of SHG and 50 % fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were Mobil repairing, poultry raring, motorcycle repairing work, dal mill, agro-service centre,, tailoring, Grocery shop, papad making work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 64% of SHG has been working properly and repaying the loan in time.36% of SHG were not working smoothly and not repaying the loan in time. Out of them 12 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP- II Block- Gangapur District- Aurangabad
(Maharashtra)**

Sr.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	10-12	8-10	9-11	-1.00	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	00	0	0	0	Target was not taken in DPR.
3	Change in irrigated area	ha	270	421	336	-85	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	1966	2340	2210	-130	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity						
	Maize	Kg/ha	1088	1272	1308	36	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Cotton	Kg/ha	314	367	431	64	
	Arhar	Kg/ha	687	803	905	102	
	Bajara	Kg/ha	851	995	1075	80	
	Wheat	Kg/ha	1500	1755	1869	114	
	Gram	Kg/ha	811	940	955	15	
	.Jowar(rabi)	Kg/ha	1067	1100	1156	56	
6	Area under horticulture	ha	15	45	32	-13	Farmers were interested due to higher income.
7	SHG federations formed	No.	0	40	30	-10	Some groups not fulfill the pre-requisite for SHG formation

8	Income	Rs.	50000	90000	94000	4200	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	242	45	25	-20	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	115	145	130	-15	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	122	50	75	-25	Target was not achieved due to lack of fund.
12	Area under vegetation	ha	0	20	8.5	-11.50	Only 8.50 ha. land was allotted for vegetation by gram Sabah

Impact Evaluation Summary of IWMP- II Block-Gangapur District- Aurangabad (Maharashtra)

1. The anticipate increase in ground water table has been not achieved i.e. -1.00 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 3&4 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Field Bunds – Compartment Bunding and farm pond structure (Refer items 1&2 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 2210 ha against target of 2340 ha) and remained short by 130 ha i.e. 5.56% (Refer Item 4 table 2) due to 50% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 20.10% short than the target (achieved 336 ha against target of 421 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 15 % (achieved 130% against target of 145%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of maize, cotton, arhar, soybean, wheat, gram and jowar crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 71.10% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 75% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs90000/Annum by 4.67 % i.e. Rs 4200/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 68.10, 17.50, 12.10 and 2.10 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 42.50% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the Field Crop & Interacting with the Farmers of IWMP-II

Name of Project	- IWMP-III
Block	- Gangapur
District	- Aurangabad
State	- Maharashtra

Table 1: Activity wise Physical Target and Achievements of IWMP- III Block- Gangapur District- Aurangabad (Maharashtra)

Sanctioned Amount- 728.20 (Lakh)

Expenditure- 470.66 (Lakh)

Expenditure % - 64.63

Total project Area- 6556.87 ha

Year of Sanction- 2009-2010

S.No	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management - NRM					
1	Field Bunds – Compartment Bunding	Ha.	4197.80	3698	88.09	Other Farmers are not interested For Field bunds
2	Farm ponds	Nos.	14	14	100	Target achieved
3	Check Dams (Cement Nala Bunds)	Nos.	15	14	93.33	Other Farmers are not given consent at the Time implementation
B.	Production Activities					
1.	Micro irrigation	Nos.	53	53	100	Target achieved
2	Chaff Cutter	Nos.	10	10	100	Target achieved
3	Multi crop Thresher	Nos.	3	3	100	Target achieved
4	Rotavator	Nos.	4	4	100	Target achieved
5	Seed Cum Fertilizer Drill	Ha.	2	2	100	Target achieved
6	Pipeline	Nos.	69	69	100	Target achieved
7	Electric / Diesel Pump set	Nos.	23	23	100	Target achieved -
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	20	11	55	funds not available
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	47	32	68	Other Beneficiaries are not interested

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Farm ponds structure was achieved as per expected outcome.
2. The target of Field Bunds – Compartment Bunding and check dam work was achieved to the extent of 88.09and93.30%. . All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 8 production activities target of all 8 activities namely, Micro irrigation, Chaff Cutter, Rotavator, Multi crop Thresher, Seed Cum Fertilizer Drill, Pipeline and Electric / Diesel Pump set were achieved as per out come. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture & horticulture.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 55% of SHG and 68 % fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were Mobil repairing, poultry raring, motorcycle repairing work, flour mill, agro-service centre,, tailoring, Grocery shop, papad making work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 61% of SHG has been working properly and repaying the loan in time.39% of SHG were not working smoothly and not repaying the loan in time. Out of them 15 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP- III Block-Gangapur District- Aurangabad
(Maharashtra)**

Sr.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	9-10	7-8	8-10	-1.00	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	00	0	0	0	Target was not taken in DPR.
3	Change in irrigated area	ha	310	670	504	-166	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	4590	5360	5147	-213	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity						
	Maize	Kg/ha	1088	1283	1340	57	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Cotton	Kg/ha	314	370	405	35	
	Arhar	Kg/ha	687	810	900	90	
	Bajara	Kg/ha	851	1004	1170	166	
	Wheat	Kg/ha	1500	1760	1851	91	
	Gram	Kg/ha	811	950	975	25	
	.Jowar(rabi)	Kg/ha	1067	1100	1160	60	
6	Area under horticulture	ha	18	214	135	-79	Farmers were interested due to higher income.
7	SHG federations formed	No.	0	80	67	-13	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	52000	88000	91000	3000	Income of Household

							increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	450	00	125	-125	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	110	145	130	-15	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	218	50	140	-90	Target was not achieved due to lack of fund.
12	Area under vegetation	ha	0	17	5.20	-11.80	Only 5.20 ha. land was allotted for vegetation by gram Sabah

Impact Evaluation Summary of IWMP-III Block-Gangapur District- Aurangabad (Maharashtra)

1. The anticipate increase in ground water table has been not achieved i.e. -1.00 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1&3 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, farm pond structure (Refer items2 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 5147 ha against target of 5360 ha) and remained short by 213 ha i.e. 3.97% (Refer Item 4 table 2) due to 53.60% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 24.78% short than the target (achieved 504 ha against target of 670 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 15 % (achieved 130% against target of 145%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of maize, cotton, arhar, soybean, wheat, gram and jowar crops has been more than the target due to adoption of HYV of crop variety, crop management technology and judicious use of limited irrigation water in Rabi crops.
4. The 63.10% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 83.75% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 88000/Annum by 3.41 % i.e. Rs 3000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
7. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 66.40, 18.70, 12.30 and 2.60 % respectively. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 30.60% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the Micro Irrigation System & Check Dam of IWMP-II

Name of Project - IWMP-IV
Block - Gangapur
District - Aurangabad
State - Maharashtra

Table 1: Activity wise Physical Target and Achievements of IWMP- IV Block- Gangapur District- Aurangabad (Maharashtra)

Sanctioned Amount- 659.70 (Lakh)
 Expenditure % - 64.63
 Year of Sanction- 2009-2010

Expenditure- 355.57 (Lakh)
 Total project Area- 5522.30 ha

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management - NRM					
1	Field Bunds – Compartment Bunding	Ha.	3068.00	2774	90.41	Other Farmers are not interested For Field bunds
2	Continuous Contour Trenches	Ha.	80	80	100.0	Target achieved
3	Farm ponds	Nos.	31	9	29.10	Farmers not turned up during execution.
4.	Check Dams (Cement Nala Bunds)	Nos.	13	13	100	Target achieved
B.	Production Activities					
1	Seed Cum Fertilizer Drill	No.	20	10	50	Farmers not turned up during execution.
2	Agriculture Implements	Nos.	241	57	23.65	
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	10	4	40	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	70	51	72.85	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Continuous Contour Trenches and Check Dams structure was achieved as per expected outcome.
2. The target of Field Bunds – Compartment Bunding and farm pond work was achieved to the extent of 90.41 and 29.10%. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 2 production activities target of all 2 activities namely, Seed Cum Fertilizer Drill and Agriculture Implements, were achieved to the extent of 50 and 23.65% respectively. The main reason for not achieving the target was not availability of fund, lack of villager's interest and convergence of concern department i.e. Department of agriculture & horticulture.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 40% of SHG and 72.85 % fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were Mobil repairing, poultry rearing, motorcycle repairing work, flour mill, agro-service centre, tailoring, Grocery shop, papad making work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 67% of SHG has been working properly and repaying the loan in time. 33% of SHG were not working smoothly and not repaying the loan in time. Out of them 14 % SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP- IV Block-Gangapur District- Aurangabad
(Maharashtra)**

Sr.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	11-12	9	10.20	-1.20	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	00	0	0	0	Target was not taken in DPR.
3	Change in irrigated area	ha	210	830	675	-155	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	4760	5490	5240	-250	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity						
	Maize	Kg/ha	1088	1262	1290	28	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Cotton	Kg/ha	314	364	406	42	
	Arhar	Kg/ha	687	796	850	54	
	Wheat	Kg/ha	1500	1740	1865	125	
	Gram	Kg/ha	811	940	955	15	
	Jowar (rabi)	Kg/ha	1067	1105	1180	75	
6	Area under horticulture	ha	15	105	70	-35	Farmers were interested due to higher income.
7	SHG formed	No.	0	80	55	-25	Some groups not fulfill the pre-requisite for SHG formation

8	Income	Rs.	49000	86000	90800	4800	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	365	0	110	-110	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	110	140	130	-10	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	165	70	110	-40	Target was not achieved due to lack of fund.
12	Area under vegetation	ha	0	14	7.5	-6.50	Only 7.50 ha. land was allotted for vegetation by gram Sabah

Impact Evaluation Summary of IWMP-IV Block-Gangapur District- Aurangabad (Maharashtra)

1. The anticipate increase in ground water table has been not achieved i.e. -1.20 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1&3 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Continuous Contour Trenches and check dam Structure (Refer items2&4 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 5240 ha against target of 5490 ha) and remained short by 250 ha i.e. 4.55% (Refer Item 4 table 2) due to 42.10 less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 18.62% short than the target (achieved 675 ha against target of 830 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10 % (achieved 130% against target of 140%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of maize, cotton, arhar, wheat, gram and jowar crops has been more than the target due to adoption of HYV of crop variety, crop management technology and judicious use of limited irrigation water in Rabi crops.
4. The 66.70% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 68.75% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 86000/Annum by 5.58 % i.e. Rs 4800/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
7. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 65.40, 19.10, 13.40 and 2.10 % respectively. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 53.60% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the Horticulture Crop & Field Bunding Programme-IV

Name of Project - IWMP-I
Block - Renapur
District - Latur
State - Maharashtra

Table 1: Activity wise Physical Target and Achievements of IWMP- I Block- Renapur District- Latur (Maharashtra)

Sanctioned Amount- 261.89 (Lakh)

Expenditure- 110.03 (Lakh)

Expenditure % - 42.01

Total project Area- 2774.96 ha

Year of Sanction- 2009-2010

S.No	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management - NRM					
1	Field Bunds – Compartmental Bunding	Ha.	1362	1024.84	75.24	Other Farmers are not interested For Field bunds
2	Check Dams (Cement Nala Bunds)	Nos.	7	0	0	Farmers are not given consent at the Time implementation
3	Continuous contour trenches(CCT)	Ha.	14.50	9.50	65.50	Non availability of fund
4	NHM(plantation)	Ha.	40	12.50	31.25	Farmers were not interested
5	A forestation	Ha.	50	15.40	30.80	Lack of fund
B.	Production Activities					
1	Chaff Cutter	Nos.	7	0	0.00	Lack of fund
2	Multi crop Thresher	Nos.	03	0	0.00	Lack of fund
3	Seed Cum Fertilizer-Drill	Ha	5	0	0.00	Lack of fund
4	Other Implements	Nos.	52	0	0.00	Lack of fund
5	Pipeline	No's	42	0	0.00	Lack of fund
6	Crop demonstration	No's	50	50	100	Target achieved With the coordination of Department of Agriculture.
7	poultry	No's	10	4	40	Some Farmers not turned up during execution.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	64	38	59.40	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	23	21	91.30	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of Field Bunds, Continuous contour trenches (CCT), NHM (plantation) and A forestation were achieved to the extent of 75.24, 65.50, 31.25 and 30.80% respectively.
2. Work of construction of Check Dams (Cement Nala Bunds) structure has remained unattended. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 7 production activities target of 2 activities namely, crops demonstration and poultry 100 and 40 percent were achieved respectively. The main reason for not achieving the target were lack of fund, villagers not turned up during execution. and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture .the target of Chaff Cutter, Multi crop Thresher, Seed Cum Fertilizer- Drill, Other Implements and Pipeline work has remained unattended

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 59.40% of SHG and 91.30% fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were Mobil repairing, poultry rearing, masonry work, Dal mill, agro-service centre,, tailoring, Grocery shop, backyard poultry work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 53% of SHG has been working properly and repaying the loan in time. 47% of SHG were not working smoothly and not repaying the loan in time. Out of them 15 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP- I Block- Renapur District- Latur (Maharashtra)

Sr.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	3.58	2.60	3.10	0.50	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	00	0	0	0	Target was not taken in DPR.
3	Change in irrigated area	ha	303	745	532	-213	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	3368	3565	3455	-107	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity						
	sorghum	Kg/ha	626	650	693	43	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	soybean	Kg/ha	418	625	710	85	
	Gram	Kg/ha	351	420	470	50	
	Rabi. sorghum	Kg/ha	470	598	668	70	
6	Area under horticulture	ha	34	68	48	-20	Farmers were interested due to higher income.
7	SHG (Self Help Group) formed	No.	2	80	60	-20	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	3800	48000	53000	5000	Income of Household increase due to increase

							in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	325	100	150	-50	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	100	150	125	-25	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	0	0	0	0	Target was not taken in DPR.
12	Area under vegetation	ha	12	45	30	-15	Only 30ha.land was allotted for vegetation by gram Sabah

Impact Evaluation Summary of IWMP- I Block- Renapur District- Latur(Maharashtra)

1. The anticipate increase in ground water table has been not achieved i.e. -0.50 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item1, 2&3 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, field bund and Continuous contour trenches(CCT) (Refer items1 &3 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected(actual being 3455 ha against target of 3565 ha) and remained short by107 ha i.e.3.10% (Refer Item 4 table 2)due to no any progress on conversion of waste land into agricultural land (Refer Item11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 28.60% short than the target (achieved532 ha against target of 745 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 25 % (achieved 125% against target of 150%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of sorghum , soybean ,gram and sorghum(rabi) crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 70.60% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 66.70% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs48000/Annum by10.41 % i.e. Rs5000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 65.40, 19.30, 13.50and 1.80 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 75% of the expected outcome of Area under vegetation has been achieved to check the run off water to retain the soil moisture for crop yield .



Latitude: 18.63084
Longitude: 76.6274
Elevation: 706.91m
Accuracy: 7.7m
Time: 24-09-2019 13:09
Note: iwmp 01 pangaon tq Renapur dist latur

Powered by NoteCam



Latitude: 18.155811
Longitude: 76.782872
GPSTime: 27/09/2019 12:01
Note: IWMP
CLUSTER 4
Activity SHG Fedration
LAMBOTA TAH NILANGA DIST LATUR

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WAPCOS Experts Interacting with Farmers & Member of Women SHG of IWMP-I

Name of Project - IWMP-II
Block - Renapur
District - Latur
State - Maharashtra

Table 1: Activity wise Physical Target and Achievements of IWMP- II Block- Renapur District- Latur (Maharashtra)

Sanctioned Amount- 214.38(Lakh)

Expenditure- 98.77 (Lakh)

Expenditure % - 46.07

Total project Area- 1823.57 ha

Year of Sanction- 2009-2010

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management - NRM					
1	Field Bunds – Compartment Bunding	Ha.	1371.30	1009.30	73.60	Other Farmers are not interested For Field bunds
2	Check Dams (Cement Nala Bunds)	Nos.	5	0	0.00	Other Farmers are not given consent at the Time implementation
3	Continuous contour trenches(CCT)	Ha..	24.70	15	60.70	Non availability of fund
4	NHM(plantation)	Ha	40	24	60	Farmers were not interested
5	A forestation	Ha	50	21.50	43	Lack of fund
B.	Production Activities					
1	Chaff Cutter	Nos.	2	0	0.00	funds not available
2	Multi crop Thresher	Nos	2	0	0.00	funds not available
3	Seed Cum Fertilizer Drill	Ha	2	0	0.00	funds not available
4	Other Implements	Nos	2	0	0.00	funds not available
5	Pipeline	Nos	81	0	0.00	funds not available
6	poultry	Nos	5	2	40	Due to religion
7	Crop demonstration	Nos	45	45	100	Target achieved With the coordination of Department of Agriculture.
8	Vermin compost	Nos	12	7	58.30	Some Farmers not turned up during execution.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	36	24	66.70	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	19	15	78.94	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Field Bunds, Continuous contour trenches (CCT), NHM (plantation) and A forestation were achieved to the extent of 73.60, 60.70, 60 and 43% respectively.
2. Work of construction of Check Dams (Cement Nala Bunds) structure has remained unattended. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 8 production activities target of 3 activities namely, crops demonstration, Vermin compost and poultry 100, 58.30 and 40 percent were achieved respectively. The main reason for not achieving the target were lack of fund, villagers not turned up during execution and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture .the target of Chaff Cutter, Multi crop Thresher, Seed Cum Fertilizer- Drill, Other Implements and Pipeline work has remained unattended

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 66.70% of SHG and 78.94% fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were Mobil repairing, poultry rearing, masonry work, Dal mill, agro-service Centre, tailoring, Grocery shop, backyard poultry work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 58% of SHG has been working properly and repaying the loan in time. 42% of SHG were not working smoothly and not repaying the loan in time. Out of them 18 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP-II Block- Renapur District- Latur
(Maharashtra)**

Sr.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	3.58	2.59	3.10	-0.51	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	00	0	0	0	Target was not taken in DPR.
3	Change in irrigated area	ha	120	745	530	-215	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	3368	3565	3420	-145	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	Kg/ha.					
	Sorghum	Kg/ha	626	650	693	43	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	soybean	Kg/ha	418	630	725	95	
	Gram	Kg/ha	351	460	482	22	
	Sorghum(rabi)	Kg/ha	470	560	600	40	
6	Area under horticulture	ha	34	70	52	-18	Farmers were interested due to higher income.
7	SHG (Self Help Group) formed	No.	0	60	42	-18	Some groups not fulfill the pre-requisite for SHG formation

8	Income	Rs.	38000	45600	50200	4600	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	325	100	80	-20	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	110	200	150	-50	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	0	0	0	0	Target not taken in DPR.
12	Area under vegetation	ha	12	45	28	-17	Only 28ha.land was allotted for vegetation by gram Sabah

Impact Evaluation Summary of IWMP- II Block- Renapur District- Latur(Maharashtra)

1. The anticipate increase in ground water table has been not achieved i.e. -0.51 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item1, 2&3 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, field bund and Continuous contour trenches(CCT) (Refer items1 &3 of NRM activity table 1).
2. The“Area Under Agriculture Crop” did not increase as expected (actual being 3420 ha against target of 3565 ha) and remained short by145 ha i.e.4.10% (Refer Item 4 table 2)due to not any progress on conversion of waste land into agricultural land (Refer Item11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 28.90% short than the target (achieved530 ha against target of 745 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 50 % (achieved 150% against target of 200%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of sorghum , soybean ,gram and sorghum(rabi) crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 74.30% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 70% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs45600/Annum by10.10 % i.e. Rs4600/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 66.50, 20.30, 11.50and 1.70 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 62.20% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the Water Harvesting Structure & Interacting with Farmers of IWMP-II

Name of Project - IWMP-III
Block - Renapur
District - Latur
State - Maharashtra

Table 1: Activity wise Physical Target and Achievements of IWMP- III Block- Renapur District- Latur (Maharashtra)

Sanctioned Amount- 670.45 (Lakh)
Expenditure % - 51.75
Year of Sanction- 2009-2010

Expenditure- 347.01 (Lakh)
Total project Area-6795 ha

S. No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management - NRM					
1	Field Bunds – Compartment Bunding	Ha.	4522.90	3909.52	86.43	Other Farmers are not interested For Field bunds
2	Farm ponds	Nos.	6	5	83.30	Lack of fund
3.	Check Dams (Cement Nala Bunds)	Nos.	14	0	0.00	Other Farmers are not given consent at the Time implementation
4	NHM(plantation)	Ha	24	10	41.70	Some Farmers not turned up during
5	A forestation	Ha	18	12.50	69.40	Lack of fund
B.	Production Activities					
1	Chaff Cutter	Nos.	29	0	0.00	-Funds not Available
2	Multi crop Thresher	Nos	33	0	0.00	-Funds not Available
3	Seed Cum Fertilizer Drill	Ha	34	0	0.00	-Funds not Available
4	Other Implements	Nos	15	0	0.00	-Funds not Available
5	Pipeline	Nos	168	0	0.00	-Funds not Available
6	poultry	Nos	10	6	60	Due to religion
7	Crop demonstration	Nos	60	60	100	Target achieved With the coordination of Department of Agriculture.
8	Vermin compost	Nos	15	8	53.30	Some Farmers not turned up during execution.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	24	17	70.80	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	30	22	73.30	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Field Bunds, farm pond, NHM (plantation) and A forestation were achieved to the extent of 86.43,83.30,41.70 and 69.40% respectively.
2. Work of construction of Check Dams (Cement Nala Bunds) structure has remained unattended. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 8 production activities target of 3 activities namely, crops demonstration, Vermin compost and poultry 100, 53.30 and 60 percent were achieved respectively. The main reason for not achieving the target were lack of fund, villagers not turned up during execution and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture .the target of Chaff Cutter, Multi crop Thresher, Seed Cum Fertilizer- Drill, Other Implements and Pipeline work has remained unattended

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 70.80% of SHG and 73.30% fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were Mobil repairing, poultry raring, masonry work, Dal mill, agro-service centre, tailoring, Grocery shop, backyard poultry work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 62 % of SHG has been working properly and repaying the loan in time.38% of SHG were not working smoothly and not repaying the loan in time. Out of them 14 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP- III Block-Renapur District- Latur
(Maharashtra)**

Sr.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	3.58	2.60	3.10	-050	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	00	0	0	0	Target was not taken in DPR.
3	Change in irrigated area	ha	374.40	1148	780	-368	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	1446	1682	1590	-92	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity						
	sorghum	Kg/ha	899	959	974	15	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	soybean	Kg/ha	938	1358	1440	82	
	Gram	Kg/ha	938	1150	1180	30	
	sorghum(<i>rabi</i>)	Kg/ha	899	1050	1090	40	
6	Area under horticulture	ha	8.15	44	32	-12	Farmers were interested due to higher income.
7	SHG (Self Help Group) formed	No.	00	80	54	-26	Some groups not fulfill the pre-requisite for SHG formation

8	Income	Rs.	30000	60500	65000	4500	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	525	210	240	-30	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	100	150	130	-20	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	0	0	0	0	Target not taken in DPR.
12	Area under vegetation	ha	4	7	6	-1	Only 6 ha. land was allotted for vegetation by gram Sabah

Impact Evaluation Summary of IWMP- III Block-Renapur District- Latur(Maharashtra)

1. The anticipate increase in ground water table has been not achieved i.e. -0.50 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item1, 2&3 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, field bund and Continuous contour trenches(CCT) (Refer items1 &3 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 1590 ha against target of 1682 ha) and remained short by92 ha i.e.5.50% (Refer Item 4 table 2) due to not any progress on conversion of waste land into agricultural land (Refer Item11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 32.00% short than the target (achieved780 ha against target of 1148 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 20 % (achieved 130% against target of 150%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of sorghum , soybean ,gram and sorghum(rabi) crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 72.70% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 67.50% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 60500/Annum by7.43 % i.e. Rs4500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 64.50, 21.10, 12.30and 2.10 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 85.7% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the Water Harvesting Structure & Interacting with Farmers of IWMP-III

Name of Project - IWMP-IV

Block - Nilanga

District - Latur

State - Maharashtra

Table 1: Activity wise Physical Target and Achievements of IWMP- IV Block- Nilanga District- Latur (Maharashtra)

Sanctioned Amount- 476.88(Lakh)

Expenditure- 312.47(Lakh)

Expenditure % -65.52

Total project Area- 4718.93 ha

Year of Sanction-2009-2010

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management - NRM					
1	Field Bunds – Compartment Bunding	Ha.	3707.73	3199	86.27	Other Farmers are not interested For Field bunds
2	Check Dams (Cement Nala Bunds)	Nos.	6	1	16.66	Other Farmers are not given consent at the Time implementation
B.	Production Activities					
1	Chaff Cutter	Nos.	8	8	100	Target were achieved with the coordination of department of agriculture
2	Multi crop Thresher	Nos	14	13	92.85	Lack of fund
3	Seed Cum fertilizer Drill	Ha	2	2	100	Target were achieved with the coordination of department of agriculture
4	Pipeline	Nos	174	174	100	Target were achieved with the coordination of department of agriculture
5	Electric / Diesel Pump set	Nos	5	5	100	Target achieved
6	Crop demonstration	No.	40	40	100	Target achieved
C	Livelihood System/s for Assestless					
1	Revolving Fund to SHG for livelihood action plan.	No	18	13	72..0	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	25	19	76	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.
3	Grant in Aids to Federation SHG for their livelihood plan.	No	2	1	50	Some were not fulfilling the pre-requisite Federation SHG for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Field Bunds and Check Dams (Cement Nala Bunds) were achieved to the extent of 86.27 and 16.70% respectively.
2. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of all 6 activities namely, crops demonstration, Chaff Cutter, Seed Cum Fertilizer- Drill, Other Implements, Electric / Diesel Pump set Pipeline and , Multi crop Thresher work 100 and 92.85% were achieved respectively. The main reason for achieving the target was coordination of department of agriculture and availability of fund.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 72%, 76% and 50% fund was granted to SHG, individual Entrepreneurs and SHG Federation against the target respectively. The main enterprises of SHG were carpenter work, Mobil repairing, poultry rearing, masonry work, Dal mill, agro-service centre, tailoring, Grocery shop, backyard poultry work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 56 % of SHG has been working properly and repaying the loan in time. 44% of SHG were not working smoothly and not repaying the loan in time. Out of them 20 % SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP- IV Block-Nilanga District- Latur
(Maharashtra)**

S.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	4-5	3-4	3.60-4	-0.60	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	00	0	0	0	Target was not taken in DPR.
3	Change in irrigated area	ha	0	742	650	-92	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	3974	4371	4252	-119	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity						
	sorghum	Kg/ha	1105	1165	1230	65	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Soybean	Kg/ha	819	1239	1270	31	
	Moog	Kg/ha	416	735	836	101	
	sorghum	Kg/ha	1248	1548	1670	122	
		Kg/ha			956	68	
	Gram		588	888			
6	Area under horticulture	ha			1400	- 103	Farmers were interested due to higher income.
			1283	1503			
7	SHG (Self Help	No.	4	56	43	-13	Some groups not

	Group) formed						fulfill the pre-requisite for SHG formation
8	Income	Rs.	32000	58000	60500	2500	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	200	70	92	-22	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	110	160	140	-20	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	0	0	0	0	Target not taken in DPR.
12	Area under vegetation	ha	4	7	5	-2	Only 5 ha. land was allotted for vegetation by gram Sabah

Impact Evaluation Summary of IWMP- IV Block-Nilanga District- Latur(Maharashtra)

1. The anticipate increase in ground water table has been not achieved i.e. -0.60 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item1 &2 under NRM activity table 1). But the marginal increase in GW table is registered due to partial expected target achieved of other structures like, field bund and check dam (Refer items1 &3 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 4371 ha against target of 4252 ha) and remained short by119 ha i.e.2.70% (Refer Item 4 table 2) due to not any progress on conversion of waste land into agricultural land (Refer Item11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 12.40% short than the target (achieved 650 ha against target of 742 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 20 % (achieved 140% against target of 160%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of sorghum , soybean, moog ,gram and sorghum(rabi) crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 93% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 76.70% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 58000/Annum *by4.31 % i.e. Rs2500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.* The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 61.70, 23.10, 13.20and 2.00 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 71.40% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Interacting with Farmers & Discuss with the Villagers of IWMP-III

Name of Project - IWMP-V
Block - Nilanga
District - Latur
State - Maharashtra

Table 1: Activity wise Physical Target and Achievements of IWMP- V Block- Nilanga District- Latur (Maharashtra)

Sanctioned Amount- 421.92(Lakh)

Expenditure- 247.39(Lakh)

Expenditure % -58.63

Total project Area- 3516.01 ha

Year of Sanction-2009-2010

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management - NRM					
1	Field Bunds – Compartment Bunding	Ha.	3516.0	2447	69.59	Other Farmers are not interested For Field bunds
2	Continuous Contour Trenches (CCT)	Ha.	9.5	0	0.00	Lack of fund
3	Farm ponds	Nos.	8	6	75	Lack of fund
4.	Check Dams (Cement Nala Bunds)	Nos.	3	2	66.70	Other Farmers was not given consent at the Time implementation
B.	Production Activities					
1	Crop demonstration	Nos.	52	25	100	Target achieved
2	Chaff Cutter	Nos.	27	20	74.07	Lack of fund
3	Multi crop Thresher	Nos	15	12	80	Lack of fund
4	Rotavator	Nos	3	2	66.70	Lack of fund
5	Seed Cum Fertilizer Drill	Ha	15	12	80	Lack of fund
6	Pipeline	Nos	57	52	91.22	Target were achieved with the coordination of department of agriculture
7	Electric / Diesel Pump set	Nos	15	13	86.66	Lack of fund
8	Drip system		78	62	79.48	Target was achieved with the coordination of department of horticulture.

C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	15	11	73.30	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	24	19	79.10	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.
3	Grant in Aids to Federation SHG for their livelihood plan.	No	3	1	33.30.	Some were not fulfilling the pre-requisite Federation SHG for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Field Bunds, Farm ponds and Check Dams (Cement Nala Bunds) were achieved to the extent of 69.50,75 and 66.70% respectively.
2. Work of construction of Continuous Contour Trenches (CCT) structure has remained unattended. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 8 production activities target of all 8 activities namely, crops demonstration, Chaff Cutter, Seed Cum Fertilizer- Drill, Multi crop Thresher, Rotavator, Seed Cum Fertilizer Drill Electric / Diesel Pump set Pipeline and Drip system work 100,74.07,80,66.70,80,91.22,66.70 and 79.48% were achieved respectively. The main reason for not achieving the target were lack of fund, villagers not turned up during execution and lack of convergence with concern department i.e. Veterinary hospital, Department of agriculture.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 73.30, 79.10, % and 33.30% fund was granted to SHG, individual Entrepreneurs and SHG Federation against the target respectively. The main enterprises of SHG were carpenter work, Mobil repairing, poultry rearing, masonry work, Dal mill, agro-service centre, tailoring, Grocery shop, backyard poultry work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 60 % of SHG has been working properly and repaying the loan in time.40% of SHG were not working smoothly and not repaying the loan in time. Out of them 15 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP- VI Block-Nilanga District- Latur
(Maharashtra)**

Sr.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	5-7	5-6	5.4 -6	-0.40	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	00	0	0	0	Target was not taken in DPR.
3	Change in irrigated area	ha	0	892	743	-149	Expected post project outcome not achieved due to the lack of harvested rain water quantity
5	Area under agriculture crop	ha	3516	4043	3867	-351	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
7	Crop productivity						
	sorghum	Kg/ha	872	950	985	35	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Soyabean	Kg/ha	618	900	1038	138	
	Moong	Kg/ha	306	680	725	45	
	sorghum	Kg/ha	867	1050	1120	70	
	Gram	Kg/ha	557	860	950	90	
6	Area under horticulture	ha	8.15	32.00	21	-11	Farmers were interested due to higher income.
7	SHG (Self Help Group) formed	No.	0	62	42	-20	Some groups not fulfill the pre-requisite

							for SHG formation
8	Income	Rs.	32000	55000	59200	4200	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	400	150	210	-60	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	100	140	125	-15	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	0	0	0	0	Target not taken in DPR.
12	Area under vegetation	ha	4.00	7.00	4.00	-3.00	Only 4 ha. land was allotted for vegetation by gram Sabah

Impact Evaluation Summary of IWMP- VI Block- Nilanga District- Later (Maharashtra)

1. The anticipated increase in ground water table has been not achieved i.e. -0.40 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2 under NRM activity table 1). But the marginal increase in GW table is registered due to partial expected target achieved of other structures like, field bund, Farm ponds and check dam (Refer items 1, 3 & 4 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 3867 ha against target of 4043 ha) and remained short by 351 ha i.e. 8.70% (Refer Item 4 table 2) due to not any progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 16.70% short than the target (achieved 743 ha against target of 893 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 15 % (achieved 125% against target of 140%) – Refer item 10, table 2. The progress of both these items remained short due to lack of harvested rain water quantity. However, the productivity of sorghum, soybean, moong, gram and sorghum (rabi) crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 65.60% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 67.80% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 55000/Annum by 7.64 % i.e. *Rs 4200/-* mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 68.40, 18.50, 11.20 and 1.90 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 57.10% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the Field Crop Interacting with Farmers of IWMP-IV

Name of Project - IWMP-III
Block - Baramati
District - Pune
State - Maharashtra

Table 1: Activity wise Physical Target and Achievements of IWMP –III Block- Baramati District- Pune (Maharashtra)

Sanctioned Amount 598.0 Rs. Lakh
 Expenditure % -74.51%
 Year of Sanction- 2009-10

Expenditure - 445.58Rs. Lakh
 Total project Area- 4984.00ha

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management - NRM					
1	Continuous Contour Trenches (CCT)	Ha.	48.00	48.25	100	Target achieved
2	Compartment Bunding	Ha.	2089.68	1953.80	93.50	Other Farmers are not given consent at the Time implementation
3	Check Dams (Cement Nala Bunds)	Nos.	14	14	100	Target achieved
4.	Earthen Nala Bund	Nos.	2	2	100	Target achieved
5	Farm ponds	Nos.	25	24	96	Other Farmers are not given consent at the Time implementation
6	Well Recharge	Nos.	5	1	20	Other Farmers are not given consent at the Time implementation
B.	Production Activities					
1	Pipeline	Nos.	19	19	100	Target achieved
2	Electric / Diesel Pump set	Nos.	16	16	100	Target achieved
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	31	21	67.70	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	65	45	69.20	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.
3	Grant in Aids to Federation SHG for their livelihood plan.	No	01	-	-	SHG Federation were not formed

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of Continuous Contour Trenches (CCT), Check Dams and Earthen Nala Bund structure were achieved as per expected outcome
2. The target of Compartment Bunding, Farm ponds and Well Recharge work were achieved to the extent of 93.60, 96 and 20% respectively. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 2 production activities target of all 2 activities namely, Pipeline and Electric / Diesel Pump set were achieved as mentioned in DPR respectively. The main reason for achieving the target was availability of fund, villager's interest and convergence of concerned department i.e. Veterinary hospital, Department of agriculture.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 67.70% of SHG and 69.20% fund was granted to individual Entrepreneurs against the target. No fund was granted to SHG Federation because SHG Federation was not formed. The main enterprises of SHG were Mobil repairing, poultry rearing, masonry work, Dal mill, agro-service centre, tailoring, Grocery shop, backyard poultry work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, 58% of SHG has been working properly and repaying the loan in time. 42% of SHG were not working smoothly and not repaying the loan in time. Out of them 15 % SHG were waiting for waiver of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP- III Block- Baramati District- Pune (Maharashtra)

Sr.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	11.85	8.30	10.85	-2.55	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	-	146	17	-129	Target was not taken in DPR.
3	Change in irrigated area	ha	279	750	570	-180	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	4349	5085	4727	-358	Outcome of the area in the agriculture crop not achieved due to no any waste land area development
5	Crop productivity						
	Maize	Kg/ha	5000	6000	6150	1150	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Arhar	Kg/ha	1500	1670	1840	340	
	Bajara	Kg/ha	1600	1920	2210	610	
	Wheat	Kg/ha	2300	2745	2772	472	
	Gram	Kg/ha	1640	1810	2100	440	
	.Jowar(rabi)	Kg/ha	1800	2160	2175	375	
6	Area under horticulture	ha	0	171	123	-48	Farmers were interested due to higher income.
7	SHG federations formed	No.	0	110	96	-14	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	50500	75000	80600	5600	Income of Household

							increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	142	0	40	-42	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	90	120	110	-10	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	0	0	0	0	Target not taken in DPR.
12	Area under vegetation	ha	0	15	6.5	-8.50	Only 6.50 ha. land was allotted for vegetation by gram Sabah

Impact Evaluation Summary of IWMP - III Block- Baramati District- Pune (Maharashtra)

1. The anticipated increase in ground water table has not been achieved i.e. -2.55 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer items 2, 5 & 6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Continuous Contour Trenches (CCT), Check Dams and Earthen Nala Bund (Refer items 1, 3 & 4 of NRM activity table 1).
2. The "Area Under Agriculture Crop" did not increase as expected (actual being 4727 ha against target of 5085 ha) and remained short by 358 ha i.e. 7.04% (Refer Item 4 table 2) due to no progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 24% short than the target (achieved 570 ha against target of 750 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10 % (achieved 110% against target of 120%) – Refer item 10, table 2.
4. The progress of both these items remained short due to lack of harvested rain water quantity. However, the productivity of maize, bajra, arhar, wheat, gram and sorghum (rabi) crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
5. The 71.93% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not receiving the remunerative price of horticulture produce.
6. The 87.20% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
7. The household income increased over the expected post-project income of Rs75000/Annum by 7.47 % i.e. Rs5600/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 66.50, 18.30, 13.10 and 2.10 % respectively.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
9. The 43.30% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



**WAPCOS Experts Visited the Water Harvesting Structure & Interacting with Farmers
of IWMP-III**

Name of Project - IWMP-IV
Block - Baramati
District - Pune
State - Maharashtra

Table 1: Activity wise Physical Target and Achievements of IWMP- IV Block- Baramati District- Pune (Maharashtra)

Sanctioned Amount- 440.57Rs. Lakh

Expenditure- 407.70Rs. Lakh

Expenditure % -92.54

Total project Area- 4930.00ha

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management - NRM					
1	Compartment Bunding	Ha.	2681.67	2587.07	96.47	Other Farmers are not given consent at the Time implementation
2	Check Dams (Cement Nala Bunds)	Nos.	9	9	100	Target achieved
3	Farm ponds	Nos.	50	50	100	Target achieved
4	Well Recharge	Nos.	12	12	100	Target achieved
B.	Production Activities					
1	Pipeline	Nos.	13	13	100	Target achieved
	Electric / Diesel Pump set	Nos.	17	17	100	Target achieved
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	36	21	58.33	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	32	24	75	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of Check Dams, Farm ponds and Well Recharge structure were achieved as per outcome.
2. The target of Compartment Bunding, work was achieved to the extent of 96.47%. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 2 production activities target of all 2 activities namely, Pipeline and Electric / Diesel Pump set were achieved as mention in DPR. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Veterinary hospital, Department of agriculture.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 58.33% of SHG and 75% fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were Mobil repairing, jhadu making poultry raring, masonry work, Dal mill, agro-service Centre, tailoring, papad making, Grocery shop, work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 62% of SHG has been working properly and repaying the loan in time.38% of SHG were not working smoothly and not repaying the loan in time. Out of them 10 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP- IV, Block- baramati District- PUNE (Maharashtra)

Sr.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	11.85	8.65	10.85	-2.20	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	-	146	12	-134	Target was not taken in DPR.
3	Change in irrigated area	ha	0	379	272	-107	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	3430	4900	4690	-210	Outcome of the area in the agriculture crop not achieved due to no any waste land area development
5	Crop productivity						
	Maize	Kg/ha	2400	2500	2540	40	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Arhar	Kg/ha	900	950	1000	50	
	Bajara	Kg/ha	1610	1856	1940	84	
	Wheat	Kg/ha	2300	2740	2772	32	
	Gram	Kg/ha	640	810	965	155	
	R.Jowar	Kg/ha	1800	1850	1890	40	
6	Area under horticulture	ha	130	200	162	-38	Farmers were interested due to

							higher income.
7	SHG federations formed	No.	-	89	68	-21	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	65000	91000	94500	3500	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	184	0	64	-64	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	90	120	115	-5	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	0	0	0	0	Target not taken in DPR.
12	Area under vegetation	ha	0	12	4.20	7.80	Only 4.20 ha. land was allotted for vegetation by gram Sabah

Impact Evaluation Summary of IWMP- IV Block- Baramati District- Pune (Maharashtra)

1. The anticipated increase in ground water table has been not achieved i.e. -2.20 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed and annual rainfall was below to normal average (Refer item 1 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, check dam, farm pond and Well Recharge (Refer items 2,3 & 4 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 4690 ha against target of 4900 ha) and remained short by 210 ha i.e. 4.28% (Refer Item 4 table 2) due to no any progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 28.20% short than the target (achieved 272 ha against target of 379 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 5 % (achieved 115% against target of 120%) – Refer item 10, table 2.
The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of maize, bajra, arhar, wheat, gram and sorghum (rabi) crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 81% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 76.40% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 91000/Annum by 3.80 % i.e. Rs 3500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 67.30, 18.30, 12.80 and 1.60 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 35% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the Field Bunding Programme & Lively Hood Activity of IWMP-IV

Name of Project - IWMP-V
Block - Purandar
District - Pune
State - Maharashtra

Table 1: Activity wise Physical Target and Achievements of IWMP-V Block- Purandar District- Pune (Maharashtra)

Sanctioned Amount- 346.10Rs. Lakh

Expenditure- 318.36Rs. Lakh

Expenditure % -91.98 %

Total project Area- 3850ha

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management - NRM					
1	Compartment Bunding	Ha.	2238.94	2238.94	100	Target achieved
2	Check Dams (Cement Nala Bunds)	Nos.	9	9	100	Target achieved
3.	Earthen structure	Nos.	1	1	100	Target achieved
4	Farm ponds	Nos.	4	2	50	Other Farmers are not given consent at the Time implementation
5	Well Recharge	Nos.	5	0	0	Lack of fund
B.	Production Activities					
1.	Poultry	Nos.	85	85	100	Target achieved
2.	Electric Motor	Nos.	89	89	100	Target achieved
3	HTP Pump	Nos.	25	25	100	Target achieved
4	Chaff Cutter		17	17	100	Target achieved
C	Livelihood System					
1	Revolving Fund to SHGs for livelihood action plan	No	32	22	68.75	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to Individual Entrepreneurs for livelihood action plan	No	50	38	76	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.
3	Grant in aids to Federation SHG for their livelihood plan	No	2	0	0	Federations not formed at village level.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Compartment Bunding, Check Dams and Earthen structure were achieved as per outcome.
2. The target of farm pond work was achieved to the extent of 50%. The work of Well Recharge has remained unattended. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 4 production activities target of all 4 activities namely, Poultry , Electric Motor, HTP Pump and Chaff Cutter were achieved as per out come. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Veterinary hospital, Department of agriculture.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 68.75% of SHG and 76 % fund was granted to individual Entrepreneurs against the target. No any fun was granted to SHG Federation because SHG Federation was not formed. The main enterprises of SHG were Mobil repairing, poultry raring, masonry work, dal mill, agro-service center,, tailoring, Grocery shop, papad making work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 65% of SHG has been working properly and repaying the loan in time.35% of SHG were not working smoothly and not repaying the loan in time. Out of them 13 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP- V, Block- Purandar District- Pune
(Maharashtra)**

Sr.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	13	11	12.10	-1.10	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	9	9	0	Target was not taken in DPR.
3	Change in irrigated area	ha	170	312	264	-48	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	2940	3350	3210	-140	Outcome of the area in the agriculture crop not achieved due to no any waste land area development
5	Crop productivity						
	Bajra	Kg/ha	912	1250	1190	-60	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop. But the yield of kharif crop was less than target due to early withdraw of monsoon at the time of pod formation.
	Groundnut	Kg/ha	1350	1750	1640	-110	
	Wheat	Kg/ha	2400	2800	2900	100	
	Gram	Kg/ha	710	800	890	90	
	R.Jowar	Kg/ha	1230	1700	1810	110	
6	Area under horticulture	ha	148	227	167	-60	Farmers were interested due to higher income.

