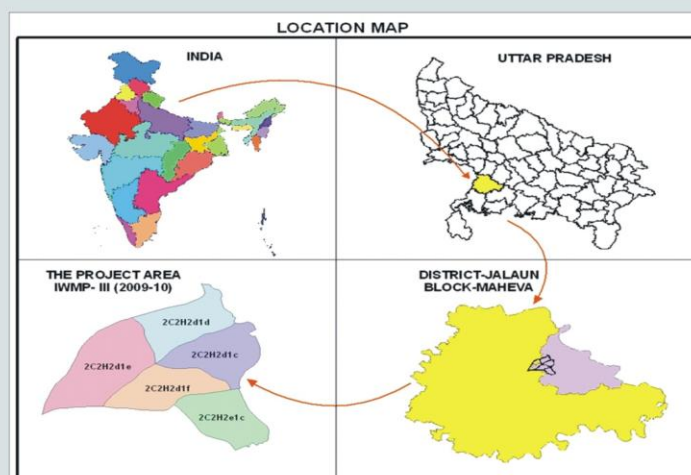


# DETAILED PROJECT REPORT

## OF INTEGRATED WATERSHED MANAGEMENT PROGRAMME-III JALAUN- 02 (2009-10)



Submitted to :  
Dept. of Land Development &  
Water Resources, U.P.

Prepared by :  
Bhoomi Sanrakshan Adhikari  
L.D.W.R., JALAUN-02

## **CERTIFICATE**

*It is certified that the proposed IWMP-III project comprising five micro-watersheds of district Jalaun, Uttar Pradesh has been selected for its sustainable development on watershed basis under Integrated Watershed Management Programme. The land is physically available for proposed interventions and is not overlapping with any other schemes. It will be developed as per Common Guidelines for Watershed Development Project-2008, GOI, New Delhi. The significant results will be achieved through proposed interventions on soil and water conservation, ground water recharge, availability of drinking and irrigation water, agricultural production systems, livestock, fodder availability, livelihoods of asset-less, capacity building, etc. The proposed Detailed Project Report of IWMP-III for financial year 2009-10 is approved for its implementation.*

**Bhoomi Sanrakshan Adhikari**

Department of Land Development & Water Resources,  
Jalaun-II, Uttar Pradesh

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## EXECUTIVE SUMMARY

IWMP-III Project is located in Mahewa Block of Jalaun district, Uttar Pradesh. The Project comprises of 5 Micro-watersheds namely Atra Kala (2C2H2d1d), Charsoni (2CDH2d1e), Babai (2C2H2d1f), Sarsai (2C2H2d1c) and Rinyaivbendepur (2C2H2e1c). The total geographical area of the project is 5229.43 ha, out of which 4200 ha area has been taken for treatment under Integrated Watershed Management Programme starting year 2009-10. Total 20 villages are being covered under this project. This watershed has been identified by the state department under NWDPRA scheme by proper prioritization of different parameters for watershed selection criteria. The above watershed is located in the North-East part of the district, between 26°0' N to 26°07' N latitude and 79°0' E to 79°40' E longitude. Brief details of various component of the project are given below.

The altitude of the area, on an average, ranges from 108 to 118 m above the Mean Sea Level (MSL). The summer, rainy and winter temperatures range between 30-44°C, 20-24°C and 14-21°C respectively. The May and June are the hottest months and sometime temperature goes up to 48.0°C and minimum temperature falls to 2.0°C during December-January.

Agriculture practices in the area are generally **mono-cropping** due to **Anna Pratha**. The farmers generally leave their fields fallow for free range grazing system in Kharif season, which makes cultivation difficult. These livestock, generally sheep, goat and indigenous cattle, having low productivity are let loose for grazing.

The baseline surveys have been conducted at individual household level. The details are given in chapter 3. The institution arrangement like PIA and its staff, WDT, UG, SHG and WC details have been annexed in chapter 4. The management and action plan like livelihood, production system and treatment area action plan details have been annexed in the respective chapters. All the thematic maps pertaining to

the project area have been attached along with the action plan map. Finally an attempt has been made to prepare individual project wise file for all the MWS wise.

**Table 1: PROJECT AT A GLANCE**

1.	Name of Project	<b>IWMP –III, R.B. YAMUNA RIVER WATERSHED</b>				
2.	Name of Block	MAHEWA				
3.	Name of District	JALAUN				
4.	Name of State	UTTAR PRADESH				
5.	No of Micro Watershed	05				
6.	Name of Village under Micro Watershed	Atrakala, Babai, Birahara, Charsoni, Churkhi, Dharampur Ubari, Itahiya, Kusmara, Mahiya Kalampur, Nagra, Nagri, Nandi Ubari, Panhara, Rinyaivbendepur, Sadopura, Sarsai, Sem, Sohrapurata, Sultanpur Ubari.				
7.	Micro Watershed Code	2C2H2d1d	2CDH2d1e	2C2H2d1f	2C2H2d1c	2C2H2e1c
	Treatable Area (ha)	764.70	1205.40	725.70	785.30	718.90
8.	Total Area of the Project	5229.43 ha				
9.	Proposed Area for Treatment	4200 ha				
10.	Cost per Hectare	Rs. 12000 per ha				
11.	Project Period	YEAR 2009-10 TO 2012-13				
12.	Total Cost of Project	Rs. 504.00 Lakhs				
13.	Proposed man days	232200 Nos.				

**Table 2: YEAR WISE PHASING (PHYSICAL & FINANCIAL) OF I.W.M.P.-III, JALAUN (U.P.)**

S No	Particulars	2009-10		2010-11		2011-12		2012-13		Total	
		Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy
1	Administrative cost-10%	10.08		13.86		13.86		12.60		50.40	-
2	Monitering-1%	1.01		1.39		1.39		1.26		5.04	-
3	Evalution-1%	1.51		1.13		1.13		1.26		5.04	-
4	Entry Point Activity-4%	20.16		-		-		-		20.16	-
5	Institution & Capacity Building-5%	15.12		5.04		5.04		-		25.20	-
6	DPR-1%	5.04		-		-		-		5.04	-
7	Watershed Dev. Work-56%	42.34	630	66.33	987	66.33	987	107.25	1,596	282.24	4,200
8	Livelihood Activity-9%	4.54		20.41		20.41		-		45.36	-
9	Production System & Micro Enterprises-10%	5.04		22.68		22.68		-		50.40	-
10	Consolidation-3%	-		-		-		15.12		15.12	-
	<b>Total</b>	104.83		130.84		130.84		137.49		<b>504.00</b>	<b>4200</b>

**Table 4: Budget for Various Components (I.W.M.P. - III, JALAUN)**

<b>S.N.</b>	<b>Budget Component</b>	<b>Total (lakhs)</b>
A.	1. Administrative	50.40
	2. Monitoring	5.04
	3. Evaluation	5.04
B.	Preparatory Phase	20.16
	1. Entry point activities	25.20
	2. Institution and capacity building	5.04
	3. Detailed Project Report(DPR)	
C.	WATERSHED WORKS PHASE	
	1. Watershed development works,	282.24
	2. Livelihood activities for the asset less persons	45.36
	3. Production system and micro enterprises.	50.40
D.	CONSOLIDATION PHASE	15.12
	<b>GRAND TOTAL</b>	<b>504.00</b>

# **CHAPTER-1**

## **INTRODUCTION & BACKGROUND**



The IWMP – III project in Mahewa Block of Jalaun district, Uttar Pradesh is located near Kalpi, about 45 and 15 km from Mahewa Block. Five watersheds included in the project [Atra Kala (2C2H2d1d), Charsoni (2CDH2d1e), Babai (2C2H2d1f), Sarsai (2C2H2d1c) and Rinyaivbendepur (2C2H2e1c)] comprise of 20 villages namely Atrakala, Babai, Birahara, Churkhi, Charsoni, Jalalpur Churkhi, Dharampur Ubari, Itahiya, Kusmara, Mahiya Kalampur, Nagra, Nagri, Nandi Ubari, Panhara, Rinyaivbendepur, Sadopura, Sarsai, Sem, Sohrapurata, Sultanpur Ubari. It is located in North-East part of Jalaun district. Total area of Watershed is 5229.43 ha out of which 4200 ha is proposed to be treated under IWMP Programme.

The watershed is proposed to be taken by Bhoomi Sanrakshan Adhikari, Department of Land Development & Water Resources, Jalaun for IWMP programme starting from 2009-10. It is proposed to be completed by 2012-13.

The Status of Integrated Watershed Management Programme as approved by Steering Committee, Govt. of India for Jalaun district, Uttar Pradesh is given in Table Nos. 1.1, 1.2 and 1.3.

**Table 1.1: Status of watershed programme, District- Jalaun**

<b>Details</b>	<b>No.</b>	<b>Area (Lac ha.)</b>
<b>1</b>	<b>2</b>	<b>3</b>
Total Micro watersheds in the district	508	45600
Workable Micro Watersheds	361	324578
Micro Watersheds already treated by DLWR & other agencies	156	140587
Balance Micro Watersheds (MWS) for treatment (Before start of IWMP in district)	58	52000

**Table 1.2 : Approved plan (PPRs) by Steering Committee (SC)/  
Gov. of India, District- Jalaun**

<b>Year</b>	<b>Project/ Phase IWMP.....</b>	<b>MWS</b>	<b>Area (ha)</b>	<b>Project Cost Rs. lakh</b>	<b>Name of PIA</b>	<b>S.C. Meeting Date</b>
1	2	4	5	6	7	8
2009-10	IWMP- I	5	4500.00	540.00	BSA, DPAP, Orai, Jalaun	16-03-2010
2009-10	IWMP- II	6	4600.00	552.00	BSA, DPAP, Orai, Jalaun	16-03-2010
2009-10	IWMP- III	5	4200.00	504.00	BSA, LDWR, Jalaun - II	16-03-2010
2009-10	IWMP- IV	7	4300.00	516.00	BSA, LDWR, Jalaun - II	16-03-2010
2009-10	IWMP- V	7	4578.00	549.40	BSA, LDWR, Kalpi, Jalaun	16-03-2010
<b>Total</b>		<b>30</b>	<b>22178.00</b>	<b>2661.40</b>		

**Table 1.3: Status of previous DPRs, District- Jalaun**

<b>Sl. No.</b>	<b>Approved Project (IWMP)</b>	<b>Status of DPR under preparation/ prepared/ approved by SLNA with date</b>	<b>Project Area ha</b>	<b>Treatable Area ha</b>	<b>Project cost Rs. (Lakh)</b>	<b>Project period (Fin. Year from...to...)</b>	<b>PIA</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
1.	IWMP- I	Prepared/ under revision	4748.25	4500.00	540.00	2009-10 to 2012-13	BSA, DPAP, Orai, Jalaun
2.	IWMP- II	Prepared/ under revision	5049.50	4600.00	552.00	2009-10 to 2012-13	BSA, DPAP, Orai, Jalaun
3.	IWMP- III	Prepared/ under revision	5229.43	4200.00	504.00	2009-10 to 2012-13	BSA, LDWR, Jalaun - II
4.	IWMP- IV	Prepared/ under revision	4450.00	4300.00	516.00	2009-10 to 2012-13	BSA, LDWR, Jalaun - II
5.	IWMP- V	Prepared/ under revision	4797.75	4578.00	549.40	2009-10 to 2012-13	BSA, LDWR, Kalpi, Jalaun

**Table 1.4: Details of IWMP for which this DPR is Prepared**

Watershed project IWMP	Micro Watersheds (MWS) detail	Micro watersheds code	Treatable Area	Name of Watershed in which MWS is falling (River / Nala name)
IWMP-III	Atra Kala	2C2H2d1d	764.70	R.B. Yamuna River
IWMP-III	Charsoni	2C2H2d1e	1205.40	R.B. Yamuna River
IWMP-III	Babai	2C2H2d1f	725.70	R.B. Yamuna River
IWMP-III	Sarsai	2C2H2d1c	785.30	R.B. Yamuna River
IWMP-III	Riniya Bendepur	2C2H2e1c	718.90	R.B. Yamuna River

### **MAIN OBJECTIVES FOR WATERSHED DEVELOPMENT**

- (a) Conservation, development and sustainable management of natural resources including their uses.
- (b) Enhancement of agricultural production and productivity in a sustainable manner.
- (c) Restoration of ecological balance in the degraded and fragile rain-fed ecosystem.
- (d) Reduction in regional disparity between rain-fed and irrigated areas.
- (e) Creation of sustainable employment opportunities for the rural community for livelihood.

The main problem in a watershed is the soil erosion by rainfall. The runoff water transport the sediments which may block the channel head, dam, reservoir and storage structures, etc. which in turn affect the agriculture production in the area.

**Table 1.5: Problem identification and prioritization for watershed**

<b>S. No.</b>	<b>Problem</b>	<b>Rank</b>
1	Low production of field crops	5
2	Lack of drinking water	3
3	Lack of irrigation water	1
4	Lack of fodder availability and low annual productivity	8
5	Non-availability of Sufficient school	7
6	Lack inputs like quality seeds, fertilizer, pesticides etc.	4
7	Lack of market facility	9
8	Lack of medical, educational and transportation facilities	2
9	Medical and health care facilities for milking animals and low productivity	6

Strength, Weakness, Opportunity and Threat (Swot) Analysis Is a Useful Decision Support Tool and detailed below.

**Table 1.6: A SWOT analysis of watershed is presented as below:**

<b>Strength (S)</b>	<b>Weakness(W)</b>
1- Cooperative work culture is traditional activities 2- Close ethnic tier 3- Road at the top as well as outlet of the watershed 4- Hard working man power 5- Resource pool of crop genetic diversity 6- Awareness of farmers about watershed management program 7- Well established CPR maintaining and sharing system 8- good productivity of soil. 9- Social outlook of the community towards landless	1- Poor water management 2- Resource poor farmers 3- Out migration of youth 4- Low and erratic rainfall 5- Fragile geography 6- Fragmented land holding. 7- Heavy infestation of wild animals 8- Problem of fuel and fodder 9- ANNA-PRATHA
<b>Opportunities(O)</b>	<b>Threats (T)</b>
1- Wide range of annual and perennial crops 2- Scope of regular employment opportunity to check out migration 3- Strengthening of existing irrigation system 4- Conducive climate for rainfed crop diversification 5- Good scope for agro-forestry and dry land horticulture. 6- Potential for collective active action and management of CPRs.	1- Prone to adverse climate like drought 2- High market risk 3- Social conflicts owing to PRI & WSM policies and local policies. 4- Weak coordination among line departments. 5- Lack of expertise of implementing agencies in different aspect of WSM.

**Table 1.7: Weightage of the Project**

District	Name of the Project	No. of micro-watersheds proposed to be covered	Proposed project area (ha)	Proposed cost (Rs. in lakh)	Weightage								
					i	ii	iii	iv	v	vi	vii	viii	ix
Jalaun	IWMP-III	05	4200.00	504.00	7.5	5	5	5	0	10	10	5	10
					x	xi	xii	xiii	xiv				
					15	10	10	0	92.50				

# **CHAPTER – 2**

## **GENERAL DESCRIPTION OF PROJECT AREA**



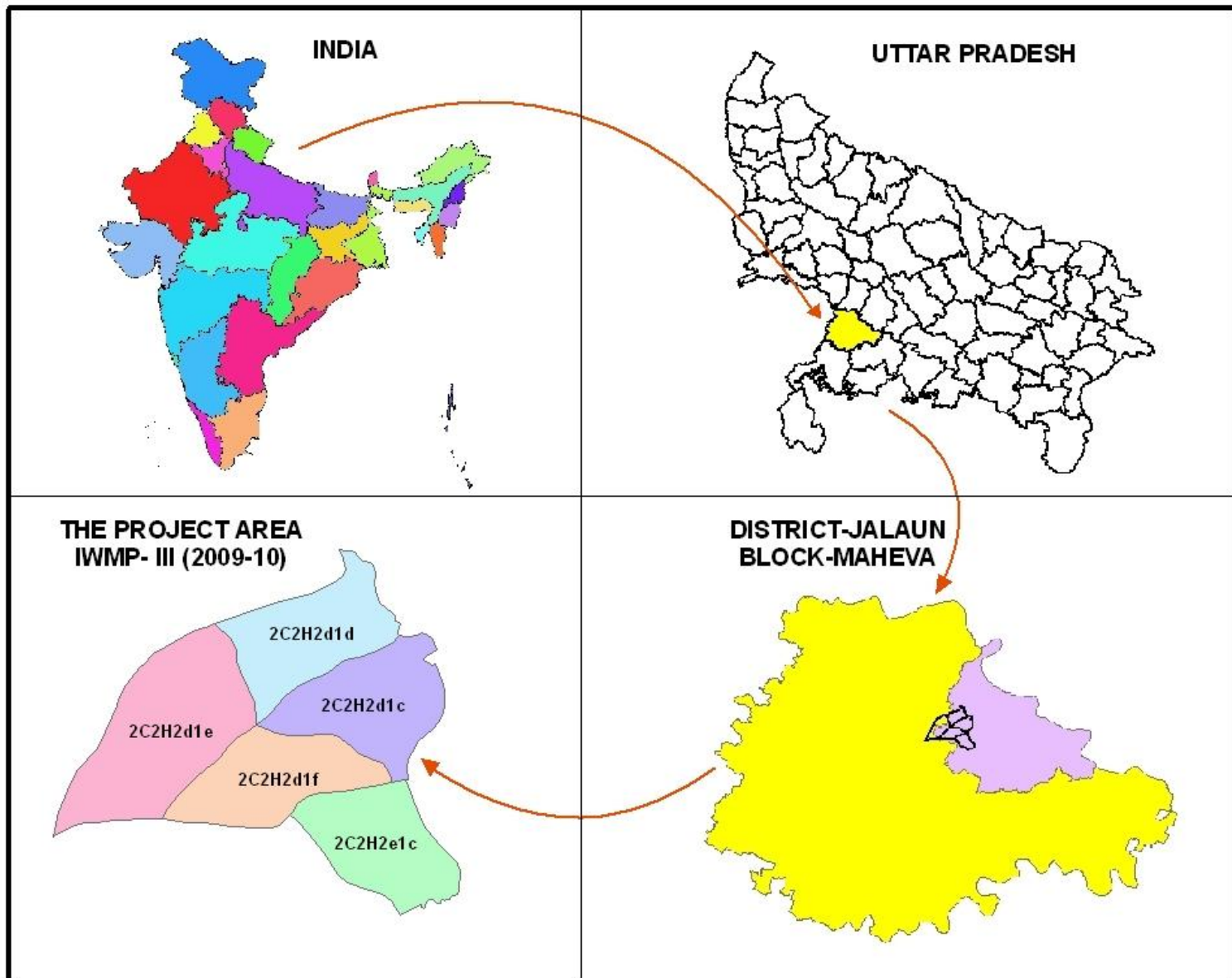
**Location:** - The micro-watershed IWMP- III is situated in Mahewa Block of Jalaun district, U.P. It is located near Kalpi, about 45 km from Orai and 15 km from Mahewa Block, which form NE part of Jalaun district, U.P. The details about micro-watersheds, their geographical location (lat/long), Gram Panchayat, villages and its geographical area, etc. is given in Table 2.1

**Table 2.1: Micro-watershed wise details of location, Gram Panchayat, villages and geographical area of IWMP- III, Jalaun**

S. No.	Name of micro watershed with Code	Latitude / Longitude	Name of GP	Names of villages	Name of Block	Area of village included in MWS	Details of important /approach road with distance km
1	2	3	4	5	6	7	8
1	Atra Kala 2C2H2d1d	26° 11'12" N to 26° 13'41" N 79°27'03" E to 79° 29'54" E	Atra Kala	Atra Kala Jalalpur Churkhi, Sem, Sarsai, Dharampur Ubari	Mahewa	764.70	Kalpi(34) Kalpi(34)  Jalaun(29) Jalaun(18) Kalpi(16)
2	Charsoni 2C2H2d1e	26° 9'35" N to 26° 12'37" N 79°24'33" E to 79° 27'42" E	Charsoni	Charsoni, Nagra, Nagri, Kusmara,	Mahewa	1205.40	Jalaun(13) Jaiaun(13) Jaiaun(13)

				Dharampur Ubari, Itahiya, Panhara, Birahara,			Konch(9) Kalpi(16) Jalaun(11) Jalaun(9) Jalaun(7)
3	Babai 2C2H2d1f	26° 9'50" N to 26° 11'11" N 79°26'15" E to 79° 29'49" E	Babai	Babai,	Mahewa	725.70	Jalaun(13)
4	Sarsai 2C2H2d1c	26° 10'25" N to 26° 12'32" N 79°27'43" E to 79° 30'39" E	Sarsai	Sarsai, Sem,	Mahewa	785.30	Jalaun(18) Jalaun(29)
5	Rinyaivbendepur 2C2H2e1c	26° 8'32" N to 26° 10'27" N 79°28'15" E to 79° 30'55" E	Rinyaivben depur	Rinyaiv bendepur, Sohrapurata, Sultanpur Ubari, Churkhi	Mahewa	718.90	Orai(19)  Jalaun(14) Jalaun(15)  Orai(19)
			<b>Total Area (ha)</b>			<b>4200.00</b>	

## LOCATION MAP



**Area and Landuse:** Total area of the watershed is 5229.43 ha out of which treatable area is 4200 ha. Rainfed area is 4395.10 ha out of which 3660.30 ha is agriculture land. Details of present land-use are given in Table 2.2. Micro-watershed-wise details of the land use/land cover are depicted in Table 2.3. The watershed area is also classified under different Land Capability Classes (LCC) II to VII as detailed in Table 2.4.

**Table 2.2: Present land use of the watershed**

<b>S. No.</b>	<b>Land use</b>	<b>Present (ha)</b>
1.	Agriculture	3660.30
A	Rainfed	4395.10
	i. Crops	3660.30
	ii. Agro-forestry	254.80
B	Irrigated	480.00
	i. Assured	301.80
	ii. Partial	178.20
2.	Wasteland	724.40
A	Afforestation	135.30
B	Pasture	-
C	Untreatable	-
3.	Village land	709.45
	<b>Total</b>	<b>5229.43</b>

**Table 2.3: Land Use/Land Cover Statistics of the Project Area**

<b>S. N.</b>	<b>Name of micro watershed with Code</b>	<b>Name of concern village</b>	<b>Land Use (ha)</b>					
			<b>Agriculture</b>	<b>Wasteland all type</b>	<b>Pasture</b>	<b>Forest</b>	<b>Others</b>	<b>Total</b>
1	Atra Kala 2C2H2d1d	Atra Kala Jalalpur Churkhi, Sem, Sarsai, Dharampur Ubari	667.57	131.80	0	24.50	12.90	952.87
2	Charsoni 2C2H2d1e	Charsoni, Nagra, Nagri, Kusmara, Dharampur Ubari, Itahiya, Panhara, Birahara,	1050.00	208.56	0	38.70	203.30	1500.56
3	Babai 2C2H2d1f	Babai,	683.80	135.20	0	26.20	132.40	977.60
4	Sarsai 2C2H2d1c	Sarsai, Sem,	632.00	125.00	0	23.30	123.20	903.50
5	Rinyaiv- bendepur 2C2H2e1c	Rinyaiv- bendepur, Sohrapurata, Sultanpur Ubari, Churkhi	626.93	123.84	0	22.60	121.53	894.90
	Total		3660.30	724.40	0	135.30	709.43	5229.43

## LAND CAPABILITY CLASSIFICATION (LCC)

Land capability classification(LCC) is crucial for appropriate land use planning consisting of practices like choice of vegetation /crops, tillage practices, use of scientific method of cultivation and desirous conservation practices, Detailed LCC Survey carried out in the watershed brought out the prevailing LCC classes as I,II,III,IV,V, VI and VII.

**Table 2.4: Area under Different Land Capability Class (LCC)**

<b>Land Capability Class</b>	<b>Area (ha)</b>	<b>Main Problem</b>
II	2707.8499	Sheet Erosion
III	1464.0397	Sheet and Rill Erosion
IV	699.2747	Gully Erosion
V	98.3818	High Gully Erosion
VI	76.0509	Sevier Gully Erosion
VII	63.2687	Sevier Gully Erosion due to water logging
Others	128.3784	-
<b>Total</b>	<b>5229.43</b>	

**Physiography:** The micro watershed of the IWMP-III is located at an elevation of 117 to 143 m above mean sea level (msl) and Relief height difference from 9 m to 33 m. Elevation range and relief are given in Table 2.5.

**Table 2.5: Elevation Range, Longitude/ Latitude, Relief Height Difference of the MWS**

S. No.	Watershed Code	Location		Elevation of watershed from Mean Sea level		
		Latitude (N)	Longitude (E)	Highest (M)	Lowest (M)	Relief (M)
1	2C2H2d1d	26° 11'12" N to 26° 13'41" N	79°27'03" E to 79° 29'54" E	142	119	33
2	2C2H2d1e	26° 9'35" N to 26° 12'37" N	79°24'33" E to 79° 27'42" E	143	134	09
3	2C2H2d1f	26° 9'50" N to 26° 11'11" N	79°26'15" E to 79° 29'49" E	143	132	11
4	2C2H2d1c	26° 10'25" N to 26° 12'32" N	79°27'43" E to 79° 30'39" E	143	117	36
5	2C2H2e1c	26° 8'32" N to 26° 10'27" N	79°28'15" E to 79° 30'55" E	143	125	18

**Slope:** Slope map of the micro watershed was prepared using Arc GIS software. Slope was divided into different class viz. 0-0.5%, 0.5-1.0%, 1-3%, 3-5% and more than 5% and data is presented in Table 2.6 below. The maximum slope area, in the micro-watershed, falls in the category were 1-3% (2549.673 ha) followed by 3-5% (1583.265 ha)

**Table 2.6: Slope Range in the Project Area**

Sl. No.	Name of MWS & code	Slope range wise area (ha)						
		0-05%	0.5-1%	1-3%	3-5%	>5%		Others Specify 15-35%
						5-10%	10-15%	
1	2	3	4	5	6	7	8	9
1.	Atra Kala 2C2H2d1d	2.774	15.720	397.332	341.438	192.559	3.791	-
2.	Charsoni 2C2H2d1e	87.598	133.434	891.676	327.594	62.363	0.418	-
3.	Babai 2C2H2d1f	26.851	47.822	470.025	270.967	88.548	0.801	-
4.	Sarsai 2C2H2d1c	3.729	16.868	419.497	331.277	202.273	5.314	0.319
5.	Rinyaiv bendepur 2C2H2e1c	4.416	12.359	366.143	305.989	201.250	6.303	-
	<b>Total</b>	<b>128.368</b>	<b>230.203</b>	<b>2549.673</b>	<b>1583.265</b>	<b>753.993</b>	<b>24.627</b>	<b>0.319</b>



**Climate:** The climate of the region is characterized as arid to semi-arid with average annual rainfall less than 520 mm annually with an average of 35 rainy days. Out of which 85% is received during the monsoon season from July to September. The area received very less rainfall in the winter season. Temperature ranges from as high as 49°C in the May-June to as low as 4°C during December-January. The trend of the rainfall is very erratic and maximum (62%) water goes as runoff.

**Table 2.7: Average monthly rainfall, and Temperature of the last five years**

Month	Year/Rainfall in mm.					
	2006	2007	2008	2009	2010	Average
January	0	0	-	0	0.3	0.06
February	0	3.7	-	0	13.8	3.5
March	-	14	0	0.4	0	2.88
April	0	0	0	-	0	0
May	0	0	0	-	1.7	0.34
June	14.3	77.5	176	0	5.8	54.76
July	252	82.9	310	132	243	204
August	66.4	88.2	135	154	177	124.2
September	36.2	57.1	107	105	216	104.3
October	19.3	0	8.7	109	0	27.3
November	0	-	0	27.5	41.5	13.8
December	0	-	0	4.8	1	1.16

## Agro-Climate Conditions

The Agro-Climate condition of the project area of JALAUN district is briefly described in Table 2.8 below.

**Table- 2.8: DETAILS OF AGRO-CLIMATE CONDITIONS**

S. No.	Name of the District	Name of the Project	Name of the Agro-climatic zone covers project area	Area in ha	No. of the villages	Major soil types		Topo-graphy	Average rainfall in mm (preceding 5 years average)	Major crops	
						a)Type	b) Area in ha			a) Name	b) Area in ha
1.	JALAUN	I.W.M.P. - III	Bundel-khand Zone-8	4200	20	Rakar	3570	Undulating	536.30	<b>Kharib:</b> Jowar, Til, Arhar	2370
						Kabar				<b>Rabi:</b> Wheat, Gram, Mustard, Masoor	2500
						Mar				<b>Total</b>	<b>4870</b>
						Padwa					

Source: PPR 2009-10

The Wind velocity of the Project area ranges from 4-17 Km/hr. The open pan evaporation varied in the range of 0.5 to 20 mm/day during the year with average of about 5 mm/day. Average relative humidity varied in the range of 25% to 98%. The details of flood and drought in the project area have been given in Table 2.9.

**Table 2.9: Details of Flood and Drought in the Project Area (IWMP-III, Jalaun)**

Name of Micro Watershed	Particulars	Villages	Periodicity		Not affected
			Annual	Any other (please specify)	
Atra Kala 2C2H2d1d Charsoni 2C2H2d1e Babai 2C2H2d1f Sarsai 2C2H2d1c Rinyaivbendepur 2C2H2e1c	Flood	No. of villages	-	-	Not affected
		Name(s) of villages	-	-	
	Drought	No. of villages: 20			
		Name(s) of villages: Atrakala, Babai, Birahara, Charsoni, Churkhi, Jalalpur Churkhi, Dharampur Ubari, Itahiya, Kusmara, Mahiya Kalampur, Nagra, Nagri, Nandi Ubari, Panhara, Rinyaivbendepur, Sadopura, Sarsai, Sem, Sohrapurata, Sultanpur Ubari		Alternate after every 2-3 years	

## Watershed Characteristics

### Shape and Size

The shape of watershed (IWMP -III, JALAUN) is more or less rectangle in shape. The direction of the slope in the project area is north-west to south-east. The shape and size of the microwatershed is given in Table 2.10.

**Table- 2.10: SHAPE AND SIZE OF WATERSHED**

S. No.	Micro watershed Code	Area (ha)	Shape	Approximate size (m)	
				Length	Width
1	Atra Kala 2C2H2d1d	764.70	Rectangular	4608.30	4829.14
2	Charsoni 2C2H2d1e	1205.40	Rectangular	5552.01	5295.53
3	Babai 2C2H2d1f	725.70	Rectangular	2728.59	6242.29
4	Sarsai 2C2H2d1c	785.30	Triangular	4951.47	3946.45
5	Rinyaivbendepur 2C2H2e1c	718.90	Elongate	4314.15	3922.11

### Geomorphology:

The watershed is located in the North-East corner of the JALAUN district. The entire watershed is topographically divided into three major landforms. Accordingly, the soils of watershed can be grouped

into three major categories, Such as Plain land, Moderate land, and Ravinous land. The annual soil erosion in the project area is 20 to 25 tons/year as detailed below.

**Table- 2.11: DETAIL OF SOIL EROSION (I.W.M.P-III), JALAUN**

<b>S. No.</b>	<b>Name of the Project</b>	<b>Soil Erosion (Ha)</b>				<b>Run-Off (mm/yr)</b>	<b>Average Soil Loss in tons/ha/yr</b>	<b>Wind Erosion</b>
		<b>Sheet</b>	<b>Rill</b>	<b>Gully</b>	<b>Total</b>			
1	IWMP – III	2121.89	1603.20	475.00	4200.00	320	21 to 25	N.A.

# **CHAPTER-3**

## **BASELINE SURVEY**

## **SOCIO-ECONOMIC ANALYSIS**

In the proposed watershed management plan of proper blending of bio- engineering measures will be applied. Based on the results of studies conducted in this region, it is estimated that more than 50% of the watershed area will be treated and consequently the soil loss and runoff from the area is expected to be reduced by 40% and 65% respectively. The proposed land use plan will improve the land utilization index and crop diversification index significantly as compared to the existing one. It will help in maintaining ecosystem integrity on sustained basis along with improving the livelihood security of the farming community.

Economic analysis of the project is carried out by taking direct benefits and costs, considering 30 year project life at 10% discount rate. For the purpose of economic analysis, whole watershed development plan is divided into four sectors namely agriculture (rainfed and irrigated), pure horticulture, agro-horticulture and silvi pastoral (Silvi-Pastoral + sericulture). Net present value (NPV), Benefit Cost Ratio (BCR), Payback Period (PBR) and internal rate of return (IRR) criteria is employed to judge the economic efficiency of each enterprise, sector and project as a whole.

Details of the population of the micro watershed are given in Table 3.1. About 25% population is scheduled caste. Due to hard life and low seasonal income in the area a large number of people migrate to large cities where they work as daily labour / rickshaw puller.

**Table 3.1: Demographic Features in the project area IWMP - III**

SN	Name of Micro Watershed	Name of village	Total Population			Population of SC/ST		
			Total	Male	Female	Total	Male	Female
1	2	3	4	5	6	7	8	9
1	Atra Kala 2C2H2d1d	Atra Kala	1530	875	655	547	307	240
		Jalalpur Churkhi	303	174	129	303	174	129
		Sem	130	82	48	130	82	48
		Dharampur Ubari						
		Charsoni	3900	2100	1800	549	301	248
2	Charsoni 2C2H2d1e	Nagra	359	192	170	39	20	19
		Nagri	721	380	341	144	78	66
		Kusmara						
		Itahiya	930	680	300	272	142	130
		Panhara	388	224	164	56	32	24
		Birahara						
3	Babai 2C2H2d1f	Babai	5490	2907	2583	999	532	467
4	Sarsai 2C2H2d1c	Sarsai	2331	1270	1061	678	366	312
5	Rinyaivbendepur 2C2H2e1c	Rinyaivbendepur	796	425	371	87	48	39
		Sohrapurata	653	355	298	37	19	18
		Sultanpur Ubari						
		Churkhi	3788	2075	1713	796	453	343
			<b>21319</b>	<b>11739</b>	<b>9633</b>	<b>4637</b>	<b>2554</b>	<b>2083</b>



**Table 3.2: Details of Employment Generation**

S. No.	Name Of District	NO. of the villages	Wage employment										Self employment				
			No. of mandays					No. of beneficiaries					No. of beneficiaries				
			SC	ST	Others	Wo-men	Total	SC	ST	Others	Wo-men	Total	SC	ST	Others	Women	Total
1-	JALAUN -III	20	0.567	-	1.247	0.454	2.268	665	-	1195	102	1962	78	-	92	24	194

**Table 3.3: Details of seasonal migration from Project area: Pre-project status**

Sl. No.	Names of Watershed	Name of village	No. of persons migrating	No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs. in lakh)
1	2	3	4	5	6		7	8
1	Atra Kala 2C2H2d1d	Atra Kala	225	165 to 190	Lack of employment, less wages, Higher wages outside	300-500 km	Labour	0.25 to 0.50
		Jalalpur Churkhi	75	165 to 190		300-500 km	Labour	0.25 to 0.50
		Sem	45	165 to 190		300-500 km	Labour	0.25 to 0.50
		Dharampur Ubari	75	165 to 190		300-500 km	Labour	0.25 to 0.50
2	Charsoni 2C2H2d1e	Charsoni	303	165 to 190		300-500 km	Labour	0.25 to 0.50
		Nagra	36	165 to 190		300-500 km	Labour	0.25 to 0.50
		Nagri	48	165 to 190		300-500 km	Labour	0.25 to 0.50
		Kusmara	78	165 to 190		300-500 km	Labour	0.25 to 0.50

		Itahiya	43	165 to 190		300-500 km	Labour	0.25 to 0.50
		Panhara	20	165 to 190		300-500 km	Labour	0.25 to 0.50
		Birahara	69	165 to 190		300-500 km	Labour	0.25 to 0.50
3	Babai 2C2H2d1f	Babai	315	165 to 190		300-500 km	Labour	0.25 to 0.50
4	Sarsai 2C2H2d1c	Sarsai	215	165 to 190		300-500 km	Labour	0.25 to 0.50
5	Rinyaiv bendepur 2C2H2e1c	Rinyaivbendepur	91	165 to 190		300-500 km	Labour	0.25 to 0.50
		Sohrapurata	60	165 to 190		300-500 km	Labour	0.25 to 0.50
		Sultanpur Ubari	105	165 to 190		300-500 km	Labour	0.25 to 0.50
		Churkhi	345	165 to 190	300-500 km	Labour	0.25 to 0.50	
Total of Project								

**Table 3.4: Typical soil profile of the watershed (dominant soil)**

Horizon	Dpth (cm)	Morphology
A	0-150	Yellow & Black in colour, clay content 28%, with free CaCO <sub>3</sub> , sticky when moist, hard when dry, high elasticity, fissures and cracks, occasional occurrence of free calcium carbonate granules pH 8.0-8.5
B	150-600	Whitish-Yellow in colour, high effervescence with dilute HCl, very fine mixed with free CaCO <sub>3</sub> and granules, very hard when dry, compact & indurate hard pan, restricting development of root and downward water transmission (locally called as Point soil)
C	> 600	Red and white sand

## Soil Texture:

Light brown loam to clay, generally structure less, average in water holding capacity and organic matter, moderately alkaline, restricted drainage, surface soil poor in lime content but the middle layer is calcareous, medium in soluble salts. Carbonates and sulphates practically absent.

**Table 3.5: Details of Soil texture in IWMP-III, Jalaun**

Sl. No.	MWS Project	Area in different Soil Group (ha)				
		Light textured soil (sand, loamy sand)	Medium textured soil (Sandy loam, loam, silt loam)	Heavy textured soil (Clayey)	Treatable Area	Others specify
1	Atra Kala 2C2H2d1d	22.2	124.3	618.2	764.70	Rakar, Kabar, Mar, Padwa
2	Charsoni 2C2H2d1e	29.4	230.6	945.4	1205.40	Rakar, Kabar, Mar, Padwa
3	Babai 2C2H2d1f	21.8	110.5	593.4	725.70	Rakar, Kabar, Mar, Padwa
4	Sarsai 2C2H2d1c	22.3	153.0	610.0	785.30	Rakar, Kabar, Mar, Padwa
5	Rinyaiv bendepur 2C2H2e1c	23.4	148.6	546.9	718.90	Rakar, Kabar, Mar, Padwa
		119.1	767.0	3313.9	<b>4200.00</b>	

**Table 3.6: Soil characteristics and fertility status**

<b>Soil proterties</b>	<b>LCC II</b>	<b>LCC IV</b>	<b>LCC VII/VIII</b>
Sand (%)	47.04	75.04	73.04
Silt (%)	24.6	18.6	20.3
Clay (%)	28.36	6.36	6.66
Texture	Sandy clay loan	Loamy sand	Loamy sand
pH (1:2)	8.41	8.67	6.85
EC (ds m <sup>-1</sup> )	0.47	0.12	0.16
Organic carbon (%)	0.37	0.12	0.19
Available N (kg ha <sup>-1</sup> )	316	173	224
Available P (kg ha <sup>-1</sup> )	29	15	5-8
Available K (kg ha <sup>-1</sup> )	189	325	230

Values correspond to soil fraction <2mm.

**Table 3.7: Details of land holding pattern**

1	2	3	4	5	6	7		
S. No.	Names MWS with code	Name of Village	Type of Farmer	No. of households	No. of BPL households	Land holding (ha)		
						Irrigated	Rainfed	Total
1	Atra Kala/ 2C2H2d1d	Atra Kala Jalalpur Churkhi, Sem, Sarsai, Dharampur Ubari	(i) Large farmer	32	412			
			(ii) Small farmer	627		65.2	322.4	387.6
			(iii) Marginal farmer	302		112.6	280.9	393.5
			(iv) Landless person	110		0	0	0
			Sub-Total	1071	412	177.8	603.3	781.1

1	2	3	4	5	6	7		
S. No.	Names MWS with code	Name of Village	Type of Farmer	No. of households	No. of BPL households	Land holding (ha)		
						Irrigated	Rainfed	Total
2	Charsoni/ 2C2H2d1e	Charsoni, Nagra, Nagri, Kusmara, Dharampur Ubari, Itahiya, Panhara, Birahara	(i) Large farmer	52	224			
			(ii) Small farmer	2244		93	311.3	404.3
			(iii) Marginal farmer	185		188.8	632	820.8
			(iv) Landless person	39		0	0	0
			Sub-Total	2520	224	281.8	943.3	1225

1	2	3	4	5	6	7		
S. No.	Names MWS with code	Name of Village	Type of Farmer	No. of households	No. of BPL households	Land holding (ha)		
						Irrigated	Rainfed	Total
1	Babai /2C2H2d1f	Babai	(i) Large farmer	67	326			
			(ii) Small farmer	2394		57.4	192.1	249.5
			(iii) Marginal farmer	226		116.5	390.0	506.5
			(iv) Landless person	100		0.0	0.0	0.0
			Sub-Total	2787	326	173.9	582.1	756.0

1	2	3	4	5	6	7		
S. No.	Names MWS with code	Name of Village	Type of Farmer	No. of households	No. of BPL households	Land holding (ha)		
						Irrigated	Rainfed	Total
1	Sarsai /2C2H2d1c	Sarsai, Sem	(i) Large farmer	98	210			
			(ii) Small farmer	3103		61.5	205.8	267.3
			(iii) Marginal farmer	159		124.8	417.9	542.7
			(iv) Landless person	51		0.0	0.0	0.0
			Sub-Total	3411	210	186.3	623.7	810.0

1	2	3	4	5	6	7		
S. No.	Names MWS with code	Name of Village	Type of Farmer	No. of house holds	No. of BPL households	Land holding (ha)		
						Irrigated	Rainfed	Total
1	Rinyaivbendepur 2C2H2e1c	Rinyaiv bendepur, Sohrapurata, Sultanpur Ubari, Churkhi	(i) Large farmer	26	72			
			(ii) Small farmer	1899		55.4	185.5	240.9
			(iii) Marginal farmer	52		112.5	376.6	489.1
			(iv) Landless person	20		0.0	0.0	0.0
			Sub-Total	1997	72	167.9	562.1	730.0

**Table 3.8: Major Crops, their Productivity and Production**

Due to mono cropping, Anna Pratha and non manageable condition of mar and kabar soil are the specific characteristics of the district. Mono cropping is the most common farming system. Mixed farming in the combination of agriculture and live stock is also quite common in all the areas. Micro-watershed wise grown crops, their productivity and production are given below:

**Name of MWS    Atra Kala 2C2H2d1d    IWMP- III        District- Jalaun**

**Area in ha**

S. No.	Crop.	Area in(ha)		Productivity q/ha		Production (q)				Remarks
						Grain/Main product		Fodder/Fuel/other Product		
		Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed	
A	Kharif									
1	Jowar	0.00	60.24	0.00	8.00	0.00	481.92	0.00	722.88	
2	Til	0.00	92.35	0.00	1.47	0.00	135.75	0.00	203.63	
3	Arhar	0.00	72.30	0.00	7.87	0.00	569.00	0.00	853.50	2010.85
4	Urd/Mung	0.00	90.88	0.00	5.08	0.00	461.67	0.00	230.84	
5	vegetables (Cropwise)	0.00	70.45	0.00	220.40	0.00	15527.18	0.00	0.00	
6	Fodder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
..	Other, specify	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total		386.22				17175.53		2010.85	
B	Rabi									
1	Wheat	42.00	140.20	25.00	18.00	1050.00	2523.60	1575.00	3785.40	
2	Barley	0.00	4.35	0.00	10.47	0.00	45.54	0.00	68.32	
3	Masoor	0.00	126.80	0.00	4.80	0.00	608.64	0.00	608.64	
4	Gram	0.00	128.20	0.00	6.56	0.00	840.99	0.00	1261.49	
5	Pea	0.00	40.26	0.00	10.43	0.00	419.91	0.00	419.91	
6	Mustard	0.00	24.00	0.00	4.26	0.00	102.24	0.00	102.24	
7	Potato	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	vegetables (Cropwise)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	Fodder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
..	Other, specify	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total	42.00	463.81				4540.93	1575.00	6246.00	
C	Zaid									
	Nil	0		0		0		0		
	Cultivable Area	667.57	Cropping Intensity			133.62				



**Name of MWS Charsoni 2C2H2d1e IWMP- III District- Jalaun**

Area in ha

S. No .	Crop.	Area in(ha)		Productivity q/ha		Production (q)				Remarks
						Grain/Main product		Fodder/Fuel/other Product		
		Irri-gated	Rain-fed	Irri-gated	Rain-fed	Irri-gated	Rain-fed	Irrigated	Rainfed	
A	Kharif									
1	Jowar	0.00	112.35	0.00	8.00	0.00	898.80	0.00	1348.20	
2	Til	0.00	120.30	0.00	1.47	0.00	176.84	0.00	265.26	
3	Arhar	0.00	94.50	0.00	7.87	0.00	743.72	0.00	1115.57	2921.26
4	Urd/Mung	0.00	75.68	0.00	5.08	0.00	384.45	0.00	192.23	
5	vegetables (Cropwise)	0.00	55.62	0.00	220.40	0.00	12258.65	0.00	0.00	
6	Fodder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
..	Other, specify	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total		458.45				14462.46		2921.26	
B	Rabi									
1	Wheat	72.00	190.25	25.00	18.00	1800.00	3424.50	2700.00	5136.75	
2	Barley	0.00	5.69	0.00	10.47	0.00	59.57	0.00	89.36	
3	Masoor	0.00	175.80	0.00	4.80	0.00	843.84	0.00	843.84	
4	Gram	0.00	144.23	0.00	6.56	0.00	946.15	0.00	1419.22	
5	Pea	0.00	60.23	0.00	10.43	0.00	628.20	0.00	628.20	
6	Mustard	0.00	80.23	0.00	4.26	0.00	341.78	0.00	341.78	
	Total	72.00	656.43				6244.04	2700.00	8459.15	
C	Zaid									
	Nil	0		0		0		0		
	Cultivable Area	1050	Cropping Intensity			113.04				

Name of MWS Babai 2C2H2d1f

IWMP- III District- Jalaun

Area in ha

S. No .	Crop.	Area in(ha)		Productivity q/ha		Production (q)				Remarks
						Grain/Main product		Fodder/Fuel/other Product		
		Irri-gated	Rain-fed	Irri-gated	Rain-fed	Irri-gated	Rainfed	Irrigated	Rainfed	
A	Kharif									
1	Jowar	0.00	55.65	0.00	8.00	0.00	445.20	0.00	667.80	
2	Til	0.00	90.30	0.00	1.47	0.00	132.74	0.00	199.11	
3	Arhar	0.00	120.20	0.00	7.87	0.00	945.97	0.00	1418.96	2452.45
4	Urd/Mung	0.00	65.58	0.00	5.08	0.00	333.15	0.00	166.57	
5	vegetables (Cropwise)	0.00	50.26	0.00	220.40	0.00	11077.30	0.00	0.00	
6	Fodder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
..	Other, specify	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total		381.99				12934.37		2452.45	
B	Rabi									
1	Wheat	32.00	180.23	25.00	18.00	800.00	3244.14	1200.00	4866.21	
2	Barley	0.00	5.69	0.00	10.47	0.00	59.57	0.00	89.36	
3	Masoor	0.00	140.10	0.00	4.80	0.00	672.48	0.00	672.48	
4	Gram	0.00	92.60	0.00	6.56	0.00	607.46	0.00	911.18	
5	Pea	0.00	20.48	0.00	10.43	0.00	213.61	0.00	213.61	
6	Mustard	0.00	18.89	0.00	4.26	0.00	80.47	0.00	80.47	
	Total	32.00	457.99				4877.73	1200.00	6833.31	
C	Zaid									
	Nil	0		0		0		0		
	Cultivable Area	683.8	Cropping Intensity			127.52				

Name of MWS Sarsai 2C2H2d1c

IWMP- III

District- Jalaun

Area in ha

S. No.	Crop.	Area in(ha)		Productivity q/ha		Production (q)				Remarks
						Grain/Main product		Fodder/Fuel/other Product		
		Irri-gated	Rain-fed	Irri-gated	Rain-fed	Irri-gated	Rainfed	Irrigated	Rainfed	
A	Kharif									
1	Jowar	0.00	52.24	0.00	8.00	0.00	417.92	0.00	626.88	
2	Til	0.00	122.58	0.00	1.47	0.00	180.19	0.00	270.29	
3	Arhar	0.00	90.58	0.00	7.87	0.00	712.86	0.00	1069.30	2125.29
4	Urd/Mung	0.00	62.53	0.00	5.08	0.00	317.65	0.00	158.83	
5	vegetables (Cropwise)	0.00	50.26	0.00	220.40	0.00	11077.30	0.00	0.00	
6	Fodder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
..	Other, specify	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total		378.19				12705.93		2125.29	
B	Rabi									
1	Wheat	40.00	122.30	25.00	18.00	1000.00	2201.40	1500.00	3302.10	
2	Barley	0.00	4.50	0.00	10.47	0.00	47.12	0.00	70.67	
3	Masoor	0.00	110.23	0.00	4.80	0.00	529.10	0.00	529.10	
4	Gram	0.00	120.20	0.00	6.56	0.00	788.51	0.00	1182.77	
5	Pea	0.00	20.48	0.00	10.43	0.00	213.61	0.00	213.61	
6	Mustard	0.00	18.89	0.00	4.26	0.00	80.47	0.00	80.47	
	Total	40.00	396.60				3860.21	1500.00	5378.72	
C	Zaid									
	Nil	0		0		0		0		
	Cultivable Area	632	Cropping Intensity			128.92				

Name of MWS Rinyaivbendepur 2C2H2e1c

IWMP- III District- Jalaun

Area in ha

S. No.	Crop.	Area in(ha)		Productivity q/ha		Production (q)				Remarks
						Grain/Main product		Fodder/Fuel/other Product		
		Irri-gated	Rain-fed	Irri-gated	Rain-fed	Irri-gated	Rainfed	Irrigated	Rainfed	
A	Kharif									
1	Jowar	0.00	50.15	0.00	8.00	0.00	401.20	0.00	601.80	
2	Til	0.00	118.35	0.00	1.47	0.00	173.97	0.00	260.96	
3	Arhar	0.00	80.25	0.00	7.87	0.00	631.57	0.00	947.35	1963.78
4	Urd/Mung	0.00	60.50	0.00	5.08	0.00	307.34	0.00	153.67	
5	vegetables (Cropwise)	0.00	50.26	0.00	220.40	0.00	11077.30	0.00	0.00	
6	Fodder	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
..	Other, specify	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	Total		359.51				12591.39		1963.78	
B	Rabi									
1	Wheat	36.50	120.30	25.00	18.00	912.50	2165.40	1368.75	3248.10	
2	Barley	0.00	3.59	0.00	10.47	0.00	37.59	0.00	56.38	
3	Masoor	0.00	130.26	0.00	4.80	0.00	625.25	0.00	625.25	
4	Gram	0.00	102.30	0.00	6.56	0.00	671.09	0.00	1006.63	
5	Pea	0.00	18.00	0.00	10.43	0.00	187.74	0.00	187.74	
6	Mustard	0.00	18.89	0.00	4.26	0.00	80.47	0.00	80.47	
	Total	36.50	393.34				3767.53	1368.75	5204.57	
C	Zaid									
	Nil	0		0		0		0		
	Cultivable Area	626.93	Cropping Intensity			125.91				

## Summary

It was found that the productivity of wheat, Gram, Jowar, Arhar and Masoor are mainly grown in the project area. Overall cropping intensity of the project area is 125.80%.

### 3.9 Horticulture Status

There is no systematic agroforestry and orchard in the project area, however scattered trees are found in the study area. The details are given below:

**Table 3.9: Horticulture Status**

S. N.	Name of micro watershed with code	Name of village	Name of Important horticultural crop						
			Whole Fruit Crop				Scattered Fruit Crop		
			Name	Area ha.	Productivity qtl/ha	Production qtls	No.	Productivity qtl/No.	Production Qtls
1	2	3	4	5	6		7	8	
1	Atra Kala 2C2H2d1d	Atra Kala Jalalpur Churkhi, Sem, Sarsai, Dharampur Ubari	Nil	Nil	Nil	Nil	25	2.5	60
2	Charsoni 2C2H2d1e	Charsoni, Nagra, Nagri, Kusmara, Dharampur Ubari, Itahiya, Panhara,	Nil	Nil	Nil	Nil	42	2.8	90

		Birahara,							
3	Babai 2C2H2d1f	Babai,	Nil	Nil	Nil	Nil	23	2.7	54
4	Sarsai 2C2H2d1c	Sarsai, Sem,	Nil	Nil	Nil	Nil	22	2.6	49
5	Rinyaivbendepur 2C2H2e1c	Rinyaiv bendepur, Sohrapurata, Sultanpur Ubari, Churkhi	Nil	Nil	Nil	Nil	20	2.3	42
<b>Total of project</b>							132		295

**Table 3.10: Forest, Vegetative Cover/Grass Land**

S. No.	Name & Code of Micro watershed	Name of Village	Forest (Area ha)			Grass Land (Area ha)		Other vegetative cover (Area ha)	
			Res-erve	Gram Samaj (Natural/Planted)	Total	Gram Samaj	Private	Gram Samaj	Private
1	2	3	4	5	6	7		8	9
1	Atra Kala 2C2H2d1d	Atra Kala Jalalpur Churkhi, Sem, Sarsai, Dharampur Ubari	24.50	0.00	24.5	-	-	-	-
2	Charsoni 2C2H2d1e	Charsoni, Nagra, Nagri, Kusmara, Dharampur Ubari, Itahiya, Panhara, Birahara,	38.7	14.5	53.2	-	-	-	-
3	Babai 2C2H2d1f	Babai,	26.2	6.12	32.1	-	-	-	-
4	Sarsai 2C2H2d1c	Sarsai, Sem,	23.3	7.2	30.5	-	-	-	-
5	Rinyaivbende pur 2C2H2e1c	Rinyaiv bendepur, Sohrapurata, Sultanpur Ubari, Churkhi	22.6	9.4	32.0	-	-	-	-
	Total of project		135.3	37.22	172.3	-	-	-	-

## Livestock Population

Desi cows and buffaloes are mostly found in the project area. The details of livestock population are given below:

**Table 3.11: Livestock Population in IWMP- III, Jalaun**

All Figure in No.

S. N.	Name of Micro watershed with code.	Name of Village	Cow		Buffalow		Ox/ Bull	Goat	Sheep	Pigg-eries	Poultry			Other
			Desi	Crossed	Desi	Murrah					Broiler	Layers	Total	Specify
1	2	3	4		5	6	7	7	8	9	10	11	12	13
1	Atra Kala 2C2H2d1d	Atra Kala	360	60	135	20	10	450	250	100	-	-	-	6
		Jalalpur Churkhi	540	56	640	64	20	800	480	210	-	-	-	10
		Sem	300	32	436	45	32	600	320	164	-	-	-	9
		Dharampur Ubari	-	-	-	-	-	-	-	-	-	-	-	
2	Charsoni 2C2H2d1e	Charsoni	430	64	236	44	-	-	212	90	-	-	-	8
		Nagra	210	22	460	49	20	700	336	186	-	-	-	30
		Nagri	-	-	-	-	-	-	-	-	-	-	-	
		Kusmara	-	-	-	-	-	-	-	-	-	-	-	
		Itahiya	220	21	430	46	22	780	360	358	-	-	-	10
		Panhara	280	28	425	51	15	600	200	80	-	-	-	7
		Birahara	-	-	-	-	-	-	-	-	-	-		
3	Babai 2C2H2d1f	Babai	340	32	786	80	30	1000	400	756	-	-	-	6
4	Sarsai 2C2H2d1c	Sarsai	310	30	467	47	28	1400	856	859	-	-	-	8
5	Rinyaiv bendepur 2C2H2e1c	Rinyaiv-bendepur	330	36	830	90	26	1200	695	852	-	-	-	12
		Sohrapurata	-	-	-	-	-	-	-	-	-	-	-	
		Sultanpur Ubari	-	-	-	-	-	-	-	-	-	-	-	
		Churkhi	-	-	-	-	-	-	-	-	-	-	-	
	Total		3320	381	4845	536	203	7530	4109	3655				106



**Table 3.12: Details of Livestock Productivity**

SN	Name of Micro watershed with code	Name of Village	Milk Production (Liter Per day)				Goatry	Poultry		Piggeries weight Kg/Pig	
			Cows		Buffalos			Weight in (Kg/goat)	Broiler Weight (in Kg/ Brl)		Layers No. of eggs/day
			Desi	Crossed	Desi	Murrah					
1	2	3	4	5	6	7		9	10	11	
1	Atra Kala 2C2H2d1d	Atra Kala	1.4	2.5	2.1	5.5	25	-	-	-	
		Jalalpur Churkhi	1.3	2.6	2.6	5.6	28	-	-	-	
		Sem	1.5	" "	2.4	5.1	26	-	-	-	
		Dharampur Ubari	-	-	-	-	-	-	-	-	
2	Charsoni 2C2H2d1e	Charsoni	1.4	2.7	2.9	5	23	-	-	-	
		Nagra	1.2	" "	2.7	5.6	21	-	-	-	
		Nagri	-	-	-	-	-	-	-	-	
		Kusmara	-	-	-	-	-	-	-	-	
		Itahiya	1.8	" "	2.1	5.6	24	-	-	-	
		Panhara	1.6	" "	2.3	5.1	23	-	-	-	
		Birahara	-	-	-	-	-	-	-	-	
3	Babai 2C2H2d1f	Babai	1.4	2.6	2.5	5.8	27	-	-	-	
4	Sarsai 2C2H2d1c	Sarsai	1.6	2.8	2.6	5.1	28	-	-	-	
5	Rinyaiv bendepur 2C2H2e1c	Rinyaiv-bendepur	1.2	2.7	2.1	5.3	24	-	-	-	
		Sohrapurata	-	-	-	-	-	-	-	-	
		Sultanpur Ubari	-	-	-	-	-	-	-	-	
		Churkhi	-	-	-	-	-	-	-	-	
	Average		1.8	2.5	2.3	5.8	23.5	-	-	-	

### SUMMARY OF LIVELIHOOD

S. No.	Names of the villages	Existing livelihood activities	Possible livelihood interventions under the project	Current status of migration (No. of people)	Main reasons for migration
1-		1-Dairy 2-Agriculture	1-Horticulture 2-Vegetable Production 3- Fisheries 4- Vermi Culture 5- Poultry 6- Food Processing	2148	For Better Livelihood

**Table 3.13: Ground Water Status**

S. No.	Name & Code of Micro watershed	Name of Village	Depth of Ground Water Table (Below Ground level) in Meter		No. of Observation well	Remarks
			Before Monsoon	After Monsoon		
1	2	3	4	5	6	7
1	Atra Kala 2C2H2d1d	Atra Kala Jalalpur Churkhi Sem Dharampur Ubari	Avg. 19.50	Avg. 17.50	5	
2	Charsoni 2C2H2d1e	Charsoni Nagra Nagri Kusmara Birahara Itahiya Panhara	Avg. 17.40	Avg. 15.40	7	
3	Babai 2C2H2d1f	Babai	Avg. 16.20	Avg. 14.00	7	
4	Sarsai 2C2H2d1c	Sarsai	Avg. 16.80	Avg. 14.50	5	
5	Rinyaiv bendepur 2C2H2e1c	Rinyaiv- bendepur Sohrapurata Sultanpur Ubari Churkhi	Avg. 19.25	Avg. 17.25	7	

**Table 3.14: Details of infrastructure in the project areas**

<b>S N</b>	<b>Name of Micro Watershed</b>		<b>Parameters</b>		<b>Status</b>			
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>		<b>5</b>			
1	Atra Kala 2C2H2d1d	Atra Kala	(i)	Name of villages connected to the main road by an all-weather road				
		Jalalpur Churkhi	(ii)	Village's Name provided with electricity				
		Sem	(iii)	No. of households without access to drinking water				
		Sarsai	(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P)	(S)	(HS)	(VI)
		Dharampur Ubari	(v)	Names of villages with access to Primary Health Centre				
			(vi)	Names of villages with access to Veterinary Dispensary				
			(vii)	Names of villages with access to Post Office				
			(viii)	Names of villages with access to Banks				
			(ix)	Names of villages with access to Markets/ mandis				
			(x)	Names of villages with access to Agro-industries				
			(xi)	Total quantity of surplus milk deficit				
			(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U)	(S)	(PA)	(O)
			(xiii)	Name of villages with access to Anganwadi Centre				
			(xiv)	Any other facilities with names of villages (please specify)				

<b>S N</b>	<b>Name of Micro Watershed</b>		<b>Parameters</b>		<b>Status</b>			
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>		<b>5</b>			
2	Charsoni 2C2H2d1e	Charsoni	(i)	Name of villages connected to the main road by an all-weather road				
		Nagra	(ii)	Village's Name provided with electricity				
		Nagri	(iii)	No. of households without access to drinking water				
		Kusmara	(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P)	(S)	(HS)	(VI)
		Dharampur Ubari	(v)	Names of villages with access to Primary Health Centre				
		Itahiya	(vi)	Names of villages with access to Veterinary Dispensary				
		Panhara	(vii)	Names of villages with access to Post Office				
		Birahara	(viii)	Names of villages with access to Banks				
			(ix)	Names of villages with access to Markets/ mandis				
			(x)	Names of villages with access to Agro-industries				
			(xi)	Total quantity of surplus milk deficit				
			(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U)	(S)	(PA)	(O)
			(xiii)	Name of villages with access to Anganwadi Centre				
			(xiv)	Any other facilities with names of villages (please specify)				

<b>S N</b>	<b>Name of Micro Watershed</b>		<b>Parameters</b>		<b>Status</b>			
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>		<b>5</b>			
3	Babai 2C2H2d1f	Babai	(i)	Name of villages connected to the main road by an all-weather road				
			(ii)	Village's Name provided with electricity				
			(iii)	No. of households without access to drinking water				
			(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P)	(S)	(HS)	(VI)
			(v)	Names of villages with access to Primary Health Centre				
			(vi)	Names of villages with access to Veterinary Dispensary				
			(vii)	Names of villages with access to Post Office				
			(viii)	Names of villages with access to Banks				
			(ix)	Names of villages with access to Markets/ mandis				
			(x)	Names of villages with access to Agro-industries				
			(xi)	Total quantity of surplus milk deficit				
			(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U)	(S)	(PA)	(O)
			(xiii)	Name of villages with access to Anganwadi Centre				
			(xiv)	Any other facilities with names of villages (please specify)				

<b>S N</b>	<b>Name of Micro Watershed</b>		<b>Parameters</b>		<b>Status</b>			
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>		<b>5</b>			
4	Sarsai 2C2H2d1c	Sarsai	(i)	Name of villages connected to the main road by an all-weather road				
		Sem	(ii)	Village's Name provided with electricity				
			(iii)	No. of households without access to drinking water				
			(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P)	(S)	(HS)	(VI)
			(v)	Names of villages with access to Primary Health Centre				
			(vi)	Names of villages with access to Veterinary Dispensary				
			(vii)	Names of villages with access to Post Office				
			(viii)	Names of villages with access to Banks				
			(ix)	Names of villages with access to Markets/ mandis				
			(x)	Names of villages with access to Agro-industries				
			(xi)	Total quantity of surplus milk deficit				
			(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U)	(S)	(PA)	(O)
			(xiii)	Name of villages with access to Anganwadi Centre				
			(xiv)	Any other facilities with names of villages (please specify)				

<b>S N</b>	<b>Name of Micro Watershed</b>		<b>Parameters</b>		<b>Status</b>			
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>		<b>5</b>			
5	Rinyaiv bendepur 2C2H2e1c	Rinyaiv- bendepur	(i)	Name of villages connected to the main road by an all-weather road				
		Sohrapurata	(ii)	Village's Name provided with electricity				
		Sultanpur Ubari	(iii)	No. of households without access to drinking water				
		Churkhi	(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P)	(S)	(HS)	(VI)
			(v)	Names of villages with access to Primary Health Centre				
			(vi)	Names of villages with access to Veterinary Dispensary				
			(vii)	Names of villages with access to Post Office				
			(viii)	Names of villages with access to Banks				
			(ix)	Names of villages with access to Markets/ mandis				
			(x)	Names of villages with access to Agro-industries				
			(xi)	Total quantity of surplus milk deficit				
			(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U)	(S)	(PA)	(O)
			(xiii)	Name of villages with access to Anganwadi Centre				
			(xiv)	Any other facilities with names of villages (please specify)				



## The details of PRA exercise in the Project Area



# **CHAPTER - 4**

## **INSTITUTION BUILDING & PROJECT MANAGEMENT**

**Project Implementing Agency:** The Project Implementing Agency (PIA) for IWMP- III, Jalaun is BSA, Bhoomi Sanrakshan Unit, Land Development and Water Resources Department, District Jalaun, Uttar Pradesh. The project implementing agency was selected by State Level Nodal Agency (SLNA) for Integrated Watershed Management Program (IWMP) in Jalaun district. The PIA was given responsibility to develop the micro-watershed by District Watershed Development Unit (DWDU) and State Level Nodal Agency (SLNA) considering its vast experiences in handling land and water management issues in the region. The PIA has well experienced trained and sufficient staff to handle the watershed management programme efficiently.