7	SHG federations formed	No.	0	106	82	-24	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	65750	105000	98000	-7000	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	440	0	56	56	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	96	120	110	-10	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	120	98	71	-27	Target not achieved due to lack of fund .
12	Area under vegetation	ha	0	32	6	26	Only 6.00 ha. land was allotted for vegetation by gram Sabah

Impact Evaluation Summary of IWMP- V Block- Purandar District- Pune (Maharashtra)

1. The anticipated increase in ground water table has not been achieved i.e. -1.10 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 4&5 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Compartment Bunding, Check Dams and Earthen structure (Refer items 1,2 &3 of NRM activity table 1).
2. The "Area Under Agriculture Crop" did not increase as expected (actual being 3210 ha against target of 3350 ha) and remained short by 140 ha i.e. 4.20% (Refer Item 4 table 2) due to 27.55% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 15.40% short than the target (achieved 264 ha against target of 312 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10 % (achieved 110% against target of 120%) – Refer item 10, table 2.
4. The progress of both these items remained short due to lack of harvested rain water quantity.
5. However, the productivity of bajra, groundnut crops has been less than the target due to early withdrawal of monsoon at the time of pod formation and yield of wheat, gram and sorghum (rabi) crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
6. The 73.64% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not receiving the remunerative price of horticulture produce.
7. The 77.36% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
8. The household income increased over the expected post-project income of Rs105000/Annum by 6.70 % i.e. Rs7000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 68.20, 17.30, 12.60 and 1.90 % respectively.
9. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
10. The 18.75% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the Water Harvesting Structure & Interacting with member of SHG of IWMP-V

Name of Project - IWMP-VI
Block - Baramati
District - Pune
State - Maharashtra

Table 1: Activity wise Physical Target and Achievements of IWMP- VI Block- Baramati District- Pune (Maharashtra)

Sanctioned Amount- 376.35Rs. Lakh

Expenditure- 354.89Rs. Lakh

Expenditure % -94.30

Total project Area- 4181.72ha

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management - NRM					
1	Continuous Contour Trenches (CCT)	Ha.	97.85	97.85	100	Target achieved
2	Compartment Bunding	Ha.	2419.00	2419	100	Target achieved
3	Check Dams (Cement Nala Bunds)	Nos.	5	5	100	Target achieved
4.	Earthen Nala Bund	Nos.	3	0	0	Lack of fund
5	Farm ponds	Nos.	19	19	100	Target achieved
6	Well Recharge	Nos.	7	0	0	Lack of fund
B.	Production Activities					
1	Pipeline	Nos.	14	14	100	Target achieved
2	Electric / Diesel Pump set	Nos.	12	12	100	Target achieved
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	42	28	66.70	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	48	39	81.25	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of Continuous Contour Trenches (CCT), Compartment Bunding, Check Dams and farm pond structure were achieved as per expected out come.
2. The target of Earthen Nala Bund and Well Recharge work has remained unattended. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 2 production activities target of all 2 activities namely, Pipeline and Electric / Diesel Pump set were achieved as expected out come. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Veterinary hospital, Department of agriculture.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 66.70% of SHG and 81.25% fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were Mobil repairing, poultry raring, masonry work, Dal mill, agro-service centre, tailoring, papad making, Grocery shop work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 57% of SHG has been working properly and repaying the loan in time.43% of SHG were not working smoothly and not repaying the loan in time. Out of them 10 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP- VI Block- Baramati District- Pune
(Maharashtra)**

Sr.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	10.66	9.66	10.20	-0.54	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	-	111	-	-111	Target was not taken in DPR.
3	Change in irrigated area	ha	924	1155	1045	-110	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	3242	3610	3456	-154	Outcome of the area in the agriculture crop not achieved due to no any waste land area development
5	Crop productivity						
	Maize	Kg/ha	2250	2450	2510	60	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Arhar	Kg/ha	500	610	670	50	
	Wheat	Kg/ha	2300	2500	2572	72	
	Gram	Kg/ha	640	810	905	95	
	Jowar(rabi)	Kg/ha	1800	1850	1890	40	
6	Area under horticulture	ha	40	73	50.50	-22.50	Farmers were interested due to higher income.
7	SHG federations	No.	0	125	90	-35	Some groups not

	formed						fulfill the pre-requisite for SHG formation
8	Income	Rs.	46200	72500	80000	7500	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	151	0	45	-45	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	103	135	120	-15	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	0	0	0	0	Target not taken in DPR.
12	Area under vegetation	ha	0	14	5	-9	Only 3.00 ha. land was allotted for vegetation by gram Sabah

Impact Evaluation Summary of IWMP- VI Block- Baramati District- Pune (Maharashtra)

1. The anticipate increase in ground water table has been not achieved i.e. -0.54 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 4&6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Continuous contour trenches(CCT), Compartment Bunding, check dam and farm pond (Refer items 1,2,3 &5 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected(actual being 3456 ha against target of 3610 ha) and remained short by 154 ha i.e. 4.30% (Refer Item 4 table 2) due to no any progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 9.52% short than the target (achieved 1045 ha against target of 1155 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 15 % (achieved 120% against target of 135%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of maize, arhar, wheat, gram and sorghum (rabi) crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 69.20% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 72 % of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs72500/Annum by 10.24 % i.e. Rs7500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 67.90, 17.40, 12.50 and 2.20 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 35.71% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the Production Activity & Horticulture Plantation in IWMP-VI

**IMPACT EVALUATION OF IWMP SAMPLE PROJECTS OF EAST KHASI HILLS
DISTRICTS –MEGHALAYA**

The Impact Evaluation of IWMP Projects has been carried out on the basis of following criteria:

1. Comparing the activity wise Physical Achievement vis-à-vis Target as per DPR (Refer Table1).
2. Comparing the Indicator- wise impact with the expected outcome after completion of the project as per DPR (Refer Table2).
3. Impact Evaluation Summary.

The project wise details are enclosed-

Name of Project- IWMP-I
Block- Myllien
District- East khasi hills
State- Meghalaya

**Table 1: Activity wise Physical Target and Achievements of Sample IWMP-I Block- Myllien
East Khasi Hills Districts –Meghalaya**

Sanctioned Amount- 50 Lakh
Expenditure %- 100
Year of Sanction- 2009-10

Expenditure- 150 Lakh
Total project area- 1000 ha

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	<i>Natural Resource Management</i>					
1	Bench terrace	Ha.	40	40	100	The total sanction fund to the project is timely provided to implementing agency. Resulting maximum targets were achieved during project period.
2	Contour bund	Ha.	100	90	90	
3	Peripheral bund.	Ha.	3496	3496	100	
4	Agro- forestry	Ha.	120	120	100	
5	Agro- horticulture	Ha.	100	100	100	
6	Improvement of degraded forest	Ha..	150	150	100	
7	Water distribution work.	No.	22	22	100	
8	Dug out pond	No.	8	7	87.50	
9	Water harvesting structure	No.	24	22	91.70	
B	Production system(Activities)					
1	Piggery unit	No.	29	20	68.96	Some villagers were not interested due to cast factor.
2	poultry	No.	8	8	100	Target achieved
3	Handicraft	No.	8	6	75	Farmers were not interested due to lack of produce marketing facility.
4	Floriculture	No.	4	4	100	Target achieved
5	Vermi composting	No.	4	4	100	Target achieved
6	Stabilized mud block	No.	8	8	100	Target achieved
7	pisciculture	No.	14	10	71.43	Farmers not turned up during execution

8	Grocery shop	No.	4	4	100	Target achieved
C	Livelihood Activities/Schemes					
1	Revolving Fund to SHG for livelihood action plan	No.	11	11	100	All Groups fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No.	116	100	86.21	Not many Groups fulfilled the pre-requisite for availing Revolving Fund.
3	Revolving fund to SHG federation for livelihood action plan	No.	3	3	100	All groups fulfilled the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Bench terrace, Contour bund, Peripheral bund, Agro- forestry, Agro- horticulture, Improvement of degraded forest, Water distribution work, Dug out pond and Water harvesting structure were maximum achieved. The reason behind that was timely availability of total sanction fund to the implementing agency. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

A. Production Activities

1. Out of 8 production activities the target of all activities namely, Piggery unit, poultry , Handicraft, Floriculture, Vermi composting, Stabilized mud block, pisciculture and Grocery shop 68.96,100,75,100,100,100,71.43 and100 percent were achieved respectively. The main reason for not achieved the target three activities were Some villagers were not interested due to cast factor, Farmers were not interested due to lack of marketing facility , Farmers not turned up during execution, and lack of convergence of concern department i.e. Department of Animal husbandry, Department of Fishery etc.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to100 % of SHG, 86.21% for Individual SHG and 100% to SHG federation against the target.
2. Expert team met the members of SHG groups during the visit. The 90.50 % of SHG has been working properly and repaying the loan in time. Only 9.50% of SHG were not working smoothly and not repaying the loan in time due to lack of market for produce, out of them some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-I Block- Myllien East Khasi Hills

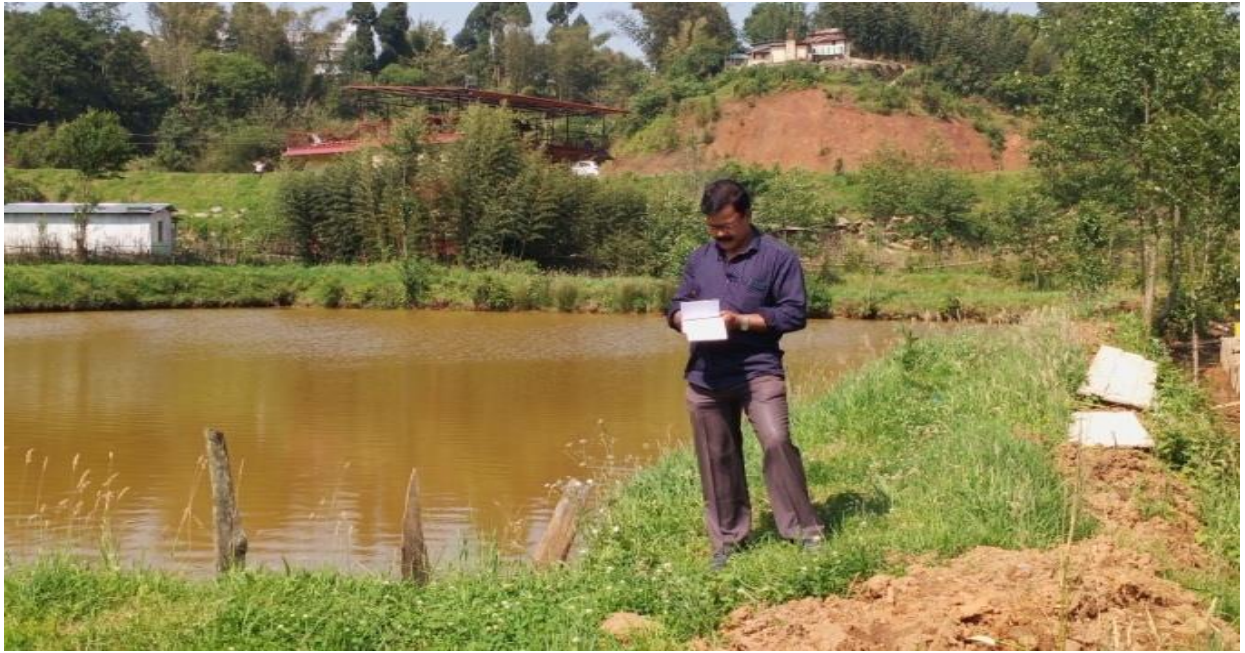
Districts –Meghalaya

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	4.70	3.30	3.50	-0.20	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	0	0	0	0	The expected outcome of this activity is not taken up in DPR of the project.
3	Change in irrigated area	ha	68	115	94	-21	Expected post project outcome not achieved due to the lack of harvested rain water quantity.
4	Area under agriculture crop	ha	280	420	358	-62	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development.
5	Crop productivity	ha					
6	Maize	Kg/ha.	1205	1740	1750	10	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop management practices and judicious use of irrigation water in crops.
	Rice autumn	Kg/ha.	2212	2450	2510	60	
	Rice summer	Kg/ha	1910	2250	2305	55	
	Rice winter	Kg/ha.	2000	2380	2450	70	
	potato	Kg/ha	7200	9600	10200	600	
7	Area under horticulture	ha	60	105	80	-25	Farmers are not interested due to lack of marketing facility of horticulture crop produce
8	SHG (Self Help Group) formed	No.	10	139	123	-16	Some groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	65000	85000	91000	6000	Income of Household increase due to increase in

							crop yield, price of crop produces ,livelihood activities and increase wage rate
10	Migration	No.	254	nil	nil	nil	Reduction in migration was achieved as per expected outcome target. However, reduction has taken place, the same is due to available work under MNAREGA and livelihood activities
11	Cropping intensity	%	123	150	150	0	The outcome of cropping intensity was achieved due to not inclusion of vegetable crop in the crop rotation.
12	Waste land development	ha	123	84	106	-22	Target not achieved due to lack of funds provision to this activity.

Impact Evaluation Summary of IWMP-I Block- Myllien East Khasi Hills Districts –Meghalaya

1. The anticipated increase in ground water table has not been achieved i.e. - 0.20 m against the above target. (Refer item 1, table 2)
2. The progress has remained short due to Water Harvesting Structure (13 numbers) not constructed (Refer item 2, 8 &9 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like bench terrace, peripheral bund and water distribution work. (Refer items 1, 3 &7 of NRM activity table 1).
3. The “Area Under Agriculture Crop” did not increase as expected (420 ha against target of 358 ha) and remained short by 62 ha i.e.17.32% (Refer Item 4 table 2) due to 26.2 % less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
4. The increase in irrigated area after implementation of the watershed structure remained 18.30% short than the target (achieved 115 ha against target of 94 ha, – (Refer item 3, table 2). Similarly the expected outcome targets of cropping intensity were achieved 150% against target of 150%) – (Refer item 11, table 2).The progress of one items remained short due lack of harvested rain water quantity and lack of inclusion of short duration crops in crop rotations . However, the productivity of Maize, three season te(rice autumn, summer and winter) of rice & potato crops has been more than the target due to adoption of HYV/ Hybrid crop variety, adapting crop management practices and judicious use of limited irrigation water in crops
5. 4. Only 23.8 % expected outcome of area under horticulture crops was achieved because of farmers were not interested to grow horticulture crop, due to lack of marketing facilities for horticulture /vegetable crops. During the field visit, team observed that the farmers were facing the problem to receive remunerative price of horticulture/vegetable crops.
6. 88.48 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
7. The household income increased over the expected post-project income of Rs.85000/Annum by 7.05 % i.e. Rs 6000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and adoption of livelihood programme by the villagers.



WAPCOS EXPERT VISIT DUGOUT POND IN IWMP –I BLOCK MYLLIEN MEGHALYA



WAPCOS EXPERT INTERACT WITH SHG MEMBER IN IWMP –I BLOCK MYLLIEN MEGHALYA

Name of Project-	IWMP-IV
Block-	Myllien
District-	East khasi hills
State-	Meghalaya

Table 1: Activity Wise Physical Target and Achievements of Sample Iwmp-IVBlock-Myllein**East Khasi Hills Districts –Meghalaya**

Sanctioned Amount- 150 Lakh

Expenditure-

150 Lakh

Expenditure %- 100

Total project area-

1000 ha

Year of Sanction- 2010-11

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Bench terrace	Ha.	10	10	100	The total sanction fund to the project is timely provided to implementing agency. Resulting maximum targets were achieved during project period.
2	Contour bund	Ha.	60	55	91.70	
3	Peripheral bund.	Rm	5116	5116	100	
4	Agro- Horticulture	Ha.	80	80	100	
5	Protection wall	Ha.	32	32	100	
6	Improvement of degraded forest	Ha.	440	440	100	
7	Check dam	No.	10	9	90	
8	Dug out pond	No.	30	28	93.30	
9	Water harvesting structure	No.	8	8	100	
B	Production system(Activities)					
1	Piggery unit	No.	20	15	75	Some villagers were not interested due to cast factor
2	poultry	No.	20	18	90	Farmers not turned up during execution
3	Food processing unit	No.	2	2	100	Target achieved
4	Floriculture	No.	2	2	100	Target achieved
5	Stabilized mud block	No.	6	6	100	Target achieved
6	Pisiculture	No.	16	13	81.25	Farmers were not interested due to lack of marketing facility.
C	Livelihood Activities/Scheme					

1	Revolving Fund to SHG for livelihood action plan	No.	14	13	92.86	Some Group was not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No.	92	86	93.48	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
3	Revolving fund to SHG federation for livelihood action plan	No.	2	2	100	All group fulfilled the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The maximum target of Bench terrace, Contour bund, Peripheral bund, , Agro- horticulture, Protection wall, Improvement of degraded forest, check dam, Dug out pond and Water harvesting structure were achieved. The reason behind that was timely availability of total sanction fund to the implementing agency. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

1. Out of 6 production activities the target of all activities namely, Piggery unit, poultry, food processing unit, Floriculture, Stabilized mud block and pisciculture 75, 90,100,100,100 and 81.25% were achieved respectively. The main reason for not achieved the target three activities were Some villagers were not interested due to cast factor, Farmers were not interested due to lack of marketing facility , Farmers not turned up during execution, and lack of convergence with concern department i.e. Department of Animal husbandry, Department of Fishery etc.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 92.86 % of SHG, 93.43% for Individual SHG and 100% to SHG federation against the target.
2. Expert team met the members of SHG groups during the visit. The 91.50 % of SHG has been working properly and repaying the loan in time. Only 8.50% of SHG were not working smoothly and not repaying the loan in time due to lack of market for produce, out of them some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-IV Block - Myllien East Khasi Hills district –Meghalaya

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	3.8	3.00	3.30	-0.30	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the project area
2	Ground water structures repaired/rejuvenated	No.	0	0	0	0	The activity was not taken up in expected outcome of project DPR.
3	Change in irrigated area	ha	96	129	120	-9	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	460	550	490	-60	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development.
5	Crop productivity	ha					
6	Maize	Kg/ha.	1165	1480	1550	70	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop management practices and judicious use of limited irrigation water in crop.
	Rice autumn	Kg/ha.	2100	2310	2500	190	
	Rice summer	Kg/ha	2260	2430	2540	110	
	Rice winter	Kg/ha.	2400	2580	2700	120	
	potato	Kg/ha	7800	9500	10000	500	
7	Area under horticulture	ha	45	80	62	-18	Farmers are not interested due to lack of marketing facilities for vegetable crops.
8	SHG (Self Help Group) formed	No.	15	108	101	-7	Some groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	72000	90000	94000	4000	Income of Household increase due to increase

							in crop yield, price of crop produces ,adoption of livelihood programme and wage rate
10	Migration	No.	305	0	15	-15	Maximum outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under MNAREGA and livelihood activities.
11	Cropping intensity	%	130	175	150	-25	The outcome of cropping intensity not achieved due to lack inclusion of vegetable crop in crop rotations.
12	Waste land development	ha	340	260	295	-35	Target not achieved due to lack of fund provision for this activity.

Impact Evaluation Summary of IWMP-IV Block- Myllien East Khasi Hills District–Meghalaya

1. The anticipate increase in ground water table has been not achieved i.e. -0.30 m against the above target. (Refer item 1, table 2)The progress has remained short due to Water Harvesting Structure not constructed (Refer item2, 7 &8 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like bench terrace, peripheral bund and water harvesting structure. (Refer items 1, 3 &9 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (550 ha. against target of490 ha.) and remained short by 60 ha i.e.10.90% (Refer Item 4 table 2) due to 13.46% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 6.98% short than the target (achieved 129 ha against target of120 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 25% (achieved 150% against target of 175%) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity and lack inclusion of short duration crop in crop rotations. However, the productivity of Maize, three seasons (rice autumn, summer and winter) of rice & potato crops has been more than the target due to adoption of HYV/ Hybrid crop variety, adapting crop management practices and judicious use of limited irrigation water in crops.
5. Only 22.5 % expected outcome of area under horticulture crops was achieved because of farmers were not interested to grow horticulture crop, due to lack of marketing facilities for horticulture /vegetable crops. During the field visit, team observed that the farmers were facing the problem to receive remunerative price of horticulture/vegetable crops
6. 93.51 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
7. The household income increased over the expected post-project income of Rs90000/Annum by 4.45 % i.e. Rs4000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and adoption of livelihood programme.



WAPCOS EXPERT VISIT AGRO-FORESTRY WORK IN IWMP-IV BLOCK MYLLEIN MEGHALYA



WAPCOS EXPERT VISIT STORAGE TANK WORK IN IWMP-IV BLOCK MYLLEIN MEGHALYA

Name of Project- **IWMP-V**
Block- **Mawsynram**
District- **East khasi hills**
State- **Meghalaya**

**Table 1: Activity wise Physical Target and Achievements of sample IWMP-V Block-Mawsynram
East Khasi Hills Districts –Meghalaya**

Sanctioned Amount- 150 Lakh
Expenditure %- 100
Year of Sanction- 2010-11

Expenditure- 150 Lakh
Total project area- 1000 ha

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Bench terrace	Ha.	10	10	100	The total sanction fund to the project is timely provided to implementing agency. Resulting maximum targets were achieved during project period.
2	Contour bund	Ha.	55	50	90.10	
3	Peripheral bund.	Rm	10900	10900	100	
4	Agro- Horticulture	Ha.	132	132	100	
5	Forestation	Ha.	80	80	100	
5	Protection wall	Ha.	58	58	100	
6	Improvement of degraded forest	Ha..	180	180	100	
7	Check dam	No.	18	16	88.90	
8	Water harvesting structure	No.	41	38	92.70	
B	Production system(Activities)					
1	Piggery unit	No.	20	17	85	Some villagers were not interested due to cast factor
2	poultry	No.	20	18	90	Farmers not turned up during execution.
3	Food processing unit	No.	2	2	100	Target achieved.
4	Floriculture	No.	2	2	100	Target achieved.
5	Stabilized mud block	No.	6	6	100	Target achieved.
6	Pisciculture	No.	16	14	87.50	Farmers were not interested due to lack of marketing facility.
C	Livelihood Activities/Schemes					
1	Revolving Fund to SHG for livelihood action plan	No.	23	20	86.95	Tree Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No.	81	74	91.35	Some Groups were not fulfilled the pre-requisite for availing Revolving Fund.
3	Revolving fund to SHG federation for livelihood action plan	No.	4	4	100	All group were fulfilled the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The maximum target of Bench terrace, Contour bund, Peripheral bund, Agro- horticulture, Protection wall, Forestation; Improvement of degraded forest, check dam, and Water harvesting structure were achieved. The reason behind that was timely availability of total sanction fund to the implementing agency. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities the target of all activities namely, Piggery unit, poultry, food processing unit, Floriculture, Stabilized mud block and pisciculture 85, 90,100,100,100 and 87.50% were achieved respectively. The main reason for not achieved the target three activities were Some villagers were not interested due to cast factor, Farmers were not interested due to lack of marketing facility , Farmers not turned up during execution and lack of convergence of concern department i.e. Department of Animal husbandry, Department of Fishery etc.

B. Livelihood system

1. The revolving fund granted for livelihood action plan to 86.95 % of SHG, 91.35% for Individual SHG and 100% to SHG federation against the target.
2. Expert team met the members of SHG groups during the visit. The 86 % of SHG has been working properly and repaying the loan in time. Only 14% of SHG were not working smoothly and not repaying the loan in time due to lack of market for produce, out of them some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-V Block Mawsynram East Khasi Hills Districts – Meghalaya

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	4.50-5.0	3.5-5.0	4.0-5.0	-0.50	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	0	0	0	0	The expected outcome of this activity was not taken up in DPR.
3	Change in irrigated area	ha	81	140	110	-30	Expected post project outcome not achieved due to the lack of harvested rain water quantity.
4	Area under agriculture crop	ha	462	570	541	-29	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development.
5	Crop productivity	ha					
6	Maize	Kg/ha.	1295	1520	1565	45	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop management technology and judicious use of limited irrigation water in crops.
	Rice autumn	Kg/ha.	2185	2350	2405	55	
	Rice summer	Kg/ha	2270	2425	2500	75	
	Rice winter	Kg/ha.	2310	2500	2565	65	
	potato	Kg/ha	6800	9300	9500	200	
7	Area under horticulture	ha	53	132	96	-36	Farmers are not interested due to lack of marketing facilities for vegetable crops.
8	SHG (Self Help Group) formed	No.	15	108	98	-10	Some groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	71000	90000	97000	7000	Income of Household

							increase due to increase in crop yield, price of crop produces, livelihood activities and wage rate
10	Migration	No.	294	nil	nil	0	Reduction in migration was achieved as per expected outcome target. However, reduction has taken place, due to available work under MNAREGA and adoption of livelihood activities
11	Cropping intensity	%	125	180	150	-30	The outcome of cropping intensity not achieved due to lack inclusion of vegetable crop in crop rotations
12	Waste land development	ha	180	120	153	-33	Target not achieved due to lack of fund provision for this activity.

Impact Evaluation Summary of IWMP-V Block- Mawsynram -East Khasi Hills Districts –Meghalaya

1. The anticipated increase in ground water table has not been achieved i.e. - 0.50 m against the above target. (Refer item 1, table 2)
2. The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2,7 &8 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like Bench terrace and peripheral bund and protection wall. (Refer items 1, 3 &5 of NRM activity table 1).
3. The “Area under Agriculture Crop” did not increase as expected (570 against target of 541 ha) and remained short by 29 ha i.e. 5.10% agricultural land (Refer Item 4 table 2). Due to 27.50% less progress on conversion of waste land development. (Refer Item 12 table 2)
4. The increase in irrigated area after implementation of the watershed structure remained 21.4% short than the target (achieved 140 ha against target of 110 ha) – (Refer item 3, table 2). Similarly cropping intensity remained short by 30% (achieved 150% against target of 180%) – Refer item 11, table 2. The progress of both these items remained short due to lack of harvested rain water quantity and lack of inclusion of short duration crop in crop rotations. However, the productivity of Maize, three seasons (rice autumn, summer and winter) of rice & potato crops has been more than the target due to adoption of HYV/ Hybrid crop variety, adapting crop management practices and judicious use of limited irrigation water in crops.
5. 4. Only 27.3% expected outcome of area under horticulture crops was achieved because of farmers were not interested to grow horticulture crop, due to lack of marketing facilities for horticulture /vegetable crops. During the field visit, team observed that the farmers were facing the problem to receive remunerative price of horticulture/vegetable crops.
6. 90.74 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
7. The household income increased over the expected post-project income of Rs71000/Annum by 9.86 % i.e. Rs7000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and adoption of livelihood program.



**WAPCOS EXPERT VISIT BENCH TERRACE WORK IN IWMP-V DISTRICT- EAST KHASI HILLS
MEGHALYA**



**WAPCOS EXPERT VISIT CHECK DAM WASHIN PLATFORM WORK IN IWMP-V DISTRICT-
EAST KHASI HILLS MEGHALYA**

IMPACT EVALUATION OF IWMP SAMPLE PROJECTS OF DISTRICTS – SIAHA & AIZAWL MIZORAM

The Impact Evaluation of IWMP Projects has been carried out on the basis of following criteria:

1. Comparing the activity wise Physical Achievement vis-à-vis Target as per DPR (Refer Table1).
2. Comparing the Indicator- wise impact with the expected outcome after completion of the project as per DPR (Refer Table2).
3. Impact Evaluation Summary.

The project wise details are enclosed-

Name of Project	- IWMP-I
Block	- Siaha
District	- Siaha
State	- Mizoram

Table 1: Activity wise Physical Target and Achievements of IWMP-I Block: Siaha District: Siaha, (Mizoram)

Sanctioned Amount- 600 (Lakh)
Expenditure -96.10 %
Year of Sanction- 2009-10

Expenditure- 576.60 (Lakh)
Total project Area- 4000 ha

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Trenching	Ha	40	24	60	Farmers not turned up during execution.
2	Loose Boulder Check dam	No	15	15	100	Target achieved
3	Brushwood Check dam	No	5	5	100	Target achieved
4	RCC Check dam	No	10	2	20	Non availability of local material.
5	Gabion Structure	No	3	3	100	Target achieved
6	Individual RWHS	No	168	130	77.38	Lack of farmers share contribution
7	Farm Ponds	No	35	35	100	Target achieved
8	Percolation Tank	No	31	31	100	Target achieved
9	Water Harvesting Structure (Renovated)	No	12	12	100	Target achieved
B	Production System					
1	Petty Shop	No	16	16	100	Target achieved
2	Poultry Farming	No	63	60	95.24	With the coordination of department of A.H
3	Goat Rearing	No	24	18	75	Lack of coordination with department of A.H
4	Fish Pond	No	15	15	100	With the coordination of department of
5	Piggery	No	87	57	65.51	Target were not achieved due to social reason
6	Soap Making	No	1	1	100	Target achieved
7	Crop demonstration	No.	40	40	100	With coordination of department of argil.

8	Methuen rearing	No	6	6	100	With coordination of department of A.H
C	Livelihood Activities					
1	Revolving Fund to SHG for livelihood action plan.	No	42	31	73.80	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	29	22	75.86	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Loose Boulder Check dam, Brushwood Check dam, Gabion Structure, Farm Ponds and Percolation Tank were achieved to the extent of outcome. The target of Trenching, RCC Check dam and Individual RWHS work was achieved to the extent of 60, 20 and 77.38% respectively.
2. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 8 production activities target of 5 activities namely, Petty Shop, Fish Pond, Soap Making, Crop demonstration and Methuen rearing were achieved as per out come. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of A.H.
2. The target of Poultry Farming, Goat Rearing, and Piggery was achieved to the extent of 95.24, 75 and 65.51% respectively. The main reason for not achieving the target were lack of fund, coordination and social reason.

C Livelihood system

1. The revolving fund granted for livelihood action plan to 73.80% of SHG and 75.86% fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were Methuen rearing, Petty Trade, Handloom, Black Smith, Carpentry, Hair Cutting, Stone Curving, Soap Making, Candle Making Mobil repairing, tailoring, Grocery shop work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 76% of SHG has been working properly and repaying the loan in time. 24% of SHG were not working smoothly and not repaying the loan in time. Out of them 7 % SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-I Block Siaha District: Siaha, Mizoram)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	19	18	17.80	-0.20	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	12	12	12	0	Target was achieved with the coordination of villagers
3	Change in irrigated area	ha	70	250	210	-40	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	950	1200	1100	-100	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity	Kg/ha.					
	Rice	Kg/ha.	2000	2400	2630	230	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Maize	Kg/ha.	1000	1200	1284	84	
	Gram	Kg/ha.	900	1100	1165	65	
	Mustard	Kg/ha.	1000	1150	1200	50	
6	Area under horticulture		652	600	405	-195	Some Farmers were

							interested due to higher income.
7	SHG formed	No.	2	90	71	-19	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	45000	75000	79500	4500	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	150	0	60	-60	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	105	150	135	-15	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	500	400	229	-171	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	80	56	36	-20	Target was not achieved due to lack of fund.

*Ground water table measures taken from deep tube well as the project area is not having well and shallow tube well

Impact Evaluation Summary of IWMP- I Block Siaha District: Siaha, Mizoram)

1. The anticipate increase in ground water table has been not achieved i.e. -0.20 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not/partially constructed (Refer item 1,4&6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Loose Boulder Check dam, Brushwood Check dam, Gabion Structure, Farm Ponds and Percolation Tank (Refer items2, 3, 5, 7, 8&9 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 1100 ha against target of 1200 ha) and remained short by100 ha i.e. 8.30% (Refer Item 4 table 2) due to 42.75% less progress on conversion of waste land into agricultural land (Refer Item11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 16% short than the target (achieved 210 ha against target of 250 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 15 % (achieved 135% against target of 150%) – Refer item 10, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Rice, maize, gram and mustard crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
5. The 67.50% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
6. The 78.90% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
7. The household income increased over the expected post-project income of Rs 75 000/Annum by 6.00 % i.e. Rs 4500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 68.10, 17.20, 12.50 and 2.20 % respectively.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
9. The 64.28% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



Meeting with WC along with Project Director DRDA at Siata village IWMP-1 Mizoram



Wapcos Expert Visit Fish Pond Saiha IWMP 1 Mizoram

Name of Project - IWMP-V
Block - Aibawk
District - Aizawl
State - Mizoram

Table 1: Activity wise Physical Target and Achievements of IWMP-V Block: Aibwk District: Aizawl, (Mizoram)

Sanctioned Amount- 210 (Lakh)
 Expenditure -95.93%
 Year of Sanction- 2009-10

Expenditure- 201.47 (Lakh)
 Total project Area- 1400 ha

S.No	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	B/Terrace	Ha	167	146.54	87.75	Farmers not turned up during execution.
2	Contour Bund	Ha	56	56	100	Target achieved
3	RCC Check dam	No	3	1	33.30	Target not achieved due to non availability of row material.
4	Gabion Structure	No	2	2	100	Non availability of local material.
5	Individual WHS	No	22	7	31.81	Lack of farmers share contribution.
6	Water Harvesting Structure (Renovated)	No.	7	5	71.43	Lack of fund.
7	Farm Ponds	No	28	28	100	Target achieved
8	Percolation Tank	No	30	30	100	Target achieved
B	Production System					
1	Petty Shop	No	6	6	100	Target achieved
2	Poultry Farming	No	11	11	100	With the coordination of department of A.H
3	Goat Rearing	No	1	1	100	With the coordination of department of A.H
4	Piggery	No	51	45	88.23	Target were not achieved due to social reason
5	chow Making	No	2	2	100	Target achieved
6	Crop demonstration	No.	25	25	100	With coordination of department of argil.
7	Animal health camp	No.	7	7	100	With the coordination of department of A.H

C Livelihood Activities						
1	Revolving Fund to SHG for livelihood action plan.	No	25	20	80	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	12	12	100	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Contour Bund, Gabion Structure, Farm Ponds, and Percolation Tank were achieved to the extent of outcome
2. The target of B/Terrace, RCC Check dam, Individual WHS and Water Harvesting Structure (Renovated) work was achieved to the extent of 87.75, 33.30, 31.81 and 71.43% respectively. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 7 production activities target of 6 activities namely, , Petty Shop, Poultry Farming, Goat Rearing, chow Making , Crop demonstration and Animal health camp were achieved as per expected out come. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of A.H.
2. The target of Piggery was achieved to the extent of 88.23% only. The main sreason for not achieving the target was lack of fund and social reason.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 80% of SHG and 100 % fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were Methuen rearing, Petty Trade, Handloom, Black Smith, Carpentry, Hair Cutting, Stone Curving, Soap Making, Candle Making Mobil repairing, tailoring, tea stall etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 810% of SHG has been working properly and repaying the loan in time.19% of SHG were not working smoothly and not repaying the loan in time. Out of them 5 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-V Block: Aibwk District:Aizawl ,Mizoram)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	19.68	19.00	18.60	-0.40	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	16	7	5	-2	Target was not achieved due TO lack of fund.
3	Change in irrigated area	ha	75	200	162	-38	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	168	380	340	-40	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity	Kg/ha.					
	Rice	Kg/ha.	2400	2500	2605	105	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Maize	Kg/ha.	1065	1200	1264	64	
	Gram	Kg/ha.	884	1100	1150	50	
	Mustard	Kg/ha.	1040	1150	1224	74	

6	Area under horticulture	Ha.	224	220	112	-108	Farmers were interested due to higher income.
7	SHG formed	No.	3	50	37	-13	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	60000	78000	82400	4400	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	142	0	30	-30	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	109	150	137	-13	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	4	0	0	0	Target was not taken in DPR.
12	Area under vegetation	Ha.	19	57	10	-47	Only 10 ha. land was allotted for vegetation by gram Sabah

*Ground water table measures taken from deep tube well as the project area is not having well and shallow tube well

Impact Evaluation Summary of IWMP- V Block: Aibwk District: Aizawl, Mizoram

1. The anticipate increase in ground water table has been not achieved i.e. -0.40 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1, 3, 5&6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Contour Bund, Gabion Structure, Farm Ponds, and Percolation Tank (Refer items 2,4,7&8 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 380 ha against target of 340 ha) and remained short by 40 ha i.e.10.52% (Refer Item 4 table 2) due to no progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 19.00% short than the target (achieved 162 ha against target of 200 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 13 % (achieved 137% against target of 150%) – Refer item 10, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Rice, maize, gram and mustard crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
5. The 51% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
6. The 74% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
7. The household income increased over the expected post-project income of Rs78000/Annum by 5.64 % i.e. Rs 4400/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 66.70, 18.10, 12.60 and 2.60 % respectively.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
9. The 17.52% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



Wapcos expert visited Chow Making activity under PS & ME at Kelsih Village, Aizawl IWMP V, Mizoram



Farm Pond at Kelsih Village, Aizawl IWMP V, Mizoram

Name of Project - IWMP-I

**Block - Mangkolemba,
Longchem**

District - Mokokchung

State - Nagaland

Table 1: Activity wise Physical Target and Achievements of IWMP-I, Block: Mangkolemba, Longchem, District: Mokokchung, State: Nagaland

Sanctioned Amount – 540.45 Lakh
 Expenditure % -99.60 %
 Year of Sanction- 2009

Expenditure - 538.29815 Lakh
 Total project Area- 3603 ha

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1.	Contour Bunds	Ha.	40	40	100	Target was achieved due to availability of fund at proper time and coordination of beneficiaries.
2.	Bench Terracing	Ha.	13	13	100	Target was achieved due to interest of farmers.
3.	Check Dam	No.	40	40	100	Target was achieved due to interest of farmers.
4.	Earthen Irrigation Channel	No.	384	384	100	Target was achieved due to interest of farmers.
5.	Farm Pond	No.	24	20	83.30	Small size of holding
6.	Farm Pond(renovated)	No.	25	25	100	Target was achieved due to availability of fund at proper time and coordination of beneficiaries
B.	Production Activity					
1.	Crop demonstration	No.	20	20	100	Organized with the coordination of department of A.H
2.	Animal health camp	No.	13	13	100	Target achieved
3.	Piggery	No.	4	4	100	Organized with the coordination of department of A.H.
4.	Business	No.	3	3	100	Interest of beneficiaries
5.	Baking	No.	3	3	100	Beneficiaries were interested
6.	Poultry	No.	3	3	100	Organized with the coordination of department of A.H
7.	Fishery	No.	5	5	100	Organized with the coordination of department of fishery.
8.	Plantation (Rubber)	No.	97	96	100	Organized with the coordination of department of Horticulture.

c	Livelihood Activity					
1.	Revolving Fund to SHG for livelihood action plan.	No.	19	19	100	Target of availing Revolving Fund were achieved
2.	Revolving Fund to individual Entrepreneurs for livelihood plan.	No.	13	13	100	Target of availing Revolving Fund were achieved

*Target were achieved due to availability of fund at proper time and co-ordination of beneficiaries

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Contour Bunds, Bench Terracing, Check Dam, Earthen Irrigation Channel and Farm Pond (renovated) were achieved to the extent of outcome.
2. The target Farm pond work was achieved to the extent of 83.30%. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 8 production activities target of all 8 activities namely, Crop demonstration, Animal Husbandry (Health Camp,) Piggery, Business, baking, Poultry, Fishery and Plantation (Rubber) were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were Carpentry, Weaving, Tailoring, Blacksmith, Grocery, Saloon, Knitting and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 82% of SHG has been working properly and not repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities.

Table 2: Indicator wise impact of sample IWMP-I, Block: Mangkolemba, Longchemr, District: Mokokchung, State: Nagaland

S.No.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1.	Status of water table (Depth to Ground water level)	Meters	11.5	10.25	10.5	-0.25	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2.	Ground water structures repaired /rejuvenated	No.	25	25	25	0	Target achieved.
3.	Change in irrigated area	Ha.	105	286	243	-43	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4.	Area under agriculture crop	Ha.	1308	1596	1436	-160	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5.	Crop productivity	Kg/ha.					
	Rice	Kg/ha.	2160	2250	2367	117	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Tapioca	Kg/ha.	21000	22500	23400	900	
	Maize	Kg/ha.	1300	1500	1670	170	
	Gram	Kg/ha.	850	925	974	51	
	Mustard	Kg/ha.	1020	1200	1264	64	
6.	Area under Horticulture	Ha.	120	600	361	- 239	Farmers were interested due to higher income.
7.	SHG formed	No.	0	45	32	-13	Some groups not fulfill the prerequisite for SHG formation

8.	Income	Rs.	50000	90000	94200	4200	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9.	Migration	No.	70	0	18	-18	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10.	Cropping intensity	%	80	105	103	-2	The expected outcome of cropping intensity was about achieved due to lack of irrigation water and non-adoption of dry land technology.
11.	Waste land development	Ha.	210	175	134	-41	Target was not achieved due to lack of farmer's interest.
12.	Area under vegetation	Ha.	10	323	146	-177	Target was not achieved due to lack of farmers interest.

**Impact Evaluation Summary of IWMP- I, Block: Mangkolemba, Longchem, District:
Mokokchung, State: Nagaland**

1. The anticipate increase in ground water table has been not achieved i.e. -0.25 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 7 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Contour Bunds, Bench Terracing, Check Dam, Earthen Irrigation Channel and Farm Pond renovated (Refer items 1,2,3,4,5,6, &8 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 1436 ha against target of 1596 ha) and remained short by 160 ha i.e. 10.20% (Refer Item 4 table 2) due to 23.42% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 15.03% short than the target (achieved 243 ha against target of 286 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 2 % (achieved 103% against target of 105%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of maize ,rice, Tapioca, gram and mustard crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 60.20% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 71.10% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs90000/Annum by 4.67 % i.e. Rs 4200/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 68.20, 16.70, 11.90 and 3.20 % respectively
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 45.20% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the Water Harvesting Structure and Plantation Activity of IWMP-I (Mangkolemba)

Name of Project - **IWMP-III**
Block - **Chiephobozou**
District - **Kohima**
State - **Nagaland**

**Table 1: Activity wise Physical Target and Achievements of IWMP- III, Block:
Chiephobozou, District: Kohima, State: Nagaland**

Sanctioned Amount – 547.5 Lakh

Expenditure – 540.20 Lakh

Expenditure % -98.67

Total project Area- 3650 ha

Year of Sanction- 2010 - 11

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1.	Afforestation	Ha.	325.20	265	92.90	Lack of non-availability of plants
2.	Bench Terrace	Ha.	63	63	100	Target was achieved due to availability of fund at proper time and coordination of beneficiaries.
3.	Contour Bund	Ha.	97	97	100	Target was achieved due to interest of farmers.
4.	Half Moon Terrace	Ha.	106	106	100	Target was achieved due to interest of farmers.
5.	pond	No.	14	14	100	Target were achieved
6.	Pond renovation	No.	5	5	100	Target were achieved
B	Production Activities					
1.	Crop demonstration	No.	60	60	100	Organized with the coordination of department of agriculture.
2.	Animal health camp	No.	20	20	100	Organized with the coordination of department of A.H
3.	Piggery	No.	7	4	57.14	Target was not achieved due to cast factor.
4.	Business	No.	24	16	66.70	Lack of Interest of beneficiaries
5.	Poultry	No.	4	4	100	Organized with the coordination of department of A.H
6.	Fishery	No.	7	5	71.43	Organized with the coordination of department of fishery.