The PIA will put dedicated Watershed Development team and will provide necessary technical guidance to the Gram Panchayat for preparation of Development Plans for the Watershed Projects through Participatory Rural Appraisal exercise. PIA will also undertake **a)** Community Organization, **b)** Trainings for the village communities, **c)** supervise Watershed development Activities, **d)** inspect & authenticate project accounts, **e)** monitor & review the overall project implementation, **f)** set up institutional arrangements for post project operations and g) maintenance and further development of the assets created during the project period.

**Table 4.1: Details of Project Implementing Agency (PIA)**  
**Project- IWMP III** **District - Jalaun**

<b>S. No.</b>	<b>Particulars of PIA</b>	
1	2	3
(i)	Date of selection of PIA	28-5-2010.
(ii)	Type of organization	Govt.
(iii)	Name of organization	Bhoomi Sanrakshan Unit, Land Development and Water Resources Department, Kalpi, District Jalaun
(iv)	Designation & Address	BSA, Bhoomi Sanrakshan Unit, Land Development and Water Resources Department, Kalpi, District Jalaun
(v)	Telephone	0516-8222007
(vi)	Fax	0516-8222007
(vii)	E-mail	

**Table 4.2: Details of Staff at PIA**

S. NO.	Designation	Name	M/F	Qualification	Field of Experience & Period	Remarks
1	2	3		4	5	6
1.	B.S.A.	Shri Dinesh Kumar Srivastav	M	Intermediate, Civil Engg. Diploma	31	
2.	Junior Engineer	Shri Kamla Pati Goutam	M	Intermediate, Ag. Engg. Diploma	28	
3.	Accountant	Shri Chandra Bhusan Singh	M	B.Com	7	
4.	Sr. Clerk	Shri Sashi Kant Dixit	M	B.A.	29	
5.	Ju. Clerk	Shri Manish Chndra Srivastava	M	B.A.	29	
6.	Draftman	Shri Sangam Lal Verma	M	Intermediate, Diploma	7	
7.	Traser	Shri Mh. Yasim Sidqui	M	High School, Diploma	30	
8.	A.S.C.I.	Shri Manoj Kumar	M	M.Sc. (Ag.) B.Ed,, M.Ed.	7	
9.	A.S.C.I.	Shri Chhote Lal	M	M.Sc. (Ag.) B.Ed.	7	
10.	A.S.C.I.	Shri Harikrishna Singh	M	B.Sc. (Ag.)	-	
11.	A.S.C.I.	Shri Uma Shanker	M	B.Sc. (Ag.)	-	
12.	A.S.C.I.	Shri Nooral Haq Ansari	M	B.Sc. (Ag.)	-	
13.	A.S.C.I.	Smt Vandana Singh	F	B.Sc. (Ag.)	-	

14.	Work Incharge	Shri Vinodanand Mishra	M	High School	29	
15.	Work Incharge	Shri Harihar Prashad	M	High School	28	
16.	Work Incharge	Shri Ravindra Nath Pal	M	Intermediate	21	
17.	Work Incharge	ShriRatan Lal Patel	M	Intermediate	20	
18.	Work Incharge	Shri Vijay Narain Singh	M	Intermediate	25	
19.	Work Incharge	Shri Kamlesh Kr. Pandey	M	High School	21	
20.	Work Incharge	Shri Devendra Pd. Tiwari	M	B.A.	20	
21.	Work Incharge	Shri Shahid Husen	M	Intermediate, Diploma	20	
22.	Munshi	Shri Suman Lata Singh	M	Intermediate	15	
23.	4 <sup>th</sup> Class	Shri Chagur Prashad	M	8 <sup>th</sup>	28	
24.	4 <sup>th</sup> Class	Shri Brij Lal Prasad	M	8 <sup>th</sup>	28	
25.	4 <sup>th</sup> Class	Shri Kamlesh Kr. Gatum	M	8 <sup>th</sup>	28	
26.	4 <sup>th</sup> Class	Shri Awadh Saran Verma	M	High School	28	
27.	4 <sup>th</sup> Class	Smt. Geeta Singh	F	Intermediate	18	

Note:- Details of all the persons working in BSA Unit is to be incorporated

**The Watershed Development Team (WDT):** It is an integral part of the PIA. WDT will assist gram Sabha in a) constitution of Watershed Committee and its functioning, b) organize and strengthening User groups, Self Help Groups, c) conducting participatory baseline survey, d) training and Capacity Building, e)

preparing detailed resource development plan including Soil & Water Conservation, f) undertake engineering surveys, g) prepare engineering drawings and cost estimate for structure to be built.

**Table 4.3: Details of Watershed Development Team (WDT) in the project area**

<b>Project- IWMP - III</b>			<b>PIA- BSA, LDWR,</b>		<b>District - Jalaun</b>		
1	2	3	4	5	6	7	8
S. N.	Name of WDT member	M/F#	Age	Qualification / Experience	Description of professional training	Role/ Function##	Date of appointment of WDT member
1.	Omkar Prasad Swarnkar	M	62	B.Sc. (Ag.)	Soil/ Land Management	Agriculture Demonstration	3.8.11
2.	Balwant Singh	M	45	B.Sc. (Bio.)	Soil Conservation	Livelihood	3.8.11
3.	Pinki	F	45	B.A., NTT Dip.	SHG	SHG	3.8.11
4.	Dinesh Pal Singh	M	25	B.Sc. (Ag.)	Soil Conservation	Soil Conservation	1.11.11
5.	Agnivesh	M	27	B.Tech. (Ag.)	Technical Advice	Technical Advice	26.9.11

## **Watershed Committees:**

Watershed committees are being formed in all villages. Each committee would consist of at least of 10 members. Their representation will be as under:

- Minimum of 50% members from SHGs and UGs, SCs, women and landless
- One member from Watershed Development Team, especially women member (subject matter specialist in Social Science).

Watershed Committee would nominate one of their members as Watershed Secretary to perform the following duties:

1. Convening meetings of Watershed Committee, Gram Sabha.
2. Maintaining all records and proceedings of the meetings.
3. Follow up action on all decisions taken in the meetings.
4. Ensuring people's participation.

Watershed Secretary will be imparted training in maintaining the accounts as well other activities related to Project.



**Table 4.4: Details of Watershed Committee (WC)**

**Name of Project:- IWMP -III, District- JALAUN**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Sl. No.	Name of Gram Sabha/ GP	Date of Constitution/ Registration as a Society (dd/mm/ yyyy)	Designation	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educa-tional qualifi-cation	Function(s) assigned#
1	Atra Kala	4.6.2010	Anju Devi (P)	F				√				√			8 <sup>th</sup>	
			H H Prasad (S)	M			√				√				10 <sup>th</sup>	
			Chotelal	M										√	M.Sc.	
			Member													
			Member													
			Member													
			Member													
			Member													
			Member													
			Member													
			Member													
2	Charsoni		V K Dohare (P)	M			√				√				10 <sup>th</sup>	
			A Kumar (S)	M			√					√			12 <sup>th</sup>	
			Chotelal	M										√	M.Sc.	
			Member													
			Member													
			Member													
			Member													
			Member													
			Member													
			Member													
3	Sarsai		P Raja(P)	M				√					√		12 <sup>th</sup>	
			U V Singh(S)	M			√						√		B.A.	
			V Mishr	M										√	M.Sc.	
			Member													

			Member													
			Member													
			Member													
			Member													
			Member													
			Member													
			Member													
4	Babai		S Devi (p)	F				√		√					8 <sup>th</sup>	
			VK Diwaker(S)	M				√			√				B.A.	
			V Mishr	M									√		M.Sc.	
			Member													
			Member													
			Member													
			Member													
			Member													
			Member													
			Member													
			Member													
5	Rinyaivbendepur		V Singh(P)	M				√		√					10 <sup>th</sup>	
			Rajendra(S)	M				√			√				12 <sup>th</sup>	
			K K Pandey	M									√		M.Sc.	
			Member													
			Member													
			Member													
			Member													
			Member													
			Member													
			Member													
			Member													
			Member													
			Member													

### **Formation of Self Help Groups:**

The formation of SHGs in all watershed villages is underway. It is proposed to form at least 2 SHGs in each village. Each SHG will consist of 12/15 members. The members would be mainly from landless, SCs and women, small and marginal farmers. Few groups exclusively of unemployed youth have also been identified. These groups will be homogeneous having common goal for increasing their income by establishing micro enterprise. Under the Project, each SHGs would be given a revolving fund of Rs.20000/25000 each after 6 months from the date of formation (subject to qualifying the 1st grading and meeting the laid down norms). After having discussions with the village community The SHGs may opt any of the Income Generating Activities from the list given below.

1. Bakery Products 2. Soap & Detergent making 3. Cutting and Tailoring 4. Embroidery 5. Fisheries 6. Mushroom cultivation 7. Household wiring, Motor winding 8. Plumbing 9. Carpentry 10. Bee keeping 11. Pickles, sauces, jam, jelly etc. 12. Two wheelers repairing 13. Animal husbandry 14. Backyard poultry 15. Vermi compost

However, decision for adopting Economic Activities would rest with respective SHGs. Accordingly; these SHGs would be imparted trainings in the IGAs they opt for. Preliminary survey reveals reasonable potentials for the above mentioned Economic Activities and these could prove to be beneficial to poor people residing in selected Watershed villages.

**Table 4.5: Details of Self Help Groups (SHGs) in the project area**

1	2	3	4				5				6			7			8
S. N.	Name of MWS	Names of villages	Total no. of Constituted/registered SHGs				No. of members				No. of SC/ST in each category			No. of BPL in each category			Date of formation of SHGs
			With only Men	With only Women	With both	Total	Categories	M	F	Total	M	F	Total	M	F	Total	
1.	Atra Kala	Atra Kala Jalalpur Churkhi, Sem, Sarsai, Dharampur Ubari	3	2		5	(i) Landless										
							(ii) SF										
							(iii) MF										
							(iv) LF										
2.	Charsoni	Charsoni, Nagra, Nagri, Kusmara, Dharampur Ubari, Itahiya, Panhara, Birahara,	3	4		7	(i) Landless										
							(ii) SF										
							(iii) MF										
							(iv) LF										
3.	Babai	Babai,	1	2		3	(i) Landless										
							(ii) SF										
							(iii) MF										
							(iv) LF										
4.	Sarsai	Sarsai, Sem	1	2		3	(i) Landless										
							(ii) SF										
							(iii) MF										
							(iv) LF										
5.	Rinyaivbendepur	Rinyaiv bendepur, Sohrapurata, Sultanpur Ubari, Churkhi	1	2		3	(i) Landless										
							(ii) SF										
							(iii) MF										
							(iv) LF										
		Total				21											

**Table 4.6: Details of Formation of Self Help Groups**

S. N.	Name of micro watershed	Name of village	Name of group	Date of constitution	Name of Adhyaksh	Name of Sachiv	Total No. of Members				Name of Bank and Address	Account No. & Date	Up to date Saving Rs.	Group activities
							Wo-men	Sc/St	Other	Total				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Rinyaivbendepur	Rinyaiv bendepur, Sohrapurata, Sultanpur Ubari, Churkhi	Maa Durge	8.8.10	Archana Devi	Sunita Devi	15	1	14	15	Allahabad U.P. Gramin Bank, Churkhi	5610/ 8.11.11	12010	Sewing,
			Bajrang	8.8.10	Ram khilawan	Pushpendra		2	10	12	Allahabad U.P. Gramin Bank, Churkhi	5611/ 8.11.11	19210	Mini Oil Mill
2	Charsoni	Charsoni, Nagra, Nagri, Kusmara, Dharampur Ubari, Itahiya, Panhara, Birahara,	Shri Maa Kali	5.10.10	Mukesh	Santosh		11	-	11	Allahabad Bank, Babai	50083957391/ 4.11.11	7710	Goat farming
			Shri Maa Saraswati	5.10.10	Seema	Sunita Devi	11	11	-	11	Allahabad Bank, Babai	500839577925/ 4.11.11	7710	Goat farming
3	Babai	Babai	Dr. Bhimrao	7.7.11	Virendra	Gajendra			11	11	Allahabad Bank, Babai	50068763847 7/11/11	2760	Goat farming
			Sant Kabir	7.7.11	Ratandevi	Sudha	11	11	-	11			2760	Buffaloes Dairy
4	Atrakala	Atra Kala Jalalpur Churkhi, Sem, Sarsai, Dharampur Ubari	Sharda	6.8.11	Shriwati	Gayatri	10	9	1	10	Allahabad Bank, Babai	50068771575	2010	Goat farming
			Sai Baba	6.8.11	Rekha	Munni	11	9	2	11	-	-	2010	Gen. Store
5	Sarsai	Sarsai, Sem	Maa Sherawali	12.8.11	Simharawali	Girja	12	10	2	12	-	-	2410	Goat farming
			Ambedkar	12.8.11	Devlal	Kanhya		2	9	11	-	-	2210	Buffaloes Dairy
	<b>Total for MWS</b>		<b>10</b>										<b>60800</b>	
	<b>Total for Project</b>		<b>10</b>										<b>60800</b>	

## User groups:

The members of User groups would be those persons who would directly derive benefits from Watershed Activities. Resource use agreements are being worked out. The User groups will be responsible for the operation and maintenance of all the assets created under the Project. Formation of User groups is under process in all the villages covered under the Project. The members of User Groups would be imparted training by PIA for effectively managing the assets created.

**Table 4.7: Details of User Groups**

1		2	3				4				5			6			7
S N	Name of Micro watershed with code	Names of villages	Total no. of UGs				No. of members				No. of SC/ST in each category			No. of BPL in each category			Date of formation of UGs
			Men	Women	Both	Total	Categories	M	F	Total	M	F	Total	M	F	Total	
1.	Atra Kala 2C2H2d1d	Jalalpur Churkh, Jalalpur Churkhi,	2	1	1	4	(i)Landless										
							(ii) SF										
							(iii) MF										
							(iv) LF										
2.	Charsoni 2C2H2d1e	Charsoni, Panhera, Naghra, Itaiyha	3	1	2	6	(i)Landless										
							(ii) SF										
							(iii) MF										
							(iv) LF										
3.	Babai 2C2H2d1f	Babai,	2	2	-	4	(i)Landless										
							(ii) SF										
							(iii) MF										
							(iv) LF										
4.	Sarsai 2C2H2d1c	Sarsai, Seme,	2	2	-	4	(i)Landless										
							(ii) SF										
							(iii) MF										
							(iv) LF										
	Rinyaivbendepur2C2H2e1c	Raniya, Bedepur	3	1	-	4	(i)Landless										
							(ii) SF										
							(iii) MF										
							(iv) LF										
	Total																

**Table 4.8: Details of Formation of User Groups (UGs)**

S. N	Name of micro watershed	Name of village	Name of group	Date of constitution	Name of Adhyaksh	Name of Sachiv/ Treasurer	Total No. of Members				Name of Bank and Address	Account No. & Date	Up to date Saving	Group Active ties	Status of User Agreement
							Women	Sc/ St	Other	Total					
1	2	3	4		5	6	7	8	9	10					
1.	Atra Kala	Atra Kala	4	4.6.10	Smt. Anju Devi	Shri Har Prasad	4	22	18	44	Under process				
2.	Sarsai	Sarsai	4	8.6.10	Smt. Pramod Raja	Udaiveer Singh	3	15	24	42	Under process				
3.	Babai	Babai	4	7.6.10	Smt. Safalta Devi	Shri Vivek Kumar	3	12	28	43	Under process				
4.	Rinyaiv bendepur	Rinyaiv bendepur	4	10.6.10	Shri Veer Singh	Shri Rajendra Prasad	3	11	32	46	Under process				
5	Charsoni	Charsoni	6	5.6.10	Shri V.K. Dohre	Shri Arvind Kumar	4	35	29	68	Under process				
	<b>Total for Project</b>														

**Table 4.9: Details of Fund flow of Watershed Committee Accounts (Amount in Rs.)**

S. No.	Name of MWS with code	Name of watershed committee (WC)	Opening Balance (in lakh)	Deposit			Withdrawal			Interest accrued	Closing balance
				DRDA/ ZP cheque No./date	Amount / Date of deposit in WC Account	Total amount available in WC Account	Amount withdrawn by Cash/ Cheque	Date of with-drawal	Purpose of with-drawal		
1	2	3	4	5	6	7	8	9	10	11	12
1.	Atra Kala	Atra Kala	6.8823	120546 27.1.11	23.5.11	6.8823			For project work		
2.	Sarsai	Sarsai	7.0677		23.5.11	7.0677					
3.	Babai	Babai	6.5313		23.5.11	6.5313					
4.	Rinyaiv bendepur	Rinyaiv bendepur	6.4701		23.5.11	6.4701					
5	Charsoni	Charsoni	10.8486		23.5.11	10.8486					

**Convergence in IWMP-III, Jalaun:** Several Central and State Govt. sponsored programmes are running in the district Jalaun. Some of them are listed below.

**Table 4.10: List of Central/State sponsored schemes**

<b>S.No.</b>	<b>Name of Programme</b>	<b>Implementing Agency</b>	<b>Objectives of the Programme</b>
1.	Seed Distribution Programme (Pulse Development & ISOPAM)	U.P. Agriculture Deptt.	To increase seed replacement ratio for higher productivity
2.	Pump set Distribution (Food Security Mission)	Agriculture Deptt.	To Provide irrigation facilities
3.	Training Programme	Agriculture Deptt.	To increase Capacity building of the farmers
4.	HDPE pipe	Agriculture Deptt.	-
5.	National Horticulture Mission (NHM)	Horticulture Deptt.	To Increase fruits & vegetable production
6.	Sanitation Programme	Gram Vikash	To make hygienic condition in the rural areas
7.	Mid Day Meal	Gram Panchayat (DSO)	To provide education to school children without hunger
8.	MGNERGA (Bunding, Farm Pond, Adarsh Jalashay, Blast well, Chakroad, etc.)	Gram Panchayat	To provide work to all village personnel under the Rojgar Guarantee Yojana
9.	ATMA	U.P. Ag. Deptt.	Horizontal spread of improved technologies
10.	Dept. of Animal Husbandry	U.P. Animal Husbandry	To improve the productivity of livestock



**Table 4.11: Details of Convergence of IWMP with other Schemes in IWMP- III, Jalaun  
(Rs. In Lakh)**

S. No.	Name of Micro Watershed	Names of Departments with Schemes converging with IWMP	Fund made available to IWMP due to convergence (Rs. in lakh)	Was this fund included in Rs.12,000/ 15,000 per ha.		Name of activity/task/structure undertaken with converged funds	Reference no. of activity/ task/ structure in DPR <sup>@</sup>	Level at which decision for convergence was taken <sup>\$</sup>	
				Yes	No				(a) Structures (b) livelihoods (c ) Any other (pl. specify) <sup>#</sup>
1	2	3	4	5	6	7	8	9	10
1	Atra Kala	MNREGA	9.236			Structures			
2	Sarsai	MNREGA	0.806			Structures			
3	Babai	MNREGA	1.44			Structures			
4	Rinyaiv bendepur	MNREGA	15.172			Structures			
5	Charsoni	MNREGA	8.00			Structures			
	Total for project		34.65						

# **CHAPTER – 5**

## **MANAGEMENT / ACTION PLAN**

## **ENTRY POINT ACTIVITY (EPA)**

EPA activities are taken up under watershed projects to newly build or repair the already existing structures with the consultation of village community at the beginning of the project; generally, certain important works which are in urgent demand of the local community are taken up. A group Discussion was conducted with watershed Development Committee regarding the EPA activity, it was conveyed to the WC that an amount of 20.16 Lakhs was allotted for EPA activity, which was 4 per cent of total allocated budget. The villagers discussed various activities which they felt is important but after a brief discussion it was conveyed to them that only those activities can be taken, which revive the common natural resources. It was also taken into priority that there should be an instrument of convergence which will result in sustainability of activities.