7.	Plantation (Rubber)	Ha.	15	15	100	Organized with the coordination of department of horticulture.
C	Livelihood System					
1.	Revolving Fund to SHG for livelihood action plan.	No.	35	35	100	Target of availing Revolving Fund were achieved
2.	Revolving Fund to individual Entrepreneurs for livelihood plan.	No.	20	20	100	Target of availing Revolving Fund were achieved

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Bench Terrace, Contour Bund, Half Moon Terrace, pond, and Pond renovation were achieved to the extent of outcome.
2. The target of Afforestation work was achieved to the extent of 92.90% only All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 7 production activities target of 4 activities namely, Crop demonstration, Animal Husbandry (Health Camp,) Poultry and Plantation were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.
2. The target of Piggery Business and Fishery work was achieved to the extent of 57.14,66.70 and 71.41%respectively

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were Carpentry, Weaving, Tailoring, Blacksmith, Grocery, Saloon, Knitting and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 80% of SHG has been working properly and not repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities, out of them 7 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-III, Block: Chiephobozou, District: Kohima, State: Nagaland

S.N.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	Mtr.	12	11	11.10	-0.10	Water table not increased up to the expected post project stage because target of water harvesting structure were maximum achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired /rejuvenated	No.	0	5	5	0	Target were achieved.
3	Change in irrigated area	Ha.	142	364	308	-56	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	Ha.	1028	1236	1146	-90	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop Productivity	Kg/ha.					
	Yield of Paddy	kg/ha.	1720	1850	1876	26	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Yield of Maize	Kg/ha	1350	1450	1522	72	
	Yield of Vegetable	Kg/ha	4015	4300	4354	54	
	Yield of Mustard	Kg/ha	1040	1150	1210	60	
6	Area undue Horticulture	Ha.	106	380	250	-130	Farmers were interested due to higher income.

7	SHG formed	No.	2	75	55	-20	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	65000	85000	91500	6000	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	280	0	80	-80	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping Intensity	%	90	125	114	-11	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	109.11	85	59	-26	Target was not achieved due to lack of interest.
12	Area under vegetation	Ha.	127	234	168	-66	Target was not achieved due to lack of farmer's interest.

**Impact Evaluation Summary of IWMP III, Block: Chiephobozou, District: Kohima,
State: Nagaland**

1. The anticipate increase in ground water table has been not achieved i.e. -0.10 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1& under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Bench Terrace, Contour Bund, Half Moon Terrace, pond, and Pond renovation (Refer items2,3,4,5&6 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 1146 ha against target of 1236 ha) and remained short by 90 ha i.e.15.38% (Refer Item 4 table 2) due to 30.60% less progress on conversion of waste land into agricultural land (Refer Item11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 15.38% short than the target (achieved 308 *ha against target of 368 ha*) – Refer item 3, table 2. Similarly cropping intensity remained short by 11 % (achieved 114% against target of 125%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of maize, paddy, vegetable and mustard crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 65.80% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 73.30% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs85000/Annum by 7.10 % i.e. Rs6000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 68.50, 17.10, 12.40and 2.00 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 71.80% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the Production and Interacting with farmers of IWMP-III (Chiephobozou)

Name of Project - IWMP-IV
Block - Tseminyu
District - Kohima
State - Nagaland

**Table 1: Activity wise Physical Target and Achievements of IWMP-IV Block:
Tseminyu, District: Kohima, State: Nagaland**

Sanctioned Amount - 682.50 Lakh
Expenditure % -99.66 %
Year of Sanction- 2010-11

Expenditure -680.20 Lakh
Total project Area- 4550 ha

S. No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1.	Afforestation	Ha.	1525	1525	100	Target was achieved due to availability of fund at proper time and coordination of beneficiaries.
2.	contour trench	Ha.	45	45	100	Target was achieved due to interest of farmers.
3.	bench terrace	Ha	63	63	100	Target was achieved due to interest of farmers.
4.	Half-moon terrace	Ha.	54	54	100	Target was achieved due to interest of farmers.
5.	Gully plugs	No.	45	45	100	Target was achieved
6.	Farm ponds	No.	63	63	100	Target was achieved due to availability of fund at proper time and coordination of beneficiaries
7.	Check Dams	No.	72	70	97.20	Some beneficiaries were not interested.
8.	Water Harvesting Structure (Renovated)	No.	6	6	100	Target was achieved due to interest of villagers.
B	Production Activities					
1.	Crop demonstration	No.	38	38	100	Organized with the coordination of department of agriculture.
2.	Animal health camp	No.	15	15	100	Organized with the coordination of department of A.H
3.	Fishery	No.	8	8	100	Organized with the coordination of department of fishery.

4.	Bee-keeping	No.	12	12	100	Organized with the coordination of department of horticulture.
5.	Poultry	No.	22	16	72.71	Organized with the coordination of department of A.H
6.	Piggery	No	2	2	100	Organized with the coordination of department of A.H.
C	Livelihood System					
1.	Revolving Fund to SHG for livelihood action plan.	No	54	54	100	Target of availing Revolving Fund were achieved.
2.	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	31	31	100	Target of availing Revolving Fund were achieved.

*Target were achieved due to availability of fund at proper time and coordination of beneficiaries.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Afforestation, Bench Terrace, bench terrace, Half Moon Terrace, pond, Gully plugs and WHS renovation were achieved to the extent of outcome.
2. The target of check dam work was achieved to the extent of 97.20% only. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of 5 activities namely, Crop demonstration, Animal Husbandry (Health Camp,) Fishery, Bee-keeping and Piggery were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.
2. The target of Poultry Piggery Business and Fishery work was achieved to the extent of 72.71% only.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to SHG was achieved. The main enterprises of SHG were Carpentry, Weaving, Tailoring, Blacksmith, Grocery, Saloon, Knitting and Dress Designing for women and Computer *work* etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 84% of SHG has been working properly and not repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities, out of them 6 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP- IV, Block: Tseminyu, District:
Kohima, State: Nagaland**

S.N.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	Meter	11.80	10.50	10.80	-0.30	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired /rejuvenated	No.	0	6	6	0	Target achieved.
3	Change in irrigated area	Ha.	54	288	235	-53	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	Ha.	904	1779	1650	-129	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity						
	Yield of Paddy	Kg/ha.	1700	1845	1885	40	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Yield of Maize	Kg/ha	1305	1425	1512	87	
	Yield of Vegetable	Kg/ha	4055	4320	4497	177	
	Yield of Mustard	Kg/ha	1062	1160	1230	70	
6.	Area under horticulture	Ha.	108	206	165	-41	Farmers were interested due to higher income.
7	SHG formed	No.	2	125	85	-40	Some groups not fulfill the pre-requisite for SHG formation

8	Income	Rs.	63000	78000	84500	6500	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	310	0	48	-48	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	109	130	122	-8	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	108	81	62	-19	Target was not achieved due to lack of farmer's interest.
12.	Area under vegetation	Ha.	478	120	73	-47	Target was not achieved due to lack of farmer's interest.

**Impact Evaluation Summary of IWMP – IV, Block: Tseminyu, District: Kohima,
State: Nagaland**

1. The anticipate increase in ground water table has been not achieved i.e. -2.50 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 7 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, A forestation, Bench Terrace, bench terrace, Half Moon Terrace, pond, Gully plugs and WHS renovation (Refer items 1, 2, 3, 5, 6&8 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 1650 ha against target of 1779 ha) and remained short by 129 ha i.e. 7.25% (Refer Item 4 table 2) due to 23.50% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 18.403% short than the target (achieved 235 ha against target of 288 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 8 % (achieved 122% against target of 130%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of maize, paddy, vegetable and mustard crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 80.10% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 68% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs.78000/Annum by 8.33 % i.e. Rs. 6500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 67.70, 17.40, 13.20 and 1.70 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 60.83% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Visited the Production Activity and Water Harvesting System of IWMP- IV (Tseminyu)

IMPACT EVALUATION OF IWMP SAMPLE PROJECTS OF CUTTACK, BOLANGIR, AND KORAPUT DISTRICTS –ODISHA

The Impact Evaluation of IWMP Projects has been carried out on the basis of following criteria:

1. Comparing the activity wise Physical Achievement vis-à-vis Target as per DPR (Refer Table1).
2. Comparing the Indicator- wise impact with the expected outcome after completion of the project as per DPR (Refer Table2).
3. Impact Evaluation Summary.

The project wise details are enclosed-

Name of Project-	IWMP-I
Block-	Banki
District-	Cuttack
State-	ODISHA

Table 1: Activity wise Physical Target and Achievements of IWMP- I Block Banki District -Cuttack (ODISHA)

Sanctioned Amount- 600.00 (Lakh)
 Expenditure -88.22%
 Year of Sanction-2009-10

Expenditure- 529.36 lakh.
 Total project Area-5000 ha

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Farm pond	Nos.	21	15	60	Farmers not turned up during execution due to small holding
2	Structure for recharging water sources/hole	No.	78	68	87.17	Lack of fund
3	Nala bund/MCD	Nos.	22	17	77.27	Lack of fund
4	Field channel /DLT	Mt.	8500	3560	41.88	Lack of fund
5	Diversion Wire	Nos.	2	2	100	Target achieved
6	WHS	Nos.	18	10	55.50	Lack of fund
7	Earthen Bund	No.	3	3	100	Target achieved
8	CCT/Staggered trench	Ha.	18	13	72.20	Lack of fund
9	Field bunding	Ha.	240	240	100	Target achieved
10	Percolation tank	No.	5	3	60	Lack of fund
11	Gully control structure	No.	3	0	0	Farmers not turned up during execution.
B	Production Activities					
1	Vermi compost	No	45	32	71.10	Farmers not turned up during execution due to religion
2	Mushroom cultivation	No	5	3	60	Farmers not turned up during execution due to marketing problem.
3	Crop demonstration	No	50	50	100	Target achieved With the coordination of Department of Agriculture
4	Banana cultivation by UGs	No	15	10	66.70	With the coordination of Department of horticulture.
5	Ginger cultivation by UGs	No	10	8	80	With the coordination of Department of horticulture.

6	poultry	No.	2	1	50	Lack of fund
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	105	52	49.52	Maximum Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	108	71	65.74	The other group not fulfill the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Farm pond, Structure for recharging water sources/hole , Nala bund/MCD, Field channel/DLT, WHS, CCT/Staggered trench and Percolation tank were achieved to the extent of 60,87.17,77.27,41.88,55.50,72.20 and 60 respectively.
2. Work of Gully control structure has remained unattended Only the target of Diversion Wire, Earthen Bund and Field bunding work was achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of all 6 activities namely Vermin compost, Mushroom cultivation, Crop demonstration, Banana cultivation by UGs , Ginger cultivation by UGs and poultry was 71.10,60,100,66.70,80 and 50 % achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture .

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 49.52% of SHG, 65.74 % to individual SHG against the target. The main enterprises of SHG were Mobil repairing, bakery, floor mill, tailoring, carpenter work, poultry, etc
2. Expert team met the members of SHG groups during the visit. The 68% of SHG has been working properly and repaying the loan in time. Only 32 % of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP- I Block Banki District -Cuttack (ODISHA)

S.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	8-10	7-8	7.2-8	-0.20	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area.(actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures (repaired/rejuvenated)	No.	19	19	16	-3	Target was not achieved due to lack of fund.
3	Change in irrigated area	ha	92	285	216	-69	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	3385	3720	3560	-160	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and wasteland development
5	Crop productivity						
6	Paddy	Kg/ha	1697	1950	2010	60	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology and adoption of dry land cultivation practices.
	Maize	Kg/ha	2450	2560	2640	80	
	vegetables	Kg/ha	10520	12500	13100	600	
	wheat	Kg/ha	1782	1950	2005	55	
7	Area under horticulture	ha	252	305	278	-27	Farmers are interested due to availability of irrigation water and

							higher yield.
8	SHG formation for livelihood activity	No.	21	213	123	-90	maximum groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	22000	32000	35200	3200	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration(persons)	No.	210	25	40	-15	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP and adoption of livelihood activities.
11	Cropping intensity	%	105	150	135	-15	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation.
12	Waste land development	ha	216	90	120	-30	Target not achieved due to lack of funds
13	Area under vegetation	Ha.	1105	1210	1160	-50	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP -I Block Banki District -Cuttack (ODISHA)

1. The anticipate increase in ground water table has been not achieved i.e. -0.20 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1, 4, 6&10 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like Diversion Wire, Earthen Bund and Field bounding (Refer items 5, 7&9 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 3560 ha against target of 3720 ha) and remained short by 160 ha i.e. 4.30 % (Refer Item 4 table 2) due to 33.30 % less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 24.21 % short than the target (achieved 216 ha against target of 285 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 15% (achieved 135 % against target of 150 %) – Refer item 11, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of paddy, Maize, vegetables and Wheat crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology, use of soil moisture conservation practices and judicious use of limited irrigation water.
4. Only 91.14 % expected outcome of area under horticulture crops was achieved because of farmers interest and availability of irrigation water for horticulture crop. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 57.74 % expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase their income.
6. The household income increased over the expected post-project income of Rs 35200/Annum by 10 % i.e. Rs 3200/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income agriculture, dairy, labor and other occupation were contributed to the extent 65.20, 22.40, 9.50 and 2.90 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities.



WAPCOS TEAM DISCUSSION WITH BENEFACRIES IN CUTTACK DISTRICT



Name of Project-	IWMP-II
Block-	Badamda
District-	Cuttack
State-	ODISHA

Table 1: Activity wise Physical Target and Achievements of IWMP- II Block- Badamda district Cuttack- Odisha

Sanctioned Amount- 642.74 (Lakh)

Expenditure-532.69 lakh.

Expenditure -82.87%

Total project Area- 5356 ha

Year of Sanction-2009-10

S.No	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Farm pond	Nos.	82	68	82.92	Lack of fund
2	Structure for recharging water sources/hole	No.	11	7	63.60	Farmers not turned up during execution due to small holding
3	Gully plugs	Nos.	3	2	66.70	Farmers not turned up during execution due to share money.
4	Sunken pits	No.s	18	11	61.10	Farmers was not interested in this activity
5	Diversion Wire	Nos.	2	2	100	Target achieved
6	WHS	Nos.	7	5	71.4	Lack of fund
7	Earthen Bund	No.	3	0	0	Lack of fund.
8	CCT/Staggered trench	Ha.	18	16	88.90	The work of 6 ha. Was completed with convergence of Manraga.
9	Field bunding	Ha.	18	11.70	65	Farmers was not interested in this activity
10	Percolation tank	No.	33	18	54.50	.lack of fund.
11	Loose boulder structure	No.	31	16	48.50	Lack of fund
12	Rejuvenation of old WHS.	No.	7	2	28.57	Lack of fund
B.	Production Activities					
1	Vermi compost	No	70	40	57.14	Farmers not turned up during execution due to religion
2	Mushroom cultivation	No	11	11	100	Target achieved with the coordination of Department of Horticulture
3	Crop demonstration	No	65	65	100	Target achieved
4	Banana cultivation by UGs	No	20	13	65	With the coordination of Department of horticulture.

5	Ginger cultivation by UGs	No	9	8	88.90	with the coordination of Department of horticulture.
6	poultry	No.	3	1	33.30	Farmers not turned up during execution due to religion
7	Bee keeping	No.	5	3	60	Farmers were not interested due to lack of flora.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	56	30	53.57	Some Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	138	82	59.42	The other group not fulfill the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of Farm pond, Structure for recharging water sources/hole, Gully plugs, Sunken pits , WHS , CCT/Staggered trench ,Field bunding , Percolation tank and Loose boulder structure Were achieved to the extent of 82.92,63.60,66.70,61.10,71.4,88.90,65 ,54.50 and 48.50% respectively .
2. Work of Earthen Bund has remained unattended only the target of Diversion Wire work was achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 7 production activities target of all 7 activities namely Vermin compost, Mushroom cultivation, Crop demonstration, Banana and ginger cultivation by UGs, poultry and Bee keeping was 57.14,100,100,65,88.90,33.30 and 60 % achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in programme, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 53.57% of SHG, 59.42 % to individual SHG against the target. The main enterprises of SHG were black smith, weaving, Mobile repairing floor mill, tailoring, carpenter work, poultry, etc
2. Expert team met the members of SHG groups during the visit. The 65% of SHG has been working properly and repaying the loan in time. Only 35 % of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP- II Block- Badamda district Cuttack- Odisha

S.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	9-12	8-10	8.4-10	0.40	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area.(actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures (repaired/rejuvenated)	No.	0	7	2	-5	Target was not achieved due to lack of fund.
3	Change in irrigated area	ha	45	250	194	-56	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	2905	3310	3228	-82	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and wasteland development
5	Crop productivity						
6	paddy	Kg/ha	2000	2200	2340	140	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology, efficient use of irrigation water and adoption of dry land cultivation practices.
	Maize	Kg/ha	1500	1600	1674	74	
	Wheat	Kg/ha	1700	1850	2000	150	
	Gram	Kg/ha	1000	1100	1175	75	
	Mustard	Kg/ha	700	800	905	105	
7	Area under	ha	305	350	325	-25	Farmers are not

	horticulture						interested due to lack of irrigation water in summer and marketing problem
8	SHG formation for livelihood activity	No.	120	194	144	-50	maximum groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	20000	35000	37500	2500	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration(persons)	No.	355	60	82	-22	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP and adoption of livelihood activities.
11	Cropping intensity	%	105	135	128	-7	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation.
12	Waste land development	ha	612	400	480	-80	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP- II Block- Badamda district Cuttack- Odisha

1. The anticipate increase in ground water table has been not achieved i.e. -0.40 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 5&6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like Boulder Check/ Gully plugs and Stop Dam/check dam (Refer items 1&3 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 3228 ha against target of 3310 ha) and remained short by 82 ha i.e.2.48% (Refer Item 4 table 2) due to 20 % less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 22.40 % short than the target (achieved 194 ha against target of 250 ha) – Refer item 3, table2. Similarly cropping intensity remained short by 7% (achieved 128 % against target of 135 %) – Refer item 11, table 2.The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of paddy, Maize, Wheat, Mustard and Gram crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology, use of soil moisture conservation practices and judicious use of limited irrigation water.
4. Only 92.86 % expected outcome of area under horticulture crops was achieved because of farmers interest and availability of irrigation water for horticulture crop. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 74.20 % expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase their income.
6. The household income increased over the expected post-project income of Rs 35000/Annum by 7.14 % i.e. Rs 2500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income agriculture, dairy, labor and other occupation were contribute to the extent 59.50, 25.60, 13.40 and 1.50 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities.



WAPCOS TEAM VISIT FARM POND AND INTERACT WITH BENEFACARIES IN CUTTACK DISTRICT

Name of Project-	IWMP-I
Block-	loisingha
District-	Bolangir
State-	ODISHA

Table 1: Activity wise Physical Target and Achievements of IWMP-I Block-loisingha District-Bolangir (ODISHA)

Sanctioned Amount- 516(Lakh)

Expenditure- 442.98 (Lakh)

Expenditure % - 81.97 %

Total project Area- 4864 ha

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Farm pond	Nos.	102	27	26	Farmers not turned up during execution due to small holding
2	Structure for recharging water sources/hole	No.	392	15	3.5	Farmers not turned up during execution due to share money.
3	Gully plugs	Nos.	3	3	100	Target achieved
4	Sunken pits	No.s	10	6	60	Lack of fund
5	WHS	Nos.	246	100	40.60	Lack of fund
6	CCT/Staggered trench	Ha./Rmt.	12	12	100	Target achieved
7	Field bunding	Ha.	131	20	15	Farmers was not interested in this activity
8	Percolation tank	No.	143	124	86.70	Lack of fund
9	Loose boulder structure	No.	122	23	18.8	Lack of fund
10	Pasture development	Ha.	10	0	0	land not provided by the Gram Sabah for pasture development
B	Production Activities					
1	Vermi compost	No	10	5	50	Farmers not turned up during execution due to religion
2	Mushroom cultivation	No	6	3	50	Lack of fund.
3	Crop demonstration	No	46	46	100	Target achieved
4	Animal health camp	No	12	12	100	established with the coordination of Department of A.H
5	Green house net shade	No	10	6	60	Organized with the coordination of Department of Horticulture.
6	Poultry	No.	4	1	25	One unit established with the coordination of Department of A.H
7	Pisciculture	No.	10	4	40	Farmers not turned up during execution due to religion
C	Livelihood System					

1	Revolving Fund to SHG for livelihood action plan.	No	30	17	56.70	Some Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	84	51	60.71	The other group not fulfill the pre-requisite for availing Revolving Fund
3	Grant in aids to federations for their livelihood plan.	No.	10	0	0	No any federation fulfill the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of farm Pond, Structure for recharging water sources/hole, sunken pits, WHS, Field bunding, Percolation tank and loose boulder structure were achieved to the extent of 26, 3.5, 60, 40.6, 15, 86.70 and 18.80% respectively.
2. Work of Pasture development has remained unattended only the target of Gully plugs and CCT/Staggered trench work was achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 7 production activities target of all 7 activities namely Vermin-Compost, Mushroom Cultivation, Crop Demonstration, Animal health camp, Green house net shade, poultry and Pisciculture was 50,50,100,100,60,25 and 40 % achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. fishery and Department of agriculture.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 56.70% of SHG, 60.71 % to individual SHG against the target. No fund was granted to SHG federation. The main enterprises of SHG were masonry work, bakery, weaving, floor mill, tailoring, carpenter work, poultry, etc
2. Expert team met the members of SHG groups during the visit. The 68% of SHG has been working properly and repaying the loan in time. Only 32 % of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP- I Block-loisingha District- Bolangir (ODISHA)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	6.50	5.50	5.80	-0.30	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area.(actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	30	19	-11	Target were not achieved due to lack of fund .
3	Change in irrigated area	ha	70	200	146	-54	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	2257	2482	2362	-120	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and waste land development
5	Crop productivity						
6	Maize	Kg/ha	1400	1500	1525	25	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology, efficient use of irrigation water and adoption of dry land cultivation practices.
	paddy	Kg/ha.	1860	2000	2074	74	
	Tomato	Kg/ha	5000	6000	6250	250	
	Brinjal	Kg/ha	3000	4000	4300	300	
	Gram	Kg/ha	800	900	1025	125	
	Mustard	Kg/ha	850	900	1010	110	
7	Area under horticulture	ha	0	15	7.8	-7.20	Farmers are not interested due to lack of irrigation water in summer and marketing problem.
8	SHG formation for livelihood activity	No.	20	140	104	-36	Some groups were not fulfill the pre-requisite for

							SHG formation
9	Income	Rs.	36000	50000	55100	5100	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration(persons)	No.	250	50	86	-36	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP and adoption of livelihood activities.
11	Cropping intensity	%	120	150	132	-18	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation and lack of irrigation water.
12	Waste land development	ha	563	225	345	-120	Target not achieved due to lack of funds
13	Area under vegetation	Ha.	56	125	65	-60	Target not achieved due to lack of funds and villagers interest in thus activity.

Impact Evaluation Summary of IWMP- I Block-loisingha District- Bolangir (ODISHA)

1. The anticipate increase in ground water table has been not achieved i.e. -0.30 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 1,2,7, & 9 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like Gully plugs CCT/Staggered trench and Percolation tank (Refer items 3,6 & 8 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 2362 ha against target of 2482 ha) and remained short by 120 ha i.e. 4.83% (Refer Item 4 table 2) due to 53.30 % less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 27 % short than the target (achieved 146 ha against target of 200 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 18% (achieved 132 % against target of 150 %) – Refer item 11, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Maize, paddy, Tomato, brinjal, Mustard and Gram crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology, use of soil moisture conservation practices and judicious use of limited irrigation water.
4. Only 52 % expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of irrigation water for horticulture crop. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
5. About 74.28 % expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase their income.
6. The household income increased over the expected post-project income of Rs 50000/Annum by 10.20 % i.e. Rs 5100/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income Agriculture, dairy, labor and other occupation were contribute to the extent of 61.40, 23.50, 13.50 and 1.60 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities.



WAPCOS TEAM INTERACTING WITH DIRECTOR WATERSHED BOLINGAR



WAPCOS TEAM VISIT FARM POND IN BOLANGIR-I DISTRICT



WAPCOS TEAM VISIT AT FARM POND AND INTERACTION WITH OFFICALS



WAPCOS TEAM INTERACTING WITH SHG IN BOLANGIR



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Longitude: 83.367242
Elevation: 206.78m
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WAPCOS TEAM INTERACTING WITH USER GROUPS

Name of Project-	IWMP-IV
Block-	Lamtaput
District-	KORAPUT
State-	ODISHA

Table 1: Activity wise Physical Target and Achievements of IWMP- IV Block- Lamtaput District - KORAPUT (ODISHA)

Sanctioned Amount- 720.00 (Lakh)
 Expenditure -81.58%
 Year of Sanction-2009-10

Expenditure- 587.40lakh.
 Total project Area- 7143 ha

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Farm pond	Nos.	18	18	100	Target achieved
2	Structure for recharging water sources/hole	No.	74	54	73	Lack of fund
3	Nala bund	Nos.	48	48	100	Target achieved
4	Check & PLUGS	No's	300	244	81.33	Lack of fund
5	Loose boulder structure	Nos.	505	505	100	Target achieved
6	Field channel	. Rmt.	2700	2491	92.25	Lack of fund
7	A forestation	Ha.	30	16	53.30	Mango plantation.
8	CCT/Staggered trench	Rmt.	2500	300	12	Farmers not turned up during execution due to small holding
9	Field bunding	Ha.	80	0	0	Farmers not turned up during execution due to small holding
10	Percolation tank	No.	30	12	40	Lack of fund
11	Check dams	No.	10	7	70	Lack of fund
B.	Production Activities					
1	Vermi compost	No	20	12	60	Farmers not turned up during execution due to religion.
2	Crop demonstrations	No	40	40	100	Organized with the coordination of Department of Agriculture.
3	Kb pump set	No	24	19	79.20	Target were not achieved due to lack of fund.
4	Goatary	No	14	10	71.40	Organized with the coordination of Department of A.H
5	Ginger cultivation by UGs	No	15	15	100	Target achieved

6	sprayer	No.	30	30	100	Distributed with the coordination of Department of Agriculture.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	19	12	63.15	Some Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	52	34	65.40	The other group not fulfill the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Structure for recharging water sources/hole, Check & PLUGS, Field channel, A forestation, CCT/Staggered trench, Check dams, and Percolation tank Were achieved to the extent of 73,81.33,92.25,53.30,12,70 and 40% respectively.
2. Work of Field bunding has remained unattended only the target of Farm pond, Nala bund and loose boulder structure work was achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of all 6 activities namely Vermi compost , Crop demonstrations , Kb pump set , Goatary unite, Ginger cultivation by UGs, and sprayer was 60,100,79.20,71.40,100 and 100 % achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 63.15% of SHG, 65.40 % to individual SHG against the target. The main enterprises of SHG were Goatery, Mobil repairing, ban raja chicks, tailoring, Grossary shop, carpentry work etc
2. Expert team met the members of SHG groups during the visit. The 67% of SHG has been working properly and repaying the loan in time. Only 33 % of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP- IV Block- Lamtaput District - Koraput (Odisha)

S.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	8-10	7-10	7.5-10	-0.50	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area.(actual status of water table drawn from data received from farmers at the time of expert visit. Target was not achieved due to lack of fund.
2	Ground water structures (repaired/rejuvenated)	No.	19	19	12	-7	
3	Change in irrigated area	ha	50	150	110	-40	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	1366	2455	2315	-140	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and wasteland development work.
5	Crop productivity						
6	Paddy	Kg/ha	2480	2550	2624	74	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology, efficient use of irrigation water and adoption of dry land cultivation practices.
	Maize	Kg/ha	2120	2250	2340	90	
	vegetables	Kg/ha	5064	6000	6135	135	
	Ginger	Kg/ha	6000	7000	7200	200	
wheat	Kg/ha.	1815	1950	2025	75		

7	Area under horticulture	ha	75	130	98.30	-31.70	Farmers are not interested due to lack of irrigation water in summer and marketing problem
8	SHG formation for livelihood activity	No.	21	240	146	-94	maximum groups were not fulfill the pre-requisite for SHG formation
9	Income	Rs.	36500	46000	50038	4038	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration(persons)	No.	102	0	12	-12	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP and adoption of livelihood activities.
11	Cropping intensity	%	142	180	171	-9	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation and lack of irrigation facilities.
12	Waste land development	ha	439	280	347	-67	Target not achieved due to lack of funds
13	Area under vegetation	Ha.	187	250	219	-31	Target not achieved due to lack of funds and villagers interest in thus activity.

Impact Evaluation Summary of IWMP -IV Block- Lamtaput District - KORAPUT (ODISHA)

1. The anticipate increase in ground water table has been not achieved i.e. -0.50 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2, 8, 10&11 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like farm pond, Nala bund, Loose boulder structure and field bund (Refer items 1,3,5&9 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 2315 ha against target of 2455 ha) and remained short by 140 ha i.e. 5.70% (Refer Item 4 table 2) due to 23.93 % less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 26.70 % short than the target (achieved 110 ha against target of 150 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 9% (achieved 171 % against target of 180 %) – Refer item 11, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of paddy, maize, vegetable, ginger and Wheat crops has been more than the target due to adoption of HYV/hybrid seed use of short duration crops variety, Dry land crop technology, use of soil moisture conservation practices and judicious use of limited irrigation water.
4. Only 75.61 % expected outcome of area under horticulture crops was achieved because of farmers interest and availability of irrigation water for horticulture crop. During the field visit, team observed that the farmers were not received remunerative price of horticulture produce.
5. The 60.83 % expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase their income.
6. The household income increased over the expected post-project income of Rs 46000/Annum by 8.78 % i.e. Rs 4038/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income were agriculture, dairy, labor and other occupation contribute to the extent 59.50, 26.60, 12.10 and 1.80 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities.



WAPCOS TEAM DISCUSSING WITH SHG IWMP-IV KORAPUT



WAPCOS TEAM VISIT FARM POND IN IWMP-IV KORAPUT

Name of Project-	Iwmp-V
Block -	Semiliguda
District-	Koraput
State-	Odisha

Table 1: Activity wise Physical Target and Achievements of IWMP- V Block- SEMILIGUDA District - KORAPUT (ODISHA)

Sanctioned Amount- 720.00 (Lakh)

Expenditure- 522.14lakh.

Expenditure -72.52%

Total project Area- 6000 ha

Year of Sanction-2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Farm pond	Nos.	180	103	57.20	Farmers not turned up during execution due to small holding
2	Structure for recharging water sources/hole	No.	108	57	52.80	Lack of fund
3	Gully plugs	Nos.	48	48	100	Target achieved
4	Loose boulder check dam	No's	456	206	45.17	Lack of fund
5	Loose boulder structure	Nos.	104	71	68.27	Farmers was not interested in this activity
6	Sunken pits	Nos.	24	15	62.50	Lack of fund
7	A forestation	Ha.	30	30	100	Mango plantation.
8	CCT/Staggered trench	Rmt.	39084	22084	56.50	Lack of fund
9	Field bunding	Ha.	240	0	0	Farmers not turned up during execution.
10	Rejuvenation of old WHS	No.	5	0	0	Lack of fund
B	Production Activities					
1	Vermi compost	No	60	34	56.70	Farmers not turned up during execution due to religion
2	Mushroom cultivation	No	12	7	58.33	Farmers not turned up during execution due to marketing problem
3	Kb pump set	No	24	15	62.50	Lack of fund
4	Banana cultivation by UGs	No	24	17	70.83	Target achieved With the coordination of Department of Agriculture
5	Ginger cultivation by UGs	No	24	16	66.70	Target achieved With the coordination of Department of horticulture.
6	Crop	No.	75	75	100	Target achieved With the

	demonstration					coordination of Department of Agriculture
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	40	22	55	Some Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	103	62	60.20	The other group not fulfill the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of Farm pond , Structure for recharging water sources/hole , Loose boulder check dam , Loose boulder structure ,Sunken pits and CCT/Staggered trench Were achieved to the extent of 57.20,52.8,45.17,68.27,62.50,and 56.50% respectively .
2. Work of Field bunding has remained unattended only the target of Gully plugs and afforestation work was achieved as per expected outcome. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of all 6 activities namely Vermin compost, Mushroom cultivation, Kb pump set , Banana cultivation by UGs , Ginger cultivation by UGs and Crop demonstration was 56.70,58.33,62.50,70.83,66.70 and 100 % achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution, Lack of fund and lack of convergence of concern department i.e. Veterinary Hospital, Department of agriculture .

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 55% of SHG, 60.20 % to individual SHG against the target. The main enterprises of SHG were Goatery, sheep raring, banraja chicks, tailoring, Grocery shop, carpentry work etc
2. Expert team met the members of SHG groups during the visit. The 70% of SHG has been working properly and repaying the loan in time. Only 30 % of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP- V Block- Semiliguda District - Koraput (Odisha)

S.No	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	7-10	6-8	5.8-8	0.20	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area.(actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures (repaired/rejuvenated)	No.	0	5	0	0	Target were not achieved due to lack of fund .
3	Change in irrigated area	ha	828	1596	1465	-131	Expected post project outcome not achieved because the harvested rain water was less in quantity.
4	Area under agriculture crop	ha	1186	2684	2514	-170	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water and wasteland development
5	Crop productivity						
6	Paddy	Kg/ha	2586	2760	2854	94	Increase in productivity due to adoption of HYV/Hybrid seed of crop variety, advance crop technology, efficient use of limited irrigation water and adoption of dry land cultivation practices.
	Maize	Kg/ha	2400	2570	2640	70	
	vegetables	Kg/ha	10640	13000	13500	500	
	Ginger	Kg/ha	7600	8500	8620	120	
7	Area under horticulture	ha	0	30	22	-8	Farmers are interested due to higher income from horticulture crops.
8	SHG formation for	No.	21	252	122	-130	maximum groups were

	livelihood activity						not fulfill the pre-requisite for SHG formation
9	Income	Rs.	16000	36000	40200	4200	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration(persons)	No.	1929	775	857	-82	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP and adoption of livelihood activities.
11	Cropping intensity	%	115	150	142	-8	The outcome of cropping intensity was not achieved because of non inclusion of short duration crop in crop rotation.
12	Waste land development	ha	594	348	436	-88	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP - V Block- Semiliguda District - Koraput (Odisha)

1. The anticipate increase in ground water table has been not achieved i.e. -0.20 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2, 4, 8&9 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like Farm pond, Gully plugs and loose boulder structure (Refer items 1, 3&5 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (actual being 2514 ha against target of 2684 ha) and remained short by 170 ha i.e. 6.33% (Refer Item 4 table 2) due to 25.29 % less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 8.20 % short than the target (achieved 1465 ha against target of 1596 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 8 % (achieved 143 % against target of 150 %) – Refer item 11, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of paddy, Maize, vegetable and Ginger crops has been more than the target due to adoption of HYV/hybrid seed .use of short duration crops variety, Dry land crop technology, use of soil moisture conservation practices and judicious use of limited irrigation water.
4. Only 73.33 % expected outcome of area under horticulture crops was achieved because of farmers interest and availability of irrigation water for horticulture crop. During the field visit, team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 48.41% expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase their income.
6. The household income increased over the expected post-project income of Rs 40200/Annum by 11.60 % i.e. Rs 4200/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income agriculture, dairy, labor and other occupation were contribute to the extent 65.20, 22.70, 10.30 and 1.80 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP and adoption of livelihood activities.



FIELD VISIT TO SRI KRUSHNA MICRO WATERSHEDS, DUSURA, BLOCK- SEMILIGUDA, IWMP-V, BATCH- I KORAPUT



WAPCOS TEAM VISIT FARM POND AT VILLAGE- DUSURA, IWMP-V, BATCH-I, BLOCK- SEMILIGUDA



GINGER CULTIVATION, INTER CROPPING SYSTEM AT VILLAGE- DUSURA, IWMP-V, BATCH-I, BLOCK- SEMILIGUDA



FIELD BUNDING AT VILLAGE- DUSURA, IWMP-V, BATCH-I, BLOCK- SEMILIGUDA, AREA- 4 HA, COST- 1.00 LAKHS

**IMPACT EVALUATION OF IWMP SAMPLE PROJECTS OF ALWAR, BIKANER & UDAIPUR,
AJMER, KOTA DISTRICTS –RAJASTHAN**

The Impact Evaluation of IWMP Projects has been carried out on the basis of following criteria:

1. Comparing the activity wise Physical Achievement vis-à-vis Target as per DPR (Refer Table1).
2. 2-Comparing the Indicator- wise impact with the expected outcome after completion of the project as per DPR (Refer Table2).
3. Impact Evaluation Summary.

The project wise details are enclosed-

Name of Project-	IWMP-I
Block-	Behror
District-	Alwar
State	Rajasthan

Table 1: Activity wise Physical Target and Achievements of sample IWMP-I Block- Behror District Alwar (Rajasthan)

Sanctioned Amount- 604.80 Lakh

Expenditure- 265.32 Lakh

Expenditure %- 43.81

Total project area- 5540 ha

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Contour bund	Mtr	152000	17200	113	Demand of farmers
2	Run off management structure	No.	18	13	72.20	Farmers not turned up during execution
3	Water harvesting structure	No.	69	36	52.17	Farmers not turned up during execution
4	Pakka Waste weir	No.	180	115	63.9	Due to lack of fund.
5	Gully control structure (anikit)	No.	17	8	47.1	Farmers not turned up during execution
6	Diversion drain structure	No.	57	0	0	Farmer was not interested
7	Farm pond	No.	27	6	22.20	Farmers not turned up during execution
8	Repair/Deepening of existing water body	No.	5	0	0	Due to lack of fund
10	Repairing/ rejuvenation of ground water Structures	No.	7	5	71.40	Due to lack of fund
B	Production Activities					
1	Horticulture Plantation	ha.	15	2.5	16.70	Farmers are not interested due to lack of irrigation facility
2	Sprinklers and drip irrigation	No.	86	12	14	Due to lack of fund
3	Vegetables (Seed distribution)	No.	560	205	36.60	Farmers not turned up during execution
4	Animal health camp	No.	15	8	53.3	Farmers was not interested
5	Vermi compost	No.	45	16	35.60	Farmers not interested due to religion factor
6	Crop Demonstration	No.	1125	1200	107	Demand of farmers
7	Storage seed bin	No.	200	76	38	Villagers not showed interest.

8	Nursery	No.	1	0	0	Farmers was not interested due to lack of marketing
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No.	25	14	56	Not many Groups fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No.	9	4	44.50	Not many Groups fulfilled the pre-requisite for availing Revolving Fund.
3	Revolving fund to SHG federation for livelihood action plan	No.	5	0	0	No one could fulfill the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of runoff management structure, WHS, pakka waste weir, Anikit, Farm pond and rejuvenation of ground water structures were achieved to the extent of 72.20, 52.17, 63.90, 47.10, 22.20 and 71.40% respectively.
2. Work of construction of Diversion drain structure and Deepening of existing water body, has remained unattended.
3. Excess work is done for contour (1.13 times) was made on the demand of farmers. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

1. Out of 8 production activities only target of 7 activities namely, Horticulture plantation, Sprinklers and drip irrigation, vegetable seed distribution, Animal health camp, Vermi composting, crops demonstration and distribution of seed Storage bin 16.70, 14, 36.60, 53.30, 35.60, 107 and 38.00 percent were achieved respectively. The main reason for not achieved the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Department of horticulture, Department of agriculture etc. The target of Nursery has remained unattended.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 56 % of SHG and 44.50% for Individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 58 % of SHG has been working properly and repaying the loan in time. Only 43% of SHG were not working smoothly and not repaying the loan in time. SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-III Block-Behror in District Alwar Rajasthan

S.no	Item	Unit	Pre-project Status	Expected Post project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	90-95	85-90	85.5-90	- 0.50	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	0	12	5	-7	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	1850	2025	1915	-110	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	2985	3486	3281	-205	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development and expected outcome was taken higher
5	Crop productivity	ha					
6	Maize	Kg/ha.	1200	1400	1450	50	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop technology and judicious use of limited irrigation water in Rabi crop. The farmers also use hired irrigation water to enhance the crop yield..
	Bajara	Kg/ha.	1500	1700	1705	5	
	Mustard	Kg/ha	1200	1450	1510	60	
	wheat	Kg/ha.	2200	3305	3400	95	
	Gram	Kg/ha	1000	1200	1310	110	
7	Area under horticulture	ha	10	15	4	-11	Farmers are not interested due to lack of water in summer
8	SHG (Self Help Group) formed	No.	5	39	21	-18	Some groups not fulfill the pre-requisite for SHG formation
9	Income	Rs.	45000	70000	74000	4000	Income of Household increase due to increase in crop yield, price of crop produces and wage rate
10	Migration	No.	580	0	75	-75	Maximum outcome of

							Reduction in migration not achieved as per target. However, reduction has taken place, the same is due to available work under MNAREGA and Chief Minister JalSwavalamban Yojana
11	Cropping intensity	%	130	160	145	-15	The outcome of cropping intensity not achieved due to lack of storage of rain water
12	Waste land development	ha	1125	830	625	-205	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-III Block- Behror in District Alwar Rajasthan

1. The anticipate increase in ground water table has not been achieved i.e. - 0.50 m against the above target. (Refer item 1, table 2)
2. The progress has remained short due to Water Harvesting Structure (54 numbers) not constructed (Refer item 3, &7 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like runoff management structure, waste weir, anikit and repairing of ground water structure. (Refer items 2, 4 5, &10 of NRM activity table 1).
3. The “Area Under Agriculture Crop” did not increase as expected (3486 ha against target of 3281 ha) and remained short by 205 ha i.e.5.88% (Refer Item 4 table 2) due to 24.70% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).The expected outcome was taken higher side.
4. The increase in irrigated area after implementation of the watershed structure remained 5.4% short than the target (achieved 3486 ha against target of 3281 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 15% (achieved 145% against target of 160%) – Refer item 11, table 2.
5. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Maize, Bajra, Mustard, Wheat& gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and use of hired irrigation water from private tub wells in Rabi crops.
6. Only 26.7% expected outcome of area under horticulture crops was achieved because of lack of farmers interest and irrigation water for horticulture crop. During the field visit, team observed that the horticulture plant got dried up due to non-availability of irrigation water in the sample project area in summer season.
7. 53.84 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
8. The household income increased over the expected post-project income of Rs70000/Annum by 5.71 % i.e. Rs4000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
9. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and Chief Minister JalSwavalambanYojana.