In total 18 EPA activities were executed in the project area with an budget of Rs. 20.16 Lakhs. Photographs of Entry Point Activities done in the project are given below:

**Table 5.1: Entry point activities (EPA)**

<b>S.No.</b>	<b>Name of The Project</b>	<b>Amount Earmarked for EPA</b>	<b>Entry Point Activities</b>	<b>Estimated Cost (Rs. in Lakh)</b>
1	Atra Kala 2C2H2d1d	20.160	Repair of Well, Construction of Dranege channel. School floor repair, Soaking Pit	3.67056
2	Charsoni 2C2H2d1e		Kisan vikas manch, drainage channel, well repair, Kharanza, School floor repair, Soaking Pit, hand pump	5.78592
3	Babai 2C2H2d1f		Construction of pulia, School floor repair, Kharanza, Soaking Pit	3.48336
4	Sarsai 2C2H2d1c		Construction of pulia, School floor repair, Kharanza, Soaking Pit	3.76944
5	Rinyaivbendepur 2C2H2e1c		Construction of checkdam, well repair, Soaking Pit	3.45072
			<b>Total</b>	<b>20.16</b>

### **Details of Livelihood Activities in the project area**

During discussions with the village communities by our Livelihood experts, several activities were discussed with them. The main objectives of these discussions were:

- Assure one livelihood option to poor families
- Assured livelihood for at least 300 days in a year
- At least one daily job per family SCs/BPL/ very poor families.

Form SHGs would be imparted skill training on identified Economic Activities and it is proposed to impart them trainings. It is proposed to lend revolving fund of Rs. 25000/- to each SHG/individuals formed in the watershed villages. Since the members from SHGs/landless are very poor, they do not have resources to start micro enterprises. It is envisaged that they should be assisted and given loan of this amount in the shape of Revolving Fund Assistance (RFA) so that they do not get trapped by money lenders. Funds thus given on loan are recoverable from SHGs/individuals in easy installments. It is also proposed to impart skill training to at least 10 unemployed youth from each village and give them trainings of their choice so that they establish some small enterprises. It is further proposed to give them interest free loan of Rs. 12000/- each as Revolving Fund Assistance (RFA) to meet their urgent needs of funds for establishing micro enterprises. Such funds recovered could either be back to SHGs/ individuals so some other SHGs/ individuals depending upon assessment of their respective needs. It is proposed to form 2 SHGs in each village and identify at least 10 youths in each village for imparting training and giving Revolving Fund.

Activities that is likely to be taken up by SHGs/ individuals

**Table 5.2: LIVELIHOOD ACTION PLAN-LAP****YEARWISE FINANCIAL BREAK UP OF LIVELIHOOD ACTIVITIES IWMP-III, DISTRICT-JALAUN**

Amount in Lacs

S. No.	Micro watershed	Project Area	Sanctioned Amount	Livelihood Activities 9% of the Total project Cost				
				2009-10	2010-11	2011-12	2012-13	TOTAL
1	Atra Kala	764.7	8.26	0.00	0.92	4.59	2.75	8.26
2	Charsoni	1205.4	13.02	0.00	1.45	7.23	4.34	13.02
3	Babai	725.7	7.84	0.00	0.87	4.35	2.61	7.84
4	Sarsai	785.3	8.48	0.00	0.94	4.71	2.83	8.48
5	Riniya Bendepur	718.9	7.76	0.00	0.86	4.31	2.59	7.76
	<b>Total</b>	<b>4200</b>	45.36	0.00	5.04	25.20	15.12	45.36

# GRAM PANCHAYAT WISE FINANCIAL BREAK UP OF LIVELIHOOD ACTIVITIES IWMP-III, DISTRICT-JALAUN

## NWS- ATRA KALA CODE-2C2H2d1d

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Sanctioned Amount	Livelihood Activities 9% of the Total project Cost				
				2009-10	2010-11	2011-12	2012-13	TOTAL
1	Atra Kala	420.15	4.54	0.00	0.50	2.52	1.51	4.54
2	Babai	33.30	0.36	0.00	0.04	0.20	0.12	0.36
3	Charsoni	288.00	3.11	0.00	0.35	1.73	1.04	3.11
4	Sarsai	1.45	0.02	0.00	0.00	0.01	0.01	0.02
5	Bamhori Khurd	21.80	0.24	0.00	0.03	0.13	0.08	0.24
	<b>Total</b>	<b>764.70</b>	8.26	0.00	0.92	4.59	2.75	8.26

## NWS- CHARSONI CODE-2C2H2d1e

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Sanctioned Amount	Livelihood Activities 9% of the Total project Cost				
				2009-10	2010-11	2011-12	2012-13	TOTAL
1	Charsoni	570.00	6.16	0.00	0.68	3.42	2.05	6.16
2	Itahiya	201.20	2.17	0.00	0.24	1.21	0.72	2.17
3	Kusmara	19.20	0.21	0.00	0.02	0.12	0.07	0.21
4	Nagri	62.10	0.67	0.00	0.07	0.37	0.22	0.67
5	Babai	352.90	3.81	0.00	0.42	2.12	1.27	3.81
	<b>Total</b>	<b>1205.40</b>	13.02	0.00	1.45	7.23	4.34	13.02

## NWS- Babai CODE-2C2H2d1f

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Sanctioned Amount	Livelihood Activities 9% of the Total project Cost				
				2009-10	2010-11	2011-12	2012-13	TOTAL
1	Babai	406.80	4.39	0.00	0.49	2.44	1.46	4.39
2	Charsoni	62.80	0.68	0.00	0.08	0.38	0.23	0.68
3	Sarsai	204.25	2.21	0.00	0.25	1.23	0.74	2.21
4	Dahguvan	51.85	0.56	0.00	0.06	0.31	0.19	0.56
	<b>Total</b>	<b>725.70</b>	7.84	0.00	0.87	4.35	2.61	7.84

**GRAM PANCHAYAT WISE FINANCIAL BREAK UP OF LIVELIHOOD ACTIVITIES  
IWMP-III, DISTRICT-JALAUN**

<b>NWS- SARSAI</b>		<b>CODE-2C2H2d1c</b>		Amount in Lacs				
<b>S. No.</b>	<b>GRAM PANCHAYAT</b>	<b>Project Area</b>	<b>Sanctioned Amount</b>	<b>Livelihood Activities 9% of the Total project Cost</b>				
				<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>	<b>TOTAL</b>
1	Babai	27.10	0.29	0.00	0.03	0.16	0.10	0.29
2	Charsoni	51.20	0.55	0.00	0.06	0.31	0.18	0.55
3	Sarsai	390.60	4.22	0.00	0.47	2.34	1.41	4.22
4	Bamhori Khurd	316.40	3.42	0.00	0.38	1.90	1.14	3.42
	<b>Total</b>	<b>785.30</b>	8.48	0.00	0.94	4.71	2.83	8.48

<b>NWS- Riniya Bendepur</b>		<b>CODE-2C2H2d1c</b>		Amount in Lacs				
<b>S. No.</b>	<b>GRAM PANCHAYAT</b>	<b>Project Area</b>	<b>Sanctioned Amount</b>	<b>Livelihood Activities 9% of the Total project Cost</b>				
				<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>	<b>TOTAL</b>
1	Babai	156.20	1.69	0.00	0.19	0.94	0.56	1.69
2	Churkhi	346.30	3.74	0.00	0.42	2.08	1.25	3.74
3	Sarsai	93.60	1.01	0.00	0.11	0.56	0.34	1.01
4	Riniya Bendepur	122.80	1.33	0.00	0.15	0.74	0.44	1.33
	<b>Total</b>	<b>718.90</b>	7.76	0.00	0.86	4.31	2.59	7.76



**Table 5.3: Details of Livelihood activities in the project area**

S. N.	Name & Code no. of microwatershed	Name of Concern village	Revolving Fund Assistance for SHGs			Total Amt. In lakh	Total Budget Allocation
			No of SHGs in each watershed	Activity of the SHG	Amt. Of RFA per SHG (for each activity)		
<b>1</b>	Atra Kala 2C2H2d1d	Atra Kala, Jalalpur Churkhi	5	Goat rearing Tailoring Bee keeping Dairy	25000	5.00	8.25876
<b>2</b>	Charsoni 2C2H2d1e	Charsoni, Panhera, Naghra, Itaiyha	7	Dairy farming Cutting & Tailoring Household wiring, motor winding Carpentary Bee keeping Pickles, sauces, jam, jelly, etc. Goat Rearing	25000	7.50	13.01832
<b>3</b>	Babai 2C2H2d1f	Babai,	3	Goat Rearing. General store shops, Dairy carpentary two wheeler repairing	25000	4.50	7.83756
<b>4</b>	Sarsai 2C2H2d1c	Sarsai, Sem	3	Cutting & Tailoring Household wiring, motor winding Carpentary Two wheelers repairing Dairy Goat Rearing. General store	25000	5.50	8.48124
<b>5</b>	Rinyaiv bendepur 2C2H2e1c	Rinyaiv bendepur	3	Household wiring, motor winding Carpentary Bee keeping Pickles, Two wheelers repairing Dairy Goat Rearing.	25000	4.20	7.76412
	<b>Total</b>		<b>21</b>			<b>26.70</b>	<b>45.36</b>

**DETAILS OF LIVELIHOOD ACTIVITIES REVOLVING FUND ASSISTANCE FOR SHGS UNDER IWMP-III, DISTRICT-JALAUN**

S. No.	Micro Watershed	General Merchant Shop					Goat Keeping					Poultry					Buffalo				
		2009-10	2010-11	2011-12	2012-13	Total	2009-10	2010-11	2011-12	2012-13	Total	2009-10	2010-11	2011-12	2012-13	Total	2009-10	2010-11	2011-12	2012-13	Total
1	Atra Kala	0	1	1	2	4	0	1	3	3	7	0	1	4	3	8	0	1	3	3	7
2	Charsoni	0	1	1	3	5	0	1	2	3	6	0	1	3	3	7	0	1	4	3	8
3	Babai	0	1	1	2	4	0	1	2	4	7	0	1	4	4	9	0	1	5	5	11
4	Sarsai	0	1	1	3	5	0	1	2	3	6	0	1	5	3	9	0	1	4	3	8
5	Riniyabendepur	0	1	1	2	4	0	1	3	2	6	0	1	3	4	8	0	1	3	3	7
	<b>Total</b>	0	5	5	12	22	0	5	12	15	32	0	5	19	17	41	0	5	19	17	41

S. No.	Micro watershed	Dona Pattal					Basket Making					Sewing Machine					Livestock				
		2009-10	2010-11	2011-12	2012-13	Total	2009-10	2010-11	2011-12	2012-13	Total	2009-10	2010-11	2011-12	2012-13	Total	2009-10	2010-11	2011-12	2012-13	Total
1	Atra Kala	0	1	3	2	6	0	1	2	2	5	0	1	2	3	6	0	0.09	0.05	0.05	0.19
2	Charsoni	0	1	3	3	7	0	1	2	3	6	0	1	2	2	5	0	0.05	0.05	0.05	0.15
3	Babai	0	1	3	2	6	0	1	2	2	5	0	1	2	3	6	0	0.05	0.05	0.05	0.15
4	Sarsai	0	1	3	3	7	0	1	2	2	5	0	1	2	2	5	0	0.09	0.05	0.05	0.19
5	Riniyabendepur	0	1	3	3	7	0	1	2	3	6	0	1	2	3	6	0	0.10	0.05	0.05	0.19
	<b>Total</b>	0	5	15	13	33	0	5	10	12	27	0	5	10	13	28	0.00	0.69	0.49	0.26	1.44

General Merchant Shop @ Rs. 18000/- per shop.

Goat Keeping @ Rs. 1500/- per Goat and 02 Goat will be given per beneficiary costin Rs. 3000/- per number.

Poultry - 20 Chuja per beneficiary @ Rs. 10/- per chuja costing 200/- and 20 k.g. feed and other support item L.s. Rs. 800/- Total 1000/- per beneficiary

Bufallo @ Rs. 15000/- per Bufallow, Sewing Machine @ Rs. 5000/- per machine.

**The individual details of the beneficiaries of the each MWS project wise would be given in the project file**

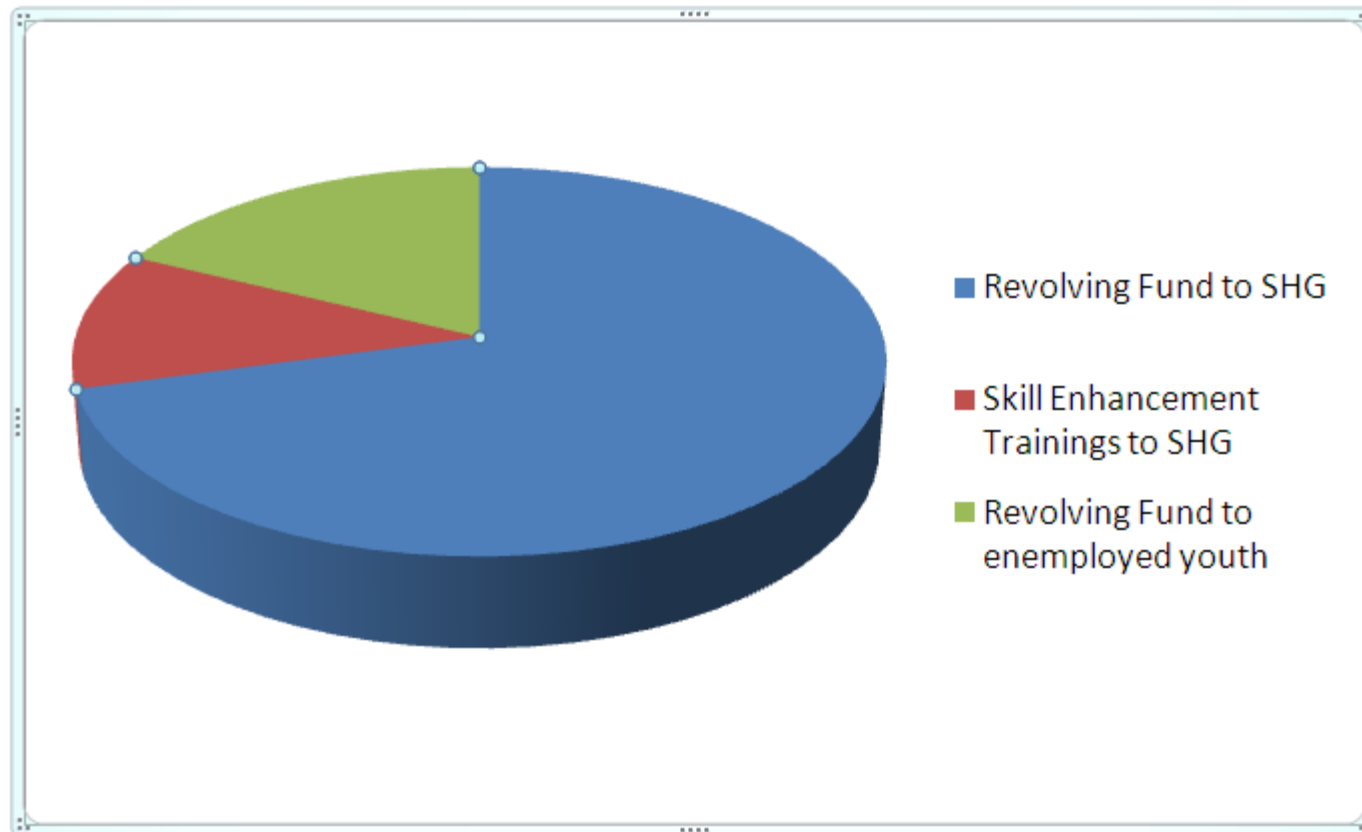
### Skill training/ skill up gradation of SHGs

S. N.	Name & Code no. of microwatershed	Name of Concern village	Revolving Fund Assistance for SHGs		
			No of SHGs in each watershed	Amt of training per SHG	Total (Rs in Lacs)
<b>1</b>	Atra Kala 2C2H2d1d	Atra Kala, Jalalpur Churkhi	5	35000	1.75
<b>2</b>	Charsoni 2C2H2d1e	Charsoni, Panhera, Naghra, Itaiyha	7	35000	2.45
<b>3</b>	Babai 2C2H2d1f	Babai,	3	35000	1.05
<b>4</b>	Sarsai 2C2H2d1c	Sarsai, Sem	3	35000	1.05
<b>5</b>	Rinyaiv bendepur 2C2H2e1c	Rinyaiv bendepur	3	35000	1.05
	<b>Total</b>		<b>21</b>		<b>7.35</b>

### Skill training/ skill up gradation: Trainings to unemployed youth

S. N.	Name & Code no. of microwatershed	Name of Concern village	Revolving Fund Assistance for SHGs		
			No of individuals to be imparted trainings	Amt of training per trainee	Total (Rs in Lacs)
<b>1</b>	Atra Kala 2C2H2d1d	Atra Kala, Jalalpur Churkhi	60	4000	2.4
<b>2</b>	Charsoni 2C2H2d1e	Charsoni, Panhera, Naghra, Itaiyha	75	4000	3.0
<b>3</b>	Babai 2C2H2d1f	Babai,	50	4000	2.0
<b>4</b>	Sarsai 2C2H2d1c	Sarsai, Sem	50	4000	2.0
<b>5</b>	Rinyaiv bendepur 2C2H2e1c	Rinyaiv bendepur	50	4000	2.0
	<b>Total</b>		<b>285</b>	<b>20000</b>	<b>11.40</b>

## Livelihood Expenditure on Different Activities



**ACTIVITIES RELATED TO SHGs:** Activities relating to income generation have been identified after several discussions with village communities. However final discussion in this regard will be taken after SHGs matures for 1<sup>st</sup> grading. Some of the activities identified are as under:

- Cutting & Tailoring
- Household wiring, motor winding
- Carpentry
- Bee keeping
- Pickles, sauces, jam, jelly, etc.
- Two wheelers repairing
- Animal husbandry/ Dairy
- Goat Rearing.
- General store shops, etc.
- Bakery products
- Embroidery
- Vermi compost
- Backyard poultry
- Mushroom cultivation

There appears to be great potential for these activities and these activities are likely to generate income of Rs.2000/- to Rs.2500/- per member/per month. However no activities would be forced upon any SHGs and they would be free to decide the activity they would like to opt for their additional income. Based on their choice, Project report for the specified activity would be prepared and revolving fund of

Rs.20000/Rs.25000/- per SHG would be given for running their respective micro enterprise. If need arises for more funds for their Income Generation Activities at later stage, they would be assisted in getting loan from banks. SHGs thus formed would be provided all possible assistance to uplift for their Socio-Economic upliftment.