WAPCOS EXPERT VISIT THE HORTICULTURE PLANTATION SITE IN VILLAGE MANDA ALWAR



WAPCOS EXPERT VISIT POND IN VILLAGE GOENTI IWMP-1 ALWAR

Name of Project- IWMP-II
Block- Bansur
District- Alwar
State Rajasthan

Table 1: Activity wise Physical Target and Achievements of sample IWMP-II Block- Bansur District Alwar (Rajasthan)

Sanctioned Amount- 530.52 Lakh
 Expenditure %- 66.18
 Year of Sanction- 2009-10

Expenditure- 351.09 Lakh
 Total project area- 4421 ha

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Contour bounding	Mtr	53800	60000	111.5	On the demand of farmers
2	Run off management structure	No.	6	4	66.70	Due to lack of fund
3	Waste weir	No.	83	18	21.70	Farmers not turned up during execution
4	Water harvesting (farm pond) structure	No..	20	22	110	On the demand of villagers
5	Gully control structure (anikit)	No.	29	12	41.37	Farmers are not interested
6	Pasture development	Ha.	9	5	55.60	Only5 ha land provided by the Gram Sabha for pasture development
7	Rejuvenation of Water harvesting structure	No.	12	7	58.30	Farmers not turned up during execution
8	Checks & Plugs	No.	4	0	0	Villagers was not interested
B	Production Activities					
1	Horticulture Plantation	No.	205	95	46.30	Farmers are not interested due to lack of irrigation water
2	Drip and sprinklers	Ha.	40	16	40	Farmers not turned up during execution
3	Vermi compost	No.	25	13	52	Farmers were not interested.
4	Crop Demonstration	No.	450	475	105.5	On the demand of farmers
5	Kitchen Garden (Kit Distribution)	No.	80	34	42.50	Other house hold family was not interested in this activity.
6	Veterinary Camp	No.	10	6	60	Organized with the coordination of Department of Animal husbandry
7	Chaff cutter distribution	No.	100	0	0	Due to lack of fund

8	Cattle breed improvement	No.	2	0	0	Livestock owners not interested in this activity due to problem of bull feeding management.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No.	10	8	80	Not many Groups fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No.	5	3	60	Not many Groups fulfilled the pre-requisite for availing Revolving Fund.
3	Revolving fund to SHG federation for livelihood action plan	No.	3	0	0	No one could fulfill the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Runoff management, Waste weir, Anikit, pasture development and Rejuvenation of water harvesting were achieved to the extent of 66.70, 21.70, 41.37, 55.60 and 58.30% respectively.
2. Work of construction of Checks plugs has remained unattended. Excess work is done for Contour bonding (1.11 times), and WHS (1.1 times) were made on the demand of villagers. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

1. Out of 8 production activities only target of 6 activities namely, Horticulture plantation, Drip and sprinklers, Vermi composting, crops demonstration, kitchen garden kit, and Veterinary camp 46.30, 40.52, 105.5, 42.50 and 60 percent were achieved respectively. The main reason for not achieved the target were lack of staff, villagers not showed interest in programme, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Department of horticulture, Department of agriculture etc. The target of chaff cutter distribution, and cattle breed improvement has remained unattended.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 80% of SHG and 60% for Individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 72% of SHG has been working properly and repaying the loan in time. Only 28% of SHG were not working smoothly and not repaying the loan in time due to lack of marketing of produce and some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-II Block- Bansur in District Alwar Rajasthan

S.N.	Item	Unit	Pre-project Status	Expected Post project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	15-20	14-20	14.50-20	-0.50	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	0	12	7	-5	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	2080	2386	2155	-231	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	2495	3060	2936	-124	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	kg/ha					
6	Bajra	Kg/ha.	800	1000	1250	250	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Mustard	Kg/ha	848	1100	1465	365	
	gram	Kg/ha	931	1050	1215	165	
	Wheat	Kg/ha	3050	3500	3410	-90	Outcome not achieved because of lack of irrigation water. Average. however, increment in yield has taken place
7	Area under horticulture	ha	10	30	6.5	23.5	Farmers are not interested due to lack of irrigation water
8	SHG (Self Help Group) formed	No.	14	45	30	-15	Some groups not fulfill the pre-requisite for SHG formation
9	Income	Rs.	55000	80000	86000	6000	Income of Household increase due to increase

							in crop yield and price of crop produce
10	Migration	No.	600	-	85	-85	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place, the same is due to available work under MNAREGA and Chief Minister JalSwavalamban Yojana
11	Cropping intensity	%	110	150	140	-10	The outcome of cropping intensity not achieved due to lack of storage of rain water
12	Waste land development	ha	698	516	392	-124	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-II Block -Bansur in District AlwarRajasthan

1. The anticipate increase in ground water table has not been achieved i.e. -0.50 m against the above target. (Refer item 1, table 2)
The progress has remained short due to Water Harvesting Structure not constructed (Refer item 3&5 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like farm pond, anikit& rejuvenation of water harvesting structure. (Refer items 4, 5 &7 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (3060 ha against target of 2936 ha) and remained short by 124 ha i.e.4.05% (Refer Item 4 table 2) due to 24.22% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).The expected outcome was taken higher side.
3. The increase in irrigated area after implementation of the watershed structure remained 9.68% short than the target (achieved 2155 ha against target of 2386 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10% (achieved 140% against target of 150%) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity.
However, the productivity of Bajra, mustard & gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops. The wheat crop failed to achieve target because expected yield target washigher above the district average yield however, increment in yield has taken place.
5. Only 23.5% expected outcome of area under horticulture crops was achieved because of lack of farmers interest and unavailability of irrigation water for horticulture crop. During the field visit, team observed that the horticulture plant got dried up due to non-availability of irrigation water in the sample project area in summer season.
6. 66.70 % expected outcome of SHG has been achieved to implement the livelihood action plan and increase their income.
7. The household income increased over the expected post-project income of Rs80000/Annum by 7.50 % i.e. Rs6000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and Chief Minister JalSwavalamban Yojana.



WAPCOS EXPERT TEAM DISCUSSING WITH SHG IN ALWAR DISTRICT



WAPCOS EXPERT VISIT CHECK DAM IN DISTRICT ALWAR

Name of Project- IWMP-I
Block- Nokha
District- Bikaner
State Rajasthan

Table 1: Activity wise Physical Target and Achievements of sample IWMP-I Block- Nokha District Bikaner (Rajasthan)

Sanctioned Amount- 600 Lakh
 Expenditure %- 86.83
 Year of Sanction- 2009-10

Expenditure- 521 Lakh.
 Total project area- 4000 ha.

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Construction of jalkund /tanka50,000 lit. capacity	No.	100	94	94	Due to lack of fund
2	Construction of jalkund / tanka20,000 lit. capacity	No.	160	260	162.5	Demand of the villagers
3	Farm pond	No.	1	0	0	Due to poor catchment
4	Sanduns stabilization	Ha.	9	9	100	Target achieved
6	Other water harvesting structure	No's	150	0	0	Lack of fund because fund was utilized in construction of jalkund on the demand of villagers
B	Production Activities					
1	Plantation along with field boundary and road side	No.	69500	0	0	Due to unavailability of fund at proper time
2	Soil health card	No.	1400	0	0	
3	Vegetables Seed distribution for kitchen gardening	No.	1400	0	0	
4	NADEP compost pit	No.	75	0	0	
5	Crop Demonstration	No.	2000	311	15.60	Target was not achieved due to lack of irrigation water
6	Bull distribution	No.	4	0	0	Due to unavailability of fund at proper time
7	Animal Health Camp	No's	24	0	0	
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No's	215	24	11.10	Not many Groups fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No's	36	18	50	Not many group fulfill the pre-requisite for availing Revolving Fund.
3	Revolving fund to SHG federation for livelihood action plan	No's	10	0	0	No one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Jalkund and sanduns stabilization was achieved to the extent of 94 and 100% respectively.
2. Work of construction of farm pond and WHS has remained unattended.
3. Excess work is done for TANKA (1.62 times) was made on the demand of villagers. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

1. Out of 7 production activities only target of one activity namely: crops demonstration 15.60% was achieved. The main reason for not achieving the target was lack of unavailability of fund at proper time, lack of staff; villages not showed interest in programme, villagers not turned up during execution. And lack of convergence of concern department i.e. Department of horticulture, Department of agriculture etc.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 11.10 of SHG and 50% for SHG federation against the target. No fund was granted to individual SHG since; no such group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 67% of SHG has been working properly and repaying the loan in time. Only 33% of SHG were not working smoothly and not repaying the loan in time due to lack of market for produce sale. Some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-1 Block- Nokha District Bikaner Rajasthan

S.no	Item	Unit	Pre-project Status	Expected Post project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	140-145	135-140	136-140	-1.00	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	0	2	0	0	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	0	7	0	0	Expected post project outcome not achieved because the harvested rain water were used for dirking purpose not for irrigation .
4	Area under agriculture crop	ha	2992	3500	3104	- 396	Outcome of the area in the agriculture crop not achieved due to lack of irrigation water ,sowing in current fallow land and waste land area development
5	Crop productivity	ha					
6	Guar	Kg/ha	300	450	500	50	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop technology and adoption of dry land cultivation practices
	Moth	Kg/ha	250	400	410	10	
	Bajra	Kg/ha	200	550	650	100	
7	Area under horticulture	ha	0.	8	0.50	-7.50	Farmers are not interested due to lack of irrigation water in summer.
8	SHG (Self Help Group) formed	No.	3	262	42	-220	maximum groups were not fulfill the pre-requisite for SHG formation

9	Income	Rs.	63000	85000	89500	4500	Income of Household increase due to increase in crop yield and price of crop produce and wage rate.
10	Migration	No.	310	nil	45	45	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place, the same is due to available work under MNAREGA and Chief Minister JalSwavalamban Yojana
11	Cropping intensity	%	75	105	90	-15	The outcome of cropping intensity was not achieved because the storage rain water is used for drinking purpose not for crop irrigation.
12	Waste land development	ha	314	200	112	-88	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-I Block --Nokha District Bikaner Rajasthan

1. The anticipated increase in ground water table has not been achieved i.e. -1.00 m against the above target. (Refer item 1, table 2)
2. The progress has remained short due to Water Harvesting Structure (151 numbers) not constructed (Refer item 3&6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like jalkund, . (Refer items 1&2 of NRM activity table 1).
3. The “Area Under Agriculture Crop” did not increase as expected (3500 ha against target of 3104 ha) and remained short by 396 ha i.e. 11.30% (Refer Item 4 table 2) due to 44% less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
4. The increase in irrigated area after implementation of the watershed structure remained 100% short than the target (achieved 0 ha against target of 7 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 15% (achieved 95% against target of 105%) – Refer item 11, table 2.
The progress of both these items remained short due to lack of harvested rain water quantity. The harvested rain water is used for drinking purpose not for crop irrigation.
However, the productivity of Guar, moth & Bajra crops has been more than the target due to adoption of HYV/hybrid of crop variety, advance crop technology and use of dry land farming practices.
5. Only 6.25% expected outcome of area under horticulture crops was achieved because of lack of farmers interest and irrigation water for horticulture crop. During the field visit, team observed that the horticulture plant got dried up due to non-availability of irrigation water in the sample project area in summer season.
6. 16.03 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
7. The household income increased over the expected post-project income of Rs 85000/Annum by 5.30 % i.e. Rs 4500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and Chief Minister Jal Swavalamban Yojana.



WAPCOS EXPERT VISIT TANKA(JALKUND) IN IWMP-1 BIKANER



WAPCOS EXPERT VISIT PLANTION WORK IN BIKANER DISTRICT

Name of Project- IWMP-IV
Block- Bikaner
District- Bikaner
State Rajasthan

Table 1: Activity wise Physical Target and Achievements of sample IWMP-IV Block- Bikaner District Bikaner (Rajasthan)

Sanctioned Amount- 825 lakh

Expenditure- 602.25 Lakh

Expenditure %- 73

Total project area- 5500 ha

Year of Sanction- 2009-10

S.No	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Construction of jalkund / tanka.	No.	518	526	101.5	Demand of villagers
2	khadin	No.	58	50	86.20	Target were not achieved due to lack of fund
3	CVH with waste weir	No.	1000	0	0	Farmers not turned up during execution
4	Water harvesting structure (new created)	No.	6	5	83.30	Target was not achieved because of lack of fund
5	Sanduns stabilization	No.	28	0	0	Farmers were not interested
B	Production Activities					
1	Plantation along with road	No.	22800	2350	10.30	Target of Plantation was not achieved due to lack of irrigation water facility
2	NADEP Compost pit	No.	185	51	27.57	Farmers not turned up during execution
3	Crop Demonstration	No.	1800	75	4.20	Lack of irrigation water in Rabi season
4	Kitchen Garden (seed packet Distribution)	No.	900	147	16.33	Villagers not showed interest.
5	Veterinary Camp	No.	30	4	13.30	Livestock owner not show more interest in this activity
6	Bull distribution for cattle	No.	6	0	0	Villagers was not ready to take responsibility of feed and fodder of bull
7	Soil health card	No.	600	0	0	Due to lack of fund and staff
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No.	160	20	12.50	Not many Groups fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No.	97	10	10.30	Not many Groups fulfilled the pre-requisite for availing Revolving Fund.
3	Revolving fund to SHG federation for livelihood action plan	No.	27	0	0	No one could fulfill the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of khadin and Water harvesting structure were achieved to the extent of 86.2 and 83.3% respectively.
2. Work of construction of WHS and sanduns stabilization has remained unattended.
3. Excess work is done for Jalkund (101.5%) was made on the demand of villagers. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

1. Out of 7 production activities only target of 5 activities namely, plantation along the road, NADEP composting pit, crops demonstration, Kitchen Garden(seed packet) and organization of animal health camp, 10.30, 27.57, 4.20, 16.30 and 13.30 % were achieved respectively. The main reason for not achieved the target were lack of staff, villages not showed interest in programme, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Department of horticulture, Department of agriculture etc. The target of soil testing and Bull distribution has remained unattended.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 12.50% of SHG and 10.30% for Individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 74% of SHG has been working properly and repaying the loan in time. Only 24% of SHG were not working smoothly and not repaying the loan in time because market was not available for sale of produce. Some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-IV Block- Bikaner in District Bikaner Rajasthan

S.no	Item	Unit	Pre-project Status	Expected Post project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	110-140	105-130	105.3-140	-0.30	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	6	7	3	-4	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	0	17.50	2	-15.50	Expected post project outcome not achieved due to the lack of harvested rain water quantity and water harvested in jalkund is use for drinking purpose human and animals not for irrigation.
4	Area under agriculture crop	ha	6731	6900	6819	-81	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development and lack of quantity of harvested water for irrigation purpose
5	Crop productivity	ha					
6	Guar	Kg/ha	210	400	485	85	Increase in productivity due to adoption of HYV/Hybrid crop variety, adoption of advance crop technology and use of dry land farming practices.Rabi crop was not sown due to lack soil moisture.
	Moth	Kg/ha	205	300	370	70	
	bajra	Kg/ha	300	450	564	114	
7	Area under horticulture	ha	0	10	0.50	-9.50	Farmers are not interested due to lack of

							irrigation water
8	SHG (Self Help Group) formed	No.	5	50	30	-20	Some groups not fulfill the pre-requisite for SHG formation
9	Income	Rs.	32000	65000	68000	3000	Income of Household increase due to increase in crop yield, price of crop produces and wage rate.
10	Migration	No.	335	-	65	-65	Maximum outcome of Reduction in migration not achieved as per target. However, reduction has taken place, the same is due to available work under MNAREGA and Chief Minister JalSwavalambanYojana
11	Cropping intensity	%	95	110	95	-20	The outcome of cropping intensity not achieved due to lack of storage of rain water
12	Waste land development	ha	356	203	115	-88	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-IV Block - Bikaner in District Bikaner Rajasthan

1. The anticipate increase in ground water table has not been achieved i.e. - 0.30 m against the above target. (Refer item 1, table 2)
2. The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2&3 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like jalkund, khadin & WHS etc. (Refer items 1, 2, & 4 of NRM activity table 1).
3. The “Area Under Agriculture Crop” did not increase as expected (6900 ha against target of 6819 ha) and remained short by 81 ha i.e.1.20% (Refer Item 4 table 2) due to 43.3% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
4. The increase in irrigated area after implementation of the watershed structure remained 88.57 % short than the target (achieved 2 ha against target of 17.50 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 20% (achieved 95 % against target of 110%) – Refer item 11, table 2.
5. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Guar, Moth & Bajra crops has been more than the target due to adoption of HYV/hybrid of crop variety, Dry land crop technology and use of soil moisture conservation practices
6. Only 5% expected outcome of area under horticulture crops was achieved because of lack of farmers interest and irrigation water for horticulture crop. During the field visit, team observed that the horticulture plant got dried up due to non-availability of irrigation water in the sample project area in summer season.
7. 60 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
8. The household income increased over the expected post-project income of Rs 65000/Annum by 4.61 % i.e. Rs 3000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
9. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and Chief Minister JalSwavalamban Yojana.



WAPCOS EXPERT INTERACTING WITH THE UG IN IWMP-IV BIKANER



WAPCOS EXPERT VISIT SLOGAN WORK OF IWMP IN BIKANER DISTRICT

Name of Project- IWMP-I
Block- Girwa
District- Udaipur
State - Rajasthan

Table 1: Activity wise Physical Target and Achievements of sample IWMP-I Block- Girwa District Udaipur (Rajasthan)

Sanctioned Amount- 698.16 Lakh

Expenditure- 565.5 Lakh

Expenditure %- 81

Total project area- 6747 ha

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Contour trench	RM	51700	65000	125.7	On the demand of farmers
2	Gully control structure	No.	1162	560	48.20	Due to un availability of fund at proper time
3	PRT(Puerto rico terrace)	Ha.	200	0	0	Farmers not turned up during execution
4	VCB(veg. contour bund)	Ha.	120	0	0	Could not be executed due to unwillingness of farmers.
5	Pasture Development	Ha.	181	12	6.63	More area is not provided for pasture development by villagers.
6	Masonry structure-Pacca check dam	No.	46	16	34.78	This activity was replaced by Nadi(MPTs) as per demand of the villagers.
7	Nadi	No.	54	61	113	Executed as per GramSabha demand
8	WHS(Anicut)	No.	6	4	66.70	Due to lack of fund
B	Production Activities					
1	Horticulture Plantation (Dry Land Horticulture)	No.	925	118	12.75	Farmers not turned up during execution
2	Local craft unite	No.	9	2	22.20	Villagers not showed interest.
3	Vermi compost	No.	157	16	10.20	Due to lack of fund
4	Crop Demonstration	No.	350	400	114.30	On the demand of farmers
5	Kitchen Garden (Kit Demo Unit)	No.	120	43	35.80	Maximum Villagers not showed interest.
6	Veterinary Camp	No.	12	5	41.70	Lack of coordination with department of veterinaries.
7	Nursery establish	No.	6	0	0	Farmers not turned up during execution

8	Poultry unit	No.	15	0	0	Villagers not showed interest in this activity
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No.	26	14	66.70	many Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No.	12	7	58.30	The groups not fulfill the pre-requisite for availing Revolving Fund.
3	Revolving fund to SHG federation for livelihood action plan	No.	2	0	0	No one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

- 1- The target of Gully control structure, Pasture Development, Masonry structure-Pucca check dam and WHS (Anicut) Were achieved to the extent of 48.3,6.63,34.78 and 66.70% respectively.
- 2- Work of construction of PRT (Puerto rico terrace)and VCB(veg. contour bund) structure has remained unattended.
- 3- Excess work is done for Contour trench (1.25 times) and Nadi (1.13 times) were made on the demand of villagers. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

- 1- Out of 8 production activities only target of 6 activities namely Horticulture Plantation (Dry Land Horticulture, Local craft unite, Vermi compost, Crops demonstration, Kitchen Garden (Kit Demo Unit and Veterinary Camp was 12.75, 22.20, 10.20, 114.3, 35.8 and 41.70% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture etc. The target of Nursery establish and Poultry unite has remained unattended.

C. Livelihood system

- 1- The revolving fund granted for livelihood action plan to 66.70% of SHG,58.3% to individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target.
- 2- Expert team met the members of SHG groups during the visit. The 73% of SHG has been working properly and repaying the loan in time. Only 27% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-I Block- Girwa District UDAIPUR Rajasthan

S.no	Item	Unit	Pre-project Status	Expected Post project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	25-30	23-30	24.-30	-1.00	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	Nil	0	0	0	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	120	350	203	-147	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	821	1150	1080	-70	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	ha					
6	Maize	Kg/ha	2700	3000	3025	25	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Urd	Kg/ha.	600	750	780	30	
	Moong	Kg/ha.	400	560	600	40	
	Wheat	Kg/ha	2400	2700	2805	105	
	Gram	Kg/ha	1800	2100	1850	-250	
	Mustard	Kg/ha	750	950	1085	135	Outcome not achieved due to attack of white rust disease in mustard
7	Area under horticulture	ha	23	35	7.5	-27.5	Farmers are not interested due to lack of water
8	SHG (Self Help Group) formed	No.	7	40	21	-19	Some groups not fulfill the pre-requisite for SHG formation

9	Income	Rs.	24500	36800	42000	5200	Income of Household increase due to increase in crop yield and price of crop produce
10	Migration	No.	1260	0	250	-250	Maximum outcome of Reduction in migration not achieved as per target. However, reduction has taken place, the same is due to available work under MNAREGA and Chief Minister JalSwavalambanYojana
11	Cropping intensity	%	85	100	90	-10	The outcome of cropping intensity not achieved due to lack of storage of rain water
12	Waste land development	ha	1853	424	354	-70	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-I Block – Girwa, Udaipur. (Rajasthan)

1. The anticipate increase in ground water table has not been achieved i.e.- 1.00 m against the above target. (Refer item 1, table 2) The progress has remained short due to Water Harvesting Structure not constructed (Refer item 3, 4&6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like Nadi & Gully control structure and WHS (Refer items 2,7 &8 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (1150 ha against target of 1080 ha) and remained short by 70 ha i.e.6.10% (Refer Item 4 table 2) due to 16.50% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 56.40 % short than the target (achieved 203 ha against target of 350 ha) – Refer item 3, table. Similarly cropping intensity remained short by 10% (achieved 90 % against target of 100%) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Maize, urd, moong ,wheat and mustard crops has been more than the target due to adoption of HYV/hybrid of crop variety, Dry land crop technology and use of soil moisture conservation practices
5. Only 21.4% expected outcome of area under horticulture crops was achieved because of lack of farmers interest and irrigation water for horticulture crop. During the field visit, team observed that the horticulture plant got dried up due to non-availability of irrigation water in the sample project area in summer season.
6. 52.50 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
7. The household income increased over the expected post-project income of Rs36800/Annum by 4.2 % i.e. Rs5200/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and Chief Minister JalSwavalambanYojana.



WAPCOS EXPERT INTERACTING WITH SHG IN IWMP-1 GRIWA UDAIPUR



WAPCOS EXPERT VISIT CHECK DAM IN BLOCK GIRWA UDAIPUR

Name of Project- IWMP-II
Block- Sarada
District- Udaipur
State - Rajasthan

**Table 1: Activity wise Physical Target and Achievements of IWMP-II Block- Sarada
District Udaipur Rajasthan)**

Sanctioned Amount- 581.16 Lakh

Expenditure- 467.46Lakh

Expenditure %- 80.44

Total project area- 5014 ha

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Contour stone bund	Ha	76	46	60.52	Targets were not achieved due lack of fund
2	Gully control structure	No.	749	810	108.10	Demand of villagers
3	Pasture development	Ha.	39	9	23.1	More area is not provided for pasture development by villagers.
4	VCB	Ha	252	0	0	Farmers not turned up during execution
5	PRT	Ha	179	0	0	
6	sub surface Structure	No.	2	2	100	Targets achieved
7	Nadi	No.,	8	10	125	Addl. Activity of two Nadi were made by fund of Chief Minister JalSwavalamban Yojana
8	Anicut (MMS)	No.	10	6	60	Farmers not turned up during execution
9	LSCD	No.	218	119	54.60	Targets were not achieved lack of fund
B	Production Activities					
1	Horticulture Plantation (Dry Land Horticulture)	No	34	7	20.58	Farmers not turned up during execution
2	Local craft unite	No	5	5	100	Targets were achieved
3	Vermi compost	No	40	15	37.50	Farmers not turned up during execution
4	Crop Demonstration	No	312	350	112	On the demand of farmers
5	Kitchen Garden (Kit Demo Unit)	No	120	36	30	Farmers not turned up during execution
6	Veterinary Camp	No	9	4	44.40	Villagers not showed interest.
7	Nursery establish	No	4	0	0	Villagers not showed interest
8	Poultry unit	No	11	0	0	Timely unavailability of fund

C	Livelihood System					
1	Revolving fund for SHGs for their livelihood action plan	No	18	13	72.20	Many Groups were not Fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving fund to individual enterprising for livelihood plan	No	10	8	80	Few individual not Fulfilled the pre-requisite for availing Revolving Fund.
3	Revolving fund to SHG federation for livelihood action plan	No.	2	0	0	No one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Contour stone bund, Pasture development, sub surface Structure, Anicut (MMS and LSCD) were achieved to the extent of 60.52,23.10,100,60 and 54.60% respectively.
2. Work of construction of VCB (veg. contour bund) and PRT (Puerto rico terrace) has remained unattended.
3. Excess work is done for Gully control structure and Nadi on the demand of villagers. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.
4. Some works of Nadi were completed to some extent with convergence of state fund provided under chief minister JalSwavalambanYojana.

B. Production Activities

1. Out of 9 production activities only target of 6 activities namely Horticulture Plantation (Dry Land Horticulture, Local craft unite, Vermi compost, Crops demonstration, Kitchen Garden (Kit Demo Unit and Veterinary Camp was 20.58, 100, 37.50,112,30 and 44.4% achieved respectively. The main reason for not achieving the target were lack of staff, villagers not showed interest in program me, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture etc. The target of Nursery establish and Poultry unite has remained unattended

C. Livelihood System

1. The revolving fund granted for livelihood action plan to 72.2% SHG against the target. 80% fund was given to Individual enterprises SHG against the target. No fund was granted to federation of SHG since no federation group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 65% of SHG were working properly and repaying the loan in time. 20.50% of SHG were not working smoothly and not repaying the loan in time due to lack of sale of produce. 14.50% SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-II Block- Sarada District Udaipur Rajasthan

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	15-20	12-20	12.50-20	-0.50	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	Nil	0	0	0	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	213	255	250	-5	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	1080	1200	1150	-50	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	kg/ha					
6	Maize	Kg/ha	1500	2000	2100	100	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Wheat	Kg/ha	1600	2000	2310	310	
	Mustard	Kg/ha	650	800	1100	300	
	Gram	Kg/ha	700	900	950	50	
7	Area under horticulture	ha	0	30	8	-22	Farmers are not interested in horticulture plantation because all orchard was facing the problem of irrigation and bearing tree are dried.
8	SHG federations formed	No.	47	67	53	-14	On the demands of Villagers.
9	Income	Rs.	21000	30000	46000	16000	Income of Household increase due to increase in crop yield and price

							of crop produce
10	Migration	No.	320	nil	40	-40	Reduction in migration were not achieved as per target due to work is available MNAREGA and Chief Minister JalSwavalambanYojana
11	Cropping intensity	%	80	100	93	-7	The outcome of cropping intensity not achieved due to lack of irrigation water and non-adoption of dry land technology
12	Waste land development	ha	1202	915	865	-50	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP- II Block – Sadara, Udaipur (Rajasthan)

1. The anticipated increase in ground water table has not been achieved i.e.- 0.50 m against the above target. (Refer item 1, table 2) The progress has remained short due to Water Harvesting Structure not constructed (Refer item 4,5,8&9 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like Nadi & Gully control structure etc. (Refer items 2, &7 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (1200 ha against target of 1150 ha) and remained short by 50 ha i.e.4.20% (Refer Item 4 table 2) due to 5.46% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 1.96% short than the target (achieved 250 ha against target of 255 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 7% (achieved 93 % against target of 100%) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Maize, wheat, gram & mustard crops has been more than the target due to adoption of HYV/hybrid of crop variety, Dry land crop technology and use of soil moisture conservation practices
5. Only 26.70% expected outcome of area under horticulture crops was achieved because of lack of farmers interest and irrigation water for horticulture crop. During the field visit, team observed that the horticulture plant got dried up due to non-availability of irrigation water in the sample project area in summer season.
6. 9.10 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
7. The household income increased over the expected post-project income of Rs30000/Annum by 53.30 % i.e. Rs16000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and Chief Minister JalSwavalamban Yojana.



WAPCOS EXPERT VISIT CHARAGHA IWMP-II SARDA UDAIPUR



WAPCOS EXPERT INTERACTING USER GROUPS IN IWMP-II SARDA UDAIPUR

Name of Project- IWMP-III
Block- Gogunda
District- Udaipur
State - Rajasthan

Table 1: Activity wise Physical Target and Achievements of IWMP-III Block- Gogunda District Udaipur Rajasthan)

Sanctioned Amount-211.65 Lakh

Expenditure- 167.00 Lakh

Expenditure %-78.90

Total project area- 5239 ha

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Stone wall fen.	R.Mt	485	312	64.32	Targets were not achieved due lack of fund
2	Gully control structure	No.	236	278	118	Demand of villagers
3	Pasture development	Ha.	60	12	20	More area is not provided for pasture development by villagers.
4	VCB	Ha	91	0	0	Farmers not turned up during execution
5	PRT	Ha	194	0	0	
6	Run off management structure	No.	16	9	56.2	Some villagers were not show interest in this activity
7	Nadi	No.	52	60	115.4	Addl. Activity of 8 Nadi were made by fund of Chief Minister JalSwavalamban Yojana
8	Dug out pond	No.	100	64	64	Farmers not turned up during execution
9	LSCD	No.	1476	418	28.30	Targets were not achieved lack of fund
B	Production Activities					
1	Horticulture Plantation (Dry Land Horticulture)	Ha,	6	3	50	Some villagers were not show interest in this activity
2	Local craft unite	No	10	4	40	Maximum villagers were not interested for this activity
3	Vermi compost	No	21	8	38.1	Farmers not turned up during execution
4	Crop Demonstration	No	265	300	113.20	On the demand of farmers

5	Kitchen Garden (Kit Demo Unit)	No	76	26	34.21	Farmers not turned up during execution
6	Veterinary Camp	No	8	5	62.50	Target was not achieved due to lack of coordination with veterinary department
7	Nursery establish	No	3	0	0	Villagers not showed interest
8	Poultry unit	No	14	0	0	Timely unavailability of fund
C	Livelihood System					
1	Revolving fund for SHGs for their livelihood action plan	No	9	7	77.8	Many Groups were not Fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving fund to individual enterprising for livelihood plan	No	6	4	66.7	Few individual not Fulfilled the pre-requisite for availing Revolving Fund.
3	Revolving fund to SHG federation for livelihood action plan	No.	2	0	0	No one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of stone wall fencing, Pasture development, run off management Structure, dung out pond and LSCD were achieved to the extent of 64.32,20,56.20,64 and 28.30% respectively.
2. Work of construction of VCB (veg. contour bund) and PRT (Puerto rico terrace) has remained unattended.
3. Excess work is done for Gully control structure (1.18time) and Nadi (1.15time)on the demand of villagers. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.
4. Some works of Nadi were completed to some extent with convergence of state fund provided under chief minister JalSwavalambanYojana.

B. Production Activities

1. Out of 8 production activities only target of 6 activities namely Horticulture Plantation (Dry Land Horticulture, Local craft unite, Vermi compost, Crops demonstration, Kitchen Garden (Kit Demo Unit and Veterinary Camp was 50,40, 38.10,113.2,34.21 and 62.50% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture etc .The target of Nursery establish and Poultry unite has remained unattended

C. Livelihood System

1. The revolving fund granted for livelihood action plan to 77.80% SHG and 66.70% was given to Individual enterprises SHG against the target. No fund was granted to federation of SHG since no federation group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 71% of SHG were working properly and repaying the loan in time. 29% of SHG were not working smoothly and not repaying the loan in time due to lack of sale of produce. Out of them 12% SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-III Block- Gogunda District Udaipur Rajasthan

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	20-25	18-25	18.20.-25	- 0.20	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	Nil	3	0	-3	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	151.4	200	180	-20	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	499	640	564	-76	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	kg/ha					
6	Maize	Kg/ha	1210	2560	2610	50	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance dry land crop technology and judicious use of limited irrigation water in Rabi crop
	Wheat	Kg/ha	2107	2620	2700	80	
	Mustard	Kg/ha	818	1050	1120	70	
	Gram	Kg/ha	585	870	905	35	
7	Area under horticulture	ha	24	40	13.5	-26.5	Farmers are not interested in horticulture plantation because all orchard was facing the problem of irrigation and bearing tree are dried.
8	SHG federations formed	No.	22	45	26	-19	On the demands of Villagers.
9	Income	Rs.	44500	80000	84000	4000	Income of Household increase due to increase

							in crop yield , price of crop produce and wage rate
10	Migration	No.	516	0	82	-82	Reduction in migration were not achieved as per target due to work is available MNAREGA and Chief Minister JalSwavalambanYojana
11	Cropping intensity	%	130	150	135	-15	The outcome of cropping intensity not achieved due to lack of irrigation water and non-adoption of dry land technology
12	Waste land development	ha	239	130	80	-50	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-III Block – Gogunda Udaipur (Rajasthan)

1. The anticipated increase in ground water table has not been achieved i.e. -0.20 m against the above target. (Refer item 1, table 2) The progress has remained short due to Water Harvesting Structure not constructed (Refer item 4,5,&9 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like Nadi, Gully control structure and dung out pond (Refer items 2,7 &8 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (640 ha against target of 564 ha) and remained short by 76 ha i.e. 11.90% (Refer Item 4 table 2) due to 38.4% less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 10% short than the target (achieved 180 ha against target of 200 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 15% (achieved 135 % against target of 150%) – Refer item 11, table 2.
4. The progress of both these items remained short due to lack of harvested rain water quantity.
5. However, the productivity of Maize, wheat, gram & mustard crops has been more than the target due to adoption of HYV/hybrid of crop variety, Dry land crop technology, judicious use of harvested water and use of soil moisture conservation practices
6. Only 33.75% expected outcome of area under horticulture crops was achieved because of lack of farmers interest and irrigation water for horticulture crop. During the field visit, team observed that the horticulture plant got dried up due to non-availability of irrigation water in the sample project area in summer season.
7. 57.80 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
8. The household income increased over the expected post-project income of Rs80000/Annum by 5 % i.e. Rs4000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
9. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and Chief Minister JalSwaalamban Yojana



WAPCOS EXPERT VISIT PASTURE DEVELOPMENT SITE IN IWMP-III GOGUNDA UDAIPUR



FIELD BUNDING WORK IN IWMP-III GOGUNDA UDAIPUR

Name of Project- IWMP-IV
Block- Kotra
District- Udaipur
State - Rajasthan

Table 1: Activity wise Physical Target and Achievements of IWMP-IV Block- kotra District Udaipur Rajasthan)

Sanctioned Amount- 547.20 Lakh

Expenditure- 475.66 Lakh

Expenditure %- 86.93

Total project area- 5014 ha

Year of Sanction- 2010-11

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Contour stone bund	Ha	25	17	68	Targets were not achieved due lack of fund
2	Gully control structure	No.	35	53	151.4	Demand of villagers
3	Pasture development	Ha.	10	4.5	45	More area is not provided for pasture development by Gram sabha.
4	VCB	Ha	55	10	18.20	Farmers not turned up during execution
5	PRT	Ha	30	0	0	
6	SCT(construction of staggered trenches)	Ha.	92	0	0	Targets were not achieved due to unavailability of fund
7	Nadi	No..	20	26	130	Addl. of six Nadi were made by fund of Chief Minister JalSwavalambanYojana
8	Anicut(MMS)	No.	4	4	100	Target achieved
9	LSCD	No.	560	327	58.4	Targets were not achieved lack of fund
B	Production Activities					
1	Horticulture Plantation (Dry Land Horticulture)	Ha.	7	2.5	35.71	Farmers not turned up during execution
2	Agro-forestry	Ha.	3	3	100	Targets were achieved
3	Vermi compost	No	10	5	50	Farmers not turned up during execution
4	Crop Demonstration	No	294	315	107.1	On the demand of farmers
5	Compost pit unit	No	220	37	16.82	Farmers not turned up during execution
6	Manger unit	No	220	43	19.54	Villagers not showed interest and lack of fund
C	Livelihood System					

1	Revolving fund for SHGs for their livelihood action plan	No	19	12	63.15	Many Groups were not Fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving fund to individual enterprising for livelihood plan	No	10	6	60	Few individual not Fulfilled the pre-requisite for availing Revolving Fund.
3	Revolving fund to SHG federation for livelihood action plan	No.	3	0	0	No one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Contour stone bund, Pasture development, VCB, Anicut (MMS and LSCD were achieved to the extent of 68, 45, 18.20,100 and 58.40% respectively.
2. Work of construction of SCT (construction of staggered trenches) and PRT (Puerto rico terrace) has remained unattended.
3. Excess work is done for Gully control structure and Nadi on the demand of villagers. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.
4. Some works of Nadi were completed to some extent with convergence of state fund provided under chief minister JalSwavalambanYojana.

B. Production Activities

1. Out of 6 production activities the target of 6 activities namely Horticulture Plantation (Dry Land Horticulture), Agro- Forestry, Vermi compost, Crops demonstration, compost pit and Manger unit was 35.71,100,50,107.1,16.82 and 19.54% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture etc.

C. Livelihood System

1. The revolving fund granted for livelihood action plan to 63.15% SHG against the target. 60% fund was given to Individual enterprises SHG against the target. No fund was granted to federation of SHG since no federation group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 74% of SHG were working properly and repaying the loan in time. 26% of SHG were not working smoothly and not repaying the loan in time due to lack of sale of produce. Out of them12.50% SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-IV Block- kotra District Udaipur Rajasthan

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	15-20	12-20	13-20	-1.0	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	Nil	2	0	0	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	79	125	102	-23	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	882	1030	956	-74	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	kg/ha					
6	Maize	Kg/ha	2500	2900	2965	65	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Moong	Kg/ha	400	560	605	45	
	wheat	Kg/ha	2400	2700	2815	115	
	Gram	Kg/ha	900	1100	1125	25	
7	Area under horticulture	ha	40	60	6.2	-53.8	Farmers are not interested in horticulture plantation because lack of irrigation and bearing tree is dried in summer season.
8	SHG federations formed	No.	8	42	29	-13	Villagers not turned up during execution
9	Income	Rs.	48800	75000	81000	6000	Income of Household increase due to increase in crop yield and price of crop produce
10	Migration	No.	467	0	95	-95	Reduction in migration were not achieved as per

							target due to work is available MNAREGA and Chief Minister JalSwavalambanYojana
11	Cropping intensity	%	130	150	138	-12	The outcome of cropping intensity not achieved due to lack of irrigation water and non-adoption of dry land technology
12	Waste land development	ha	1115	1005	931	-74	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP -IV Block – Kotra, Udaipur. (Rajasthan)

1. The anticipate increase in ground water table has not been achieved i.e. -1.0 m against the above target. (Refer item 1, table 2)The progress has remained short due to Water Harvesting Structure not constructed (Refer item 4,5,6&9 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like Nadi& Gully control structure and Anikut. (Refer items 7,2&8 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (1030 ha against target of 956 ha) and remained short by 74 ha i.e.7.20% (Refer Item 4 table 2) due to 7.40% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 22.54% short than the target (achieved102 ha against target of 125 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 12% (achieved 138 % against target of 150%) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Maize, moong, wheat and gram crops has been more than the target due to adoption of HYV/hybrid of crop variety, Dry land crop technology, judicious use of limited irrigation water and use of soil moisture conservation practices only 10.30% expected outcome of area under horticulture crops was achieved because of lack of farmers interest and irrigation water for horticulture crop. During the field visit, team observed that the horticulture plant got dried up due to non-availability of irrigation water in the sample project area in summer season.
5. 69.10 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
6. The household income increased over the expected post-project income of Rs.75000/Annum by 8.00 % i.e. Rs 6000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and Chief Minister JalSwaalambanYojana



WAPCOS EXPERT VISIT LSCD STRUCTURE IN IWMP-IV KOTRA UDAIPUR



WAPCOS EXPERT INTERACTING WITH THE VILLAGERS IN IWMP-IV KOTRA UDAIPUR

Name of Project- IWMP-V
Block- Kherwara
District- Udaipur
State - Rajasthan

Table 1: Activity wise Physical Target and Achievements of sample IWMP-V Block- kherwara District Udaipur (Rajasthan)

Sanctioned Amount-664.56 Lakh

Expenditure- 485.64 Lakh

Expenditure %- 71.08

Total project area- 5538 ha

Year of Sanction- 2010-11

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Contour stone bund	Ha.	15	18	120	On the demand of farmers with convergence of MNAREGA and Chief Minister JalSwavalamban Yojana
2	Gully control structure	No.	133	96	72.20	Due to unavailability of fund at proper time
3	PRT(Puerto rico terrace)	Ha.	40	0	0	Farmers not turned up during execution
4	VCB(veg. contour bund)	Ha.	48	27	56.25	Could not be executed due to unwillingness of farmers.
5	Pasture Development	Ha.	10	3.4	34	More area is not provided for pasture development by Gram sabha.
6	LSCD	No.	85	38	44.70	Could not be executed due to unwillingness of farmers and lack of fund
7	Nadi	No.	3	6	200	Executed as per Gram Sabha demand. Addl. three Nadi were made by fund of Chief Minister JalSwavalamban Yojana
8	WHS(Anicut)	No.	2	0	0	Due to lack of fund
B	Production Activities					
1	Horticulture Plantation (Dry Land Horticulture)	Ha.	1	1	100	Target was achieved
2	Agro-Forestry	No.	3	1	33.3	Villagers not showed interest.
3	Vermi compost	No.	20	6	30	Due to lack of fund
4	Crop Demonstration	No.	450	485	108	On the demand of farmers
5	Compost pit	No.	54	13	24.10	Maximum Villagers not showed interest.

6	Manger unit	No.	45	18	40	Farmers not turned up during execution
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No.	16	12	75	Many Groups were not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No.	8	5	62.5	The group not fulfilled the pre-requisite for availing Revolving Fund.
3	Revolving fund to SHG federation for livelihood action plan	No.	3	1	33.3	only one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management(NRM)

1. The target of Gully control structure VCB (veg. contour bund), Pasture Development, and LSCD were achieved to the extent of 72.20, 56.25,34 and 44.20% respectively.
2. Work of construction of PRT (Puerto Rico terrace) and Anikut structure has remained unattended
3. Excess work is done for Contour stone bund (1.20 times) and Nadi (2 times) were made on the demand of villagers. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

1. Out of 6 production activities the target of all activities namely Horticulture Plantation (Dry Land Horticulture, Agro- forestry, Vermi compost, Crops demonstration, compost pit and Manger unite was 100,33.3,30,108,24.10 and 40% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture etc. The target of Nursery establish and Poultry unite has remained unattended

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 75% of SHG, 62.5% to individual SHG and 33.3% fund was granted to SHG federation against the target.
2. Expert team met the members of SHG groups during the visit. The 68% of SHG has been working properly and repaying the loan in time. Only 32% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP-V Block- Kherwara District UDAIPUR
Rajasthan**

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	20-25	17-25	17.5-25	-0.50	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	Nil.	2	0	0	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	201	270	240	-30	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	1200	1500	1382	-118	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	ha					
6	Maize	Kg/ha	1500	2200	2350	150	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance dry land crop technology and judicious use of limited irrigation water in Rabi crop
	Urd	Kg/ha.	350	450	510	60	
	Moong	Kg/ha.	500	600	620	20	
	Wheat	Kg/ha	2700	2850	2905	55	
	Gram	Kg/ha	900	1020	1050	30	
	Mustard	Kg/ha	950	1100	1165	65	
7	Area under horticulture	ha	36	55	13	-42	Farmers are not interested due to lack of water
8	SHG (Self Help Group) formed	No.	9	32	26	-6	Some groups not fulfill the pre-requisite for SHG formation
9	Income	Rs.	50000	75000	80500	5500	Income of Household increase due to increase in crop yield , price of

							crop produce and wage rate
10	Migration	No.	2488	500	650	-150	Maximum outcome of Reduction in migration not achieved as per target. However, reduction has taken place, the same is due to available work under MNAREGA and Chief Minister JalSwavalambanYojana
11	Cropping intensity	%	115	140	125	-15	The outcome of cropping intensity not achieved due to lack of storage of rain water
12	Waste land development	ha	2231	2010	2182	-172	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-V Block – Kherwara Udaipur. (Rajasthan)

1. The anticipated increase in ground water table has not been achieved i.e. -0.50 m against the above target. (Refer item 1, table 2) The progress has remained short due to Water Harvesting Structure not constructed (Refer item 3, 6&8 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like contour stone bund, Gully control structure and Nadi (Refer items 1,2, &7 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (1500 ha against target of 1382 ha) and remained short by 118 ha i.e. 7.9% (Refer Item 4 table 2) due to 8.56% less progress on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 11.10 % short than the target (achieved 240 ha against target of 270 ha) – Refer item 3, table. Similarly cropping intensity remained short by 15% (achieved 125 % against target of 140%) – Refer item 11, table 2. The progress of both these items remained short due to lack of harvested rain water quantity. However, the productivity of Maize, urd, moong, wheat and mustard crops has been more than the target due to adoption of HYV/hybrid of crop variety, Dry land crop technology, use of soil moisture conservation practices and judicious use of limited irrigation water.
4. Only 25% expected outcome of area under horticulture crops was achieved because of lack of farmers interest and irrigation water for horticulture crop. During the field visit, team observed that the horticulture plant got dried up due to non-availability of irrigation water in the sample project area in summer season.
5. 81.25 % expected outcome of SHG has been achieved to implement the livelihood action their income.
6. The household income increased over the expected post-project income of Rs 75000/Annum by 7.30 % i.e. Rs 5500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and Chief Minister Jal Swavalamban Yojana



WAPCOS EXPERT VISIT FIELD BUNDING IN KHERWARA IWMP-V UDAIPUR



Name of Project- IWMP-VI
Block- Salumber
District- Udaipur
State - Rajasthan

Table 1: Activity wise Physical Target and Achievements of sample IWMP-VI Block-Salumber District Udaipur (Rajasthan)

Sanctioned Amount-603.12 Lakh

Expenditure- 462.54 Lakh

Expenditure %- 76.69

Total project area-5026 ha

Year of Sanction- 2010-11

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Contour stone bund	Ha.	100	132	132	On the demand of farmers with convergence of MNAREGA
2	Gully control structure	No.	24	9	37.5	Due to unavailability of fund at proper time
3	PRT(Puerto rico terrace)	Ha.	1067	0	0	Farmers not turned up during execution
4	VCB(veg. contour bund)	Ha.	29	15	51.72	Could not be executed due to unwillingness of some farmers.
5	Pasture Development	Ha.	11	6.5	59.10	More area is not provided for pasture development by villagers.
6	LSCD	No.	21	13	61.90	Due to unavailability of fund at proper time
7	Nadi	No.	21	26	123.8	Addl. of five Nadiwere made by fund of Chief Minister JalSwavalambanYojana
8	WHS(Anicut)	No.	1	1	100	Target was achieved
9	SCT	No.	100	0	0	Due to lack of fund
B	Production Activities					
1	Horticulture Plantation (Dry Land Horticulture)	Ha.	2	2	100	Target was achieved
2	Local artisans	No.	25	5	20	Villagers not showed interest.
3	Animal health camp	No.	2	2	100	Target was achieved with the coordination of veterinary department
4	Crop Demonstration	No.	300	335	112	On the demand of farmers
5	Poultry unit	No.	25	6	24	Maximum Villagers not showed interest.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No.	16	11	68.75	many Groups were notfulfilled the pre-requisite for availing Revolving Fund.

2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No.	10	6	60	The group not fulfill the pre-requisite for availing Revolving Fund.
3	Revolving fund to SHG federation for livelihood action plan	No.	2	0	0	No one Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Gully control structure, VCB, Pasture Development, LSCD and WHS (Anicut) were achieved to the extent of 37.5, 51.72, 59.1, 61.90 and 100% respectively.
2. Work of construction of PRT (Puerto rico terrace) and SCT structure has remained unattended.
3. Excess work is done for Contour Stone bund (1.32 times) and Nadi (1.24 times) were made on the demand of villagers. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

1. Out of 5 production activities the target of all activities namely Horticulture Plantation (Dry Land Horticulture, Local craft unite, Crops demonstration, Veterinary Camp and poultry unite was 100, 20,112,100 and 24% achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in program me, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture etc. The target of Nursery establish and Poultry unite has remained unattended

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 68.75% of SHG,60% to individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 78% of SHG has been working properly and repaying the loan in time. Only22% of SHG were not working smoothly and not repaying the loan in time due lack of marketing of produce. Out of which some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP-VI Block- Salumber District Udaipur
Rajasthan**

S.no	Item	Unit	Pre-project Status	Expected Post project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	15-20	13-20	13.8-20	-0.80	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired /rejuvenated	No.	Nil.	1	0	0	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	532	710	622	-88	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	1482	1745	1632	-113	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	ha					
6	Maize	Kg/ha	1800	2300	2400	100	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Urd	Kg/ha.	384	550	560	10	
	Moong	Kg/ha.	360	500	525	25	
	Wheat	Kg/ha	2580	2700	2760	60	
	Gram	Kg/ha	500	800	910	110	
	Mustard	Kg/ha	900	1000	1080	80	Outcome not achieved due to attack of white rust disease in mustard
7	Area under horticulture	ha	32	57	9	-48	Farmers are not interested due to lack of water
8	SHG (Self Help Group) formed	No.	8	38	30	-8	Some groups not fulfill the pre-requisite for SHG formation
9	Income	Rs.	46000	60000	67000	7000	Income of Household increase due to increase

							in crop yield and price of crop produce
10	Migration	No.	1456	0	102	-102	Maximum outcome of Reduction in migration not achieved as per target. However, reduction has taken place, the same is due to available work under MNAREGA and Chief Minister JalSwavalambanYojana
11	Cropping intensity	%	145	160	152	-8	The outcome of cropping intensity not achieved due to lack of storage of rain water
12	Waste land development	ha	1449	1230	1117	-113	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-I Block – Salumber Udaipur. (Rajasthan)

1. The anticipate increase in ground water table has not been achieved i.e. -0.80 m against the above target. (Refer item 1, table 2) The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2,3&9 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like contour stone bund ,Nadi and WHS (Refer items 1,7 &8 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (1745 ha against target of 1632 ha) and remained short by113 ha i.e.6.47% (Refer Item 4 table 2) due to 9.20% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 12.40 % short than the target (achieved 622 ha against target of 710 ha) – Refer item 3, table. Similarly cropping intensity remained short by 8% (achieved 152 % against target of 160%) – Refer item 11, table 2.The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Maize, urd, moong ,wheat, gram and mustard crops has been more than the target due to adoption of HYV/hybrid of crop variety, Dry land crop technology, use of soil moisture conservation practices and judicious use limited irrigation water
4. Only 15.80% expected outcome of area under horticulture crops was achieved because of lack of farmers interest and irrigation water for horticulture crop. During the field visit, team observed that the horticulture plant got dried up due to non-availability of irrigation water in the sample project area in summer season.
5. 79 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
6. The household income increased over the expected post-project income of Rs60000/Annum by11.67 % i.e. Rs7000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and Chief Minister JalSwavalambanYojana



Time: 29-03-2019 11:59
Note: Beneficiary Meeting Bharat Nirman Rajiv Gandhi Sewa Kshetra-1 Kharkha Salumbar

**WAPCOS EXPERT INTERACTING WITH THE BENEFICIARIES IN IWMP-VI SALUMBAR
UDAIPUR**



Latitude: 24.268854
Longitude: 74.101123
Elevation: 356.54m
Accuracy: 3.0m
Time: 03-29-2019 12:47
Note: plantation charagah kharka Talab salumbar

Powered by NoteCam

PLANTATION WORK IN IWMP-VI SALUMBAR UDAIPUR

Name of Project- IWMP-02
Block- Srinagar
District- Ajmer
State Rajasthan

Table 1: Activity wise Physical Target and Achievements of sample IWMP-02 Block- Srinagar District Ajmer (Rajasthan)

Sanctioned Amount- 808.96 Lakh

Expenditure- 547.8 Lakh

Expenditure %- 67.72

Total project area- 5393 ha

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Khadin	Nos	148	63	42.56	Target not achieved due to unwillingness of farmers.
2	Waste weir	Nos	252	0	0	Executed along with field bunding
3	Farm pond	Nos	3	49	1633	This activity was done as per demand by more farmers instead of Field bunding or Khadin
4	Earthen Bund	Hac	704	44	6.25	Could not be executed due to unwillingness of farmers.
5	Pasture Development	Hac	5	20	406	More area is given for pasture development by villagers.
6	Water Harvesting Structure (Masonry structure-Pacca check dam)	Nos	12	0	0	This activity was replaced by Nadi (MPTs) as per demand of the villagers.
7	Nadi	Nos	0	55	100	Executed as per Gram Sabha demand
8	WHS(Anicut)	Nos	0	7	100	This activity has been taken as per demand of Gram Sabha
B	Production Activities					
1	Horticulture Plantation (Dry Land Horticulture)	Nos	855	470	55	Farmers not turned up during execution
3	Floriculture Agro Forestry	Nos	1472	0	0	Farmers not turned up during execution
4	Vermi compost	Nos	55	13	23.64	Farmers not turned up during execution
5	Crop Demonstration	Nos	2566	353	13.75	Farmers not turned up during execution
6	Kitchen Garden (Kit Demo Unit)	Nos	1388	0	0	Villagers not showed interest.
7	Veterinary Camp	Nos	45	0	0	Villagers not showed interest.
8	Manger for Cattle	Nos	914	72	7.88	Farmers not turned up during execution

9	Ram (Sheep bull) distribution	Nos	42	0	0	livestock owners not turned up during execution
10	Goat Distribution	Nos	47	0	0	livestock owners not turned up during execution
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	Nos	33	4	12.10	Not many Groups fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	Nos	58	0	0	No one could fulfill the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Khadin and Earthen bund were achieved to the extent of 43% and 6% respectively only.
2. Work of construction of Waste weir and WHS (Pukka check dam) structure has remained unattended
3. Excess work is done for Farm pond (16 times), Pasture development (4 times), Nadi (100 times) and WHS (Anicuts) 100% were made on the demand of villagers. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

1. Out of 10 production activities only target of 4 activities namely, Horticulture orchard plantation, demonstration of vermi composting, crops demonstration and distribution of mangers for cattle 55, 23.64, 13.74 and 7.88 percent were achieved respectively. The main reason for not achieving the target were lack of staff, villages not showed interest in programme, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture etc.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 12% of SHG against the target. No fund was granted to individual SHG since; no such group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 75% of SHG has been working properly and repaying the loan in time. Only 25% of SHG were not working smoothly and not repaying the loan in time. SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-2 Block- Srinagar in District Ajmer Rajasthan

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	30 to 35	25 to 30	24-30	1	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	Nil	3	Nil	-3	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	544	650	596	--54	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	1928	2345	2142	-203	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	ha					
6	Yield of Bajra	Kg/ha	580	655	985	330	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Yield of Wheat	Kg/ha	2000	2350	2912	562	
	Yield of Gram	Kg/ha	600	720	760	40	
	Yield of Mustard	Kg/ha	950	1150	1094	-56	Outcome not achieved due to attack of white rust disease in mustard
7	Area under horticulture	ha	15	65	20	-45	Farmers are not interested due to lack of water
8	SHG (Self Help Group) formed	No.	5	25	21	-4	Some groups not fulfill the pre-requisite for SHG formation
9	Income	Rs.	6500	15700	25000	9300	Income of Household

							increase due to increase in crop yield and price of crop produce
10	Migration	No.	550	125	100	-25	Maximum outcome of Reduction in migration not achieved as per target. However, reduction has taken place, the same is due to available work under MNAREGA and Chief Minister Jal Swavalamban Yojana
11	Cropping intensity	%	128	133	124	-9	The outcome of cropping intensity not achieved due to lack of storage of rain water
12	Waste land development	ha	350	350	136	-214	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-02 Block – Srinagar, Ajmer Dist. (Rajasthan)

1. The anticipated increase in ground water table has been achieved i.e. + 1m against the above target. (Refer item 1, table 2)
2. The progress has remained short due to Water Harvesting Structure (12 numbers) not constructed (Refer item 6 under NRM activity table 1). But the marginal increase in GW table is registered due to implementation of other structures like Nadi & WHS (Anicut) though not listed under the programme but taken up as per demand of Gram Sabha (Refer items 7 & 8 of NRM activity table 1).
3. The “Area Under Agriculture Crop” did not increase as expected (2142 ha against target of 2345 ha) and remained short by 203 ha i.e. 8.7% (Refer Item 4 table 2) due to 59% less progress on conversion of waste land into agricultural land (Refer Item 4 table 2).
4. The increase in irrigated area after implementation of the watershed structure remained 8% short than the target (achieved 596 ha against target of 650 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 9% (achieved 124% against target of 133%) – Refer item 11, table 2.
5. The progress of both these items remained short due to lack of harvested rain water quantity.
6. However, the productivity of Bajra, Wheat & Gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops. The crop of mustard however failed due to white rust disease.
7. Only 31% expected outcome of area under horticulture crops was achieved because of lack of farmers' interest and irrigation water for horticulture crop. During the field visit, team observed that the horticulture plant got dried up due to non-availability of irrigation water in the sample project area.
8. 84% expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
9. The household income increased over the expected post-project income of Rs 15700/Annum by 59% i.e. Rs 25000/- mainly due to increase in crop productivity, price of agriculture produces and adoption of livelihood programme in the project area.
10. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and Chief Minister Jal Swavalamban Yojana.



WAPCOS TEAM DISCUSSING WITH S.E. AT AJMER



**WAPCOS TEAM VISIT POND IN VILLAGE RAGHUNATHPUR IWMP-II
SRINAGAR AJMER**

Name of Project- IWMP-03
Block- Pisangan
District- Ajmer
State Rajasthan

Table 1: Activity wise Physical Target and Achievements of IWMP-03 Block- Pisangan District Ajmer (Rajasthan)

Sanctioned Amount- 971.85 Lakh

Expenditure- 845.62 Lakh

Expenditure %- 87.01

Total project area- 6479 ha

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Earthen Field bund	Ha	831	847	102	Targets achieved
2	Khadin	Nos	274	253	92.3	Out of 253 khadin 14 Khadin was constructed by convergence with other schemes like Untied (state fund).
3	Pasture development	Ha	47	18	38.30	Villagers already developed 5.00ha.pasture under MGNREGA
4	V-ditch	Ha	300	0	0	Farmers not turned up during execution
5	Staggered Trenches	Ha	27	0	0	
6	Nadi	Nos	26	12	46.15	Out of 12Nadi 3 Nadi were constructed by convergence with state fund (Untied).
7	Live check dams	Nos.	0	67		Addl. Activity of live check dams to check small gullies are taken as per villager's demand.
8	Small Masonry Structure	Nos	26	0	0	Farmers not turned up during execution
9	LSCD	Nos	365	354	96.98	Targets achieved in large
10	Medium Masonry structure	Nos	9	0	0	Activity could not be executed due to unwillingness of villagers.
B	Production Activities					
1	Horticulture plantation	No	98	39	39.8	Farmers not turned up during execution
2	Agro Forestry on Arable land	No	1824	0	0	Farmers not turned up during execution
3	Demonstration of Vermi Compost	No	24	8	33.30	Farmers not turned up during execution

4	Kitchen Gardening	No	1800	0	0	Farmers not turned up during execution
5	Crops Demonstration	No	3200	1637	51.15	Farmers not turned up during execution
6	Breed Improvement - Natural method	No	7	0	0	Villagers not showed interest.
7	Mineral mixture	No	2479	0	0	Villagers not showed interest
8	Organize Veterinary Camps	No	56	0	0	. Farmers not turned up during execution
9	PashuNaad - Basic	No	1025	36	3.51	Villagers not turned up during execution
C	Livelihood System					
1	Revolving fund for SHGs for their livelihood action plan	No	190	39	20.52	Many Groups were not Fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving fund to individual enterprising for livelihood plan	No	443	24	5.41	Maximum individual not Fulfilled the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of field bundling, Khadin, Pasture development, Nadi, LSCD were achieved to the extent of 102%, 92%, 38%, 46% and 97% respectively.
2. Work of construction of V-ditch, staggered trenches small masonry structure and medium masonry structure has remained unattended.
3. Excess work is done for live check dams on the demand of villagers. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.
4. Some works like Nadi, khadin, Pasture development were completed to some extent with convergence of MGNREGA and state fund provided under chief minister Jal Swavalamban Yojana.

B. Production Activities

1. Out of 9 production activities only target of 4 activities namely, Horticulture orchard model, Demonstration of vermin composting model, Crops demonstration and Pashu naad was 39.8, 33.30, 51.15 and 3.51 percent achieved respectively. The main reason for not achieving the

target were lack of staff, villages not showed interest in program me, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture etc.

C. Livelihood System

1. The revolving fund granted for livelihood action plan to 21% SHG against the target. 5.41% fund was given to Individual enterprises SHG against the target. No fund was granted to federation of SHG since no federation group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 50.40% of SHG were working properly and repaying the loan in time. 30.50% of SHG were not working smoothly and not repaying the loan in time. 20.10% SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-3 Block- Pisangan in District Ajmer Rajasthan

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	26to 35	22 to 30	21.5-30	0.50	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	Nil	11	Nil	-11	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	544	650	592	-58	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	4285	4520	4380	-140	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	ha					
6	Yield of Bajra	Kg/ha	708	1200	1105	-95	Productivity not achieved due to early withdrawal of monsoon at the time grain formation in the crop
	Yield of Maize	Kg/ha	750	1400	1100	-300	
	Yield of Wheat	Kg/ha	1894	3200	3255	55	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Yield of Barely	Kg/ha	1775	3200	3208	8	
7	Area under horticulture	ha	0	90	02	-88	Farmers are not interested in horticulture plantation

							because all orchard was facing the problem of irrigation and bearing tree are dried.
8	SHG federations formed	No.	20	28	39	11	On the demands of Villagers.
9	Income	Rs. In lakh	13500	18000	26500	8500	Income of Household increase due to increase in crop yield and price of crop produce
10	Migration	No.	61	40	10	-30	Reduction in migration were not achieved as per target due to work is available MNAREGA and Chief Minister Jal Swavalamban Yojana
11	Cropping intensity	%	126	140	135	-5	The outcome of cropping intensity not achieved due to lack of irrigation water and non-adoption of dry land technology
12	Waste land development	ha	770	305	95	-210	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-03 Block – Pisangan, Ajmer Dist. (Rajasthan)

1. The anticipated increase in ground water table has been achieved i.e. + 0.50 m above the target. (Refer item 1, table 2)
2. The progress has remained short due to water Harvesting Structure (11 numbers) not constructed at all (Refer item 2, table 2). But the marginal increase in GW table is registered due to other structure like live check dams though not listed under the programme but taken up as per demand of Gram Sabha (Refer items 7 under NRM activity table 1).
3. The “Area Under Agriculture Crop” did not increase as expected (4380 ha against target of 4520 ha) and remained short by 140 ha i.e. 3 % (Refer item 4 table 2) due to 21% less progress on conversion of waste land into agricultural land (Refer item 12 table 2).
4. The increase in irrigated area after implementation of the watershed structure remained 9% short than the target (achieved 592 ha against target of 650 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 5% (achieved 135% against target of 140%) – Refer item 11, table 2.
5. The progress of both these items remained short due lack of harvested rain water quantity. However the productivity of Wheat & Barley crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops. The crop of Bajra & Maize however failed due to early withdrawal of monsoon and scattered rainfall.
6. Only 2.20% expected outcome of area under horticulture crops was achieved because of lack of farmer’s interest and irrigation water for horticulture crop. During the field visit, team observed that the horticulture plant got dried up due to non-availability of irrigation water in the sample project area.
7. 139% of the expected outcome of SHG i.e. more than the target has been achieved to implement the livelihood action plan to increase the income of villagers.
8. The household income increased over the expected post-project income of Rs 18000/Annum by 47.2% i.e. Rs 26500/- mainly due to increase in crop productivity, price of agriculture produce and adoption of livelihood programme in the project area.
9. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and Chief Minister Jal Swawlambhan Yojana.



**WAPCOS TEAM VISITED FIELD KHADIN IN VILLAGE NAGELAV
IWMP-III PISANGAN AJMER**



**WAPCOS TEAM INTERACTING WITH SHG ABOUT LIVELIHOOD ACTIVITES
IN VILLAGE BHATSURI IWMP-III PISANGAN AJMER**

Name of Project- IWMP-05

Block- Sarwar

District- Ajmer

State Rajasthan

**Table 1-Activity wise Physical Target and Achievements of IWMP -05, Block Sarwar District
Ajmer (Rajasthan)**

Sanctioned Amount- 641.28 Lakh

Expenditure- 579.62 Lakh

Expenditure %- 90.38

Total project area- 5344 ha

Year of Sanction- 2010-11

S.No.	Name of Activity	Unit	Targets as DPR	Achievement	% Achievement	Remark
A	Natural Resource Management		Phy	Phy		
1	Khadin	Nos	26	26	100	Executed as per DPR
2	Pit excavation for Horticulture Orchard	Nos	19	0	0	Response not received from villagers
3	Farm Pond	Nos	93	55	59.10	Some Farmers not turned up during execution
4	Field Bund	ha.	841	365	43.4	
5	Pasture Development	ha.	80	20	25	
6	Nadi	Nos	18	17	94.4	
7	MMS	Nos	41	0	0	Field conditions were not conducive while execution
8	WHS	Nos	2	0	0	
9	LSCD	Nos	22	0	0	
C	Production Activities					
10	Horticulture Plantation	Nos	148	50	33.80	Few Farmers not turned up during execution
11	Vermi compost	Nos	13	10	76.92	Few Farmers not turned up during execution
12	Crop Demonstration	Nos	425	110	25.88	
13	Toolkit	Nos	13	0	0	
14	Manger for livestock	Nos	27	50	185.2	As per demand of villagers more target were achieved.
D	Livelihood System					
15	Revolving Fund to SHG for livelihood action plan.	Nos	132	22	16.67	Many Groups were not Fulfilled the pre requisite for availing Revolving Fund
16	Revolving Fund to individual Entrepreneurs for livelihood plan.	Nos	29	7	24.13	Not many Individuals Fulfilled the prerequisite for availing Revolving Fund
17	Grant in Aids to Federation SHG for their livelihood plan.	Nos	6	0	0	No Enterprising SHG or Federation formed

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of field bundling (43.4%), Khadin (100%), farm pond (59.1%), pasture development (25%) and water harvesting structure (24.4%) were achieved.
2. Work of construction of pit excavation for horticulture, MMS, WHS, LSCD and Nadi structures has remained unattended. All these unattended works have made bad impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in not improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

1. Out of 5 production activities only target of 4 activities namely, Horticulture orchard plantation, Demonstration of vermin composting model, Crops demonstration and distribution of mangers for cattle were 33.8, 76.2, 25.88 and 185.2 percent achieved respectively. The main reason for not achieving the target were lack of staff, villagers not showed interest in programme, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Veterinary hospital, Department of agriculture etc.

C. Livelihood System

1. The revolving fund granted for livelihood action plan to 16% of SHG against the target. 24.13% fund was granted to individual enterprises SHG against the target. No fund was granted to federation of SHG since no federation group was formed against the target.
2. Expert team met the members of SHG groups during the visit. The 60% of SHG were working properly and repaying the loan in time. 20.5% of SHG were not working smoothly and not repaying the loan in time. 19.8% SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-5 Block- Sarwar in District Ajmer (Rajasthan)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	30-35	28-30	27.2-30	0.80	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	Nil	2	Nil	-2	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	928	980	930	-50	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Waste land development	ha	468	366	158	-208	Target not achieved due to lack of funds
5	Area under agriculture crop	ha	3137	3450	3345	-105	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
6	Crop productivity						
7	Yield of Bajra	Kg/ha	620	950	1020	70	Adoption of new crop management practices by the farmers
	Yield of Maize	Kg/ha	710	980	1035	55	
	Yield of Moong	Kg/ha	305	410	320	-90	Due to attack of Mosaic disease
	Yield of Wheat	Kg/ha	2500	3020	2960	-60	Lack of irrigation water as per requirement
	Yield of Mustard	Kg/ha	920	1090	1105	15	Adoption of dry land farming and seed replacement
8	Area under horticulture	ha	31	50	20	-30	Farmer are not interested due to lack of irrigation water specially in summer season
9	SHG federations formed	No.	16	30	22	-8	Some groups not fulfill the pre-requisite for

							SHG formation
10	Income	Rs. In lakh	35000	50000	45250	- 4750	The maximum villagers do not adopt the integrated farming system in the area
11	Migration	No.	168	62	50	-12	Reduction in migration were not achieved as per target due to work is available MNAREGA and Chief Minister Jal Swavalamban Yojana
12	Cropping intensity	%	115	135	126	-9	The outcome of cropping intensity not achieved due to lack of irrigation water and non-adoption of dry land technology

Impact Evaluation Summary of IWMP-05 Block – Sarwar, Ajmer Dist. (Rajasthan)

1. The anticipated increase in ground water table has been achieved i.e. with + 0.80 m above the target. (Refer item 1, table 2)
The progress has remained short due to 38 Nos. of Water Harvesting Structures farm pond not constructed (Refer item 3, table 1). But the marginal increase in GW table is registered due to implementation of other structures like Nadi & WHS (Khadin) as per the target. (Refer items 1 & 6 of NRM activity table1).
2. The “Area Under Agriculture Crop” did not increase as expected (3345 ha against target if 3450 ha) and remained short by 105 ha i.e. 3.10% (Refer item 5 table 2) due to 56% less progress on conversion of waste land into agricultural land (Refer item 4 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 5.10% short than the target (achieved 930 ha against target of 980 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 9% (achieved 126% against target of 135%) – Refer item 12, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Bajra, Maize and Mustard crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops. The crop of Wheat failed to achieve the target of productivity due to lack of irrigation water as require by crop and Moong affected by Mosaic disease.
5. Only 40% expected outcome of area under horticulture crops was achieved because of lack of farmers interest and irrigation water for horticulture crop. During the field visit, the team observed that the horticulture plant got dried up due to non-availability of irrigation water in the sample project area.
6. 73 % of the expected outcome of SHG has been achieved to implement the livelihood action plan to increase the income of villagers.
7. The household income decreased over the expected post-project income of Rs 50000/Annum by 9.5% i.e. Rs 45250/- mainly due to decrease in crop productivity, and non-adoption of livelihood programme in the project area.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and Chief Minister Jal Swavalamban Yojana.



CONSTRUCTION OF NADI IN CHARAGAH VILLAGE KACHOLIYA IWMP-V ARAIN AJMER



WAPCOS TEAM INTERACTING WITH THE BENEFACRIES OF FARM POND IN VILLAGE HARPURA IWMP-V AJMER

Name of Project- IWMP-06
Block- Kekri
District- Ajmer
State Rajasthan

Table 1: Activity wise Physical Target and Achievements of IWMP-06 Block- Kekri**District Ajmer (Rajasthan)**

Sanctioned Amount- 744.84 Lakh

Expenditure- 416.34 Lakh

Expenditure % -56

Total project Area- 6207 ha

Year of Sanction-2010-11

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Field bund	ha.	896	775	86.5	Response of few farmers not received
2	Farm Pond	Nos	13	10	76.92	Few Farmers not turned up during execution
3	Pasture Development and Agro- Forestry	ha.	8.5	15	176	More area covered as per requirement of villagers.
i)	Contour Trench (CCT)	ha.	33	0	0	Community later did not accepted the activity
ii)	Agro Forestry	ha	32.5	0	0	Response not received from villagers
4	Land Reclamation of Culturable Waste Land	ha	10	0	0	Response not received from villagers
5	Horticulture Orchard Model.	No.	28	0	0	Response not received from villagers
6	Peripheral Bund of farmers field near by Khari River	No	15	12	80	Few farmers not turned up during execution
7	SGPT (Shared Gov. Project Team)	Nos	0	172	100	This Activity was introduced in the later years
8	MPT (Mini Percolation Tank)	Nos	0	12	100	This Activity was introduced in the later years
9	Anicut	Nos	3	0	0	Field Conditions were not conducive for execution
10	Minor Masonry Structure (MMS)	Nos	38	10	26.3	Activities undertaken as per prevailing site conditions and beneficiary's requirement
11	Khadin	Nos	172	23	13.4	23 big sized khadin were constructed as per demand generated against 172 of various size

12	LSCD (Loose Stone Check Dam)	Nos	33	0	0	Field conditions were not conducive while execution
13	Nadi	Nos	14	26	185.7	More Nadi were constructed as per field demands
13	Roadside Plantation	Km	3.5	0	0	Not executed due to unwillingness of watch and ward after plantation.
14	Botanical Park	No	4	0	0	Response not received from villagers
15	RWH (Rain Water Harvesting) at individual house / Common Structure	No	3	0	0	Response not received from villagers
B	Production Activities					
1	Horticulture plantation.	No	28	0	0	Response not received from farmers.
2	Promotion for Organic Farming	No	21	0	0	Response not received from villagers
3	Gypsum bag for Land Reclamation	No	229	0	0	Response not received from villagers
4	Demonstration of Vermi Compost.	No	24	20	83.3	Executed as per DPR
5	NADEP composting	No	29	0	0	Response not received from villagers
6	Demonstration of Spice cultivation	No	18	0	0	Response not received from villagers
7	Tool Kit for skill Labor for IGA	No	8	0	0	Response not received from villagers
8	Participatory Varietal Selection - Crops Demonstration	No	389	736	189.2 0	Minikilts Distributed against Crop Demonstration hence increase in Number
9	Demonstration of Aromatic	No	15	0	0	Response not received from villagers
10	High Breed Vegetable Cultivation Model	No	161	0	0	Response not received from villagers
11	Demonstration of Model of Medicinal cultivation	No	31	0	0	Response not received from villagers
12	Developing Soil health card of farmers	No	1300	0	0	Response not received from villagers

13	Manger for Livestock	No	31	36	116.1	Low Cost iron Mangers given and Hence more beneficiaries Approached
14	Primary health kit for livestock	No	8	0	0	Response not received from villagers
15	Demonstration for Forage Crops	No	33	0	0	Response not received from villagers
16	Demonstration of nutritious feeding management	No	26	0	0	Response not received from villagers
17	Breed Improvement - Natural method	No	1	0	0	Response not received from villagers
18	Goatry model (4+1)	No	6	0	0	Response not received from villagers
19	Organize Veterinary Camps	No	26	0	0	Response not received from villagers
20	Establish Travis in the village	No	5	0	0	Response not received from villagers
21	Bio Energy Model	No	9	0	0	Response not received from villagers
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	161	11	6.8	Not many Groups Fulfilled the prerequisite for availing Revolving Fund
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	27	3	11.2	Not many Individuals Fulfilled the prerequisite for availing Revolving Fund
3	Grant in Aids to Federation SHG for their livelihood plan.	No	14	0	0	No Enterprising SHG or Federation formed

The conclusions derived from the above data are as follows-

A. Natural Resource Management (NRM)

1. The target of Field bunding, Farm pond, Peripheral bund, Minor masonry structure and Khadin was 86.5, 76.92, 80, 26.3, and 13.4 percent achieved, respectively.
2. No work was done to achieve the target of Contour trench, Agro-forestry, Wasteland reclamation, Horticulture orchard, Anicut, LSCD, Road side plantation, Botanical park and RWH structure.
3. Excess work is done for Pasture development (176%), Nadi construction (185.7%) and SGPT (100%) against the target as per demand of the villagers of the project area. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

1. Out of 21 production activities only target of 3 activities namely, Demonstration of vermi compost (83.3%), Varietal crop demonstration (189.2%) and Distribution of manger for livestock (116.2%) were achieved. The main reason for not achieving the target were lack of staff, non-availability of fund, lack of liaison of concert department i.e. Agriculture, Animal husbandry, Horticulture and response not received from the villagers.

C. Livelihood System

1. The revolving fund granted for livelihood action plan to 7% of SHG against the target. 11% fund was granted to individual enterprises SHG against the target. No fund was granted to federation of SHG since no federation group was formed against the target.
2. The expert also meets the members of SHG groups. The 55.4% of SHG were working smoothly and repaying the loan in time, 28.6% of SHG were not working properly and not repaying the loan amount. The 16% of SHG were waiting for wave the loan amount by the government

Table 2: Indicator wise impact of sample IWMP-6 Block-KEKRI in District Ajmer (Rajasthan)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	30-35	25-30	24.5-30	0.50	Water table not increased up to the expected post project status because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	Nil	4	Nil	-4	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	1233	1850	1305	-545	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Waste land development	ha	180	125	72	-53	Target were not achieved due to lack of fund and staff
5	Area under agriculture crop	ha	2420	2723	2670	-53	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
6	Crop productivity						
7	Yield of Bajra	Kg/ha	785	950	1140	90	Productivity not achieved due to withdrawal of monsoon at the time grain formation in the crop
	Yield of Cotton	Kg/ha	430	650	590	-60	Target were not achieved due to non-adoption of control measure of insects
	Yield of Maize	Kg/ha	805	1000	1085	85	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop technology and judicious use of limited
	Yield of Wheat	Kg/ha	2400	2900	2982	82	
	Yield of Gram	Kg/ha	690	850	910	60	
Yield of Mustard	Kg/ha	875	1165	1205	40		

							irrigation water in Rabi crop
8	Area under horticulture	ha	20	45	12	-33	Farmers are not interested in horticulture plantation because all orchard was facing the problem of irrigation and bearing tree are dried
9	SHG federations formed	No.	20	31	34	3	More SHG were formed on the demand of villagers
10	Income	Rs.	30500	50000	60000	10000	Income of Household increase due to increase in crop yield and price of crop produce
11	Migration	No.	298	136	120	16	The outcome of cropping intensity not achieved due to lack of irrigation water and non-adoption of dry land technology
12	Cropping intensity	%	106	131	120	-11	The outcome of cropping intensity not achieved due to lack of irrigation water and non-adoption of dry land technology

Impact Evaluation Summary of IWMP-06 Block – Kekri, Ajmer Dist. (Rajasthan)

1. The anticipated increase in ground water table has been achieved i.e. with +0.50m above the target. (Refer item 1, table 2)
2. The progress has remained short due to Water Harvesting Structure (34 numbers) not constructed (Refer item 2,9 &10 under NRM activity table 1). But the marginal increase in GW table is registered due to implementation of other structures like Nadi & MPT (Mini Percolation Tank) though not listed under the programme but taken up as per demand of Gram Sabha (Refer items 8 & 13 table 1 under NRM activity).
3. The “Area Under Agriculture Crop” did not increase as expected (2670 ha against target of 2723 ha) and remained short by 53 ha i.e. 2 % (Refer Item 5 table 2) due to 42.4% less progress on conversion of waste land into agricultural land (Refer Item 4 table 2).
4. The increase in irrigated area after implementation of the watershed structure remained 29.45% short than the target (achieved 1305 ha against target of 1850 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 11% (achieved 120% against target of 131%) – Refer item 12, table 2.
5. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of Bajra, Maize Wheat, Mustard & Gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops. The crop of cotton however failed due to lack of control measures of insects.
6. Only 26.7% expected outcome of area under horticulture crops was achieved because of lack of farmer’s interest and irrigation water for horticulture crop. During the field visit, team observed that the horticulture plant got dried up due to non-availability of irrigation water in the sample project area.
7. 109.7% expected outcome of SHG has been achieved due to interest of villagers to implement the livelihood action plan to increase their income.
8. The household income increased over the expected post-project income of Rs 50000/Annum by 20 % i.e. Rs 60000/- mainly due to increase in crop productivity, price of agriculture produces and adoption of livelihood programme in the project area.
9. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and Chief Minister Jal Swavalamban Yojana.



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Accuracy: 6.0m
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Pitch: -11.9° (0.9°)
Time: 31-03-2019 15:05
Note: alloli

Powered by AngleCam

WAPCOS EXPERT DISCUSSING WITH FARMERS IN VILLAGE ALLOLI IWMP-VI AJMER



Latitude: 25.790056
Longitude: 75.165863
Elevation: 357.48m
Accuracy: 12.0m
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Pitch: -23.1°
Time: 31-03-2019 12:06
Note: ps kekri

Powered by AngleCam

WAPCOS EXPERT DISCUSSING WITH SHG IN KEKRI IWMP-VI AJMER

Name of Project- IWMP-I
Block- Ladpura
District- Kota
State Rajasthan

Table 1: Activity wise Physical Target and Achievements of sample IWMP- I Block- Ladpura District Kota (Rajasthan)

Sanctioned Amount- 577.44 Lakh

Expenditure- 395.10Lakh.

Expenditure %- 68.42

Total project area- 5100ha.

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Field bund	Mtr.	60318	123858	205	Due to more demand by farmers
2	Masonry structure	No.	102	85	83.30	Lack of fund
3	Farm pond	No.	29	0	0	Farmers not interested
4	Dugout pond	No.	2	0	0	Farmers not interested
5	Pasture Development	Ha.	125	15	12.00	Due to heavy encroachment and hindrance
6	Loose stone check dam	No.	10	0	0	Field condition not allowed
7	Diversion drains to WHS	Km	2	0	0	Farmers not interested
8	Medium Masonry structure	No.	3	0	0	Farmers not interested
9	Loose stone check dam treatment	No.	25	0	0	Field condition not allowed
10	Gabion structures	No.	10	0	0	Field condition not allowed
11	Repair/Deepening of existing water body	No.	9	10	111	As per demand of farmers.
12	Newly construction (MPT)	No.	2	2	100	Target achieved
13	Repair of old WHS (Masonry Structures)	No.	2	2	100	Target achieved
14	Ground water Recharge structures/Masonry structures	No.	6	6	100	Target achieved
B	Production Activities					
1	Horticulture Plantation	No.	15000	600	40.00	Lack of irrigation water in summer.
2	Sprinklers and drip irrigation	No.	97	0	0	Farmers not turned up during execution
3	Vegetables (Seed distribution)	No.	850	0	0	Farmers not turned up during execution
4	Medicinal Plants	No.	50	0	0	Farmers not interested

5	Vermi compost	No.	100	1	1.00	Farmers not interested
6	Crop Demonstration	No.	400	555	138.7	More demand by the farmers
7	Storage seed bin	No.	300	0	0	Villagers not showed interest.
8	Animal Health Camp	No.	Nil	22	100	Camp organized with the coordination of Department of Animal Husbandry on the demand of villagers
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No.	40	22	55.00	Not many Groups fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No.	5	0	0	No one could fulfill the pre-requisite for availing Revolving Fund.
3	Revolving fund to SHG federation for livelihood action plan	No.	30	4	26.7	Not many Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A Natural Resource Management (NRM)

1. The target of Masonry structure, pasture development, repairing of old WHS, ground water recharge structure (masonry) and Construction of newly MPT were achieved to the extent of 83.3,12,100,100 and 100% respectively.
2. Work of construction of farm pond, Dugout pond, LSCD, Diversion drains, MMS and Gabion structure has remained unattended.
3. Excess work is done for Field bund (2 times) and Deepening of existing water body (1.11 times) were made on the demand of villagers. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B Production Activities

1. Out of 8 production activities only target of 4 activities namely, Horticulture plantation, Vermicomposting, crops demonstration and organization of animal health camp 40, 1.00, 138.7 and 100 percent were achieved respectively. The main reason for not achieving the target were lack of staff, villagers not showed interest in programme, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Department of horticulture, Department of agriculture etc.

C Livelihood system

1. The revolving fund granted for livelihood action plan to 55% of SHG and 26.7% for SHG federation against the target. No fund was granted to individual SHG since, no such group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 65% of SHG has been working properly and repaying the loan in time. Only 35% of SHG were not working smoothly and not repaying the loan in time. SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-1 Block- Ladpura in District Kota Rajasthan

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	15-25	12-20	11-20	1.00	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	5	15	12	-3	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	972	2700	1077	-1632	Expected post project outcome not achieved because expected target were taken three time more as pre post stage.
4	Area under agriculture crop	ha	3221	4200	3326.4	-873.6	Outcome of the area in the agriculture crop not achieved due to lack of sowing in current fallow land and waste land area development
5	Crop productivity	ha					
6	Soybean	Kg/ha	910	1475	1084	-391	Outcome not achieved due to early withdraw of monsoon (at grain formation stage).however, yield is increase as compare to pre project stage

	Mustard	Kg/ha	900	1200	1467	267	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Wheat	Kg/ha	2400	3200	3640	440	
	Gram	Kg/ha	700	1100	1185	85	
7	Area under horticulture	ha	0.6	60	20	-40	Farmers are not interested due to lack of irrigation water in summer.
8	SHG (Self Help Group) formed	No.	39	60	46	-14	Some groups not fulfill the pre-requisite for SHG formation
9	Income	Rs.	138300	180000	200000	200000	Income of Household increase due to increase in crop yield and price of crop produce and wage rate.
10	Migration	No.	177	0	70	-70	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place, the same is due to available work under MNAREGA and Chief Minister Jal Swavalamban Yojana
11	Cropping intensity	%	130	160	150	-10	The outcome of cropping intensity not achieved due to lack of storage of rain water
12	Waste land development	ha	572	408	302	-106	Target not achieved due to lack of funds

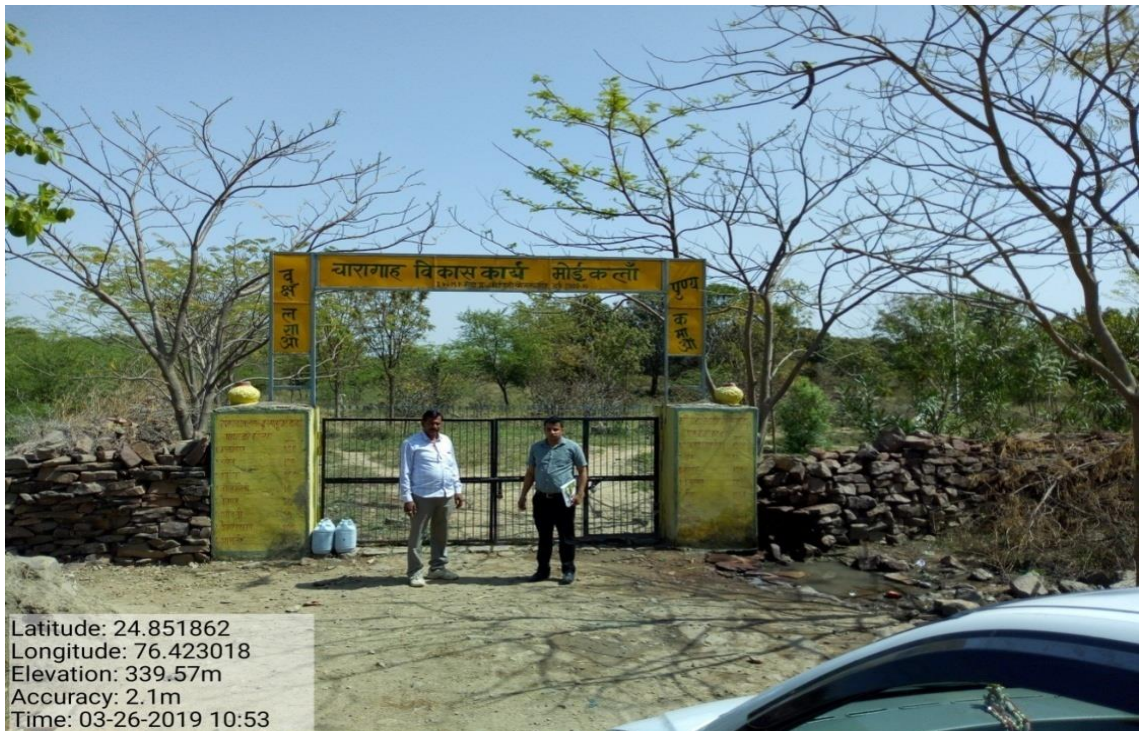
Impact Evaluation Summary of IWMP-I Block –Block- Ladpura in District Kota Rajasthan

1. The anticipate increase in ground water table has been achieved i.e. + 1m against the above target. (Refer item 1, table 2)
2. The progress has remained short due to Water Harvesting Structure (38 numbers) not constructed (Refer item 6,7&8 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like PMT, repairing of ground water body &WHS etc. (Refer items 11, 12, 13&14of NRM activity table 1).
3. The “Area Under Agriculture Crop” did not increase as expected (4200 ha against target of 3326.4 ha) and remained short by873.6 ha i.e.20.8% (Refer Item 4 table 2) due to 26% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
4. The increase in irrigated area after implementation of the watershed structure remained 60% short than the target (achieved 1077 ha against target of2700 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10% (achieved 150% against target of 160%) – Refer item 11, table 2.
5. The progress of both these items remained short due lack of harvested rain water quantity.
6. However, the productivity of mustard, Wheat & Gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops. The crop of soybean however failed due to early withdraw of monsoon (at grain formation stage).
7. Only 33% expected outcome of area under horticulture crops was achieved because of lack of farmers interest and irrigation water for horticulture crop. During the field visit, team observed that the horticulture plant got dried up due to non-availability of irrigation water in the sample project area in summer season.
8. 76.7 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
9. The household income increased over the expected post-project income of Rs180000/Annum by 11 % i.e. Rs 20000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
10. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and Chief Minister JalSwavalamban Yojana.