The following table gives expected income likely to be generated by SHGs:

**Activities related to livelihoods by SHGs**

<b>S. No.</b>	<b>Name of micro watershed</b>	<b>Major activities of SHGs</b>		
		<b>Name of Economic Activity</b>	<b>No. of SHGs involved</b>	<b>Expected annual income (Rs.)</b>
1.	Atra Kala 2C2H2d1d	Activities to be identified after SHG matures for 1st grading i.e. after 6 months	5	20000/30000
2.	Charsoni 2C2H2d1e	Activities to be identified after SHG matures for 1st grading i.e. after 6 months	7	20000/30000
3.	Babai 2C2H2d1f	Activities to be identified after SHG matures for 1st grading i.e. after 6 months	3	20000/30000
4.	Sarsai 2C2H2d1c	Activities to be identified after SHG matures for 1st grading i.e. after 6 months	3	20000/30000
5.	Rinyaiv-bendepur 2C2H2e1c	Activities to be identified after SHG matures for 1st grading i.e. after 6 months	3	20000/30000



## FARM PRODUCTION SYSTEM (10%)

### YEAR WISE FINANCIAL BREAK UP OF PRODUCTION & MICRO ENTERPRISES, IWMP-III, DISTRICT-JALAUN

Amount in Lacs

S. No.	Micro watershed	Project Area	Sanctioned Amount	Production System & Microenterprises 10% of the Total Project Cost				
				2009-10	2010-11	2011-12	2012-13	TOTAL
1	Atra Kala	764.7	9.18	0.00	0.92	4.59	3.67	9.18
2	Charsoni	1205.4	14.46	0.00	1.45	7.23	5.79	14.46
3	Babai	725.7	8.71	0.00	0.87	4.35	3.48	8.71
4	Sarsai	785.3	9.42	0.00	0.94	4.71	3.77	9.42
5	Riniya Bendeupur	718.9	8.63	0.00	0.86	4.31	3.45	8.63
	<b>Total</b>	<b>4200</b>	50.40	0.00	5.04	25.20	20.16	50.40

### GRAM PANCHAYAT WISE FINANCIAL BREAK UP OF PRODUCTION & MICRO ENTERPRISES, IWMP-III, DISTRICT-JALAUN

NWS- CHARSONI

CODE-2C2H2d1e

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Sanctioned Amount	Production System & Microenterprises 10% of the Total Project Cost				
				2009-10	2010-11	2011-12	2012-13	TOTAL
1	Charsoni	570.00	6.84	0.00	0.68	3.42	2.74	6.84
2	Itahiya	201.20	2.41	0.00	0.24	1.21	0.97	2.41
3	Kusmara	19.20	0.23	0.00	0.02	0.12	0.09	0.23
4	Nagri	62.10	0.75	0.00	0.07	0.37	0.30	0.75
5	Babai	352.90	4.23	0.00	0.42	2.12	1.69	4.23
	<b>Total</b>	<b>1205.40</b>	14.46	0.00	1.45	7.23	5.79	14.46

**GRAM PANCHAYAT WISE FINANCIAL BREAK UP OF PRODUCTION & MICRO ENTERPRISES, IWMP-III, DISTRICT-JALAUN**

**NWS- ATRA KALA**

**CODE-2C2H2d1d**

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Sanctioned Amount	Production System & Microenterprises 10% of the Total Project Cost				
				2009-10	2010-11	2011-12	2012-13	TOTAL
1	Atra Kala	420.15	5.04	0.00	0.50	2.52	2.02	5.04
2	Babai	33.30	0.40	0.00	0.04	0.20	0.16	0.40
3	Charsoni	288.00	3.46	0.00	0.35	1.73	1.38	3.46
4	Sarsai	1.45	0.02	0.00	0.00	0.01	0.01	0.02
5	Bamhori Khurd	21.80	0.26	0.00	0.03	0.13	0.10	0.26
	<b>Total</b>	<b>764.70</b>	9.18	0.00	0.92	4.59	3.67	9.18

**NWS- Babai**

**CODE-2C2H2d1f**

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Sanctioned Amount	Production System & Microenterprises 10% of the Total Project Cost				
				2009-10	2010-11	2011-12	2012-13	TOTAL
1	Babai	406.80	4.88	0.00	0.49	2.44	1.95	4.88
2	Charsoni	62.80	0.75	0.00	0.08	0.38	0.30	0.75
3	Sarsai	204.25	2.45	0.00	0.25	1.23	0.98	2.45
4	Dahguvan	51.85	0.62	0.00	0.06	0.31	0.25	0.62
	<b>Total</b>	<b>725.70</b>	8.71	0.00	0.87	4.35	3.48	8.71

## GRAM PANCHAYAT WISE FINANCIAL BREAK UP OF PRODUCTION & MICRO ENTERPRISES, IWMP-III, DISTRICT-JALAUN

NWS- SARSAI		CODE-2C2H2d1c		Amount in Lacs				
S. No.	GRAM PANCHAYAT	Project Area	Sanctioned Amount	Production System & Microenterprises 10% of the Total Project Cost				
				2009-10	2010-11	2011-12	2012-13	TOTAL
1	Babai	27.10	0.33	0.00	0.03	0.16	0.13	0.33
2	Charsoni	51.20	0.61	0.00	0.06	0.31	0.25	0.61
3	Sarsai	390.60	4.69	0.00	0.47	2.34	1.87	4.69
4	Bamhori Khurd	316.40	3.80	0.00	0.38	1.90	1.52	3.80
	<b>Total</b>	<b>785.30</b>	9.42	0.00	0.94	4.71	3.77	9.42

NWS- Riniya Bendepur		CODE-2C2H2d1c		Amount in Lacs				
S. No.	GRAM PANCHAYAT	Project Area	Sanctioned Amount	Production System & Microenterprises 10% of the Total Project Cost				
				2009-10	2010-11	2011-12	2012-13	TOTAL
1	Babai	156.20	1.87	0.00	0.19	0.94	0.75	1.87
2	Churkhi	346.30	4.16	0.00	0.42	2.08	1.66	4.16
3	Sarsai	93.60	1.12	0.00	0.11	0.56	0.45	1.12
4	Riniya Bendepur	122.80	1.47	0.00	0.15	0.74	0.59	1.47
	<b>Total</b>	<b>718.90</b>	8.63	0.00	0.86	4.31	3.45	8.63

## Camps (Demo) for Farm Production System:

### Atra Kala

Type	Seed Demonstration	Details	Rate (in lacs)	No. of beneficiary	2009-10		2010-11		2011-12		2012-13		Total	
					Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
Rabi Season	Wheat	1. Variety K 8027 , NW-1012, 1076, HDR-77, Raj -107 2. Sowing Time: 15 November to 25 December 3- Seed rate – 100 -125 Kg/ hectare 4- Requirement of fertilizers / ha N- 125 Kg , P- 70 -75 Kg, K-70-75 Kg 5. FYM: 60 Ou. 6. Flowering Period: 80 to 85 days. 7. Crop Duration: 120-145 days. 8. Harvesting time : April to May 9. Yield: Irrigated: 50-60 Q/ha Un-irrigated: 30-35 Q/ha <b>Note-</b> Hence demonstration cost of wheat /ha is Rs 13000.00 and the Total cost increases @ 10 % for next year	0.13000	212	0.065	0.5	0.221	1.7	0.247	1.9	0.325	2.5	0.858	6.6
	Barley	1. Variety RD-2508, NB-1,2,3, Haritma, Azad 2. Sowing Time: 20 October to 7 November 3- Seed rate – 80 Kg/ hectare 4- Requirement of fertilizers / ha N- 60 Kg , P- 30-45 Kg, K-30 Kg 3. Yield: Irrigated: 30-40 Q/ha FYM: 60 Q 4. Flowering Period: 80 to 85 days. 5. Crop Duration: 120-145 days. 6. Harvesting time : March To April 7. Un-irrigated: 20-25 Q/ha Irrigated: 35-40 Q/ha <b>Note-</b> Hence demonstration cost of Barley /ha is Rs 10000.00 and the Total cost increases @ 10 % for next year.	0.10000	220	0.040	0.4	0.11	1.1	0.1	1	0.24	2.4	0.490	4.9

	Gram	1 Variety Rainfed - J.G. – 315 , Avrdhi 2. Sowing Time: 20 October to 15 November 3. Seed rate /ha – 75 -80 Kg 4. Fertilizers requirement / ha N- 25.0 Kg , P- 80Kg, K- 30 Kg 5. FYM: 60 Q 6. Flowering Period: 60 to 75 days. 7. Crop Duration: 130-145 days. 8. Harvesting time : March To April 9. Harvesting time : February-March <b>Note-</b> Hence demonstration cost of Gram /ha is Rs 16800.00 and the Total cost increases @ 10 % for next year.	0.16800	122	0.101	0.6	0.252	1.5	0.336	2	0.453 6	2.7	1.142	6.8
Kharif Season	Arahar	1. Variety -Long Durtion: Malviya -13 NA -1, NA-2 Short Duration: UPAS-120, ICPL-151, 8801 2- Seed rate /ha – 20 Kg 3. Sowing Time: June-July 4- Fertilizers requirement / ha N- 20.0 Kg , P- 50Kg, K- 40 Kg 4. FYM: 50 Q 5. Flowering Period: Long Duration:160 to 175 days. Short Duration: 110-120 days 6. Crop Duration: Long Duration: 270-280 days. Short Duration: 130-140 days 7. Harvesting time : Long Duration: March To April, Short Duration: November to December 8. Yield : Long Duration: 18-20 Q/ha Short Duration: 20-25 Q/ha <b>Note-</b> Hence demonstration cost of Arahar /ha is Rs 10000.00 and the Total cost increases @ 10 % for next year.	0.10000	56	0.070	0.7	0.17	1.7	0.2	2	0.35	3.5	0.790	7.9

	Maize	1. Variety: Hybrid: Ganga-2, 11, Shaktiman, Dakkan-7, Prakash, Sartaj 2. Sankul: Tarun, Naveen, Kanchan, Sweta, Prabhat, Gaurav 3. Requirement of Seed /ha - 15 kg 3. Sowing Time - 15 th July to 15 th August 4. Requirement of fertilizers / ha N- 60.0 Kg , P- 40.00Kg, K- 40.00 Kg 5. Fertilizers requirement / ha N- 80.0 Kg , P- 50Kg, K- 40 Kg a. FYM: 50 Q 3. 7. Flowering Period: 80-85 days. 8. Crop Duration: 120 to 130 days. 9. Harvesting time : 25 September to 5 October 10. Yield: Grain: 18-20 Q/ha Dry Fodder: 200-250 Q/ha <b>Note-</b> Hence demonstration cost of SORGHUM /ha is Rs 6500.00 and the Total cost cost increases @ 10 % for next year.	0.06500	40	0.020	0.3	0.078	1.2	0.0975	1.5	0.13	2	0.325	5
	Til	1. Variety - Pant Masoor-4,406, 639, NDL-1, DPL-15 2- Seed rate /ha - 40-60 Kg 3. Sowing Time - 15 th October to November 4. Fertilizers requirement / ha N- 20.0 Kg , P- 50Kg, K- 40 Kg 5. FYM: 50 Q 6. Flowering Period: 60 to 75 days. 7. Crop Duration: 130-145 days. 8. Harvesting time : March To April <b>Note-</b> Hence demonstration cost of Lentil /ha is Rs 10000.00 and the Total cost increases @ 10 % for next year.	0.10000	52	0.040	0.4	0.12	1.2	0.1	1	0.26	2.6	0.520	5.2
	Seed	Distribution of high yield variety seed of Arhar, Wheat and maize, etc.	0.05000	5	0.05	1	0.05	1	0.05	1	0.05	1	0.2	4
	Animal Husbandry	Distribution of free medicines and feed for animals, demo purpose	0.20000	4	0.2	1	0.2	1	0.2	1	0.4	2	1	5
Distributi on	Agriculture Toolkit	Distribution of agriculture toolkit to the individual.	0.02000	-	0.24	12	0.9	45	0.8	40	1.2	60	3.14	157

	Shisham	Source from Agriculture Department	0.00026		0.01	40	0.02	80	0.03	100	0.03	120	0.09	340
	Gavaua		0.00045		0.02	55	0.05	110	0.05	100	0.07	150	0.19	415
	Amla		0.00045		0.03	75	0.07	150	0.05	100	0.08	175	0.23	500
	Citrus		0.00038		0.03	75	0.06	150	0.05	140	0.08	215	0.22	580
TOTAL AMOUNT					0.92		2.30		2.30		3.67		9.19	
Former Contribution 10% of the total cast on labor charge					0.09		0.23		0.23		0.37		0.92	

### Babai

Type	Seed Demonstration	Details	Rate (in lacs)	No. of beneficiary	2009-10		2010-11		2011-12		2012-13		Total	
					Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
Rabi Season	Wheat	1. Variety K 8027 , NW-1012, 1076, HDR-77, Raj -107 2. Sowing Time: 15 November to 25 December 3- Seed rate – 100 -125 Kg/ hectare 4- Requirement of fertilizers / ha N- 125 Kg , P- 70 -75 Kg, K-70-75 Kg 5. FYM: 60 q. 6. Flowering Period: 80 to 85 days. 7. Crop Duration: 120-145 days. 8. Harvesting time : April to May 9. Yield: Irrigated: 50-60 Q/ha Un-irrigated: 30-35 Q/ha <b>Note-</b> Hence demonstration cost of wheat /ha is Rs 13000.00 and the Total cost increases @ 10 % for next year	0.13000		0.078	0.6	0.13	1	0.156	1.2	0.195	1.5	0.559	4.3

Barley	1. Variety RD-2508, NB-1,2,3, Haritma, Azad 2. Sowing Time: 20 October to 7 November 3- Seed rate – 80 Kg/ hectare 4- Requirement of fertilizers / ha N- 60 Kg , P- 30-45 Kg, K-30 Kg 3. Yield: Irrigated: 30-40 Q/ha FYM: 60 Q 4. Flowering Period: 80 to 85 days. 5. Crop Duration: 120-145 days. 6. Harvesting time : March To April 7. Un-irrigated: 20-25 Q/ha Irrigated: 35-40 Q/ha <b>Note-</b> Hence demonstration cost of Barley /ha is Rs 10000.00 and the Total cost increases @ 10 % for next year.	0.10000		0.020	0.2	0.1	1	0.06	0.6	0.11	1.1	0.290	2.9
Gram	1 Variety Rainfed - J.G. – 315 , Avrdhi 2. Sowing Time: 20 October to 15 November 3. Seed rate /ha – 75 -80 Kg 4. Fertilizers requirement / ha N- 25.0 Kg , P- 80Kg, K- 30 Kg 5. FYM: 60 Q 6. Flowering Period: 60 to 75 days. 7. Crop Duration: 130-145 days. 8. Harvesting time : March To April 9. Harvesting time : February- March <b>Note-</b> Hence demonstration cost of Gram /ha is Rs 16800.00 and the Total cost increases @ 10 % for next year.	0.16800		0.084	0.5	0.218 4	1.3	0.2352	1.4	0.3192	1.9	0.857	5.1



Kharif Season	Arahar	1. Variety -Long Duration: Malviya -13 NA -1, NA-2 Short Duration: UPAS-120, ICPL-151, 8801 2- Seed rate /ha – 20 Kg 3. Sowing Time: June-July 4- Fertilizers requirement / ha N- 20.0 Kg , P- 50Kg, K- 40 Kg 4. FYM: 50 Q 5. Flowering Period: Long Duration:160 to 175 days. Short Duration: 110-120 days 6. Crop Duration: Long Duration: 270-280 days. Short Duration: 130-140 days 7. Harvesting time : Long Duration: March To April, Short Duration: November to December 8. Yield : Long Duration: 18-20 Q/ha Short Duration: 20-25 Q/ha <b>Note-</b> Hence demonstration cost of Arahar /ha is Rs 10000.00 and the Total cost increases @ 10 % for next year.	0.10000		0.070	0.7	0.12	1.2	0.15	1.5	0.24	2.4	0.580	5.8
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Maize	<p>1. Variety: Hybrid: Ganga-2, 11, Shaktiman, Dakkan-7, Prakash, Sartaj</p> <p>2. Sankul: Tarun, Naveen, Kanchan, Sweta, Prabhat, Gaurav</p> <p>3. Requirement of Seed /ha - 15 kg l</p> <p>3. Sowing Time - 15 th July to 15 th August</p> <p>4. Requirement of fertilizers / ha N- 60.0 Kg , P- 40.00Kg, K- 40.00 Kg</p> <p>5. Fertilizers requirement / ha N- 80.0 Kg , P- 50Kg, K- 40 Kg</p> <p>a. FYM: 50 Q</p> <p>3. 7. Flowering Period: 80-85 days.</p> <p>8. Crop Duration: 120 to 130 days.</p> <p>9. Harvesting time : 25 September to 5 October</p> <p>10. Yield: Grain: 18-20 Q/ha Dry Fodder: 200-250 Q/ha</p> <p><b>Note-</b> Hence demonstration cost of SORGHUM /ha is Rs 6500.00 and the Total cost cost increases @ 10 % for next year.</p>	0.06500		0.000	0	0.039	0.6	0.026	0.4	0.078	1.2	0.143	2.2
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	Til	1. Variety - Pant Masoor-4,406, 639, NDL-1, DPL-15 2- Seed rate /ha – 40-60 Kg 3. Sowing Time - 15 th October to November 4. Fertilizers requirement / ha N- 20.0 Kg , P- 50Kg, K- 40 Kg 5. FYM: 50 Q 6. Flowering Period: 60 to 75 days. 7. Crop Duration: 130-145 days. 8. Harvesting time : March To April <b>Note-</b> Hence demonstration cost of Lentil /ha is Rs 10000.00 and the Total cost increases @ 10 % for next year.	0.10000		0.000	0	0.05	0.5	0.06	0.6	0.09	0.9	0.200	2
Distrib ution	Seed	Distribution of high yield verity seed of Arhar, Wheat and maize, etc.	0.05000		0.05	1	0.1	2	0.1	2	0.1	2	0.35	7
	Animal Husbandry	Distribution of free medicines and feed for animals, demo purpose	0.20000		0.2	1	0.4	2	0.2	1	0.6	3	1.4	7
	Agriculture Toolkit	Distribution of agriculture toolkit to the individual.	0.02000		0.28	14	0.9	45	1	50	1.5	75	3.68	184
					Fin	No	Fin	No	Fin	No	Fin	No	Fin	No
	Shisham	Source from Agriculture Department	0.00026		0.01	30	0.01	50	0.02	75	0.02	75	0.06	230
	Guava		0.00045		0.02	50	0.03	75	0.06	125	0.07	150	0.18	400
	Amla		0.00045		0.02	50	0.03	75	0.06	125	0.07	150	0.18	400
	Citrus		0.00038		0.03	80	0.04	100	0.06	150	0.10	250	0.22	580
	TOTAL AMOUNT					0.87		2.18		2.18		3.48		8.70
Former Contribution 10% of the total cast on labor charge					0.09		0.22		0.22		0.35		0.87	

## Charsoni

Type	Seed Demonstration	Details	Rate (in lacs)	No. of beneficiary	2009-10		2010-11		2011-12		2012-13		Total	
					Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
Rabi Season	Wheat	1. Variety K 8027, NW-1012, 1076, HDR-77, Raj -107 2. Sowing Time: 15 November to 25 December 3- Seed rate – 100 -125 Kg/ hectare 4- Requirement of fertilizers / ha N- 125 Kg , P- 70 -75 Kg, K-70-75 Kg 5. FYM: 60 Ou. 6. Flowering Period: 80 to 85 days. 7. Crop Duration: 120-145 days. 8. Harvesting time : April to May 9. Yield: Irrigated: 50-60 Q/ha Un-irrigated: 30-35 Q/ha <b>Note-</b> Hence demonstration cost of wheat /ha is Rs 13000.00 and the Total cost increases @ 10 % for next year	0.13000		0.130	1	0.338	2.6	0.273	2.1	0.728	5.6	1.469	11.3
	Barley	1. Variety RD-2508, NB-1,2,3, Haritma, Azad 2. Sowing Time: 20 October to 7 November 3- Seed rate – 80 Kg/ hectare 4- Requirement of fertilizers / ha N- 60 Kg , P- 30-45 Kg, K-30 Kg 3. Yield: Irrigated: 30-40 Q/ha FYM: 60 Quintal 4. Flowering Period: 80 to 85 days. 5. Crop Duration: 120-145 days. 6. Harvesting time : March To April 7. Un-irrigated: 20-25 Q/ha Irrigated: 35-40 Q/ha <b>Note-</b> Hence demonstration cost of Barley /ha is Rs 10000.00 and the Total cost increases @ 10 % for next year.	0.10000		0.100	1	0.23	2.3	0.21	2.1	0.37	3.7	0.910	9.1

	Gram	1 Variety Rainfed - J.G. – 315 , Avrdhi 2. Sowing Time: 20 October to 15 November 3. Seed rate /ha – 75 -80 Kg 4. Fertilizers requirement / ha N- 25.0 Kg , P- 80Kg, K- 30 Kg 5. FYM: 60 Quintal 6. Flowering Period: 60 to 75 days. 7. Crop Duration: 130-145 days. 8. Harvesting time : March To April 9. Harvesting time : February-March <b>Note-</b> Hence demonstration cost of Gram /ha is Rs 16800.00 and the Total cost increases @ 10 % for next year.	0.16800		0.168	1	0.3864	2.3	0.4704	2.8	0.8904	5.3	1.915	11.4
Kharif Season	Arahar	1. Variety -Long Duration: Malviya -13 NA -1, NA-2 Short Duration: UPAS-120, ICPL-151, 8801 2- Seed rate /ha – 20 Kg 3. Sowing Time: June-July 4- Fertilizers requirement / ha N- 20.0 Kg , P- 50Kg, K- 40 Kg 4. FYM: 50 Quintal 5. Flowering Period: Long Duration:160 to 175 days. Short Duration: 110-120 days 6. Crop Duration: Long Duration: 270-280 days. Short Duration: 130-140 days 7. Harvesting time : Long Duration: March To April, Short Duration: November to December 8. Yield : Long Duration: 18-20 Q/ha Short Duration: 20-25 Q/ha <b>Note-</b> Hence demonstration cost of Arahar /ha is Rs 10000.00 and the Total cost increases @ 10 % for next year.	0.10000		0.110	1.1	0.25	2.5	0.35	3.5	0.63	6.3	1.340	13.4

	Maize	1. Variety: Hybrid: Ganga-2, 11, Shaktiman, Dakkan-7, Prakash, Sartaj 2. Sankul: Tarun, Naveen, Kanchan, Sweta, Prabhat, Gaurav 3. Requirement of Seed /ha - 15 kg l 3. Sowing Time - 15 th July to 15 th August 4. Requirement of fertilizers / ha N- 60.0 Kg , P- 40.00Kg, K- 40.00 Kg 5. Fertilizers requirement / ha N- 80.0 Kg , P- 50Kg, K- 40 Kg a. FYM: 50 Quintal 3. 7. Flowering Period: 80-85 days. 8. Crop Duration: 120 to 130 days. 9. Harvesting time : 25 September to 5 October 10. Yield: Grain: 18-20 Q/ha Dry Fodder: 200-250 Q/ha <b>Note-</b> Hence demonstration cost of SORGHUM /ha is Rs 6500.00 and the Total cost cost increases @ 10 % for next year.	0.06500		0.065	1	0.1365	2.1	0.2015	3.1	0.234	3.6	0.637	9.8
	Til	1. Variety - Pant Masoor-4,406, 639, NDL-1, DPL-15 2- Seed rate /ha - 40-60 Kg 3. Sowing Time - 15 the October to November 4. Fertilizers requirement / ha N- 20.0 Kg , P- 50Kg, K- 40 Kg 5. FYM: 50 Quintal 6. Flowering Period: 60 to 75 days. 7. Crop Duration: 130-145 days. 8. Harvesting time : March To April <b>Note-</b> Hence demonstration cost of Lentil /ha is Rs 10000.00 and the Total cost increases @ 10 % for next year.	0.10000		0.100	1	0.21	2.1	0.2	2	0.39	3.9	0.900	9
Distri- bution	Seed	Distribution of high yield verity seed of Arhar, Wheat and maize, etc.	0.05000		0.05	1	0.15	3	0.1	2	0.05	1	0.35	7
	Animal Husban- dry	Distribution of free medicines and feed for animals, demo purpose	0.20000		0.2	1	0.4	2	0.2	1	0.6	3	1.4	7
	Agricul- ture Toolkit	Distribution of agriculture toolkit to the individual.	0.02000		0.3	15	1.2	60	1.3	65	1.5	75	4.3	215