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Accuracy: 4.7m
Time: 03-25-2019 11:03

WAPCOS TEAM DISCUSSING WITH THE S.E AND TEAM AT KOTA



Latitude: 24.851862
Longitude: 76.423018
Elevation: 339.57m
Accuracy: 2.1m
Time: 03-26-2019 10:53

WAPCOS OFFICIALS VISIT PASTURE DEVELOPMENT IN VILLAGE MOIKALAN IWMP-I KOTA

Name of Project-	IWMP-II
Block-	Sangod
District-	Kota
State	Rajasthan

Table 1: Activity wise Physical Target and Achievements of sample IWMP-II Block- Sangod District Kota (Rajasthan)

Sanctioned Amount- 554.76 lakh Expenditure- 386.51 Lakh
 Expenditure %- 69.67 Total project area- 4632 ha
 Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Talia with waste weir	No.	14	0	0	Due to lack of fund
2	Earthen check dam	No.	138	10	7.25	Due to lack of fund and less interest of Gram Sabha
3	Farm pond	No.	12	4	33.30	Farmers not turned up during execution
4	Ground water recharge structure	No.	52	28	53.84	Few farmers not turned up during execution
5	Gabion	No.	10	0	0	Farmers are not interested
6	Field Bund	Mtr	46230	134100	290	On the demand of farmers
7	Renovation of Percolation Tank/Check Dam	No.	Nil	6	100	On the demand of Gram Sabha
8	Water Harvesting Structure Earthen check dam)	No.	15	2	13.3	Due to lack of fund
9	Nalla bunding	Mtr	15500	400	2.6	Farmers not turned up during execution
10	Retaining well	No.	5	0	0	Farmers not turned up during execution
B	Production Activities					
1	Horticulture plantation	ha	20	2	10	Farmers are not interested, due to lack of irrigation facility
2	Vermi compost	No.	101	10	9.90	Farmers not turned up during execution
3	Crop Demonstration	No.	149	200	134	On the demand of farmers
4	Kitchen Garden (Kit Demo Unit)	No.	375	65	17.33	Villagers not showed interest.
5	Veterinary Camp	No.	110	25	22.72	Livestock owner not show more interest in this activity
6	Manger for Cattle	No.	Nil	29	100	On the demand of farmers
7	Storage unit of Garlic/Onion	No.	6	4	66.67	Due to lack of fund

8	Sprinkler	No.	Nil	4	100	On the demand of farmers
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No,	25	13	52	Not many Groups fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No.	9	4	44.2	Not many Groups fulfilled the pre-requisite for availing Revolving Fund.
3	Revolving fund to SHG federation for livelihood action plan	No.	3	0	0	No one could fulfill the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A Natural Resource Management (NRM)

1. The target of Earthen check dam, farm pond, WHS, Nalla bund and repairing of ground water recharge structure were achieved to the extent of 7.25, 33.30, 13.3, 2.60 and 53.84% respectively.
2. Work of construction of Gabion, Talia and Retaining well has remained unattended.
3. Excess work is done for Field bund (3 times) and percolation tank (100 times) were made on the demand of villagers. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B Production Activities

1. Out of 8 production activities only target of 6 activities namely, Horticulture plantation, Vermi composting, crops demonstration and organization of animal health camp, Kitchen Garden and Storage unit of Garlic/Onion 10, 9.90, 134, 22.72, 17.33 and 66.67 percent were achieved respectively. The main reason for not achieved the target were lack of staff, villages not showed interest in programme, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Department of horticulture, Department of agriculture etc. The additional target of sprinkler and distribution of Manger for cattle were sent percent achieved on the demand of villagers.

C Livelihood system

1. The revolving fund granted for livelihood action plan to 52% of SHG and 44.2% for Individual SHG against the target. No fund was granted to SHG federation since, no such group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 60% of SHG has been working properly and repaying the loan in time. Only 40% of SHG were not working smoothly and not repaying the loan in time. SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-II Block- Sangod in District Kota Rajasthan

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	15-20	13-18	12.5-20	0.50	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	0	10	6	-4	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	1018	1125	1098	-27	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	3916	4050	3987.5	-62.5	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	ha					
6	Maize	Kg/ha	1312	2000	1805	-195	Outcome not achieved because expected yield target were 44-55% higher above pre project stage however, increment in yield has taken place
	Soybean	Kg/ha	1250	1800	1270	-530	
	Mustard	Kg/ha	1562	1850	1810	-40	
	Coriander	Kg/ha	810	1200	1140	-60	
	Gram	Kg/ha	875	1210	1225	15	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop technology and judicious use of limited irrigation water in Rabi crop
	wheat	Kg/ha	3062	3500	3700	200	
7	Area under horticulture	ha	24	65	35	-30	Farmers are not interested due to lack of water
8	SHG (Self Help Group) formed	No.	15	37	28	-9	Some groups not fulfill the pre-requisite for SHG formation

9	Income	Rs.	28500	35000	50500	15500	Income of Household increase due to increase in crop yield and price of crop produce
10	Migration	No.	240	0	76	-76	Maximum outcome of Reduction in migration not achieved as per target. However, reduction has taken place, the same is due to available work under MNAREGA and Chief Minister JalSwavalambanYojana
11	Cropping intensity	%	125	170	155	-15	The outcome of cropping intensity not achieved due to lack of storage of rain water
12	Waste land development	ha	800	707	644.5	62.5	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-II Block -Sangod in District Kota Rajasthan1

1. The anticipate increase in ground water table has been achieved i.e. + 0.50 m against the above target. (Refer item 1, table 2)
2. The progress has remained short due to Water Harvesting Structure (38 numbers) not constructed (Refer item 6,7&8 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like PMT, repairing of ground water body & WHS etc. (Refer items 11, 12, 13& 14of NRM activity table 1).
3. The “Area Under Agriculture Crop” did not increase as expected (4200 ha against target of 3326.4 ha) and remained short by 873.6 ha i.e.20.8% (Refer Item 4 table 2) due to 26% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).
4. The increase in irrigated area after implementation of the watershed structure remained 60% short than the target (achieved 1077 ha against target of2700 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10% (achieved 150% against target of 160%) – Refer item 11, table 2.
5. The progress of both these items remained short due lack of harvested rain water quantity.
6. However, the productivity of mustard, Wheat & Gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops. The crop of soybean however failed due to early withdraw of monsoon (at grain formation stage).
7. Only 33% expected outcome of area under horticulture crops was achieved because of lack of farmers interest and irrigation water for horticulture crop. During the field visit, team observed that the horticulture plant got dried up due to non-availability of irrigation water in the sample project area in summer season.
8. 76.7 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
9. The household income increased over the expected post-project income of Rs 180000/Annum by 11 % i.e. Rs 20000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
10. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and Chief Minister JalSwavalambanYojana.



WAPCOS TEAM INTERACTING WITH SHG IN IWMP-II KOTA



WAPCOS OFFICER INTERACTING WITH THE VILLAGERS ABOUT THE WATERSHED IMPACT

Name of Project- IWMP-III
Block- Ladpura
District- Kota
State Rajasthan

Table 1: Activity wise Physical Target and Achievements of sample IWMP-III Block- Ladpura District Kota (Rajasthan)

Sanctioned Amount- 720Lakh Expenditure- 388.74Lakh
 Expenditure %- 53.99 Total project area- 7000 ha
 Year of Sanction- 2010-11

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Field bund	Mtr	16324	11250 0	689.2	As per requirement of farmers
2	Masonry structure	No.	45	4	8.89	Farmers not turned up during execution
3	Farm pond	No.	33	6	18.20	Farmers not turned up during execution
4	Dugout pond	No.	8	0	0	Could not be executed due to unwillingness of farmers.
5	Pasture Development	Ha.	260	60	23.10	Due to heavy encroachment and hindrance
6	Loose stone check dam	No.	64	8	12.5	Due to lack of fund
7	Medium Masonry structure	No.	7	0	0	Farmers not interested
8	Gabion structures	No.	76	0	0	Farmers not turned up during execution
9	Repair/Deepening of existing water body	No.	15	3	20	Due to lack of fund
10	Repairing/ rejuvenation of ground water Structures	No.	26	5	19.20	Due to lack of fund
B	Production Activities					
1	Horticulture Plantation	ha.	72	5	6.94	Farmers not turned up during execution
2	Sprinklers and drip irrigation	No.	135	0	0	Due to lack of fund
3	Vegetables (Seed distribution)	No.	1539	50	3.24	Farmers not turned up during execution
4	Medicinal Plants	No.	42	0	0	Farmers are not interested due to lack of irrigation facility
5	Vermi compost	No.	209	10	4.78	Farmers not interested
6	Crop Demonstration	No.	870	517	59.40	Few Farmers not turned up during execution
7	Storage seed bin	No.	297	20	6.73	Villagers not showed

						interest.
8	Nursery	No.	1	0	0	Farmers not interested
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No.	55	15	27.30	Not many Groups fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No.	29	13	65	Not many Groups fulfilled the pre-requisite for availing Revolving Fund.
3	Revolving fund to SHG federation for livelihood action plan	No.	25	0	0	No one could fulfill the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A Natural Resource Management (NRM)

1. The target of Masonry structure, farm pond, WHS(LSCD), repairing of ground water recharge structure, pasture development and rejuvenation of ground water Structures were achieved to the extent of 8.89, 18.20, 12.50, 20, 23.10, and 19.50% respectively.
2. Work of construction of dugout pond, Gabion structure, and Medium masonry structure has remained unattended.
3. Excess work is done for Field bund (7 times) was made on the demand of villagers. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B Production Activities

1. Out of 8 production activities only target of 5 activities namely, Horticulture plantation, vegetable seed distribution, Vermi composting, crops demonstration and distribution of seed Storage bin 6.94, 3.24, 4.78, 59.40 and 6.72 percent were achieved respectively. The main reason for not achieved the target were lack of staff, villages not showed interest in programme, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Department of horticulture, Department of agriculture etc. The target of sprinkler, Meditational plant and Nursery has remained unattended.

D. Livelihood system

1. The revolving fund granted for livelihood action plan to 27.30% of SHG and 65.0% for Individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 67% of SHG has been working properly and repaying the loan in time. Only 33% of SHG were not working smoothly and not repaying the loan in time. SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-III Block- Ladpura in District Kota Rajasthan

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	metres	60-100	45-85	43.5-80	1.5	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	10	26	5	-21	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	3159	3440	3304	-136	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	2591.5	5000	2791	-2209	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development and expected outcome was taken higher
5	Crop productivity	ha					
6	Soybean	Kg/ha	800	1200	1210	10	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Wheat	Kg/ha	2200	4000	4035	35	
	Mustard	Kg/ha	1000	2000	1415	-585	
	Gram	Kg/ha	800	1500	1130	-370	Outcome not achieved because expected yield target was 87.5-100% higher above pre project stage however, increment in yield has taken place
7	Area under horticulture	ha	0.8	80	5.5	-74.50	Farmers are not interested due to lack of water in summer
8	SHG (Self Help Group) formed	No.	35	55	28	-27	Some groups not fulfill the pre-requisite for SHG formation

9	Income	Rs.	140000	20000 0	205000	5000	Income of Household increase due to increase in crop yield, price of crop produces and wage rate
10	Migration	No.	598	300	315	-15	Maximum outcome of Reduction in migration not achieved as per target. However, reduction has taken place, the same is due to available work under MNAREGA and Chief Minister JalSwavalambanYojana
11	Cropping intensity	%	165	180	170	-10	The outcome of cropping intensity not achieved due to lack of storage of rain water
12	Waste land development	ha	468	369	270.40	98.6	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-III Block - Ladpura in District Kota Rajasthan1

1. The anticipate increase in ground water table has been achieved i.e. + 1.50 m against the above target. (Refer item 1, table 2)
2. The progress has remained short due to Water Harvesting Structure (15 numbers) not constructed (Refer item 4&7 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like LSCD, farm pond, repairing of ground water body & masonry structure. (Refer items 6, 2, 3&10 of NRM activity table 1).
3. The “Area Under Agriculture Crop” did not increase as expected (5000 ha against target of 2791 ha) and remained short by 2209 ha i.e.44.2% (Refer Item 4 table 2) due to 25% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).The expected outcome was taken higher side.
4. The increase in irrigated area after implementation of the watershed structure remained 4% short than the target (achieved 3304 ha against target of3440 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10% (achieved 170% against target of 180%) – Refer item 11, table 2.
5. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of soybean& Wheat crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops. The crop of gram & mustard however, failed to achieve target because expected yield target was 87.5-100% higher above pre project stage however, increment in yield has taken place.
6. Only 6.87% expected outcome of area under horticulture crops was achieved because of lack of farmers interest and irrigation water for horticulture crop. During the field visit, team observed that the horticulture plant got dried up due to non-availability of irrigation water in the sample project area in summer season.
7. 51 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
8. The household income increased over the expected post-project income of Rs200000/Annum by 2.50 % i.e. Rs5000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
9. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and Chief Minister JalSwavalambanYojana.



WAPCOS EXPERT INTERACTING WITH THE BENEFACRIEY OF LIVELIHOOD ACTIVITY



WAPCOS TEAM VISIT CHECK DAM IN IWMP-III SANGOD KOTA

Name of Project- IWMP-IV
Block- Ladpura
District- Kota
State Rajasthan

Table 1: Activity wise Physical Target and Achievements of sample IWMP-IV Block- Sangod District Kota (Rajasthan)

Sanctioned Amount- 710.17Lakh

Expenditure- 518.4Lakh

Expenditure %- 73.00

Total project area- 5060 ha

Year of Sanction- 2011-12

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
A	Natural Resource Management					
1	Field bund	Mtr	31300	154600	493.9	On the demand of farmers
2	Waste weir	No.	32	10	31.25	Due to lack of fund
3	Farm pond	No.	5	5	100	Target achieved
4	Dugout-pond	No.	4	0	0	Farmers are not interested
5	Pasture Development	Ha.	140	45	32.14	Only 45 ha land provided by the Gram Sabha for pasture development
6	Repair of old Earthen Dam	No.	4	9	69.20	As per demand of Gram Sabha
7	New Earthen Check Dam	No.	11	11	100	Target achieved
8	Nalla Bund	No.	Nil	8	100	On demand of Gram Sabha
9	Checks & Plugs	No.	Nil	8	100	On demand of farmers
B	Production Activities					
1	Horticulture Plantation	No.	14350	2400	16.72	Farmers are not interested due to lack of irrigation water
2	Drip irrigation	Ha.	53	0	0	Farmers not turned up during execution
3	Vermi compost	No.	136	12	8.82	Farmers not turned up during execution
4	Crop Demonstration	No.	431	512	118.80	On the demand of farmers
5	Kitchen Garden (Kit Demo Unit)	No.	576	200	34.72	Other villagers were not interested in this activity.
6	Veterinary Camp	No.	70	20	28.57	Organized with the coordination of Department of Animal husbandry
7	Manger for Cattle	No.	522	200	38.31	Farmers not turned up during execution
8	Chaff cutter distribution	No.	111	0	0	Due to lack of fund

9	Cattle breed improvement	No.	16	0	0	livestock owners not interested in this activity
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No.	18	12	66.70	Not many Groups fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No.	12	7	58.33	Not many Groups fulfilled the pre-requisite for availing Revolving Fund.
3	Revolving fund to SHG federation for livelihood action plan	No.	5	0	0	No one could fulfill the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Waste weir, farm pond, repairing of old earthen dam, construction of new earthen dam, and pasture development were achieved to the extent of 31.25,100, 69.20,100 and 32.14% respectively.
2. Work of construction of dugout pond, has remained unattended.
3. Excess work is done for Field bund (5 times), Nalla bund (100) and Check & plugs (100) were made on the demand of villagers. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

1. Out of 9 production activities only target of 6 activities namely, Horticulture plantation, Vermi composting, crops demonstration, kitchen garden kit, Veterinary camp and distribution of Manger 16.72, 8.82, 118.8, 34.72, 28.57 and 38.31 percent were achieved respectively. The main reason for not achieved the target were lack of staff, villages not showed interest in programme, villagers not turned up during execution. Lack of fund and lack of convergence of concern department i.e. Department of horticulture, Department of agriculture etc. The target of chaff cutter distribution, cattle breed improvement and Drip irrigation has remained unattended.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 66.70% of SHG and 58.33% for Individual SHG against the target. No fund was granted to SHG federation since; no such group was formed in the project against the target.
2. Expert team met the members of SHG groups during the visit. The 61% of SHG has been working properly and repaying the loan in time. Only 39% of SHG were not working smoothly and not repaying the loan in time. SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-IV Block- Sangod in District Kota Rajasthan

S.N O	Item	Unit	Pre- project Status	Expecte d Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	15-20	15-18	14-20	1	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area
2	Ground water structures repaired/rejuvenated	No.	0	13	9	-4	Target were not achieved due to lack of fund and technical staff
3	Change in irrigated area	ha	1357	2000	1480	-520	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	3367	5000	3592	-1408	Outcome of the area in the agriculture crop not achieved due to lack of waste land area development
5	Crop productivity	ha					
6	Soybean	Kg/ha	1250	1600	1625	25	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Gram	Kg/ha	625	850	876	26	
	Mustard	Kg/ha	930	1130	1250	120	
	Coriander	Kg/ha	800	950	970	20	
	Wheat	Kg/ha	3750	4300	4045	-255	Outcome not achieved because expected yield target were higher above the district average. however, increment in yield has taken place
7	Area under horticulture	ha	14.5	38.5	6.20	-32.3	Farmers are not interested due to lack of water
8	SHG (Self Help	No.	48	35	19	-16	Some groups not fulfill

	Group) formed						the pre-requisite for SHG formation
9	Income	Rs.	40000	55000	58500	3500	Income of Household increase due to increase in crop yield and price of crop produce
10	Migration	No.	1046	0	200	-200	Outcome of Reduction in migration not achieved as per target. However, reduction has taken place, the same is due to available work under MNAREGA and Chief Minister JalSwavalambanYojana
11	Cropping intensity	%	120	160	140	-20	The outcome of cropping intensity not achieved due to lack of storage of rain water
12	Waste land development	ha	198	123	98	25.6	Target not achieved due to lack of funds

Impact Evaluation Summary of IWMP-IV Block - Sangod in District Kota Rajasthan1

1. The anticipate increase in ground water table has been achieved i.e. + 1 m against the above target. (Refer item 1, table 2).The progress has remained short due to Water Harvesting Structure (26 numbers) not constructed (Refer item 2&4 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like farm pond, Earthen check dam, check & plugs (Refer items 2, 7&9 of NRM activity table 1).
2. The “Area Under Agriculture Crop” did not increase as expected (5000 ha against target of 3592 ha) and remained short by 1408 ha i.e.28.16% (Refer Item 4 table 2) due to 21% less progress on conversion of waste land into agricultural land (Refer Item12 table 2).The expected outcome was taken higher side.
3. The increase in irrigated area after implementation of the watershed structure remained 26% short than the target (achieved1480 ha against target of 2000 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 20% (achieved 140% against target of 160%) – Refer item 11, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity.
5. However, the productivity of soybean, coriander, mustard & gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops. The wheat crop failed to achieve target because expected yield target was higher above the district average yield however, increment in yield has taken place.
6. Only 6.87% expected outcome of area under horticulture crops was achieved because of lack of farmers interest and irrigation water for horticulture crop. During the field visit, team observed that the horticulture plant got dried up due to non-availability of irrigation water in the sample project area in summer season.
7. 54.30 % expected outcome of SHG has been achieved to implement the livelihood action plan and increase their income.
8. The household income increased over the expected post-project income of Rs55000/Annum by 6.40 % i.e. Rs3500/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
9. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and Chief Minister JalSwavalamban Yojana.



WAPCOS TEAM INTERACTING WITH BENEFICIARIES OF LIVELIHOOD ACTIVITIES IN IWMP-IV SANGOD



WAPCOS OFFICER VISITED EPA WORK IN IWMP-IV SANGOD KOTA

IMPACT EVALUATION OF IWMP SAMPLE PROJECTS OF VELLORE, MADURAI, & COIMBATORE DISTRICTS –TAMIL NADU

The Impact Evaluation of IWMP Projects has been carried out on the basis of following criteria:

1. Comparing the activity wise Physical Achievement vis-à-vis Target as per DPR (Refer Table1).
2. Comparing the Indicator- wise impact with the expected outcome after completion of the project as per DPR (Refer Table2).
3. .Impact Evaluation Summary.

The project wise details are enclosed-

Name of Project - IWMP-II
Block - Kaveripakkam
District - Vellore
State - Tamil Nadu

**Table 1: Activity wise Physical Target and Achievements of IWMP- II, Kaveripakkam Block
Vellore District (Tamil Nadu)**

Sanctioned Amount-600.72 Lakhs

Expenditure- 573.73akhs

Expenditure %- 86.70%

Total project Area- 5006.1/7 ha

Year of Sanction-2009-2010

S.No.	Activity	Unit	Target as per DPR	Achiev ement	% achieve ment	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Percolation Tank	Nos.	22	12	54.50	Due to non availability of lands because some lands are used by local people for cultivation.
2	Cattle Pond	Nos.	0	37	100	On the demand of villagers
3	Farm Ponds	Nos.	248	76	30	Works is done by Irrigation and Panachayathi raj department.
4	Construction of Check dam	Nos.	118	92	80	Works is done with coordination of Irrigation and Panachayathi raj department.
5	Formation of Village Pond	Nos.	0	89	100	On the demand of villagers
6	Pond Renovation	Nos.	76	54	71	Farmers are not interested as un availability of local stones
7	Sunken Pond	Nos.	2	0	0	Farmers prefer farm ponds and dugout ponds in place of sunken pits
8	Earthen Bund	Ha.	646.10	210	32.50	Lack of fund
B	Production Activities					
1	Vermin compost	No.	45	24	53.30	Un availability and no supply of earthworms from local markets and suppliers
2	Social Forestry	Ha.	51	10	19.61	Lack of fund
3	New fodder varieties	Ha.	10	10	100	Target achieved
4	Animal health camp	Ha.	30	30	100	Major initiation with convergence department Animal Husbandry

						dept.
5	Crop demonstration	No.	50	50	100	The program was taken up with coordination of Agriculture department.
6	Sprayers(power)	No.	199	199	100	Target achieved
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No.	61	46	75.40	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No.	59	49	83.10	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Cattle Pond and Village Pond structure were achieved as per expected outcome.
2. The target of Percolation Tank, Farm Ponds, Construction of Check dam, Pond Renovation Percolation Tanks and Earthen Bund were achieved to the extent of 54.50, 30, 80,715and 32.50% respectively.
3. The work of sunken pits Structure has remained unattended
4. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B Production Activities

1. Out of 6 production activities target of all 4 activities namely, New fodder varieties, animal health camp, Crop demonstration and Sprayers (power) were achieved as per out come. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.
2. The target of Sprayers distribution and Social Forestry was achieved to the extent of 53.30.and 19.61%only.

C Livelihood system

1. The revolving fund granted for livelihood action plan to75.40% of SHG and 83.10 % fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were electrician, Mobil repairing, poultry rearing, motorcycle repairing work, agro-service Centre,, tailoring, tea stall etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 65% of SHG has been working properly and repaying the loan in time.40% of SHG were not working smoothly and not repaying the loan in time. Out of them 15 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP- II, Kaveripakkam Block- in Vellore District
(Tamil Nadu)**

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
13.	Status of water table (Depth to Ground water level)	meters	12	10	10.80	-0.80	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
14.	Ground water structures repaired/rejuvenated	No.	0	76	54	-22	Lack of fund.
15.	Change in irrigated area	ha	800	1200	925	-275	Expected post project outcome not achieved due to the lack of harvested rain water quantity
16.	Area under agriculture crop	ha	1800	2300	2070	-230	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
17.	Crop productivity						
	Paddy	Kg/ha	2400	2600	2710	110	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Sugarcane	Kg/ha	8000	9000	9500	500	
	Ragi	Kg/ha	1310	1500	1572	72	
	Groundnut	Kg/ha	1200	1400	1485	85	
18.	Area under horticulture	ha	80	150	123	-27	Farmers were interested due to higher income.
19.	SHG formed	No.	0	140	120	-20	Some groups not

							fulfill the pre-requisite for SHG formation
20.	Income	Rs.	35000	72000	76200	4200	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
21.	Migration	No.	152	0	45	-45	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
22.	Cropping intensity	%	110	160	146	-14	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
23.	Waste land development	Ha.	410	250	342	-92	Target was not achieved due to lack of fund.
24.	Area under vegetation	Ha.	50	253	142	-111	Only 142.00 ha. land was covered under vegetation

Impact Evaluation Summary of IWMP- II, Kaveripakkam Block- in Vellore District (Tamil Nadu)

1. The anticipate increase in ground water table has been not achieved i.e. -0.80 m against above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure partially/not constructed (Refer item 1, 3, 6, 7,&8 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like; Cattle Pond and Village Pond structure (Refer items 2&5 of NRM activity table1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 2070ha against target of 2300 ha) and remained short by 230 ha i.e.10% (Refer Item 4 table 2) due to 36.80% less progress on conversion of waste land into agricultural land (Refer Item11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 22.91% short than the target (achieved 925 ha against target of 1200 ha) – Refer item 3, table 2). Similarly cropping intensity remained short by 14% (achieved 146% against target of 160%) – Refer item 10, table 2.The progress of both these items remained short due lack of harvested rain water quantity.However, the productivity of paddy, sugarcane ground nut and ragi crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 82% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 85.70% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs72000/Annum by 5.83 % i.e. Rs4200/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 66.40, 18.60, 12.90and 2.10 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 56.12% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Discuss with Officials and Visited the Water Harvesting Structure of IWMP- II, Kaveripakkam

Name of Project - **IWMP-III**
Block - **Kaveripakkam**
District - **Vellore**
State - **Tamil Nadu**

**Table1: Activity wise Physical Target and Achievements of IWMP- III, Kaveripakkam Block,
Vellore District (Tamil Nadu)**

Sanctioned Amount- 420.00 Lakhs

Expenditure- 362.69Lakhs

Expenditure %- 86.35%

Total project Area- 3500.00ha

Year of Sanction-2010-2011

S.No	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Percolation Tank	Nos.	1	1	100	Target achieved
2	Cattle Pond	Nos.	6	6	100	Water Harvesting Structure (Rejuvenation of Well)
3	Farm Ponds	Nos.	13	8	61.50	Works is done by Irrigation and Panachayatiraj department.
4	Construction of Check dam	Nos.	77	71	92.20	Lack of fund
5	Formation of Village Pond	Nos.	82	61	74.40	Lack of fund
6	Sunken Pond	Nos.	24	17	70.80	Farmers prefer farm ponds and dugout ponds in place of sunken pits
7	Land Shaping	Ha.	210	136.40	64.95	Lack of fund
8	Water Harvesting Structure (Rejuvenation of Well)	Nos.	18	18	100	Water Harvesting Structure (Rejuvenation of Well)
9	Earthen Bund	Ha.	251	223.40	89.0	Some farmers was not interested
10	Loose Boulder Check Dam	Nos.	15	10	66.70	Works is done with coordination of Irrigation and Panachayathi raj department.
B	Production Activities					
1	Vermin compost	No.	70	45	64.28	Lack of fund
2	Fodder Plantation	Ha.	232.00	90	38.80	Farmer was not interested
3	Paddy drum seeder	No.	25	25	100	Target achieved
4	Hybrid Maize(demonstration)	Ha.	75	75	100	Target achieved
5	Humic Acid	Lts.	2251	2251	100	Target achieved
6	Sprayers(power)	No.	75	75	100	Target achieved
C	Livelihood System					
1	Revolving Fund to	Nos.	70	43	61.40	Some Groups not fulfilled the pre-

	SHG for livelihood action plan.					requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No.	80	64	80	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Percolation Tank, Cattle Pond and Water Harvesting Structure (Rejuvenation of Well) were achieved as per expected outcome.
2. The target of Farm Ponds , Construction of Check dam, Formation of Village Pond, Sunken Pond, Land Shaping , Earthen Bund and Loose Boulder Check Dam were achieved to the extent of 61.50,92.20,74.40,70.80,64.95,89 and 66.70% respectively.
3. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of all 4 activities namely, Paddy drum seeder, Hybrid Maize (demonstration), Humic Acid and Sprayers were achieved as per out come. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.
2. The target of Vermin compost and Fodder Plantation was achieved to the extent of 64.28.and 38.80% only.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 61.40% of SHG and 80 % fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were electrician, Mobil repairing, poultry raring, motorcycle repairing work, agro-service Centre, tailoring, tea stall etc .
2. Expert team met the members of SHG groups during the visit the team observed that, the 66% of SHG has been working properly and repaying the loan in time.34% of SHG were not working smoothly and not repaying the loan in time. Out of them 10 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP- III, Kaveripakkam Block- in Vellore District
(Tamil Nadu)**

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1.	Status of water table (Depth to Ground water level)	meters	11-13	10-12	10.50	-0.50	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2.	Ground water structures repaired/rejuvenated	No.	0	49	49	0	Target achieved.
3.	Change in irrigated area	Ha.	655	840	760	-80	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4.	Area under agriculture crop	ha	1060	1320	1205	-115	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5.	Crop productivity						
	Paddy	Kg/ha	2430	2500	2610	110	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Sugarcane	Kg/ha	8000	9500	10500	1000	
	Ragi	Kg/ha	1180	1250	1300	50	
	Groundnut	Kg/ha	1240	1300	1340	40	
	Pulses	Kg/ha	550	620	700	80	
6.	Area under horticulture	ha	10	210	80	130	Farmers were interested due to higher income.
7.	SHG federations	No.	0	125	107	-18	Some groups not

	formed						fulfill the pre-requisite for SHG formation
8.	Income	Rs.	34000	62000	66200	4200	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9.	Migration	No.	112	0	25	-25	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10.	Cropping intensity	%	120	143	135	-8	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11.	Waste land development	Ha.	75	15	40	-25	Target was not achieved due to lack of fund.
12.	Area under vegetation	Ha.	42	80	62	-18	Only 62.00 ha. land was covered under vegetation

Impact Evaluation Summary of IWMP- III, Kaveripakkam Block- in Vellore District (Tamil Nadu)

1. The anticipate increase in ground water table has been not achieved i.e. -0.50 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure partially constructed (Refer item items1, 2, 4, 5, 6, 7&9 of NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like; Percolation Tank, Cattle Pond and Water Harvesting Structure (Rejuvenation of Well) (Refer items1,2&8 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 1205ha against target of 1320 ha) and remained short by 115 ha i.e.8.71% (Refer Item 4 table 2) due to 53.30% less progress on conversion of waste land into agricultural land (Refer Item11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 9.52% short than the target (achieved760 ha against target of 840 ha) – Refer item 3, table 2). Similarly cropping intensity remained short by 8 % (achieved 135% against target of 143%) – Refer item 10, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of paddy, sugarcane ground nut, pulses and ragi crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
5. The 38.10% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
6. The 85.60% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
7. The household income increased over the expected post-project income of Rs62000/Annum by 6.77 % i.e. Rs4200/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 67.20, 18.10, 12.70and 2.00 % respectively.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
9. The 77.50% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Discuss with Farmers and Visited the NRM Activity of IWMP- III, (Kaveripakkam)

Name of Project - IWMP-II
Block - Kottampatti
District - Madurai
State - Tamil Nadu

**Table 1: Activity wise Physical Target and Achievements of IWMP- II ,Kottampatti Block-
Madurai District (Tamil Nadu)**

Sanctioned Amount- 537.27Lakh

Expenditure- 536.712Lakh

Expenditure-99 %

Total project Area- 5020 ha

Year of Sanction-2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1.	Percolation Tank	Nos.	2	2	100	Target achieved
2.	Structure for recharging drinking water Sources/Water hole		135	135	100	Target achieved
3.	Water Harvesting Structure	Nos.	226	143	63	Farmers not turned up during execution
4.	Field bunding	Ha.	376.5	376.5	100	Target achieved
5.	Farm pond	No.	2	2	100	Target achieved
6.	Water Harvesting Structure rejuvenated	No.	150	102	68	Some beneficiary were not interested
B	Production Activities					
1	Vermi Compost	No.	85	64	75.30	Target were not achieved due to religion
2	Bee keeping(unit)	No.	10	7	70	Lack of fund
3	Health /Veterinary camp	No.	14	14	100	Target achieved
4	New fodder varieties	Ha.	15	15	100	Target achieved
5	Vegetable seed distribution	No.	250	250	100	Target achieved
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No.	62	41	66.12	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No.	105	76	72.4	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Percolation Tank, Structure for recharging drinking water Sources/Water hole, Field bunding and Farm pond were achieved as per expected outcome
2. The target of Water Harvesting Structure and Percolation Tank, Mini Percolation Tanks , WHS, Earthen Bund, Loose Boulder Structure and Water Harvesting Structure rejuvenated were achieved to the extent of 63and 68% respectively.
3. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 5 production activities target of all 3 activities namely, Health /Veterinary camp ,Provision , New fodder varieties and Vegetable seed distribution were achieved as per out come. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture. Horticulture &A,H
2. The target of Vermin Compost and Bee keeping (unit) was achieved to the extent of 75.30.and70 only.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 66.12% of SHG and 72.40 % fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were electrician, Mobil repairing, poultry raring, motorcycle repairing work, agro-service Centre,, tailoring, tea stall etc .
2. Expert team met the members of SHG groups during the visit the team observed that, the 68% of SHG has been working properly and repaying the loan in time.32% of SHG were not working smoothly and not repaying the loan in time. Out of them 12 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-II Kottampatti Block- in Madurai District

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1.	Status of water table (Depth to Ground water level)	meters	15	13	13.75	-0.75	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2.	Ground water structures repaired/rejuvenated	No.	-	150	68	-82	Lack of fund.
3.	Change in irrigated area	Ha.	1216	1650	1435	-215	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4.	Area under agriculture crop	Ha.	1920	2500	2250	-250	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5.	Crop productivity						
	Groundnut	Kg/ha	1000	1200	1280	80	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	sorghum	Kg/ha	2250	2300	2437	137	
	Maize	Kg/ha	2800	2900	2945	45	
	Ragi	Kg/ha	1180	1250	1294	44	
6.	Area under horticulture	Ha.	52	229	177	-52	Farmers were interested due to higher income.
7.	SHG federations	No.	0	200	167	-33	Some groups not fulfill the pre-requisite for

	formed						SHG formation
8.	Income	Rs.	28880	70000	75400	5400	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9.	Migration	No.	20	0	2	-2	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10.	Cropping intensity	%	112	150	141	-9	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11.	Waste land development	Ha.	365	160	235	-75	Target was not achieved due to lack of fund.
12.	Area under vegetation	Ha.	20	200	112.5	-87.50	Small size of holding.

Impact Evaluation Summary of IWMP- II, Kottampatti Block- in Madurai District

1. The anticipate increase in ground water table has been not achieved i.e. -0.75 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure partially constructed (Refer item 3&6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like; Percolation Tank, Structure for recharging drinking water Sources/Water hole, Field bunding and Farm ponds (Refer items 1,2,4&5 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 2250ha against target of 2500 ha) and remained short by 250 ha i.e.10.0% (Refer Item 4 table 2) due to 46.80% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 13.10% short than the target (achieved 1435 ha against target of 1650 ha) – Refer item 3, table 2). Similarly cropping intensity remained short by 9 % (achieved 141% against target of 150%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of red gram , paddy, ground nut and black gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 77.25% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 83.50% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs70000/Annum by 7.71 % i.e. Rs5400/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 65.40, 19.20, 13.10 and 2.30 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 56.25% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



**WAPCOS Experts Discuss with Farmers and Visited the NRM Activity of IWMP- II
(Kottampatti)**

Name of Project - IWMP-III

Block - Kottampatti

District - Madurai

State - Tamil Nadu

**Table 1: Activity wise Physical Target and Achievements of IWMP- III, Kottampatti
Block- Madurai District (Tamil Nadu)**

Sanctioned Amount- 567.03 Lakh

Expenditure- 532.71 Lakh

Expenditure-93.95 %

Total project Area- 5050 ha

Year of Sanction-2010-11

S.No.	Activity	Unit	Target as per DPR	Achiev ement	% achieve ment	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1.	Percolation Tank	Nos.	4	4	100	Target achieved
2.	Farm Ponds		68	30	44	Farmer has small holding
3.	Structure for recharging drinking water Sources / Water hole		78	78	100	Target achieved
4.	Nallah bund		84	0	0	Farmers not turned up during execution
5.	Water Harvesting Structure	Nos.	183	161	88	Some Farmers not turned up during execution.
6.	Sunken pits	Nos.	55	55	100	Target achieved
7.	Pasture Development	Ha.	42	12	28.57	Only 12 ha. Land was allotted by gram Sabah
8.	Rejuvenation of old WHS	No.	155	155	100	Target achieved
B	Production Activities					
9.	Vermin Compost	No.	50	41	82	Some Farmers was not interested due to religion
10	Bee keeping (unit)	No.	10	8	80	Some Farmers was not interested due to religion
11	Health /Veterinary camp	No.	15	15	100	With the coordination of A.H department
12	New fodder varieties	Ha.	20	20	100	With the coordination of A.H department
13	Kitchen garden kit	No.	150	150	100	Target achieved
C	Livelihood System					
14	Revolving Fund to SHG for livelihood action plan.	No.	75	54	72	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
15	Revolving Fund to individual Entrepreneurs for livelihood plan.	No.	86	63	73.25	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Percolation Tank, Structure for recharging drinking water Sources/Water hole, Sunken pits and Rejuvenation of old WHS were achieved as per expected outcome.
2. The target of Farm Ponds, Water Harvesting Structure and Pasture Development were achieved to the extent of 44, 88, and 28.57% respectively.
3. The work of Nallah bund Structure has remained unattended.
4. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 5 production activities target of all 3 activities namely, Health /Veterinary camp New fodder varieties and Kitchen garden kit were achieved as per out come. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.
2. The target of Vermin Compost and Bee keeping (unit) was achieved to the extent of 82%.and80%only.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 72% of SHG and 73.25 % fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were electrician, Mobil repairing, poultry raring, motorcycle repairing work, agro-service Centre,, tailoring, tea stall etc .
2. Expert team met the members of SHG groups during the visit the team observed that, the 58% of SHG has been working properly and repaying the loan in time.42% of SHG were not working smoothly and not repaying the loan in time. Out of them 16 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP- III, Kottampatti Block- Madurai District
(Tamil Nadu)**

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1.	Status of water table (Depth to Ground water level)	meters	18	16	17	-1.00	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2.	Ground water structures repaired/rejuvenated	No.	0	155	155	0	Target achieved .
3.	Change in irrigated area	Ha.	1202	1560	1385	-175	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4.	Area under agriculture crop	Ha.	1945	2250	2133	-117	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5.	Crop productivity						
6.	Pulses	Kg/ha	680	750	780	30	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Groundnut	Kg/ha	750	850	905	55	
	Cholam(sorghum)	Kg/ha	2100	2200	2248	48	
	Maize	Kg/ha	2500	2600	2710	110	
	Ragi	Kg/ha	1120	1200	1250	50	
7.	Area under horticulture	Ha.	20	190	147	-43	Farmers were interested due to higher income.

8.	SHG formed	No.	0	210	161	-49	Some groups not fulfill the pre-requisite for SHG formation
9.	Income	Rs.	38100	67000	71800	4800	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
10.	Migration	No.	25	0	3	-3	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
11.	Cropping intensity	%	120	160	147	-13	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
12.	Waste land development	Ha.	0	0	0	0	Target was not taken in DPR
13.	Area under vegetation	Ha.	32	410	173	-237	Target were not achieved due to small size of holding

Impact Evaluation Summary of IWMP- III Kottampatti Block- in Madurai District

1. The anticipate increase in ground water table has been not achieved i.e. -1.00 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 4 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like; Percolation Tank, Structure for recharging drinking water Sources/Water hole, Sunken pits and Rejuvenation of old WHS (Refer items 1,3,6&8 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 2133ha against target of 2250 ha) and remained short by 117 ha i.e.5.20% (Refer Item 4 table 2) due to no any progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 11.21% short than the target (achieved 1385 ha against target of 1560 ha) – Refer item 3, table 2). Similarly cropping intensity remained short by 13 % (achieved 147% against target of 160% – (Refer item 10, table 2).
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of pulses, sorghum, ground nut and Maize crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops. The 77.40% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 76.70% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs67000/Annum by 7.16 % i.e. Rs4800/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 65.80, 19.40, 12.70 and 2.10 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 42.20% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Discuss with SHG Members and Visited the Water Harvesting Structure of IWMP-III (Kottampatti)

Name of Project - **IWMP-I**
Block - **Pollachi**
District - **Coimbatore**
State - **Tamil Nadu**

**Table 1: Activity wise Physical Target and Achievements of IWMP- I- Block Pollachi (N)
Coimbatore District**

Sanctioned Amount- 560.40 Lakh
Expenditure % -84.17
Year of Sanction-2009

Expenditure- 471.71 lakhs
Total project Area- 4670 ha

S.No.	Activity	Unit	Target as per DPR	Achiev ement	% achieve ment	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1.	Percolation Tank	Nos.	96	96	100	Target achieved
2.	Farm Ponds	Nos.	20	0	0	The selected farmer was sold the land. He is not willing to do this above work
3.	Drinking water tank	Nos.	3	3	100	Target achieved
4.	Field Channel	Mtr	1730	1730	100	Target achieved
5.	Water Harvesting Structure rejuvenation	Nos.	40	30	75	Lack of fund
6.	Field bund	Mtr.	1263	1263	100	Target achieved
7.	Loose Boulder Structure	Nos.	2	1	50	proposed work done by line dept.(irrigation)
8.	Nlah bunds	No.	32	29	90.60	proposed work done with coordination of dept. of irrigation
9.	Check dam	No.	50	50	100	Target achieved
B	Production Activities					
1	Vermi Compost	No.	10	10	100	Target achieved
2	Mushroom Cultivation	No.	2	2	100	Target achieved
3	crop demonstration	Ha.	0.2	5.8	100	Target achieved
4	Bee keeping	No.	10	7	70	Lack of fund & Social reason
5	Sprayers	No.	24	24	100	Target achieved
6	Provision of argil. implement	Nos.	18	18	100	Target achieved
7	Drip Irrigation	Ha.	14	6.50	46.42	Lack of fund

8	Health /Veterinary camp	No.	12	12	100	Target achieved
9	Poultry	No.	2600	1563	60.11	Lack of fund & Social reason
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No	45	25	55.60	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	65	45	69.23	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Percolation Tank, Drinking water tank, Field Channel, Field bund and Check dam were achieved as per expected outcome
2. The target of Water Harvesting Structure rejuvenation, Loose Boulder Structure, Water Harvesting Structure and Nalah bunds were achieved to the extent of 75, 50 and 90.60% respectively.
3. The work of Farm Ponds has remained unattended. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 9 production activities target of 6 activities namely, Vermi Compost, Mushroom Cultivation, crop demonstration, Sprayers, argil. Implement and Health /Veterinary camp were achieved as per out come. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.
2. The target of Bee keeping, Drip Irrigation and Poultry Bee was achieved to the extent of 70, 46.20. and 60.11%only

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 55.60% of SHG and 69.23 % fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were electrician, Mobil repairing, poultry raring, motorcycle repairing work, agro-service Centre, tailoring, tea stall etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 64% of SHG has been working properly and repaying the loan in time.36% of SHG were not working smoothly and not repaying the loan in time. Out of them 12 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP -I Block Pollachi (N) -in Coimbatore District

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1.	Status of water table (Depth to Ground water level)	meters	30.50	28.90	29.50	-0.60	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2.	Ground water structures repaired/rejuvenated	No.	0	40	30	-10	Lack of fund.
3.	Change in irrigated area	Ha.	650	950	800	-150	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4.	Area under agriculture crop	Ha.	1946	2653	2415	-238	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5.	Crop productivity						
	Maize	Kg/ha	1100	1200	1252	52	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Coconut	Kg/ha	11000	12000	13000	1000	
	Gram	Kg/ha	250	360	405	45	
	Ground nut	Kg/ha	942	1050	1200	150	
6.	Area under horticulture	Ha.	25	45	36	-9	Farmers were interested due to

							higher income.
7.	SHG federations formed	No.	0	150	111	-39	Some groups not fulfill the pre-requisite for SHG formation
8.	Income	Rs.	20000	50000	55300	5300	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9.	Migration	No.	60	0	20	-20	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	115	150	142	-8	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	76.4	27	42	-15	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	169	198	120	-78	Target were not achieved due to small size of holding

Impact Evaluation Summary of IWMP- I Block Pollachi (N) -in Coimbatore District

1. The anticipate increase in ground water table has been not achieved i.e. -0.60 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 2 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like; Percolation Tank, Drinking water tank, Field Channel, Field bund and Check dam (Refer items 1,3,4,6&9 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 2415ha against target of 2653 ha) and remained short by 238 ha i.e.8.97% (Refer Item 4 table 2) due to 55.60% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 15.78% short than the target (achieved 800 ha against target of 950 ha) – Refer item 3, table 2). Similarly cropping intensity remained short by 8 % (achieved 142% against target of 150% – (Refer item 10, table 2).The progress of both these items remained short due lack of harvested rain water quantity.However, the productivity of maize, coconut, groundnut and gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 80% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 74% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs50000/Annum by 10.60 % i.e. Rs 5300/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 68.10, 17.40, 12.90and 1.60 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 60.60% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Discuss with Farmers and Visited the Water Harvesting Structure of IWMP-I (Pollachi)

Name of Project - **IWMP-II**
Block - **Pollachi (N)**
District - **Coimbatore**
State - **Tamil Nadu**

**Table 1: Activity wise Physical Target and Achievements of IWMP-II Block- Pollachi (N)
District - Coimbatore**

Sanctioned Amount-560.40 Lakh

Expenditure- 471.71Lakh

Expenditure % -84.17

Total project Area-4640 ha

Year of Sanction-2009

S.No.	Activity	Unit	Target as per DPR	Achiev ement	% achiev ement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1.	Percolation Tank	Nos.	15	5	33.30	Farmer were not interested
2.	Mini Percolation Tanks		4	4	100	Target achieved
3.	Farm Ponds		8	8	100	Target achieved
4.	Nala bund		3	3	100	Target achieved
5.	Field Channel	mt	5500	4800	87	Due to increase in the schedule of rates per meter
6.	Field Bund	Mrt.	221	221	100	Target achieved
7.	Check Dam	No.	4	4	100	Target achieved
B	Production Activities					
1.	Vermi Compost	No.	9	9	100	Target achieved
2.	crop demonstration	Ha.	15	15	100	Target achieved with coordination of argil. Department.
3.	Bio fertilizer (humic acid)	No.	15	14	93	Lack of fund
4.	Sprayers(power)	No.	20	20	100	New technology introduced & Farmers need
5.	Health /Veterinary camp	No.	9	9	100	With the coordination of A.H department
6.	New fodder varieties	Ha.	10	10	100	With the coordination of A.H department
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No.	55	31	56.36	Funds distributed to available SHGs only
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No.	53	0	0	Revolving Fund to individual not distribution for Entrepreneurs for livelihood plan

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of mini Percolation Tank, Farm Ponds, Nala bund, Field Bund and Check Dam were achieved as per expected outcome.
2. The target of Percolation Tank and Field Channel were achieved to the extent of 33.30 and 87% respectively.
3. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of 5 activities namely, vermin compost, crop demonstration , Sprayers(power), Health /Veterinary camp and New fodder varieties were achieved as per out come. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.
2. The target of Bio fertilizer Vermin Compost was achieved to the extent of 93% only.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 56.36% of SHG and lack of fund no any fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were electrician, Mobil repairing, poultry raring, motorcycle repairing work, agro-service Centre,, tailoring, tea stall etc .
2. Expert team met the members of SHG groups during the visit the team observed that, the 68% of SHG has been working properly and repaying the loan in time.32% of SHG were not working smoothly and not repaying the loan in time. Out of them 10 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP-II Block- Pollachi (N) District-Coimbatore

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1.	Status of water table (Depth to Ground water level)	meters	35	32	33.2	-1.20	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2.	Ground water structures repaired/rejuvenated	No.	0	0	0	0	Not taken in DPR.
3.	Change in irrigated area	Ha.	142	410	345	-65	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4.	Area under agriculture crop	Ha.	1086	1496	1388	-108	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5.	Crop productivity						
	Maize	Kg/ha	1100	1200	1285	85	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Coconut	Kg/ha	10000	11000	11600	600	
	Gram	Kg/ha	250	360	470	110	
	Ground nut	Kg/ha	950	1150	1200	50	
6.	Area under horticulture	Ha.	44	80	63	-17	Farmers were interested due to higher income.