					Fin	No	Fin	No	Fin	No	Fin	No	Fin	No
	Shisham	Source from Agriculture Department	0.00026		0.0208	80	0.026	100	0.0195	75	0.0312	120	0.0975	375
	Guava		0.00045		0.0675	150	0.081	180	0.09	200	0.1125	250	0.351	780
	Amla		0.00045		0.0675	150	0.1125	250	0.09	200	0.12375	275	0.3938	875
	Citrus		0.00038		0.0665	175	0.095	250	0.114	300	0.1235	325	0.399	1050
	TOTAL AMOUNT			1.445		3.6154		3.6184		5.78335		14.462		
Former Contribution 10% of the total cast on labor charge					0.1445		0.36154		0.36184		0.57834		1.4462	

## Riniyaivbendepur

Type	Seed Demonstration	Details	Rate (in lacs)	No. of beneficiary	2009-10		2010-11		2011-12		2012-13		Total	
					Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
Rabi Season	Wheat	1. Variety K 8027 , NW-1012, 1076, HDR-77, Raj -107 2. Sowing Time: 15 November to 25 December 3- Seed rate – 100 -125 Kg/ hectare 4- Requirement of fertilizers / ha N- 125 Kg , P- 70 -75 Kg, K-70-75 Kg 5. FYM: 60 q 6. Flowering Period: 80 to 85 days. 7. Crop Duration: 120-145 days. 8. Harvesting time : April to May 9. Yield: Irrigated: 50-60 q/ha Un-irrigated: 30-35 q/ha <b>Note-</b> Hence demonstration cost of wheat /ha is Rs 13000.00 and the Total cost increases @ 10 % for next year	0.13000		0.091	0.7	0.221	1.7	0.234	1.8	0.351	2.7	0.897	6.9
	Barley	1. Variety RD-2508, NB-1,2,3, Haritma, Azad 2. Sowing Time: 20 October to 7 November 3- Seed rate – 80 Kg/ hectare 4- Requirement of fertilizers / ha N- 60 Kg , P- 30-45 Kg, K-30 Kg 3. Yield: Irrigated: 30-40 q/ha FYM: 60 q 4. Flowering Period: 80 to 85 days. 5. Crop Duration: 120-145 days. 6. Harvesting time : March To April 7. Un-irrigated: 20-25 q/ha Irrigated: 35-40 q/ha <b>Note-</b> Hence demonstration cost of Barley /ha is Rs 10000.00 and the Total cost increases @ 10 % for next year.	0.10000		0.040	0.4	0.07	0.7	0.09	0.9	0.16	1.6	0.360	3.6



	Gram	1 Variety Rainfed - J.G. – 315 , Avrdhi 2. Sowing Time: 20 October to 15 November 3. Seed rate /ha – 75 -80 Kg 4. Fertilizers requirement / ha N- 25.0 Kg , P- 80Kg, K- 30 Kg 5. FYM: 60 q 6. Flowering Period: 60 to 75 days. 7. Crop Duration: 130-145 days. 8. Harvesting time : March To April 9. Harvesting time : February-March <b>Note-</b> Hence demonstration cost of Gram /ha is Rs 16800.00 and the Total cost increases @ 10 % for next year.	0.16800		0.084	0.5	0.2688	1.6	0.2688	1.6	0.42	2.5	1.042	6.2
Kharif Season	Arahar	1. Variety -Long Duration: Malviya - 13 NA -1, NA-2 Short Duration: UPAS-120, ICPL-151, 8801 2- Seed rate /ha – 20 Kg 3. Sowing Time: June-July 4- Fertilizers requirement / ha N- 20.0 Kg , P- 50Kg, K- 40 Kg 4. FYM: 50 q 5. Flowering Period: Long Duration:160 to 175 days. Short Duration: 110-120 days 6. Crop Duration: Long Duration: 270-280 days. Short Duration: 130-140 days 7. Harvesting time : Long Duration: March To April, Short Duration: November to December 8. Yield : Long Duration: 18-20 q/ha Short Duration: 20-25 q/ha <b>Note-</b> Hence demonstration cost of Arahar /ha is Rs 10000.00 and the Total cost increases @ 10 % for next year.	0.10000		0.070	0.7	0.19	1.9	0.16	1.6	0.31	3.1	0.730	7.3

Maize	1. Variety: Hybrid: Ganga-2, 11, Shaktiman, Dakkan-7, Prakash, Sartaj 2. Sankul: Tarun, Naveen, Kanchan, Sweta, Prabhat, Gaurav 3. Requirement of Seed /ha - 15 kg l 3. Sowing Time - 15 th July to 15 th August 4. Requirement of fertilizers / ha N- 60.0 Kg , P- 40.00Kg, K- 40.00 Kg 5. Fertilizers requirement / ha N- 80.0 Kg , P- 50Kg, K- 40 Kg a. FYM: 50 q 3. 7. Flowering Period: 80-85 days. 8. Crop Duration: 120 to 130 days. 9. Harvesting time : 25 September to 5 October 10. Yield: Grain: 18-20 q/ha Dry Fodder: 200-250 q/ha <b>Note-</b> Hence demonstration cost of SORGHUM /ha is Rs 6500.00 and the Total cost cost increases @ 10 % for next year.	0.06500		0.000	0	0.039	0.6	0.0585	0.9	0.0845	1.3	0.182	2.8
Til	1. Variety - Pant Masoor-4,406, 639, NDL-1, DPL-15 2- Seed rate /ha - 40-60 Kg 3. Sowing Time - 15 th October to November 4. Fertilizers requirement / ha N- 20.0 Kg , P- 50Kg, K- 40 Kg 5. FYM: 50 q 6. Flowering Period: 60 to 75 days. 7. Crop Duration: 130-145 days. 8. Harvesting time : March To April <b>Note-</b> Hence demonstration cost of Lentil /ha is Rs 10000.00 and the Total cost increases @ 10 % for next year.	0.10000		0.000	0	0.06	0.6	0.08	0.8	0.12	1.2	0.260	2.6

Distributi on	Seed	Distribution of high yield verity seed of Arhar, Wheat and maize, etc.	0.05000		0.05	1	0.1	2	0.05	1	0.1	2	0.3	6
	Animal Husbandry	Distribution of free medicines and feed for animals, demo purpose	0.20000		0.2	1	0.2	1	0.4	2	0.6	3	1.4	7
	Agriculture Toolkit	Distribution of agriculture toolkit to the individual.	0.02000		0.24	12	0.9	45	0.7	35	1.1	55	2.94	147
	Shisham	Source from Agriculture Department	0.00026		0.01	25	0.01	25	0.01	25	0.01	25	0.03	100
	Guava		0.00045		0.02	50	0.03	75	0.03	75	0.05	100	0.14	300
	Amla		0.00045		0.02	50	0.03	75	0.05	100	0.06	125	0.16	350
	Citrus		0.00038		0.03	75	0.04	100	0.04	100	0.10	250	0.20	525
TOTAL AMOUNT					0.86		2.16		2.16		3.45		8.63	
Former Contribution 10% of the total cast on labor charge					0.09		0.22		0.22		0.34		0.86	

## Sarsai

Type	Seed Demonstration	Details	Rate (in lacs)	No. of beneficiary	2009-10		2010-11		2011-12		2012-13		Total	
					Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
Rabi Season	Wheat	1. Variety K 8027 , NW-1012, 1076, HDR-77, Raj -107 2. Sowing Time: 15 November to 25 December 3- Seed rate – 100 -125 Kg/ hectare 4- Requirement of fertilizers / ha N- 125 Kg , P- 70 -75 Kg, K-70-75 Kg 5. FYM: 60 Ou. 6. Flowering Period: 80 to 85 days. 7. Crop Duration: 120-145 days. 8. Harvesting time : April to May 9. Yield: Irrigated: 50-60 Q/ha Un-irrigated: 30-35 Q/ha <b>Note-</b> Hence demonstration cost of wheat /ha is Rs 13000.00 and the Total cost increases @ 10 % for next year	0.13000		0.065	0.5	0.195	1.5	0.169	1.3	0.234	1.8	0.663	5.1
	Barlay	1. Variety RD-2508, NB-1,2,3, Haritma, Azad 2. Sowing Time: 20 October to 7 November 3- Seed rate – 80 Kg/ hectare 4- Requirement of fertilizers / ha N- 60 Kg , P- 30-45 Kg, K-30 Kg 3. Yield: Irrigated: 30-40 Q/ha FYM: 60 Q 4. Flowering Period: 80 to 85 days. 5. Crop Duration: 120-145 days. 6. Harvesting time : March To April 7. Un-irrigated: 20-25 Q/ha Irrigated: 35-40 Q/ha <b>Note-</b> Hence demonstration cost of Barley /ha is Rs 10000.00 and the Total cost increases @ 10 % for next year.	0.10000		0.020	0.2	0.04	0.4	0.07	0.7	0.14	1.4	0.270	2.7

	Gram	1 Variety Rainfed - J.G. – 315 , Avrdhi 2. Sowing Time: 20 October to 15 November 3. Seed rate /ha – 75 -80 Kg 4. Fertilizers requirement / ha N- 25.0 Kg , P- 80Kg, K- 30 Kg 5. FYM: 60 Q 6. Flowering Period: 60 to 75 days. 7. Crop Duration: 130-145 days. 8. Harvesting time : March To April 9. Harvesting time : February-March <b>Note-</b> Hence demonstration cost of Gram /ha is Rs 16800.00 and the Total cost increases @ 10 % for next year.	0.16800		0.10 1	0.6	0.302 4	1.8	0.26 88	1.6	0.38 64	2.3	1.05 8	6.3
Kharif Season	Arahar	1. Variety -Long Durtion: Malviya -13 NA -1, NA-2 Short Duration: UPAS-120, ICPL-151, 8801 2- Seed rate /ha – 20 Kg 3. Sowing Time: June-July 4- Fertilizers requirement / ha N- 20.0 Kg , P- 50Kg, K- 40 Kg 4. FYM: 50 Q 5. Flowering Period: Long Duration:160 to 175 days. Short Duration: 110-120 days 6. Crop Duration: Long Duration: 270-280 days. Short Duration: 130-140 days 7. Harvesting time : Long Duration: March To April, Short Duration: November to December 8. Yield : Long Duration: 18-20 Q/ha Short Duration: 20-25 Q/ha <b>Note-</b> Hence demonstration cost of Arahar /ha is Rs 10000.00 and the Total cost increases @ 10 % for next year.	0.10000		0.09 0	0.9	0.22	2.2	0.25	2.5	0.27	2.7	0.83 0	8.3

	Maize	1. Variety: Hybrid: Ganga-2, 11, Shaktiman, Dakkan-7, Prakash, Sartaj 2. Sankul: Tarun, Naveen, Kanchan, Sweta, Prabhat, Gaurav 3. Requirement of Seed /ha - 15 kg 3. Sowing Time - 15 th July to 15 th August 4. Requirement of fertilizers / ha N- 60.0 Kg , P- 40.00Kg, K- 40.00 Kg 5. Fertilizers requirement / ha N- 80.0 Kg , P- 50Kg, K- 40 Kg a. FYM: 50 Q 3. 7. Flowering Period: 80-85 days. 8. Crop Duration: 120 to 130 days. 9. Harvesting time : 25 September to 5 October 10. Yield: Grain: 18-20 Q/ha Dry Fodder: 200-250 Q/ha <b>Note-</b> Hence demonstration cost of SORGHUM /ha is Rs 6500.00 and the Total cost cost increases @ 10 % for next year.	0.06500		0.01 3	0.2	0.026	0.4	0.05 2	0.8	0.10 4	1.6	0.19 5	3
	Til	1. Variety - Pant Masoor-4,406, 639, NDL-1, DPL-15 2- Seed rate /ha - 40-60 Kg 3. Sowing Time - 15 th October to November 4. Fertilizers requirement / ha N- 20.0 Kg , P- 50Kg, K- 40 Kg 5. FYM: 50 Q 6. Flowering Period: 60 to 75 days. 7. Crop Duration: 130-145 days. 8. Harvesting time : March To April <b>Note-</b> Hence demonstration cost of Lentil /ha is Rs 10000.00 and the Total cost increases @ 10 % for next year.	0.10000		0.01 0	0.1	0.03	0.3	0.06	0.6	0.12	1.2	0.22 0	2.2
Distri- bution	Seed	Distribution of high yield verity seed of Arhar, Wheat and maize, etc.	0.05000		0.05	1	0.1	2	0.05	1	0.1	2	0.3	6
	Animal Husban-dry	Distribution of free medicines and feed for animals, demo purpose	0.20000		0.2	1	0.4	2	0.2	1	0.6	3	1.4	7
	Agricu-Iture Toolkit	Distribution of agriculture toolkit to the individual.	0.02000		0.3	15	0.9	45	1	50	1.5	75	3.7	185

					Fin	No	Fin	No	Fin	No	Fin	No	Fin	No
Shisham	Source from Agriculture Department	0.00026		0.01	35	0.01	50	0.03	100	0.03	100	0.07	285	
Guava		0.00045		0.02	55	0.05	100	0.07	150	0.09	200	0.23	505	
Amla		0.00045		0.02	55	0.05	100	0.07	150	0.09	200	0.23	505	
Citrus		0.00038		0.03	85	0.05	125	0.08	200	0.11	300	0.27	710	
TOTAL AMOUNT				0.94		2.36		2.36		3.77		9.43		
Former Contribution 10% of the total cast on labor charge				0.09		0.24		0.24		0.38		0.94		

The above action plan has been prepared according to the need and resources available in the project area. Individual activity fund distribution has been made the details would be given beneficiary wise in the project file. Demonstration of crop, animal husbandry camp distribution of sheed and plantation of fruit trees are the essential requirement of the project area. Therefore the above plan has been constituted according to the aforesaid activity and the funds were allocated as per the norms.

## **MAJOR PROBLEMS OF THE WATERSHEDS**

- Moisture stress-Drought conditions
- Erosion hazard
- Excess runoff .
- Land degradation
- Low fertility of soil
- Ground water depletion/Low ground water table, poor quality of groundwater
- Low cropping intensity
- Lack of technical knowledge
- Lack of irrigation facilities
- Low productivity of crops
- Low availability of drinking water for human as well as animals
- Overgrazing
- Poor vegetative cover
- Poor/low productive breeds of milch animals
- Lower milk production
- Lack of feed & fodder availability
- Non availability of wood/fuel
- Lack of proper market facilities
- Lack of educational, transportation, medical & health care facilities
- Low wages
- Small land holdings
- Low income of the households
- Lack of employment opportunity.
- Migration from the project area.

An annual action plan for the entire activity of the project according to availability of budget have been proposed for the annual schedule from 2009 to 2013.The details given below.



Financial Progress Watershed Works							Fin. : in Lacs		
For Project sanctioned 2010-11									
	Activity	Target as AAP					Actual Achievment		
		2010-11	2011-12	2012-13	2013-14	Total	2010-11	2011-12	Justifi- cation
Land Development	Afforestation	2.78	5.00	4.79	6.00	18.56			
	Horticulture	1.13	2.04	1.96	2.44	7.58			
	Agriculture								
	Pasture								
SMC	Staggered trenching								
	Contour Bunding	19.54	35.03	33.60	42.07	130.24			
	Bench terracing								
	Others FB/MB/PFB	14.90	26.73	25.61	32.08	99.31			
Veg. & Engg. Structures	Earthen Checks	7.71	13.83	13.28	16.62	51.45			
	Brushwood Checks								
	Gully Plugs	2.72	4.88	4.68	5.87	18.15			
	Loose Boulders	0.67	1.19	1.15	1.44	4.45			
	Gabion Structures								
	Others								
WHS	Farm Ponds	1.02	1.85	1.75	2.20	6.83			
	Checkdams/Tanks	6.11	10.93	10.52	13.15	40.71			
	Nallah Bunds	1.42	2.57	2.46	3.08	9.53			
	Percolation Tanks	1.25	2.23	2.15	2.69	8.32			
	Ground Water Recharge Structures	1.25	2.23	2.15	2.69	8.32			
	Others WHB/SB	1.91	3.43	3.31	4.13	12.78			
Livelihood	on-Farm activities	2.01	8.03	6.02	4.01	20.07			
	off-Farm activities	4.68	18.73	14.05	9.37	46.83			
	Pdn. System	6.23	24.92	26.71	16.47	74.33			
	Total	75.33	163.62	154.20	164.31	557.46			

# **CHAPTER – 6**

## **CAPACITY BUILDING PLAN**

The total amount in this activity is Rs 25.20 Lacs have been allocated. According to distribution of fund in different level, a comprehensive detail action plan has been prepared for proper execution of human resource development in the project activities.

**YEARWISE FINANCIAL BREAK UP OF INST. & CAP. BULDG. PROGRAMME OF IWMP-III, DISTRICT-JALAUN**

<b>PIA LEVEL</b>								
<b>S. No.</b>	<b>Micro watershed</b>	<b>Project Area</b>	<b>Sanctioned Amount</b>	<b>Institutional &amp; Capacity Building 5% of the Total Project Cost</b>				
				<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>	<b>TOTAL</b>
1	Atra Kala	764.7	4.59	1.06	1.06	1.06	0.32	3.49
2	Charsoni	1205.4	7.23	1.66	1.66	1.66	0.51	5.50
3	Babai	725.7	4.35	1.00	1.00	1.00	0.30	3.31
4	Sarsai	785.3	4.71	1.08	1.08	1.08	0.33	3.58
5	Riniya Bendepur	718.9	4.31	0.99	0.99	0.99	0.30	3.28
	<b>Total</b>	<b>4200</b>	25.20	5.80	5.80	5.80	1.76	19.15
<b>WCDC LEVEL</b>								
1	Atra Kala	764.7	4.59	0.23	0.23	0.23	0.14	0.83
2	Charsoni	1205.4	7.23	0.36	0.36	0.36	0.22	1.30
3	Babai	725.7	4.35	0.22	0.22	0.22	0.13	0.78
4	Sarsai	785.3	4.71	0.24	0.24	0.24	0.14	0.85
5	Riniya Bendepur	718.9	4.31	0.22	0.22	0.22	0.13	0.78
	<b>Total</b>	<b>4200</b>	25.20	1.26	1.26	1.26	0.76	4.54
<b>SLNA LEVEL</b>								
1	Atra Kala	764.7	4.59	0.09	0.09	0.09	0.00	0.28
2	Charsoni	1205.4	7.23	0.14	0.14	0.14	0.00	0.43
3	Babai	725.7	4.35	0.09	0.09	0.09	0.00	0.26
4	Sarsai	785.3	4.71	0.09	0.09	0.09	0.00	0.28
5	Riniya Bendepur	718.9	4.31	0.09	0.09	0.09	0.00	0.26
	<b>Total</b>	<b>4200</b>	25.20	0.50	0.50	0.50	0.00	1.51

### Year-wise bifurcation of capacity building activities IWMP-III, Jalaun

		First Year					Second Year			
S. No.	Level	Total no of pers.	No of person to be trained	No of training to be conduct	Training day	Total Cost	No of person to be trained	No of training to be conduct	Training day	Total Cost
1	SLNA					0.50				0.50
2	WCDC	15	20	2	3	1.26	13	3	3	1.26
3	PIA	21	21	6	5	1.16	21	4	4	1.16
4	WDT	4	4	2	4	0.58	4	4	4	0.58
5	SHG	10	60	2	3	1.45	80	2	4	1.45
6	UG	10	100	2	2	1.74	45	2	2	1.74
7	WC	11	24	3	4	0.58	24	3	4	0.58
	TOTAL		250			7.27	208			7.25

Third Year				Fourth Year			
No of person to be trained	No of training to be conduct	Training day	Total Cost	No of person to be trained	No of training to be conduct	Training day	Total Cost
			0.50				1.51
7	4	3	1.26	7	2	4	0.76
21	3	5	1.16	21	2	2	0.35
4	4	4	0.58	4	3	5	0.18
100	2	3	1.45	100	2	3	0.44
50	2	1	1.74	55	2	1	0.53
24	3	4	0.58	24	3	4	0.18
227			7.27	232			3.94



## List of identified training institutes for capacity building

**Project IWMP - III**

**District – JALAUN**

<b>Sr. No.</b>	<b>Name of the Training Institute</b>	<b>Full Address with contact no, website &amp; e-mail</b>	<b>Designation of the Head of Institute</b>	<b>Type of Institute</b>	<b>Area(s) of specialization</b>	<b>No. of training assigned</b>	<b>No. of persons to be trained</b>	<b>Allocation to be made to the institute</b>
1	2	3	4	5	6	7	8	9
1	CSA-KANPUR	<i>Vice Chancellor CSA-KANPUR</i>	<i>Vice Chancellor</i>	EDUCATIONA L	Soil Conservation	2	200	2.26
2	SIRD	<i>District training centre ,Jalaun</i>	<i>DTO</i>	TRAINNING	WATERSHED MANAGEMENT	2	200	2.26