7.	SHG federations formed	No.	3	140	108	-32	Some groups not fulfill the pre-requisite for SHG formation
8.	Income	Rs.	30000	50000	56000	6000	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9.	Migration	No.	70	0	15	-15	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	105	145	132	-13	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	54	50	36	-14	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	46	105	60	-45	Target were not achieved due to small size of holding

Impact Evaluation Summary of IWMP- II Block- Pollachi (N) District-Coimbatore

1. The anticipated increase in ground water table has been not achieved i.e. -1.20 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure partially constructed (Refer item 1&5 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like; mini Percolation Tank, Farm Ponds, Nala bund, Field Bund and Check Dam (Refer items 2,3,4,6&7 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 1388ha against target of 1496 ha) and remained short by 108 ha i.e. 7.22% (Refer Item 4 table 2) due to 28% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 15.85% short than the target (achieved 345 ha against target of 410 ha) – Refer item 3, table 2). Similarly cropping intensity remained short by 13 % (achieved 132% against target of 145% – (Refer item 10, table 2). The progress of both these items remained short due to lack of harvested rain water quantity. However, the productivity of maize, coconut, groundnut and gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 78.75% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not receiving the remunerative price of horticulture produce.
5. The 77.14% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs50000/Annum by 11.20 % i.e. Rs5600/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 65.70, 18.60, 13.50 and 2.20 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 57.14% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Discuss with SHG Members and Visited the Water Harvesting Structure of IWMP-II (Pollachi)

Name of Project - IWMP-IV
Block - Kinathukadavu
District - Coimbatore
State - Tamil Nadu

Table 1: Activity wise Physical Target and Achievements of IWMP-IV Block- kinathukadavu District- Coimbatore (Tamil Nadu)

Sanctioned Amount- 609.72Lakh

Expenditure- 504.18 Lakh

Expenditure % - 82.69%

Total project Area-4200 ha

Year of Sanction-2010-11

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1.	Farm Ponds	NO.	104	104	100	Farmers willing
2.	Check dam	NO.	34	34	100	Farmers willing
3.	Earthen Bund	Ha..	190	124	65.26	Lack of fund
4.	Gully control structure	Nos.	24	20	83.30	Due to increase in the schedule of rates per meter
5.	Sunken pits	Nos.	6	0	0	farmers were not interested
6.	Percolation tank	NO.	8	8	100	Target achieved
7.	WHS rejuvenation	NO.	60	22	36.70	Lack of fund
B	Production Activities					
1.	Humic acid	liter	60	60	100	New agriculture technology introduced
2.	Sprayers(power)	No	10	10	100	Farmers need
3.	Health /Veterinary camp	No	16	14	87.50	Conducted with coordination of A.H department
4.	New fodder varieties	Ha	14	14	100	Conducted with coordination of A.H department
5.	Kitchen garden seed	No.	120	120	100	Conducted with coordination of horticulture department
C	Livelihood Syste					
1	Revolving Fund to SHG for livelihood action plan.	No	30	17	56.70	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	33	23	69.70	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of farm pond , check dam and Percolation Tank were achieved as per expected outcome
2. The target of Earthen Bund, Gully control structure and WHS rejuvenation t were achieved to the extent of 65.26, 83.30 and 36.20% respectively.
3. The work of sunken pits has remained unattended All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 5 production activities target of 4 activities namely, Humic acid, Sprayers (power),New fodder varieties and Kitchen garden kit were achieved as per out come. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture.
2. The target of Health /Veterinary camp was achieved to the extent of 87.50% only.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 56.70% of SHG and 69.76 % fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were electrician, Mobil repairing, poultry raring, motorcycle repairing work, agro-service Centre, tailoring, tea stall etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 70% of SHG has been working properly and repaying the loan in time.30% of SHG were not working smoothly and not repaying the loan in time. Out of them 9 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP- Block- IV Block- Kinathukadavu**District- Coimbatore (Tamil Nadu)**

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	34	31.50	32.40	-0.90	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	60	52	-8	Lack of fund.
3	Change in irrigated area	ha	290	480	424	-56	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	1690	2100	1945	-155	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity						
	Cholam(sorghum)	Kg/ha	800	1000	1105	105	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Chilies	Kg/ha	2500	2730	2950	220	
	Maize	Kg/ha	1208	1300	1380	80	
	Gram	Kg/ha	450	550	612	62	
6	Area under horticulture	ha	190	247	205	-42	Farmers were interested due to higher income.
7	SHG formed	No.	0	90	63	-27	Some groups not

							fulfill the pre-requisite for SHG formation
8	Income	Rs.	40000	60000	64700	4700	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	120	0	23	-23	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	110	150	135	-15	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	ha	245	102	154	-52	Target was not achieved due to lack of fund.
12	Area under vegetation	ha	164	217	107	-110	Target were not achieved due to small size of holding

**Impact Evaluation Summary of IWMP- Block- IV Block- Kinathukadavu District-
Coimbatore (Tamil Nadu)**

1. The anticipate increase in ground water table has been not achieved i.e. -0.90 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like; farm pond, check dam and Percolation Tank (Refer items 2,4&5 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 1945ha against target of 2100 ha) and remained short by 155 ha i.e.7.38% (Refer Item 4 table 2) due to 51% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 11.67% short than the target (achieved 424 ha against target of 480 ha) – Refer item 3, table 2). Similarly cropping intensity remained short by 15 % (achieved 135% against target of 150% – (Refer item 10, table 2).
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of sorghum, chilies, Maize and gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
5. The 83% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
6. The 70% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
7. The household income increased over the expected post-project income of Rs 60000/Annum by 7.83 % i.e. Rs 4700/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 69.20, 17.30, 10.60 and 2.90 % respectively.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
9. The 49.30% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



**WAPCOS Experts Discuss with SHG Members Visited the Production Activity of IWMP-IV
(Kinathukadavu)**

Name of Project - **IWMP-V**
Block - **kinathukadavu**
District - **Coimbatore**
State - **Tamil Nadu**

Table 1: Activity wise Physical Target and Achievements of IWMP-V Block- Kinathukadavu District- Coimbatore (Tamil Nadu)

Sanctioned Amount- 602.28 Lakh

Expenditure- 490.98 Lakh

Expenditure % - 81.52

Total project Area-4092 ha

Year of Sanction-2010-11

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1.	Percolation Tank	Nos.	16	16	100	Target achieved
2.	Farm Ponds	-	79	79	100	Target achieved
3.	Field bund	Ha.	600	503	83.82	. Due to increase in the schedule of rates per meter
4.	Diversion Wire Cattle Pond	Nos.	3	2	67	Lack of fund
5.	Check dam	Nos.	58	58	100	Target achieved
6.	Renovation of WHS structure	Nos.	30	23	76.70	Lack of fund
7.	Gully control structure	Nos.	17	17	100	Target achieved
8.	Vegetative barriers Sunken Pond	Nos.	8	0	0	Suitable site not available.
B	Production Activities					
1.	Vermi Compost	No	25	15	60	Target were not achieved due to religion
2.	crop demonstration	Ha	45	45	100	Coordination with department of agriculture
3.	Sprayers(power)	No	34	34	100	Coordination with department of agriculture
4.	Health /Veterinary camp	No	12	12	100	Coordination with department of A.H
5.	New fodder varieties	Ha	18	18	100	Coordination with department of A.H
C	Livelihood System					
1.	Revolving Fund to SHG for livelihood action plan.	No	15	12	80	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2.	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	19	16	84.20	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Percolation Tank, farm pond, check dam and Gully control structure were achieved as per expected outcome
2. The target of Field bund, Farm Ponds, Diversion Wire Cattle Pond and Renovation of WHS structure were achieved to the extent of 83.82,67 and 76.70% respectively.
3. The work of Sunken Pond has remained unattended All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 5 production activities target of 4 activities namely, crop demonstration, Health /Veterinary camp New fodder varieties and Sprayers(power) kit were achieved as per outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Argil. Department.
2. The target of Vermin Compost) was achieved to the extent of 60% only.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 80% of SHG and 84.20 % fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were electrician, Mobil repairing, poultry raring, motorcycle repairing work, agro-service Centre,, tailoring, tea stall etc .
2. Expert team met the members of SHG groups during the visit the team observed that, the 71% of SHG has been working properly and repaying the loan in time.29% of SHG were not working smoothly and not repaying the loan in time. Out of them 8 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP- V Block- Kinathukadavu District- Coimbatore (Tamil Nadu)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1.	Status of water table (Depth to Ground water level)	meters	30	27	28.10	-1.10	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2.	Ground water structures repaired/rejuvenated	No.	0	30	23	-7	Lack of fund.
3.	Change in irrigated area	ha	1026	1300	1187	-113	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4.	Area under agriculture crop	ha	2014	2320	2204	-116	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5.	Crop productivity						
	Cotton	Kg/ha	620	700	732	32	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop
	Maize	Kg/ha	1060	1200	1253	53	
	Coconut	Kg/ha	9200	10500	11000	500	
	Groundnut Percolation Tank, farm pond, check dam and Gully control structure	Kg/ha	1020	1150	1210	60	
6.	Area under horticulture	ha	45	110	60	-50	Farmers were interested due to higher income.
7.	SHG federations formed	No.	1	50	34	-16	Some groups not fulfill the pre-requisite for SHG formation

8.	Income	Rs.	35000	55000	58600	3600	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9.	Migration	No.	58	0	10	-10	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10.	Cropping intensity	%	106	150	134	-16	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11.	Waste land development	ha	250	120	180	-60	Target was not achieved due to lack of fund.
12.	Area under vegetation	ha	10	40	19	-21	Target were not achieved due to small size of holding

**Impact Evaluation Summary of IWMP- V Block- kinathukadavu District- Coimbatore
(Tamil Nadu)**

1. The anticipate increase in ground water table has been not achieved i.e. -1.10 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not constructed (Refer item 8 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like; Percolation Tank, farm pond, check dam and Gully control structure (Refer items 1,2,5&7 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 2204ha against target of 2320 ha) and remained short by 116 ha i.e.5.00% (Refer Item 4 table 2) due to 50% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 8.70% short than the target (achieved 1187 ha against target of 1300 ha) – Refer item 3, table 2). Similarly cropping intensity remained short by 16 % (achieved 134% against target of 150% – (Refer item 10, table 2).
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of cotton, Maize, coconut and groundnut crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
5. The 54.50% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
6. The 68% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
7. The household income increased over the expected post-project income of Rs 55000/Annum by 6.54 % i.e. Rs 3600/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 66.90, 18.60, 11.90 and 2.60 % respectively.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
9. The 47.50% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Experts Discuss with SHG Members and Visited the Water Harvesting Structure of IWMP-V (Kinathukadavu)

IMPACT EVALUATION OF IWMP SAMPLE PROJECTS OF DISTRICTS – ADILABAD, SURYAPETH & SANGAREDDY – TELENGANA

The Impact Evaluation of IWMP Projects has been carried out on the basis of following criteria:

1. Comparing the activity wise Physical Achievement vis-à-vis Target as per DPR (Refer Table1).
2. Comparing the Indicator- wise impact with the expected outcome after completion of the project as per DPR (Refer Table2).
3. Impact Evaluation Summary.

The project wise details are enclosed-

Name of Project	-IWMP-II
Block	- Bazarhatnoor
District	- Adilabad
State	- Telangana

**Table 1: Activity wise Physical Target and Achievements of IWMP- II Jatharla
Block- Bazarhatnoor District Adilabad Telangana state**

Sanctioned Amount-Rs.330.12 Lakh

Expenditure- Rs 223.1.Lakh

Expenditure %- 67.58

Total project Area- 2751 ha

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achiev ement	% achiev ement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Percolation Tank	Nos.	43	23	53.48	1. Funds were not released in time. 2. At the time of DPR preparation, the farmers are interested for execution of works in their fields, but during work phase they were not allotted the land for execution of targeted works.
2	Cattle Pond	Nos.	13	13	100	Target achieved
3	Farm Ponds	Nos.	273	108	40	While DPR preparation, the farmers are interested for execution of works in their fields, but while work phase they are not allotted the land for execution of works.
4	Construction of Check dam	Nos.	21	15	71	Funds are not released in time. Due to which, the Check dams were not constructed.
5	Sunken Pond	Nos.	10	10	100	Target achieved
6	Water Harvesting Structure repairing.	Nos.	3	2	66.7	Funds were not released in time.
7	Loose Boulder Check Dam	Nos.	164	164	100	Target achieved
B	Production Activities					
1	Crop demonstration.	Ha	10	10	100	With coordination of department of argil .
2	Homestead Plantation	Nos.	350	350	100	With coordination of department of forest.
3	Hybrid Maize demonstration.	No.	25	25	100	With coordination of department of argil.
4	Humic Acid	Lts.	210	145	69	Lack of fund.
5	Sprayers(power)	No.	15	15	100	With coordination of department of argil.
6	Animal health camp.	No.	9	9	100	With coordination of department of A.H.
C	Livelihood System					

1	Revolving Fund to SHG for livelihood action plan.	Nos	28	19	67.86	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	40	31	77.50	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Cattle Pond, Sunken Pond and Loose Boulder Check dam were achieved to the extent of expected outcome.
2. The target of Percolation Tank, Farm Ponds, and Check dam Trenching, RCC Check dam and Water Harvesting Structure repairing work was achieved to the extent of 53.48,40,71 and 66.70% respectively.
3. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of 5 activities namely, Crop demonstration, Homestead Plantation, Hybrid Maize demonstration Sprayers(power) and Animal health camp were achieved as per out come. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of A.H.
2. The target of Humic Acid production was achieved to the extent of 69% only. The main reason for not achieving the target was lack of fund and awareness.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 67.86% of SHG and 77.50% fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were electrician, Mobil repairing, poultry raring, motorcycle repairing work, agro-service Centre, tailoring, tea stall etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 74% of SHG has been working properly and repaying the loan in time.26% of SHG were not working smoothly and not repaying the loan in time. Out of them 5 %SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP- 2 Jatharla Block-Bazarhathnoor District
Adilabad (Telangana)**

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1.	Status of water table (Depth to Ground water level)	meters	41	38	39.10	-1.10	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2.	Ground water structures repaired/rejuvenated	No.	5	3	2	-1	Target was achieved with the coordination of villagers
3.	Change in irrigated area	ha	140	260	224	-36	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4.	Area under agriculture crop	ha	1200	1550	1461	-89	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5.	Crop productivity	kg/ha					
6.	Cotton	kg/ha	2000	2200	2273	73	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Soybean	kg/ha	800	1000	1064	64	
	Rice	kg/ha	2600	2700	2754	54	
	Red gram	kg/ha	1050	1100	1142	42	
7.	Area under horticulture	ha	24	30	10	-20	Farmers were interested in vegetable crop instead of

							horticulture plant.
8.	SHG formed	No.	5	110	68	-42	Some groups not fulfill the pre-requisite for SHG formation
9.	Income	Rs.	88350	102000	105800	3800	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
10.	Migration	No.	53	0	8	-8	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
11.	Cropping intensity	%	120	160	140	-20	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
12.	Waste land development	ha	32.40	32.40	21.50	-10.90	Target was not achieved due to lack of fund.
13.	Area under vegetation	ha	0	6	2	-4	Only 2.0 ha. land was allotted for vegetation by gram Sabah

Impact Evaluation Summary of IWMP-II Jatharla Block-Bazarhathnoor District Adilabad (Telangana)

1. The anticipated increase in ground water table has not been achieved i.e. -1.10 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not/partially constructed (Refer item 1, 3, 4&6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Cattle Pond, Sunken Pond and Loose Boulder Check dam (Refer items 2,5&7 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 1461 ha against target of 1550 ha) and remained short by 89 ha i.e. 5.74% (Refer Item 4 table 2) due to 33.64% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 13.85% short than the target (achieved 224 ha against target of 260 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 20 % (achieved 140% against target of 160%) – Refer item 10, table 2.
4. The progress of both these items remained short due to lack of harvested rain water quantity. However, the productivity of Rice, cotton, soybean and red gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
5. The 33.30% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not receiving the remunerative price of horticulture produce.
6. The 61.82% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
7. The household income increased over the expected post-project income of Rs 102000/Annum by 3.74 % i.e. Rs 3800/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 65.70, 19.20, 12.50 and 2.60 % respectively.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
9. The 33.40% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS EXPERT INTERACTING WITH THE BENEFICIARIES AT VILLAGE JATARLA IWMP-II BAZARHATHNOOR ADILABAD TELENGANA



WAPCOS EXPERT VISITED CHECK DAM AT VILLAGE JATARLA IWMP-II BAZARHATHNOOR ADILABAD TELENGANA

Name of Project - IWMP-I
Block - Penpahad
District - Suryapet
State - Telangana

Table 1: Activity wise Physical Target and Achievements of IWMP-1, Block Penpahad District. Suryapet Telangana

Sanctioned Amount-Rs. 240.00 Lakh
Expenditure %- 79.77
Year of Sanction- 2009-10

Expenditure- Rs 191.46 Lakh
Total project Area- 2000 ha

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remarks
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Percolation Tank & Mini Percolation Tank	Nos.	14	12	85	Farmers not turned up during execution.
2	Farm Ponds	Nos.	88	88	100	Target achieved
3	Construction of Check dam	Nos.	15	10	66.67	Farmer not interested in the Construction period Because of Land cost Increased
4	Water Harvesting Structure	Nos.	117	96	82.05	Farmer not interested in the Construction period Because of Land cost Increased
5	Earthen Bund	Ha.	12	12	100	Target Achieved
6	Loose Boulder Check Dam	Nos.	35	35	100	Target Achieved
B	Production Activities					
1	Fodder Plantation	Ha	20.8	20.8	100	Target is achieved
2	Homestead Plantation	Nos.	15000	15000	100	Target is achieved
3	Crop demonstration	No.	30	30	100	With coordination of department of argil.
4	Animal health camp	No.	8	8	100	With coordination of department of A.H.
5	Sprayers(power)	No	150	65	43.30	Lack of fund
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	Nos	28	19	67.86	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	35	28	80	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Farm Ponds, Earthen Bund and Loose Boulder Check Dam were achieved to the extent of outcome.
2. The target of Percolation Tank & Mini Percolation Tank, Construction of Check dam and Water Harvesting Structure work was achieved to the extent of 85, 66.67 and 82.10% respectively.
3. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 5 production activities target of 4 activities namely, Fodder Plantation, Homestead Plantation, Crop demonstration and Animal health camp were achieved as per out come. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of A.H.
2. The target of Sprayers (power) was achieved to the extent of 43.30% only. The main reason for not achieving the target was lack of fund.

B. Livelihood system

1. The revolving fund granted for livelihood action plan to 67.860% of SHG and 80% fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were the main enterprises of SHG were electrician, Mobil repairing, poultry rearing, motorcycle repairing work, agro-service Centre, Hair Cutting, tailoring, tea stall etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 70% of SHG has been working properly and repaying the loan in time. Remaining 30% of SHG were not working smoothly and not repaying the loan in time. Out of them 7 % SHG were waiting for wave off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP- 1, Block- Penpahad . District- Suryapet (Telangana)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1.	Status of water table (Depth to Ground water level)	meters	9.6	7.80	8.0	-0.20	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2.	Ground water structures repaired/rejuvenated	No.	0	0	0	0	Not in planning of DPR.
3.	Change in irrigated area	ha	269	450	387	-63	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4.	Area under agriculture crop	ha	869	1100	1003	-97	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5.	Crop productivity	Kg/ha					
	Paddy	Kg/ha	2840	3100	3240	140	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Cotton	Kg/ha	1500	1725	1750	25	
6.	Area under horticulture	Ha	33	44	27	-17	Farmers were interested

							in vegetable crop instead of horticulture plant.
7.	SHG formed	No.	0	50	38	-12	Some groups not fulfill the pre-requisite for SHG formation
8.	Income	Rs.	65000	90500	95200	4700	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9.	Migration	No.	325	125	164	-39	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10.	Cropping intensity	%	105	140	130	-10	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11.	Waste land development	ha	142	90	54	-36	Target was not achieved due to lack of fund.
12.	Area under vegetation	ha	0	0	0	0	Not in planning of DPR.

Impact Evaluation Summary of IWMP-1, Block- Penpahad . District- Suryapet (Telangana)

1. The anticipate increase in ground water table has been not achieved i.e. -0.20 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not/partially constructed (Refer item 1, 3&4 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Farm Ponds, Earthen Bund and Loose Boulder Check Dam (Refer items2, 5&6 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 1003 ha against target of 1100 ha) and remained short by 97 ha i.e. 8.81% (Refer Item 4 table 2) due to 40.00% less progress on conversion of waste land into agricultural land (Refer Item11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 14% short than the target (achieved 387 ha against target of 450 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 10 % (achieved 130% against target of 140%) – Refer item 10, table 2.
4. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of paddy and cotton crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
5. The 61.36% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
6. The 76% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
7. The household income increased over the expected post-project income of Rs 90500/Annum by 5.23 % i.e. Rs 4700/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 65.60, 18.40, 13.50 and 2.50 % respectively.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
9. The Area under vegetation has not been taken in planning of DPR.



**WAPCOS EXPERT VISIT PERCOLATION TANK IN IWMP-I SURYAPET
TELENGANA**



**WAPCOS EXPERT INTERACTING WITH SHG IN IWMP-I SURYAPET
TELENGANA**

Name of Project - **IWMP-I**
Block - **Kondapur**
District - **Sangareddy**
State - **Telangana**

**Table 1: Activity wise Physical Target and Achievements of IWMP-I, Block: Kondapur,
District: Sangareddy, Telangana**

Sanctioned Amount: 636 Lakh

Expenditure: 496.32 Lakh

Expenditure - 78.03 %

Total project Area: 5300 ha

Year of Sanction-2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty	Phy	Phy	
A	Natural Resource Management					
1	Percolation Tank	Nos.	36	36	100	Target achieved.
2	Farm Ponds	Nos.	19	2	10.50	Due to Convergence with MGNREGS, its executed in MGNREGS funding
3	Construction of Check dam	Nos.	87	80	91.95	Due to farmers not willing to constructed, land value is very high
4	Pond Renovation	Nos.	2	2	100	Target achieved
5	Sunken Pond	Nos.	4	2	50	Farmer not interested in the Construction period Because of Land cost Increased
6	Earthen Bund	Ha.	140	140	100	Target achieved
7	Loose Boulder Check Dam	Nos.	68	34	50	Due to 5% ceiling to cost of project
B	Production Activities					
1	Vermin compost(unit)	No.	26	21	80.77	Some farmers were not interested due social reason.
2	Crop demonstration	No.	120	120	100	With coordination of department of argil.
3	Animal health camp.	No.	12	12	100	With coordination of department of A.H.
4	Hybrid Maize (demonstration)	No.	75	75	100	With coordination of department of argil.
5	Humic Acid	Lts.	430	256	59.53	Lack of farmer's interest and fund.
6	Sprayers(power)	No	41	41	100	With coordination of department of argil.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	Nos	30	26	86.70	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No	26	21	80.77	Some individuals were not fulfilling the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Percolation Tank, Pond Renovation and Earthen Bund were achieved to the extent of expected outcome.
2. The target of Farm Ponds, Construction of Check dam, Sunken and Loose Boulder Check Dam work was achieved to the extent of 10.50, 91.95, 50 and 50% respectively.
3. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of 4 activities namely, Crop demonstration, Animal health camp, Hybrid Maize (demonstration and Sprayers (power were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. department of argil & A.H.
2. The target of Vermin compost (unit) and Humic Acid was achieved to the extent of 80.77 and 59.53% respectively. The main reason for not achieving the target was lack of fund and social factor.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 86.70% of SHG and 80.77% fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were electrician, Mobil repairing, poultry rearing, motorcycle repairing work, agro-service Centre, Hair Cutting, tailoring, tea stall etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 78% of SHG has been working properly and repaying the loan in time. 22% of SHG were not working smoothly and not repaying the loan in time.

Table 2: Indicator wise impact of sample IWMP-I, Block: Kondapur in Sangareddy District, Telangana State

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1.	Status of water table (Depth to Ground water level)	meters	9	7	7.40	-0.40	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2.	Ground water structures repaired/rejuvenated	No.	0	2	2	0	Target were achieved due to lack of fund.
3.	Change in irrigated area	ha	549.43	680	603	-77	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4.	Area under agriculture crop	ha	2475	2850	2703	-147	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5.	Crop productivity	Kg/ha					
	Paddy	Kg/ha	3410	3500	3620	120	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Sugarcane	Kg/ha	37000	40000	42000	2000	
	Cotton	Kg/ha	1824	2000	2055	55	
	Pulses (red gram)	Kg/ha	962	1070	1120	50	

6.	Area under horticulture	ha	0	26	2.81	-23.19	Land cost is very high, they are interested in vegetables cultivation, so farmer not willing to mango cultivation
7.	SHG formed	No.	1	78	56	-22	Some groups not fulfill the pre-requisite for SHG formation
8.	Income	Rs.	73600	102000	105400	3400	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9.	Migration	No.	232	70	102	-32	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10.	Cropping intensity	%	130	160	145	-15	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11.	Waste land development	ha	320	150	192	-42	Target was not achieved due to lack of fund.
12.	Area under vegetation	ha	0	15	7.10	7.90	Target was not achieved due to lack small size of holding.

**Impact Evaluation Summary of IWMP- I, Block: Kondapur in Sangareddy District,
Telangana State**

1. The anticipated increase in ground water table has not been achieved i.e. -0.40 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure not/partially constructed (Refer item 2,3,5&7 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Percolation Tank, Pond Renovation and Earthen Bund (Refer items 1,4&6 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 2703 ha against target of 2850 ha) and remained short by 147 ha i.e. 5.51% (Refer Item 4 table 2) due to 28% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 11.32% short than the target (achieved 603 ha against target of 680 ha) – Refer item 3, table 2. Similarly cropping intensity remained short by 15 % (achieved 145% against target of 160%) – Refer item 10, table 2.
4. The progress of both these items remained short due to lack of harvested rain water quantity. However, the productivity of paddy, sugarcane, cotton and red gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
5. The 10.80% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not receiving the remunerative price of horticulture produce.
6. The 71.80% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
7. The household income increased over the expected post-project income of Rs 102000/Annum by 3.33 % i.e. Rs 3400/- mainly due to increase in crop productivity, price of agriculture produce, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 65.80, 17.90, 13.70 and 2.60 % respectively.
8. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
9. The 47.33% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS TEAM VISIT CHECK DAM IN IWMP-I SANGAREDDY TELENGANA



WAPCOS TEAM DISCUSSION WITH SHG IN IWMP-I SANGAREDDY TELENGANA

IMPACT EVALUATION OF IWMP SAMPLE PROJECTS OF–TRIPURA

The Impact Evaluation of IWMP Projects has been carried out on the basis of following criteria:

1. Comparing the activity wise Physical Achievement vis-à-vis Target as per DPR (Refer Table1).
2. Comparing the Indicator- wise impact with the expected outcome after completion of the project as per DPR (Refer Table2).
3. Impact Evaluation Summary.

The project wise details are enclosed-

Name of Project- IWMP-I
Block- Killa
District- Gomati
State- Tripura

**Table 1: Activity wise Physical Target and Achievements of IWMP-I Block-Killa
District –Gomati (Tripura)**

Sanctioned Amount- 581.1 Lakh

Expenditure- 581.1 Lakh

Expenditure % -100

Total project Area- 3874 ha

Year of Sanction-2009-10

S.No.	Activity	Unit	DPR Targets	Total Achieve ment	% Achievem ent	Remarks
			Phy	Phy		
A	Natural Resource Management					
1	Land Leveling	Ha	1.8	1.8	100	The total sanction fund to the project is timely provided to implementing agency. Resulting maximum targets of various activities were achieved during project period.
2	Percolation Tank	No	19	19	100	
3	Drainage Channel	No	8	8	100	
4	Well (Shallow)	No	28	28	100	
5	DTW	No	1	1	100	
6	Pond	No	60	60	100	
7	Big Water Body	No	47	40	85.10	
8	WHS	No	83	76	91.57	
9	Pond (Renovation)	No	65	60	92.30	
10	Renovation of Big Water Body	No	8	8	100	
11	Renovation of WHS	No	3	3	100	
12	Renovation of PT	No	7	7	100	
B	Production System					
1	Weaving	No	77	60	77.90	villagers not turned up during execution
2	Salon	No	7	7	100	Target achieved
3	Dairy	No	23	15	65.20	Farmers not turned up during execution
4	Bee Keeping	No	4	4	100	Target achieved
5	Fishery	No	39	30	76.90	Some Farmers were not interested in this activity..
6	Vermi Compost	No	5	5	100	Target achieved
7	Crop Demonstration	No	44	48	109	Demand of farmers.
8	Tea Stall	No	8	8	100	Target achieved
9	Poultry	No	21	21	100	Target achieved
10	Goat rearing	No	58	47	81.00	Farmers were not interested due to lack of produce marketing facility

11	Piggery	No	62	54	87.00	Farmers were not interested due to social factor.
12	Bamboo Craft	No	23	23	100	Target achieved
13	Sewing Machine Distribution	No	5	5	100	Target achieved
14	Rubber Plantation	Ha.	21	21	100	Target achieved
15	Band Party	No	10	7	70	Farmers were not interested due to social factor
16	Rice Mill	No	3	3	100	Target achieved
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan	No.	6	6	100	All Groups were fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No.	36	32	88.89	The some group not fulfill the pre-requisite for availing Revolving Fund
3	Revolving fund to SHG federation for livelihood action plan	No.	2	2	100	Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The expected outcome target of maximum Natural Resource Management activities was achieved. The reason behind was timely availability of total sanction fund to the implementing agency, interest of villager/ farmers and coordination with concerned departments. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

1. Out of 16 production activities the target of all activities namely, Weaving, Salon, Dairy, Bee Keeping, Fishery, Vermi Compost, Crop Demonstration, Tea Stall , Poultry , Goat rearing, Piggery unit, Bamboo Craft, Sewing Machine Distribution, Rubber Plantation, Band Party and Rice mill 77.90,100,65.20,100,76.90,100,109,100,100,81,87,100,100,100,70 and 100 % were achieved respectively. The main reason for not achieved the target of five activities were Some villagers were not interested due to cast factor, Farmers were not interested due to

lack of marketing facility , Farmers not turned up during execution, and lack of convergence with concern department i.e. Department of Animal husbandry, Department of Fishery etc.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 100 % of SHG, 88.89% for Individual SHG and 100% to SHG federation against the target.
2. Expert team met the members of SHG groups during the visit. The 87.50 % of SHG has been working properly and repaying the loan in time. Only 12.50% of SHG were not working smoothly and not repaying the loan in time due to lack of marketing for produce, out of them some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Indicator Table 2: Item wise Impact of sample IWMP-I Block- Killa District –Gomati (Tripura)

Sl. No.	Item	Unit	Pre-project Status	Expected Post project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	Meter	5-6	4-5	4-5	0	Water table is increased up to the expected post project stage because target of water harvesting structure were achieved in the project area
2	Ground water structures repaired/rejuvenated	No.	0	83	83	0	Target was achieved due to availability of fund.
3	Change in irrigated area	ha	117	260	260	0	Expected post project outcome was achieved because the harvested rain water was available for irrigation.
4	Area under agriculture crop	ha	1435	2165	2165	0	Outcome of the area in the agriculture crop was achieved due to availability of irrigation water and waste land development
5	Crop productivity						
6	Paddy(autumn)	kg/ha	2300	2540	2605	65	Increase in productivity due to adoption of
	Paddy(summer)	kg/ha	2610	3000	3040	40	
	Paddy(winter)	kg./ha.	3015	3200	3270	70	

	Maize	kg/ha	1276	1580	1715	135	HYV/Hybrid crop variety, advance crop management practices and judicious use of limited irrigation water in crop.
	potato	kg/ha	5300	7500	8100	600	
	wheat	kg/ha	2410	3100	3220	120	
	Mustard	kg/ha	805	1025	1100	75	
7	Area under horticulture	ha	3	4.5	4.5	0	Farmers are interested due to higher return.
8	SHG federations formed	No.	144	240	242	2	Maximum demand of villagers for livelihood.
9	Income	Rs.	75000	100000	110000	100000	Income of Household increase due to increase in crop yield and price of crop produce, wage rate and adoption of livelihood activities.
10	Migration	No.	966	575	587	0	Outcome of Reduction in migration was achieved as per target. However, reduction has taken place; the same is due to available work under MNAREGA and adoption of livelihood activities.
11	Cropping intensity	%	185	200	200	0	The outcome of cropping intensity was achieved because of availability of irrigation water for crops.
12	Waste land development	ha	735	420	424	4	Target not achieved due to lack of funds

Impact Evaluation Summary of: IWMP-I Block- Killa District –Gomati (Tripura)

1. The anticipated increase in ground water table has been achieved against the above target. (Refer item 1, table 2) The progress has been achieved due to construction of Water Harvesting Structure (Refer item 1 to 8 under NRM activity table 1). The increase in GW table is registered due to expected target achieved of other structures like renovation of pond, big water body WHS and PT work. (Refer items 9 to 12 of NRM activity table 1).
2. The “Area Under Agriculture Crop” increase as expected (2165 ha against target of 2165 ha) (Refer Item 4 table 2) due to targets achieved on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure as expected target (achieved 260 ha against target of 260 ha, – (Refer item 3, table 2). Similarly the expected outcome targets of cropping intensity were achieved 200% against target of 200%) – (Refer item 11, table 2). The progress of these items were achieved due to more harvested rain water quantity and inclusion of short duration crops varieties in crop rotations. However, the productivity of three seasons (rice autumn, summer and winter) of rice, Maize, potato, wheat & mustard crops has been more than the target due to adoption of HYV/ Hybrid crop variety, adapting crop management practices and judicious use of limited irrigation water in crops.
4. The 100 % expected outcome of area under horticulture crops was achieved because of farmers were interested to grow horticulture crop, because of more economic crop than other crops. During the field visit, team observed that the farmers were receiving remunerative price of horticulture crops.
5. The 100.01 % expected outcome of SHG has been achieved to implement the livelihood action plan to increase their income.
6. The household income increased over the expected post-project income of Rs.100000/Annum by 10 % i.e. Rs10000/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and adoption of livelihood programme by the villagers.



WAPCOS EXPERT VISIT PLANTATION WORK IN IWMP-1 BLOCK KILLA DISTRICT GOMATI



WAPCOS EXPERT VISIT POND WORK IN IWMP-1 BLOCK KILLA DISTRICT GOMATI

Name of Project- IWMP-II
Block- Dasda
District- North Tripura
State- Tripura

Table 1: Activity wise Physical Target and Achievements of IWMP-II Block-Dasda District –North Tripura (Tripura)

Sanctioned Amount- 259.35 Lakh

Expenditure- 259.35 Lakh

Expenditure % -100

Total project Area- 1729 ha

Year of Sanction-2009-10

S.No.	Activity	Unit	DPR Targets	Achievement	% Achievement	Remarks
			Qty.	Phy.		
A	Natural Resource Management					
1	Land Leveling	Ha.	5	5	100	The total sanction fund to the project is timely provided to implementing agency. Resulting maximum targets of various activities were achieved during project period
2	Percolation Tank	Nos.	10	10	100	
3	Drainage Channel	Rmt	4900	4900	100	
4	RCC Drainage Channel	Rmt	100	100	100	
5	Nallah Bund	Nos.	16	16	100	
6	Pick-Up Weir	Nos.	1	1	100	
7	Farm Pond	Nos.	103	98	95.14	
8	Check Dam (Earthen)	Nos.	3	3	100	
9	Farm Pond(Renovated)	Nos.	4	4	100	
B	Production System					
1	Yarn Distribution	Nos..	17	17	100	Target achieved
2	Fish Culture	Nos.	6	6	100	Target achieved
3	Piggery	Nos.	38	30	78.95	Farmers were not interested due to social factor.
4	Goat rearing	Nos.	13	13	100	Target achieved
5	Poultry	Nos.	34	29	85.30	Farmers were not interested due to lack of produce marketing.
6	Duckery	Nos.	7	7	100	Target achieved
7	Crop demonstration	Nos.	190	200	105	Demand of Farmers.
8	Vermin Compost	Nos.	17	15	88.23	Farmers were not interested in this activity
9	Horticulture. Plantation	Ha.	141	141	100	Target achieved.
C	Livelihood Activities					
1	Revolving Fund to SHG for livelihood action plan	No.	7	5	71.42	Many Groups were not fulfilled the pre-requisite for availing Revolving Fund.

2	Revolving Fund to individual Entrepreneurs for livelihood action plan	No.	32	32	100	The some group not fulfill the pre-requisite for availing Revolving Fund
3	Revolving fund to SHG federation for livelihood action plan	No.	2	1	50	all Groups fulfilled the pre-requisite for availing Revolving Fund

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The expected outcome target of maximum Natural Resource Management activities was achieved. The reason behind that was timely availability of total sanction fund to the implementing agency, interest of villager/ farmers and coordination with concerned departments. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area etc.

B. Production Activities

1. Out of 9 production activities the target of all activities namely, Yarn Distribution, Weaving, Fish Culture, Piggery, Goat rearing, Poultry, Duckery, Crop demonstration, Vermin Compo and Horticulture. Plantation 100, 100, 78.95, 100, 85.30, 100, 105, 88.23 and 100 % were achieved respectively. The main reason for not achieved the target of three activities were Some villagers were not interested due to cast factor, Farmers were not interested due to lack of marketing facility, Farmers not turned up during execution, and lack of convergence of concern department i.e. Department of Animal husbandry, Department of Fishery etc.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 71.42 % of SHG, 100% for Individual SHG and 50% to SHG federation against the target.
2. Expert team met the members of SHG groups during the visit. The 85.50 % of SHG has been working properly and repaying the loan in time. Only 14.50% of SHG were not working smoothly and not repaying the loan in time due to lack of market for produce, out of them some SHG were waiting for wave of the loan amount by the government and not repaying the loan.

Indicator Table 2: Item wise Impact of sample of IWMP-II Block- Dasda

District –North Tripura (Tripura)

Sl. No.	Item	Unit	Pre-project Status	Expected Post project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	Meter	3.5-4	3-4	3-4	0	Water table is increased up to the expected post project stage because target of water harvesting structure were achieved in the area
2	Ground water structures repaired /rejuvenated	No.	7	4	4	0	Target was achieved due to availability of fund.
3	Change in irrigated area	ha	117	230	230	0	Expected post project outcome was achieved because the harvested rain water was available for irrigation.
4	Area under agriculture crop	ha	661	800	805	5	Outcome of the area in the agriculture crop was achieved due to availability of irrigation water and waste land development
5	Crop productivity						
6	Paddy	kg/ha	2200	2425	2510	85	Increase in productivity due to adoption of HYV/Hybrid crop variety, advance crop management practices and judicious use of limited irrigation water in crop.
	Paddy	kg/ha	2540	2850	2905	55	
	paddy	kg/ha	2815	3000	3070	70	
	Maize	kg/ha	1260	1600	1625	25	
	Wheat	kg/ha	2515	3000	3050	50	
	Mustard	kg/ha	905	1040	1105	65	
7	Area under horticulture	ha	141	141	141	0	Farmers were interested due to higher return.
8	SHG federations formed	No.	94	135	137	3	Maximum demand of villagers for livelihood activities.
9	Income	Rs.	60,000	90000	95000	5000	Income of Household increase due to increase in crop yield and price of crop produce, wage rate

							and adoption of livelihood activities.
10	Migration	No.	852	0	58	-58	Outcome of Reduction in migration was not achieved as per target. However, reduction has taken place; the same is due to available work under NAREGA and adoption of livelihood activities.
11	Cropping intensity	%	150	200	200	0	The outcome of cropping intensity was achieved because of availability of irrigation water for crops..
12	Waste land development	ha	308	65	65	0	Target was achieved due to availability of funds

Impact Evaluation Summary of: IWMP- II Block- Dasda District –North Tripura (Tripura)

1. The anticipated increase in ground water table has been achieved against the above target. (Refer item 1, table 2). The progress has been achieved due to construction of Water Harvesting Structure and other activities (Refer items 2 to 8 under NRM activity table 1). The increase in GW table is registered due to the expected target achieved of other structures like Land Leveling and renovation of pond work. (Refer items 1 to 9 of NRM activity table 1).
2. The “Area under Agriculture Crop” increase as expected (805 ha against target of 800 ha) (Refer Item 4 table 2) due to targets achieved on conversion of waste land into agricultural land (Refer Item 12 table 2).
3. The increase in irrigated area after implementation of the watershed structure as expected target (achieved 230 ha against target of 230 ha, – (Refer item 3, table 2). Similarly the expected outcome targets of cropping intensity were achieved 200% against target of 200%) – (Refer item 11, table 2). The progress of these items were achieved due to more harvested rain water quantity and inclusion of short duration crop varieties in crop rotations. However, the productivity of three seasons (rice autumn, summer and winter) of rice, Maize, wheat & mustard crops has been more than the target due to adoption of HYV/ Hybrid crop variety, adapting crop management practices and judicious use of limited irrigation water in crops.
4. The 100 % expected outcome of area under horticulture crops was achieved because farmers were interested to grow horticulture crop, because, horticulture crop is more beneficial than other crops. During the field visit, team observed that the farmers were receiving remunerative price of horticulture crops.
5. The 101.5 % expected outcome of SHG has been achieved (demand of villagers) to implement the livelihood action plan to increase their income.
6. The household income increased over the expected post-project income of Rs90000/Annum by 5.56 % i.e. Rs5000/- mainly due to increase in crop productivity, price of agriculture produce, wage rate and adoption of livelihood programme in the project area.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under MANAREGA and adoption of livelihood programme by the villagers.



WAPCOS EXPERT VISIT POND STRUCTURE IN IWMP- II BLOCK- DASDA DISTRICT –NORTH TRIPURA



WAPCOS EXPERT VISIT RCC RING WELL IN IWMP- II BLOCK- DASDA DISTRICT –NORTH TRIPURA

IMPACT EVALUATION OF IWMP SAMPLE PROJECTS OF, JHANSI, CHITRAKOOT, GORAKHPUR, LUCKNOW, LAKHIMPUR KHERI, MEERUT, MATHURA – UTTAR PRADESH

The Impact Evaluation of IWMP Projects has been carried out on the basis of following criteria:

1. Comparing the activity wise Physical Achievement vis-à-vis Target as per DPR (Refer Table1).
2. Comparing the Indicator- wise impact with the expected outcome after completion of the project as per DPR (Refer Table2).
3. Impact Evaluation Summary.

The project wise details are enclosed-

Name of Project - IWMP- I

Block - Gursarai

District: - Jhansi

State- - Uttar Pradesh

**Table 1: Activity wise Physical Target and Achievements of IWMP-1, Block: Gursarai,
District: Jhansi (Uttar Pradesh)**

Sanctioned Amount- 743.28 (Lakh)

Expenditure- 488.66026 (Lakh)

Expenditure- 65.74 %

Total project Area- 6194.00 ha.

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1	Submergence bundhi & Peripheral bundhi	Meter	115108	76170	66.17	Funding Problem
2	Water Harvesting Structure.	No.	50	30	60	Lack of fund
3	Gully plugs	No.	20	8	40	Non availability of fund.
4	Gabion structures	No.	280	0	0	Farmers not turned up during execution.
5	Drop Spillway	No.	52	35	67.30	Lack of fund
B	Production Activities					
1	Single crop demonstration	Ha.	150	83	53.33	Target was not achieved due to lack of supply of seed.
2	Vegetable seed kit	No.	260	260	100	Target was achieved with the coordination of Horticulture department.
3	Bar seam Seed	Kg.	2210	2210	100	Target was achieved with the coordination of A.H department.
4	Vermin Compost unite	No.	67	47	70.14	Target was not achieved lack of supply of verms.
5	Sprayers	No.	150	115	76.70	Non availability of seed at proper time
6	Chaff cutter	No.	350	253	72.31	Lack of fund
7	Health /Veterinary camp	No.	5	5	100	Target was achieved with the coordination of Animal husbandry department.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No.	45	39	86.70	Some Groups not fulfilled the prerequisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No.	38	30	78.94	Some Groups not fulfilled the prerequisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Submergence bundhi & Peripheral bundhi, Water Harvesting Structure , Gully plugs and Drop Spillway work was achieved to the extent of 66.17,60,40and 67.30% respectively.
2. The work of Gabion structures has remained unattended. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 7 production activities target of 3 activities namely, Vegetable seed kit, Barseam Seed and Animal Husbandry (Health Camp,) were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture
2. The target of Single crop demonstration, Vermin Compost unite, Sprayers and Chaff cutter were achieved to the extent of 53.30, 70.14, 76.70and72.31% only.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to to86.70% of SHG and 78.94 % fund was granted to individual Entrepreneurs against the target SHG was achieved. The main enterprises of SHG were Dairy farming, carpenter work ., Dress Designing for women, cycle repairing, , Sheep & goat rearing, Candle mfg., and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 74% of SHG has been working properly and repaying the loan in time.26% of SHG were not working smoothly and not repaying the loan in time. Out of them 5 % SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP-1, Block: Gursarai, District: Jhansi
(Uttar Pradesh)**

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	15-20	14.20	15.70	-1.50	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/rejuvenated	No.	0	0	0	0	Target were not taken in DPR.
3	Change in irrigated area	ha	637.69	1030	872	-158	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	2627	3650	3405	-245	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity						
	Maize		946	1100	1130	30	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	paddy	Kg/ha	1546	1850	1981	131	
	Gram	Kg/ha	875	1050	1127	77	
	Lentil	Kg/ha	684	750	791	41	
	Mustered	Kg/ha	754	850	918	68	
	Wheat	Kg/ha	2367	2550	2684	134	
6	Area under horticulture	Ha.	0	120	39	-81	Farmers were interested due to higher income. But lack of irrigation water is

							constraint.
7	SHG formed	No.	5	112	83	-29	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	32000	65000	69200	4200	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	818	350	435	-85	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	100	150	125	-25	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	341.78	216	155	-61	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	45	120	70	-50	Target was not achieved due to lack of fund.

**Impact Evaluation Summary of IWMP- 1, Block- Gursarai, District: Jhansi
(Uttar Pradesh)**

1. The anticipated increase in ground water table has not been achieved i.e. -1.50 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 1, 2, 3, & 5 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Farm ponds, Check dams and Percolation tanks were completed under other state plan projects.
2. The “Area under Agriculture Crop” did not increase as expected (actual being 3405 ha against target of 3650 ha) and remained short by 245 ha i.e. 6.71% (Refer Item 4 table 2) due to 28.24% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 15.34% short than the target (achieved 872 ha against target of 1030 ha) – (Refer item 3, table 2). Similarly cropping intensity remained short by 25 % (achieved 125% against target of 150%) – Refer item 10, table 2. The progress of both these items remained short due to lack of harvested rain water quantity. However, the productivity of paddy, maize, gram, lentil, mustard and wheat crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 32.50% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not receiving the remunerative price of horticulture produce.
5. The 74.10% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 65000/Annum by 6.46 % i.e. Rs 4200/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 67.80, 17.50, 12.40 and 2.30 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 58.30% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Expert visited the Horticulture Plantation & Water Harvesting Structure at Jhansi

Name of Project -IWMP -II

Block - Karwi, Pahari, Manikpur

District - Chitrakoot

State - Uttar Pradesh

**Table 1: Activity wise Physical Target and Achievements of IWMP-II, Block: Karwi,
Pahari, Manikpur, District: Chitrakoot (Uttar Pradesh)**

Sanctioned Amount- 618.00 (Lakh)

Expenditure- 358.97642(Lakh)

Expenditure % - 58.08

Total project Area- 5150 ha.

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management.					
1	Sub mergence Bund (S.B)	Ha.	1652	1012	61.26	Lack of fund
2	Marginal Bund (M.B.)	Ha.	1200	640	53.30	Lack of fund
3	Peripheral Bund (P.B.)	Ha.	950	561	59.10	Lack of fund
4	check dam	Ha.	104	55	52.88	Farmers not turned up during execution
5	Water Harvesting Structure (rejuvenated)	Nos.	4	4	100	Target was achieved
6	Avenue plantation	Ha.	127.51	65.58	51.43	Non availability of plants.
B	Production Activities					
1	Single crop demonstration	Ha.	30	30	100	Target was achieved with the coordination of Agriculture department.
2	Sprayers	No.	53	53	100	Target was achieved with the coordination of Agriculture department.
3	Distribution of Argil. implements	Nos.	172	70	40.70	Lack of fund
4	Health/Veterinary camp	No.	25	25	100	Target was achieved with the coordination of Agriculture department.
5	New fodder varieties (demons.)	Ha.	40.00	0	0	Non availability of seed at proper time
6	winnowing fan	No.	78	54	69.23	Lack of fund.
7	Chaff cutter	No.	179	179	100	As per Work Plan.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No.	120	79	65.83	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Water Harvesting Structure (rejuvenated) was achieved to the extent of expected outcome.
2. The target of Sub mergence Bund (S.B), Marginal Bund, Peripheral Bund, check dam and Avenue plantation work was achieved to the extent of 61.26, 53.30, 59.10, 52.88, and 51.43% respectively. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 7 production activities target of 4 activities namely, Single crop demonstration, Sprayers, Chaff cutter and Animal Husbandry (Health Camp,) were achieved as per expected out come. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture& animal husbandry
2. The target of Distribution of Argil. Implements and winnowing fan were achieved to the extent of 40.70 and 69.23% respectively.
3. The target of new fodder varieties (demonstrations) has remained unattended. Due to non availability of seed at proper time

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to 65.83% of SHG against the target. The main enterprises of SHG were Dairy farming, cycle repairing, Dress designing for women, tea stall. Carpenter, Sheep & goat rearing, Candle mfg., and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 82% of SHG has been working properly and repaying the loan in time. SHG were distributed the fund with in group members for further livelihood activities.

**Table 2: Indicator wise impact of sample IWMP- II, Block: Karwi, Pahari, Manikpur
District: Chitrakoot (Uttar Pradesh)**

S.no	Item	Unit	Pre-project Status	Expected Post project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	12.60	9.30	10.50	1.20	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/ rejuvenated	No.	4	4	4	0	Target were achieved.
3	Change in irrigated area	Ha.	699.98	1150	967	-183	Expected post project outcome not achieved due to the lack of harvested rain water quantity.
4	Area under agriculture crop	Ha.	3150	3600	3408	-192	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected.
5	Crop productivity						
	paddy	Kg/ha.	2210	2550	2602	52	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited
	bajra	Kg/ha.	1004	1150	1286	136	
	wheat	Kg/ha.	2014	2250	2406	156	
	gram	Kg./ha.	1184	1250	1328	48	

							irrigation water in Rabi crop.
6	Area under horticulture	Ha.	0	40	15.80	24.20	Farmers were interested due to higher income. But lack of irrigation water is constraint.
7	SHG formed	No.	0	150	120	-30	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	36100	70000	74300	4300	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	542	30	110	80	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	100	135	125	-10	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	0	80	38	-42	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	6	35	14	21	Target was not achieved due to lack of fund.

**Impact Evaluation Summary of IWMP- II, Block: Karwi, Pahari, Manikpur,
District: Chitrakoot, (Uttar Pradesh)**

1. The anticipate increase in ground water table has been not achieved i.e. -1.20 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 1, 2, 3, 4&6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, Water Harvesting Structure (Refer items 5 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 3408 ha against target of 3600 ha) and remained short by 192 ha i.e. 5.33% (Refer Item 4 table 2) due to 52.50 less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 15.91% short than the target (achieved 967 ha against target of 1150 ha) – (Refer item 3, table 2). Similarly cropping intensity remained short by 10 % (achieved 125% against target of 135%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of paddy, bajra, wheat and gram crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 39.50% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 80% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 70000/Annum by 6.14 % i.e. Rs 4300/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 68.10, 17.60, 12.30 and 2.00 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 40% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Expert visited the Water Harvesting Structure & Discussed with Beneficiaries at Chitrakoot

Name of Project - IWMP-I

Block - Gagha

District - Gorakhpur

State - Uttar Pradesh

**Table 1: Activity wise Physical Target and Achievements of IWMP-I Block: Gagha
District: Gorakhpur (Uttar Pradesh)**

Sanctioned Amount-441.24 (Lakh)

Expenditure- 275.36 (Lakh)

Expenditure % -62.40%

Total project Area-3677 ha.

Year of Sanction- 2009-10

S.No	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1	Field Bunds	Meter	47432	24650	51.96	Lack of fund
2	MB	Meter	42	15	35.71	Lack of fund
3	PB	Meter	38	14.20	37.36	Lack of fund
4	Check dam	Nos.	2	2	100	Farmers not turned up during execution
5	Nala bund	Nos.	8	6	75	Target was achieved
6	Water Harvesting Structure(rejuvenated)	Nos.	39	33	84.61	Non availability of plants
7	Avenue plantation	Km.	20.00	20	100	Plants 12073 Nos.
B	Production Activities					
1	Single crop demonstration	Ha.	10	10	100	Target was achieved with the coordination of Agriculture department.
2	Sprayers(power)	No.	500	393	78.60	lack of fund
3	Health /Veterinary camp	No.	5	5	100	Target was achieved with the coordination of animal husbandry department.
4	New fodder varieties	Ha.	10	10	100	Target was achieved with the coordination of Agriculture department.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No.	79	54	68.35	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Check dam and Avenue plantation were achieved as per expected out come.
2. The target of Field Bunds, MB,PB, Nala bund and Water Harvesting Structure(rejuvenated), work was achieved to the extent of 51.96,55.71,37.36,75and 84.61% respectively. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 4 production activities target of 3 activities namely, crop demonstration, Animal Husbandry (Health Camp,) and new fodder varieties were achieved as per expected out come.
2. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture. The target of Sprayers (power) was achieved to the extent of 78.60% only. due to lack of fund.

C. Livelihood system

1. The expected target of revolving fund granted for livelihood action plan to 68.35% of SHG was achieved against the target. The main enterprises of SHG were Dairy farming, carpenter work , Dress Designing for women, cycle repairing, , Sheep & goat rearing, Candle mfg., tea stall, masonry and Computer *DTP* work etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 70% of SHG has been working properly and repaying the loan in time.30% of SHG were not working smoothly and not repaying the loan in time. Out of them 9 % SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP-I, Block: Gagha, District: Gorakhpur
(Uttar Pradesh)**

S.No.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	11-13	9	10.10	-1.10	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired /rejuvenated	No.	39	39	33	-6	Target were not achieved.
3	Change in irrigated area	Ha.	1030	1390	1245	-145	Expected post project outcome not achieved due to the lack of harvested rain water quantity.
4	Area under agriculture crop	Ha.	2549	3075	2901	-174	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected.
5	Crop productivity		-	-	-		
	Wheat	Kg/ha	1850	2000	2140	140	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	Paddy	Kg/ha	2500	2700	2804	104	
	Maize	Kg/ha	1500	1700	1810	110	
	Arhar	Kg/ha	1200	1300	1360	60	

6	Area under horticulture	Ha.	8.50	35	14.50	-20.50	Farmers were interested due to higher income. But lack of irrigation water is constraint.
7	SHG formed	No.	1	100	79	-21	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	40710	61500	65300	3800	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	1005	281	367	-86	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	141%	160%	153%	-7	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	8.00	0	2.00	-2.0	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	Scattered	15.00	10.50	-4.50	Target was not achieved due to lack of fund.

Impact Evaluation Summary of IWMP-I, Block: Gagha, District: Gorakhpur (Uttar Pradesh)

1. The anticipated increase in ground water table has not been achieved i.e. -1.10 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 1, 2, 3, 5 & 6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, But the marginal increase in GW table is registered due to expected target achieved of other structures like Check dam and Avenue plantation, (Refer items 4 & 6 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 2901 ha against target of 3075 ha) and remained short by 174 ha i.e. 5.66% (Refer Item 4 table 2) due to 25% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 10.43% short than the target (achieved 1245 ha against target of 1390 ha) – (Refer item 3, table 2). Similarly cropping intensity remained short by 7 % (achieved 153% against target of 160%) – Refer item 10, table 2. The progress of both these items remained short due to lack of harvested rain water quantity. However, the productivity of paddy, maize, wheat and Arhar crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 41.43% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not receiving the remunerative price of horticulture produce.
5. The 79% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 61500/Annum by 6.20 % i.e. Rs 3800/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 67.20, 17.50, 12.70 and 2.60 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 70% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Expert discuss with SHG Members & visited the Vegetation Plantation at Gorakhpur

Name of Project - IWMP-I

Block - Malihabad

District - Lucknow

State - Uttar Pradesh

**Table 1: Activity wise Physical Target and Achievements of IWMP-I, Block: Malihabad,
District: Lucknow (Uttar Pradesh)**

Sanctioned Amount- 440.40 (Lakh)

Expenditure- 283.49 (Lakh)

Expenditure % - 64%

Total project Area- 3670 ha.

Year of Sanction- 2010-11

S.No.	Activity	Unit	Target as per DPR	Achiev ement	% Achieve ment	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1	Percolation Tank	Nos.	24	9	37.50	Lack of fund
2	Farm Ponds	Nos.	35	29	83	Lack of fund
3	check dam	Nos.	5	5	100	Target was achieved
4	Nala bund/WHB	Nos.	5	3	60	Farmers not turned up during execution
5	Water Harvesting Structure(rejuvenated)	Nos.	35	35	100	Target was achieved
6	Loose Boulder Structure	Nos.	5	2	40	Non availability of local material.
7	Gully plugs	Nos.	10	0	0	Lack of fund
8	CCT/Staggered trenches	RMT	15000	4500	30	Farmers not turned up during execution
B	Production Activities					
1	Single crop demonstration	Ha.	62.80	56.50	90	Target was not achieved due lack of seed supply at proper time.
2	Vermin Compost unite	No.	20	11	55	Lack of fund and cast factor.
3	Sprayers(power)	No.	25	25	100	Target was achieved with the coordination of Agriculture department.
4	Provision of Argil. implements	Nos.	35	23	66	Target was not achieved due lack of fund.
5	Health /Veterinary camp	No.	15	15	100	Target was achieved with the coordination of animal husbandry department.
6	New fodder varieties	Ha.	10	10	100	Target was achieved with the coordination of animal husbandry department.
C	Livelihood System					

1	Revolving Fund to SHG for livelihood action plan.	No.	55	45	81.8	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No.	35	23	65.72	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Check dam and Water Harvesting Structure (rejuvenated) were achieved as per expected outcome.
2. The target of Percolation Tank, farm pond, Nala bund/WHB, Loose Boulder Structure and CCT/Staggered trenches work was achieved to the extent of 37.50, 83, 60,40 and 30% respectively.
3. The work of Gully plugs Structure has remained unattended. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of 3 activities namely, Sprayers (power), Animal Husbandry (Health Camp,) and new fodder varieties were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concerned department i.e. Department of agriculture.
2. The target of crop demonstration, Vermin Compost units and Provision of Argil. Implements was achieved to the extent of 90,55 and 66% respectively. Due to lack of fund.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 81.80% of SHG and 65.72 % fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were electrician, Mobil repairing, poultry rearing, motorcycle repairing work, agro-service Centre, tailoring, tea stall etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 68% of SHG has been working properly and repaying the loan in time. 32% of SHG were not working smoothly and not repaying the loan in time. Out of them 10 % SHG were waiting for write off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP-1, Block: Malihabad, District: Lucknow
(Uttar Pradesh)**

S.No.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	10.29	9.0	9.60	0.60	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/ rejuvenated	No.	-	35	35	0	Target achieved.
3	Change in irrigated area	Ha.	2168	2610	2382	-228	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	Ha.	2729	3376	3174	-202	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity						
	Maize	Kg/ha	970	1150	1210	60	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation
	Rice	Kg/ha	2150	2550	2652	102	
	Jawar	Kg/ha	960	1100	1145	45	
	Wheat	Kg/ha	2100	2500	2632	132	
	Mustard	Kg/ha	730	950	1050	100	
	Gram	Kg/ha	950	1050	1120	70	

							water in Rabi crop.
6	Area under horticulture	Ha.	15.80	90	65	-25	Farmers were interested due to higher income. But lack of irrigation water is constraint.
7	SHG formed	No.	-	120	90	-30	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	40100	73000	77200	4200	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	1014	0	366	-366	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	109.20	136	133	-3	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	148.56	50	37	-13	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	0	0	0	0	Not taken in DPR.

Impact Evaluation Summary of IWMP- I, Block: Malihabad, District: Lucknow (Uttar Pradesh)

1. The anticipate increase in ground water table has been not achieved i.e. -0.60 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 1, 2,4,6,7 & 8 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, but the marginal increase in GW table is registered due to expected target achieved of other structures like Check dam and Water Harvesting Structure (Refer items 3 &5 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 3174 ha against target of 3376 ha) and remained short by 202 ha i.e.5.98% (Refer Item 4 table 2) due to 26% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 8.74% short than the target (achieved 2382 ha against target of 2610 ha) – (Refer item 3, table 2). Similarly cropping intensity remained short by 3 % (achieved 133% against target of 136%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of paddy, maize, jowar, wheat, gram and mustard crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 72.20% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 75% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 73000/Annum by 5.75 % i.e. Rs 4200/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 68.00, 17.60, 12.40 and 2.00 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The work of Area under vegetation has not been included in DPR.to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Expert visited the Horticulture Plantation & West Land Development Programme at Lucknow

Name of Project - IWMP-I

Block - Pasgawa

District - Lakhimpur Kheri

State - Uttar Pradesh

**Table 1: Activity wise Physical Target and Achievements of IWMP- I, Block: Pasgawa,
District: Lakhimpur Kheri (Uttar Pradesh)**

Sanctioned Amount- 820.44 (Lakh)

Expenditure- 539.97483(Lakh)

Expenditure % - 63.34

Total project Area- 6837.00 ha.

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achiev ement	% Achiev ement	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1	Trench/PB	Meter	8500	7865	92.53	Lack of fund
2	Field bund	Meter	9296 9	92969	100	Target was achieved
3	check dam	Nos.	6	3	50	Lack of fund
4	Terrace/leveling	Ha.	200	145	72.50	Farmers not turned up during execution
5	Water Harvesting Structure (rejuvenated)	Nos.	52	36	69	Target was not achieved
6	Gully plugs	Nos.	108	74	68.50	Non availability of local material.
7	Percolation tank	Nos.	1	1	100	Target was achieved
B	Production Activities					
1	Single crop demonstration	Ha.	20	12	60	Target was not achieved due lack of seed supply at proper time.
2	Compost pit	No.	70	70	100	Target was achieved with the coordination of agriculture department.
3	Sprayers(power)	No.	65	60	92.30	Target was not achieved
4	Provision of Argil. implements	Nos.	140	132	94.30	Target was not achieved due lack of fund.
5	Health /Veterinary camp	No.	13	13	100	Target was achieved with the coordination of animal husbandry department.
6	New fodder varieties	Ha.	10	10	100	Target was achieved with the coordination of animal husbandry department.

C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No.	80	62	77.50	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.
2	Revolving Fund to individual Entrepreneurs for livelihood plan.	No.	24	18	75	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of field bund and Percolation tank (rejuvenated) were achieved as per expected outcome.
2. The target of Trench/PB, check dam, Terrace/leveling, Water Harvesting Structure (rejuvenated) and Gully plugs work was achieved to the extent of 92.53, 50, 72.50, 69 and 68.50% respectively. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of 3 activities namely, Compost pit, Animal Husbandry (Health Camp) and new fodder varieties were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concerned department i.e. Department of agriculture & A.H.
2. The target of crop demonstration, Sprayers (power) and Provision of Argil. Implements was achieved to the extent of 60, 92.30 and 94.30% respectively. Due to lack of fund.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 77.50% of SHG and 75% fund was granted to individual Entrepreneurs against the target. The main enterprises of SHG were electrician, Mobil repairing, poultry rearing, motorcycle repairing work, agro-service Centre, tailoring, tea stall etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 74% of SHG has been working properly and repaying the loan in time. 26% of SHG were not working smoothly and not repaying the loan in time. Out of them 6% SHG were waiting for write off the loan amount by the government and not repaying the loan.

Table 2: Indicator wise impact of sample IWMP- I, Block: Pasgawa, District: Lakhimpur Kheri (Uttar Pradesh)

S.no	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	7.5	6.0	6.53	- 0.53	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/ rejuvenated	No.	-	52	36	-16	Target was not achieved lack of fund.
3	Change in irrigated area	Ha.	1640	3980	3760	-220	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	Ha.	6618	7850	7611	-239	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity	Kg/ha					
	Maize	Kg/ha	1582	1800	1906	106	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	paddy	Kg/ha	2405	2650	2779	129	
	Wheat	Kg/ha	2721	3000	3141	141	
	Lentil	Kg/ha	876	950	1011	61	
	Mustard	Kg/ha	800	925	973	48	
6	Area under horticulture		246	350	276	-74	Farmers were interested due to higher income. But lack of irrigation water is constraint.

7	SHG federations formed	No.	-	141	104	-37	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	35100	68300	72400	4100	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	876	0	254	-254	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	135	169	165	-4	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	235	235	154.50	-80.50	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	191.436	250.00	160	-90	Target was not achieved due to lack of fund.

**Impact Evaluation Summary of IWMP- 1, Block: Pasgawa, District: Lakhimpur Kheri
(Uttar Pradesh)**

1. The anticipate increase in ground water table has been not achieved i.e. -0.53 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 13, 4, 5 &6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, But the marginal increase in GW table is registered due to expected target achieved of other structures like field bund and Percolation tank (rejuvenated (Refer items 2 &7 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 7611 ha against target of 7850 ha) and remained short by 239 ha i.e. 3.04% (Refer Item 4 table 2) due to 34.25% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 5.53% short than the target (achieved 3760 ha against target of 3980 ha) – (Refer item 3, table 2). Similarly cropping intensity remained short by 4 % (achieved 165% against target of 169%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of paddy, maize, wheat, lentil and mustard crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 78.85% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 73.75% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 68300/Annum by 6.10 % i.e. Rs 4200/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 66.30, 18.60, 12.50 and 2.60 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 64% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Expert visited the Crop Field & Water Harvesting Structure at Lakhimpur Kheri

Name of Project - IWMP-III
Block - Pasgawan
District - Lakhimpur kheri
State - Uttar Pradesh

**Table 1: Activity wise Physical Target and Achievements of IWMP-III, Block: Pasgawan,
District: Lakhimpur kheri (Uttar Pradesh)**

Sanctioned Amount: 532.08 (Lakh)

Expenditure- 341.97803(Lakh)

Expenditure % - 64

Total project Area- 4434.00 Ha

Year of Sanction- 2010-11

S.No	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1	Terrace/leveling	Ha.	100.	62.46	62.46	Lack of fund
2	Farm Ponds	no	5	5	100	Target was achieved
3	Check dam	No.	18	11	61	Lack of fund
4	Other MB+PB	Mtr.	100000	87239	87.20	Farmers not turned up during execution
5	Water Harvesting Structure (rejuvenated)	Nos.	15	10	66.70	Target was not achieved
6	Water Harvesting Structure (outlet, CD cum puliya)	No.	150	133	88.67	Farmers not turned up during execution .
B	Production Activities					
1	Single crop demonstration	Ha.	110	55	50	Target was not achieved due lack of seed supply at proper time.
2	Compost pit	No.	10	10	100	Target was achieved with the coordination of agriculture department.
3	Health/Veterinary camp	No.	10	10	100	Target was achieved with the coordination of animal husbandry department.
4	New fodder varieties	Ha.	20	14	70	Target was achieved with the coordination of animal husbandry department.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No.	51	42	82.35	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of farm pond was achieved as per expected outcome.
2. The target of Terrace/leveling, Check dam, Trench/PB, Water Harvesting Structure (rejuvenated and Water Harvesting Structure (outlet, CD cum puliya) work was achieved to the extent of 62.46, 61, 87.20, 66.70 and 88.67% respectively. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 4 production activities target of 2 activities namely, Compost pit and Animal Husbandry (Health Camp,) were achieved as per expected outcome. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture & A.H.
2. The target of crop demonstration and new fodder varieties was achieved to the extent of 50 and 70% respectively. Due to lack of fund.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 82.35% of SHG against the target. The main enterprises of SHG were electrician, Mobil repairing, poultry rearing, motorcycle repairing work, dairy, agro-service Centre, tailoring, tea stall etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 70% of SHG has been working properly and repaying the loan in time. 30% of SHG were not working smoothly and not repaying the loan in time.

**Table 2: Indicator wise impact of sample IWMP-III, Block: Pasgawan,
District: Lakhimpur kheri (Uttar Pradesh)**

S.No.	Item	Unit	Pre-project Status	Expected Post project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	7.5	7.00	6.5	-0.50	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired /rejuvenated	No.	-	14	10	-4	Target was not achieved lack of fund.
3	Change in irrigated area	ha	975.48	1460.00	1262.70	-198	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	ha	3954	4950	4832	-118	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity						
	Maize	Kg/ha	1580	1800	1900	100	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of limited irrigation water in Rabi crop.
	paddy	Kg/ha	2400	2655	2779	124	
	Wheat	Kg/ha	2720	3000	3140	140	
	Lentil	Kg/ha	874	950	1007	57	
	Mustard	Kg/ha	805	920	970	50	
6	Area under	Ha.	124	200	160	-40	Farmers were

	horticulture						interested due to higher income. But lack of irrigation water is constraint.
7	SHG federations formed	No.	-	90	51	-39	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	45000	84500	90100	5600	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	1014	300	507	-207	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	135	169	162	-7	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	412	250	183.50	-66.50	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	124.1	185.00	143.40	-41.60	Target was not achieved due to lack plant & fund.

**Impact Evaluation Summary of IWMP-III, Block: Pasgawa, District: Lakhimpur kheri
(Uttar Pradesh)**

1. The anticipate increase in ground water table has been not achieved i.e. -0.50 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 1, 3, 4, 5 & 6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, but the marginal increase in GW table is registered due to expected target achieved of other structures like farm pond (Refer items 2 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 4832 ha against target of 4950 ha) and remained short by 118 ha i.e. 2.38% (Refer Item 4 table 2) due to 36.60% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 13.56% short than the target (achieved 1262 ha against target of 1460 ha) – (Refer item 3, table 2). Similarly cropping intensity remained short by 7 % (achieved 162% against target of 169%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of paddy, maize, wheat, lentil and mustard crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 80% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 56.70% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 84500/Annum by 6.63 % i.e. Rs 5600/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 67.40, 17.80, 12.70 and 2.10 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 77.51% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Expert visited the Activity of SHG and Production at Lakhimpur Kheri

Name of Project - IWMP-I

Block - Saroorpur & Rohta

District - Meerut

State - Uttar Pradesh

Table 1: Activity wise Physical Target and Achievements of IWMP-1, Block: Saroorpur & Rohta District: Meerut (Uttar Pradesh)

Sanctioned Amount- 573.48 (Lakh)

Expenditure- 337.89 (Lakh)

Expenditure % - 58.92

Total project Area- 4779 ha.

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% Achievement	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1	Field bund	Meter	48280	38287	79.30	Lack of fund
2	Contour bund	Meter	323452	234458	72.46	Farmers not turned up during execution
3	check dam (earthen)	No.	50	32	62	Non availability of fund
4	Peripheral bund	Meter	24760	17770	71.76	Farmers not turned up during execution
5	Water Harvesting Structure (rejuvenated)	No.	17	17	100	Target was achieved
6	Outlet& cattle ghat	No.	25	14	56	Lack of fund
7	Water Harvesting Structure (new)	No.	64	34	53.10	Lack of fund
8	Farm pond	No.	17	17	100	Target was achieved
B	Production Activities					
1	Single crop demonstration	No.	89	89	100	Target was achieved due supply of seed at proper time.
2	Vermin Compost unite	No.	8	8	100	Target was achieved with the coordination of Agriculture department.
3	Sprayers(power)	No.	110	110	100	Target was achieved with the coordination of Agriculture department.
4	Provision of Argil. implements	No.	350	248	70.85	Target was not achieved due lack of fund.
5	Animal Health /Veterinary camp	No.	12	9	75	Target was not achieved due to lack of coordination with the animal husbandry department.
6	Chaff cutter	No.	31	31	100	Target was achieved with the coordination of Agriculture department.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	No.	31	28	90.32	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Water Harvesting Structure (rejuvenated and Farm pond were achieved as per expected outcome.
2. The target of Field bund, Contour bund, check dam(earthen), Outlet& cattle ghat, and Water Harvesting Structure(new) work was achieved to the extent of 79.30,72.46,62,71.76,56and 53.10% respectively. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of 4 activities namely, Single crop demonstration, Vermin Compost unite, Sprayers (power), and Chaff cutter were achieved as per expected out come. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture
2. The target of Provision of Argil. Implements and Animal Health /Veterinary camp was achieved to the extent of 70.85and 75% respectively. Due to lack of fund.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to90.32% of SHG against the target. The main enterprises of SHG were electrician, fishery, poultry, rural craftsman Mobil repairing, motorcycle repairing work, agro-service Centre,, tailoring, tea stall etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 65% of SHG has been working properly and repaying the loan in time.35% of SHG were not working smoothly and not repaying the loan in time. Out of them 10 % SHG were waiting for wave off the loan amount by the government and not repaying the loan.

**Table 2: Indicator wise impact of sample IWMP-1, Block: Saroorpur & Rohta
District: Meerut (Uttar Pradesh)**

S.No.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	meters	6.70	5.29	6.0	0.71	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired/ rejuvenated	No.	17	17	17	0	Target achieved.
3	Change in irrigated area	Ha.	3042	3350	3154	-196	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	Ha.	6187	6545	6428	-117	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity						
	sugarcane	Kg/ha	65470	69560	70800	1240	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicial use of limited irrigation water in Rabi crop.
	Rice	Kg/ha	2506	2750	2874	124	
	Arhar	Kg/ha	960	1100	1204	104	
	Wheat	Kg/ha	3584	3765	3892	127	
	Mustard	Kg/ha	965	1150	1205	55	

6	Area under horticulture	Ha.	150	211	182	-29	Farmers were interested due to higher income. But lack of irrigation water is constraint.
7	SHG formed	No.	0	55	31	-24	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	45200	80300	85200	4900	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	4166	2800	3042	-242	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	140	160	152	-8	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	661.60	585	607	-22	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	143	278	192	-83	Target was not achieved due to lack of fund.

**Impact Evaluation Summary of IWMP- 1, Block: Saroorpur & Rohta
District: Meerut (Uttar Pradesh)**

1. The anticipate increase in ground water table has been not achieved i.e. -0.71 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 1, 23,4,6 &7 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, but the marginal increase in GW table is registered due to expected target achieved of other structures like Water Harvesting Structure (rejuvenated and Farm pond Structure (Refer items 5 &8 of NRM activity table).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 6428 ha against target of 6545 ha) and remained short by 117 ha i.e. 1.79% (Refer Item 4 table 2) due to 3.76% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 5.85% short than the target (achieved 3154 ha against target of 3350 ha) – (Refer item 3, table 2). Similarly cropping intensity remained short by 8 % (achieved 152% against target of 160%) – Refer item 10, table 2. The progress of both these items remained short due lack of harvested rain water quantity. However, the productivity of sugarcane, paddy, Arhar, wheat and mustard crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 86.25% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not received the remunerative price of horticulture produce.
5. The 56.40% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 80300/Annum by 6.10 % i.e. Rs 4900/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 66.80, 18.50, 12.60 and 2.10 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 69.10% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Expert visited the Water Harvesting Structure and Plantation Activities at Meerut

Name of the Project - IWMP-I

Block - Farha

District - Mathura

State - Uttar Pradesh

**Table 1: Activity wise Physical Target and Achievements of IWMP-I, Block:Farha,
District: Mathura (Uttar Pradesh)**

Sanctioned Amount-600 (Lakh)

Expenditure-402.268 (Lakh)

Expenditure- 67.04% -

Total project Area- 5000 ha

Year of Sanction- 2009-10

S.No.	Activity	Unit	Target as per DPR	Achievement	% achievement	Remark
			Qty.	Phy.	Phy.	
A	Natural Resource Management					
1	Percolation Tank	Nos.	01	01	100	Target was achieved
2	Farm Ponds		03	03	100	Target was achieved
3	check dam		7	5	71.42	Lack of fund
4	Suit spill way	Nos.	10	7	70	Farmers not turned up during execution
5	Water Harvesting Structure (rejuvenated)	Nos.	154	116	75.32	Lack of fund
6	MB/PB trench	Mtr.	154150	136939	88.83	Farmers not turned up during execution.
B	Production Activities					
1	Single crop demonstration	Ha.	60	60	100	Target was achieved due supply of seed at proper time.
2	Vermi bad	Nos.	131	131	100	Target was achieved with the coordination of agriculture department.
3	Sprayers	Nos.	1000	853	85.3	Target was achieved with the coordination of agriculture department..
4	Provision of Argil. implements	Nos.	200	120	60	Target was not achieved lack of fund.
5	Animal Health /Veterinary camp	Nos.	5	5	100	Target was achieved with the coordination of animal husbandry e department
6	New fodder varieties (demon.)	Ha.	12	8	80	Lack of seed of supply.
C	Livelihood System					
1	Revolving Fund to SHG for livelihood action plan.	Nos.	68	52	76.47	Some Groups not fulfilled the pre-requisite for availing Revolving Fund.

From the above table the conclusions derived are as follows-

A. Natural Resource Management (NRM)

1. The target of Percolation Tank and farm pond was achieved as per expected out come.
2. The target of Check dam, Suit spill way, Water Harvesting Structure (rejuvenated Water Harvesting Structure (outlet, CD cum puliya) and MB/PB trench work was achieved to the extent of 71.42, 70, 75.32 and 88.83% respectively. All these works have made good impact for increase in ground water table, irrigated area, cropping intensity, crop productivity which has resulted in improving the socio-economic condition of the project farmers/villagers by way of increasing their income, employment generation and reduction in migration from the project area.

B. Production Activities

1. Out of 6 production activities target of 3 activities namely, Single crop demonstration vermi Compost bad and Animal Husbandry (Health Camp,) were achieved as per expected out come. The main reason for achieving the target was availability of fund, villager's interest and convergence of concern department i.e. Department of agriculture & A.H.
2. The target of Sprayers, Provision of Argil. Implements and New fodder varieties (demon.) was achieved to the extent of 85.3, 60 and 80% respectively. Due to lack of fund & timely supply of seed.

C. Livelihood system

1. The revolving fund granted for livelihood action plan to 76.47% of SHG against the target. The main enterprises of SHG were electrician, Mobil repairing, poultry raring, motorcycle repairing work, dairy, agro-service Centre, tailoring, tea stall etc.
2. Expert team met the members of SHG groups during the visit the team observed that, the 67% of SHG has been working properly and repaying the loan in time. 33% of SHG were not working smoothly and not repaying the loan in time.

Table 2: Indicator wise impact of sample IWMP-I, Block: Farha, District: Mathura (Uttar Pradesh)

S.No.	Item	Unit	Pre-project Status	Expected Post – project status	Actual Status	Deviation from expected outcome	Remarks
1	Status of water table (Depth to Ground water level)	Meters	9.87	8.50	8.90	-0.40	Water table not increased up to the expected post project stage because target of water harvesting structure were not achieved in the area. Actual status of water table drawn from data received from farmers at the time of expert visit.
2	Ground water structures repaired /rejuvenated	No.	154	154	116	-38	Target was not achieved lack of fund.
3	Change in irrigated area	Ha.	2375	3000	2665	-335	Expected post project outcome not achieved due to the lack of harvested rain water quantity
4	Area under agriculture crop	Ha.	5214	6200	5820	-380	Outcome of the area in the agriculture crop not achieved due to target of waste land area development was not achieved as expected
5	Crop productivity						
	sorghum	Kg/ha	800	1102	1200	98	Increase in productivity of crop due to adoption of HYV/Hybrid crop variety seed, advance crop technology and judicious use of
	bajra	Kg/ha	1421	1850	2005	155	
	wheat	Kg/ha	2820	3140	3210	70	
	mustard	Kg/ha	1423	1650	1842	192	
	potato	Kg/ha	21300	24000	25600	1600	

							limited irrigation water in Rabi crop.
6	Area under horticulture		41	50	15	-35	Farmers were interested due to higher income. But lack of irrigation water is constraint.
7	SHG federations formed	No.		68	52	-16	Some groups not fulfill the pre-requisite for SHG formation
8	Income	Rs.	36000	62000	66200	4200	Income of Household increase due to increase in crop yield, price of crop produce, wage rate and livelihood activities
9	Migration	No.	480	50	105	-55	Expected outcome of Reduction in migration not achieved as per target. However, reduction has taken place; the same is due to available work under IWMP scheme and livelihood program.
10	Cropping intensity	%	130	165	150	-15	The expected outcome of cropping intensity was not achieved due to lack of irrigation water and non-adoption of dry land technology.
11	Waste land development	Ha.	264	162	107	-55	Target was not achieved due to lack of fund.
12	Area under vegetation	Ha.	5	60	35	-25	Target was not achieved due to lack plant & fund.

Impact Evaluation Summary of IWMP- I, Block: Farah, District: Mathura (Uttar Pradesh)

1. The anticipated increase in ground water table has been not achieved i.e. -0.40 m against the above target. (Refer item 1, table 2). The progress has remained short due to Water Harvesting Structure less constructed (Refer item 3, 4, 5 & 6 under NRM activity table 1). But the marginal increase in GW table is registered due to expected target achieved of other structures like, but the marginal increase in GW table is registered due to expected target achieved of other structures like Percolation Tank and farm pond (Refer items 1&2 of NRM activity table 1).
2. The “Area under Agriculture Crop” did not increase as expected (actual being 5820 ha against target of 6200 ha) and remained short by 380 ha i.e. 6.13% (Refer Item 4 table 2) due to 33.95% less progress on conversion of waste land into agricultural land (Refer Item 11 table 2).
3. The increase in irrigated area after implementation of the watershed structure remained 11.17% short than the target (achieved 2665 ha against target of 3000 ha) – (Refer item 3, table 2). Similarly cropping intensity remained short by 15 % (achieved 150% against target of 165%) – Refer item 10, table 2. The progress of both these items remained short due to lack of harvested rain water quantity. However, the productivity of sorghum, bajra, wheat and mustard crops has been more than the target due to adoption of HYV of crop variety, adapting crop technology and judicious use of limited irrigation water in Rabi crops.
4. The 30% expected outcome of area under horticulture crops was achieved because of higher income from horticulture crop. During the field visit the expert team observed that the farmers were not receiving the remunerative price of horticulture produce.
5. The 76.47% of the expected outcome of SHG formation has been achieved to implement the livelihood action plan to increase the income of villagers.
6. The household income increased over the expected post-project income of Rs 62000/Annum by 6.77 % i.e. Rs 4200/- mainly due to increase in crop productivity, price of agriculture produces, wage rate and adoption of livelihood programme in the project area. The source of income was agriculture, dairy, labor and other occupation they contribute to the extent 67.80, 16.90, 13.10 and 2.20 % respectively.
7. Reduction in migration is observed against the expected post project outcome mainly due to availability of work under IWMP scheme and adoption of livelihood activities.
8. The 58.33% of the expected outcome of Area under vegetation has been achieved to check the runoff water to retain the soil moisture for crop yield.



WAPCOS Expert visited the Production and Water Harvesting Activity at Mathura