# **CHAPTER -7**

## **PHASING OF PROGRAMME & BUDGETING**

# FINANCIAL BREAKUP OF VARIOUS COMPONENT IN TERMS OF % OF IWMP-III, DISTRICT-JALAUN

Amount in Lacs

S. No.	Micro Watershed	Project Area	Sanctioned Amount	Administrative 10%	EPA 4%	Institution and CB 5%	DPR 1%	Watershed development work 56%	Livelihood for asset less 9%	Production system and Microenterprises 10%	Monitoring 1%	Evaluation 1%	Consolidation 3%	Total 100%
1	Atra Kala	764.7	91.76	9.18	3.67	4.59	0.92	51.39	8.26	9.18	0.92	0.92	2.75	91.76
2	Charsoni	1205.4	144.65	14.46	5.79	7.23	1.45	81.00	13.02	14.46	1.45	1.45	4.34	144.65
3	Babai	725.7	87.08	8.71	3.48	4.35	0.87	48.77	7.84	8.71	0.87	0.87	2.61	87.08
4	Sarsai	785.3	94.24	9.42	3.77	4.71	0.94	52.77	8.48	9.42	0.94	0.94	2.83	94.24
5	Riniya Bendepur	718.9	86.27	8.63	3.45	4.31	0.86	48.31	7.76	8.63	0.86	0.86	2.59	86.27
	<b>Total</b>	<b>4200</b>	<b>504.00</b>	<b>50.40</b>	<b>20.16</b>	<b>25.20</b>	<b>5.04</b>	<b>282.24</b>	<b>45.36</b>	<b>50.40</b>	<b>5.04</b>	<b>5.04</b>	<b>15.12</b>	<b>504.00</b>



**YEARWISE PHYSICAL AND FINANCIAL BREAK UP OF WORK COMPONENT OF IWMP-III, DISTRICT-JALAUN**

**Amount in  
Lacs**

**Watershed Development Works 56% of the Project Cost**

**Phy. in ha.**

S. No.	Micro watershed	Project Area	Sanctioned Amount	2010-11		2011-12		2012-13		2013-14		TOTAL	
				Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy (ha,)	Fin.
1	Atra Kala	764.7	45.88	102.39	6.88	223.29	15.00	218.47	14.68	220.54	14.82	764.70	51.39
2	Charsoni	1205.4	72.32	161.40	10.85	351.98	23.65	344.38	23.14	347.64	23.36	1205.40	81.00
3	Babai	725.7	43.54	97.17	6.53	211.90	14.24	207.33	13.93	209.29	14.06	725.70	48.77
4	Sarsai	785.36	47.12	105.16	7.07	229.33	15.41	224.38	15.08	226.50	15.22	785.36	52.78
5	Rinyaivbendepur	718.9	43.13	96.26	6.47	209.92	14.10	205.39	13.80	207.33	13.93	718.90	48.31
	Total	4200.06	252.00	562.39	37.80	1226.42	82.41	1199.96	80.64	1211.30	81.40	4200.06	282.24

# **CHAPTER -8**

## **CONSOLIDATION / EXIT STRATEGY**

## **WATERSHED DEVELOPMENT FUND**

The major source of financial assistance after post implementation period is Watershed Development Fund. The contribution of it will come mainly from the fund generated.

## **USER CHARGES**

Various user groups will be formed in village. These user groups will collect user according to the designated rules formed during the formation of user group. These funds will be transferred to the WDF funds as per these formulated rules. The secretary of watershed committee (WC) shall maintain the records.

## **SUSTAINABILITY AND ENVIRONMENT SECURITY**

In the proposed watershed management plan of I.W.M.P.-3 Jalaun watershed, proper blending of bio engineering measures will be applied on 60% of the total watershed area. Based on the results of studies conducted in this region, it is estimated that more 50% of the watershed area will be treated and consequently the soil loss and runoff from the area is expected to be reduced by 70% and 65% respectively. The proposed land use plan will improve the land utilization index and crop diversification index significantly as compared to the existing one. It will help in maintaining ecosystem integrity on sustained basis along with improving the livelihood security of the farming community.

## **ECONOMIC ANALYSIS**

Economic analysis of the project was carried by taking direct benefits and costs considering 25 year project life at 10 per cent discount rate. For this purpose of economic analysis, whole watershed development plan was divided into three sectors namely,

Agriculture, horticulture and forest/fuel wood plantation. Net present value (NPV), Benefit cost ratio (BC) ratio criteria were employed to judge the economic efficiency of each enterprise and sector.

### **AGRICULTURE**

In rainfed agriculture the development cost can be recovered within one year as the present rainfed agriculture is being done on well maintained field, therefore, does not require much investment.

# **CHAPTER -9**

## **EXPECTED OUTCOME**

## ABTRACT OF OUTCOMES

The overall assessment of the project certain parameters have been evaluated on the present and future basis. As mentioned in the above the food grain production according to the expenditure has been analyzed after the completion of the project.

### Ratio of Cost and Profit

S. No.	Name of Cereal	Area in ha	Production / ha in q	Invest Cost/ha	Rate/ q	Net profit/ ha	Total Net profit.
1	Jowar	330.63	16.77	4000	1000	12770	4222145.1
2	Arhar	457.83	7.87	2300	4500	33115	15161040.45
3	Urd/Mung	355.17	5.08	3300	800	764	271349.88
4	Wheat	753.28	28.2	4200	1000	24000	18078720
5	Mustard	160.9	4.26	2600	2000	5920	952528
	<b>Total</b>	<b>2057.81</b>					<b>38685783.43</b>

**Status After Work:**

S. No.	Name of Cereal	Area in ha	Production /ha in q	Invest Cost/ha	Rate/q	Net profit/ha	Total Net profit.
1	Jowar	350.23	20	4000	1000	16000	5603680
2	Arhar	480.5	8	2300	4500	33700	16192850
3	Urd/Mung	370.85	7.5	3600	800	2400	890040
4	Wheat	810.36	22	4200	1000	17800	14424408
5	Mustard	175.23	12	2600	2000	21400	3749922
	<b>Total</b>	<b>2187.17</b>					<b>40860900</b>

Bhoomi Sanrakshan after the treatment of Land

**40860900**

Bhoomi Sanrakshan before the treatment of Land

**38685783.43**

Net Profit

**2175116.57**

Ratio of cost and profit

**1.056225217**

**The above ratio clearly indicated that the conservation of land is extremely profitable.**

### SUMMARY OF EXPECTED /ESTIMATED OUTCOMES OF IWMP-III of District- Jalaun (2009-2010)

S. No.	Name of the District	Item	Unit of Measurement	Pre-project Status	Expected Post-project Status
1	2	3	4	5	6
	Jalaun	Status of water table	Meter	16.00-17.00	14.00-15.00
		Grand water structure repaired/ rejuvenated	-	-	-
		Quality of drinking water	Good	Good	Good
		Availability of drinking water	Meter	09 months	12 Months
		Increase in irrigation potential			
		Change in cropping/land use pattern	-	Jowar, Til	Double Cropping
		Area under agriculture crop	Hector	3666.00	3800.00
		i- Area under single crop	Hector	1180	1652
		ii- Area under double crop	Hector	1914	2400
		iii- Area under multiple crop	Hector	-	50
		iv-Cropping Intensity	Ha	-	-
		Increase in area under vegetation	Hector	175	250
		Increase in area under horticulture	Hector	165	300
		Increase in area under fuel & fodder	Hector	3.50	9.0
10.		Increase in milk production	%	3	4
11.		No. of SHGs	No.	16	25
12.		Increase in no. of livelihoods	No.	-	54
13.		Migration	No.	260	150
14.		SHG Federation formed	No.	-	-
15.		Credit Linkage with banks	-	-	-

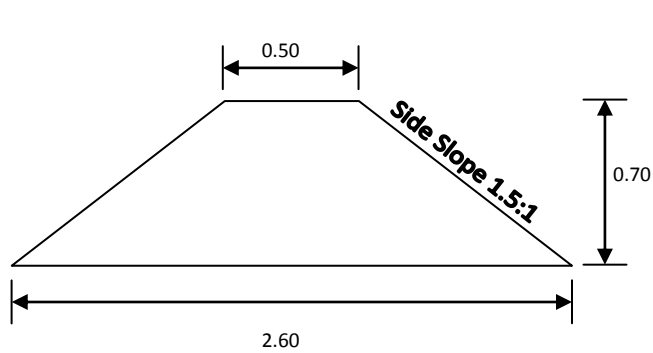


# **Chapter-10**

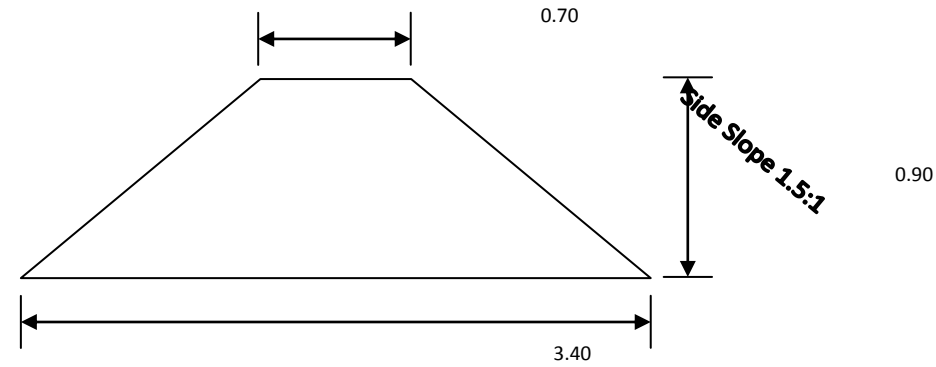
## **COST NORMS & DESIGN OF STRUCTURE PROPOSED**

# DRAWING OF C.B., S.B., P.B., AND M.B.

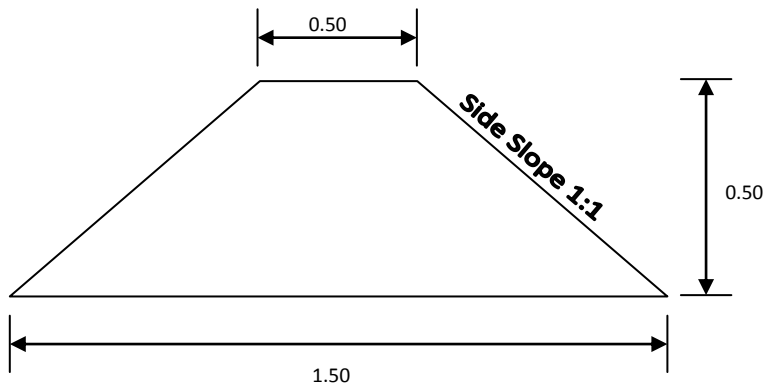
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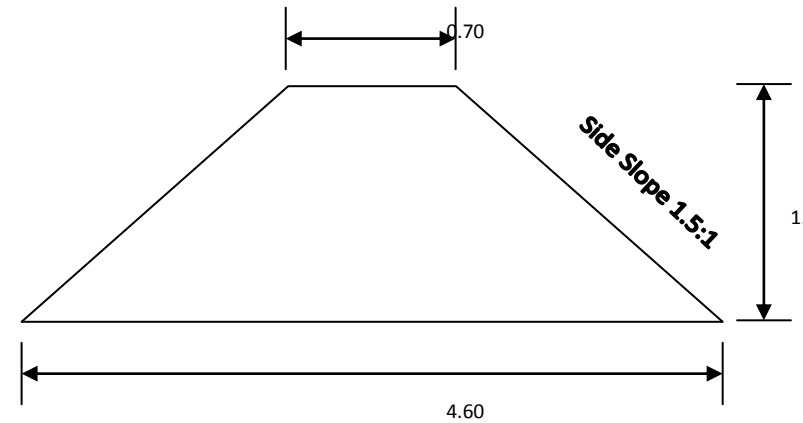
(C.B., Cross-Section – 1.085 m<sup>2</sup>)



(S.B., Cross-Section – 1.845m<sup>2</sup>)



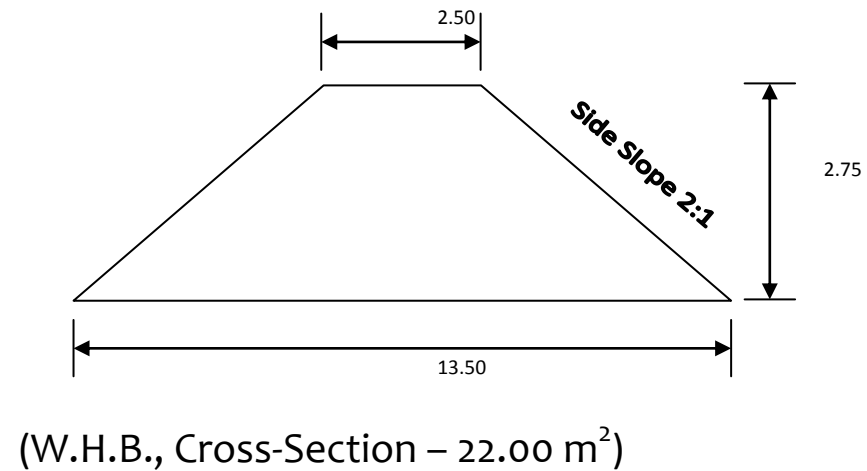
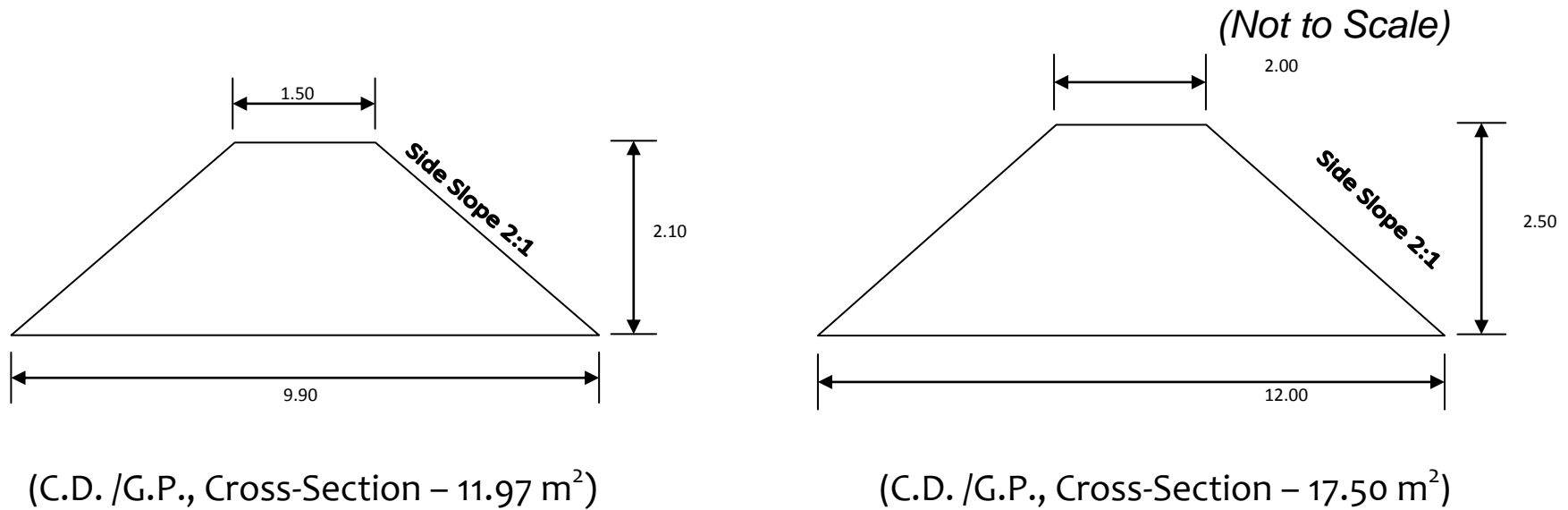
(Field Bund, Cross-Section – 0.50 m<sup>2</sup>)



(S.B. /P.B. /M.B., Cross-Section – 3.445 m<sup>2</sup>)

(All dimensions in Meter)

## DRAWING OF EARTHEN CHEKDAM / GULLY PLUG



(All dimensions in Meter)

## DESIGN OF CONTOUR BUND

Type of Soil	-Loam,Sandy Loam
Rain fall	-24 hr in cm -25 cm
Field Slope -1%	
Vertical Interval (VI)	$= [s/3+2] \times 0.3$ $= [1/3+2] \times 0.3$ $= 0.70 \text{ m}$
Horizontal Interval (HI)	$= 100 \times V.I/s$ $= 100 \times 0.7/1$
Height of bund h	$= \sqrt{(Re \times VI)/50}$ Re=maximum rainfall in cm $= \sqrt{(25 \times 0.7)/50}$ $= \sqrt{0.35}$ $= 0.59$ <b>Say 0.60 m</b>
Free board	=15% of height minimum -10 cm
Height	$= 0.60 + 0.10$ $= 0.70 \text{ m}$
Taking top width of bund 0.50 m and side slope 1.5:1	
Then base of Bund	$= 0.50 + (1.50 \text{ d}) \times 2$ $= 2.60 \text{ m}$
Cross-Section of bund	$= (0.50 + 2.60) \times 0.70 / 2$ $= 1.085 \text{ m}^2$
Length of bund	$= 100 \text{ s} / V.I.$ $= 100 \times 1 / 0.70$ $= 142.85 \text{ m/ha}$ <b>Say 150 m/ha</b>
Earth work/ha	$= 150 \times 1.085$ $= 162.75 \text{ cum}$
Cost Rs. / ha	$= 162.75 \times 39.16 = 6373.29$ <b>Say 6375.00</b>

## DESIGN OF SUBMERGENCE BUND

Types of soil – -Loam,Sandy Loam

Rainfall intensity for 24 hrs – 25cm

Field slope 3%

$$V.I. = [s/3+2] \times 0.30$$

$$= 0.90 \text{ m}$$

Horizontal Interval =  $(100 \times V.I.) / s$

$$= (100 \times 0.90) / 3$$

$$= 30 \text{ m}$$

Height of bund  $h = \sqrt{(R \times V.I.) / 50}$

$$= \sqrt{(25 \times 0.90) / 50} = \sqrt{0.45} = 0.67 \text{ m. Say } 0.70 \text{ m}$$

Free board 20% of height minimum 20cm

Total Height

$$= 0.90 \text{ m}$$

Taking top width of bund 0.70m and side slope 1.5:1

Bottom of bund

$$= 0.70 + 2 \times 1.5d$$

$$= 0.70 + 2.70$$

$$= 3.40$$

Cross Section of Submergence Bund

$$= (0.70 + 3.40) \times 0.90 / 2$$

$$= 1.845 \text{ m}^2$$

Length of bund

$$= 100 \text{ s} / V.I.$$

$$= (100 \times 3) / 0.90$$

$$= 333 \text{ m}$$

Feasible length

$$100 + 25 + 25$$

$$= 150 \text{ m}$$

Earth work/ha

$$= 150 \times 1.845$$

$$= 276.75$$

Cost per ha

$$= 276.75 \times 39.16$$

$$= 10,837.53$$

$$\text{Say } 10,850 = 00$$

### **TYPICAL SECTION OF FIELD BUND**

Top width	= 0.50 m
Side slope	= 1:1
Height of bound	= 0.50 m
Bottom Width	= 1.50 m
Cross section	= $(0.50+1.50) \times 0.50 / 2 = 0.50 \text{ m}^2$
Length per hectare	= 200 m
Earthwork	= $200 \times 0.50 = 100 \text{ cum}$
Cost 39.16/cum	= Rs. 3916.00
Cost per hectare	= Rs. 3916.00

### **TYPICAL SECTION OF P.B., M.B., S.B.**

Top width	= 0.70 m
Side slope	= 1.5:1
Height	= 1.30 m
Bottom	= 4.60 m
Cross section	= $(0.70+4.60) \times 1.30 / 2$ = $3.445 \text{ m}^2$
Cost/ meter	= Rs. 142.00

### **TYPICAL SECTION OF EARTHEN CHECK DAM / GULLY PLUG**

Top width	= 1.50 m
Side slope	= 2:1
Height	= 2.10m
Bottom Width	= 9.90 m
Cross section	= $(1.50 + 9.90) \times 2.10 / 2$ = 11.97 m <sup>2</sup>
Cost per meter	= Rs. 551.45

### **TYPICAL SECTION OF CHECK DAM / GULLY PLUG**

Top width	= 2.00m
Side slope	= 2:1
Height	= 2.50 m
Bottom Width	= 12.00 m
Cross Section	= $(2.00 + 12.00) \times 2.50 / 2$ = 17.50 m <sup>2</sup>
Cost /meter	= Rs. 839.12

## TYPICAL SECTION OF W.H.B

Top width	= 2.50 m
Side slope	= 2:1
Height	= 2.75 m
Bottom Width	= 13.50 m
Cross section	$= (2.50 + 13.50) \times 2.75 / 2$ $= 22.00 \text{ m}^2$
Per meter cost	= Rs. 1085.92



# **CHAPTER -11**

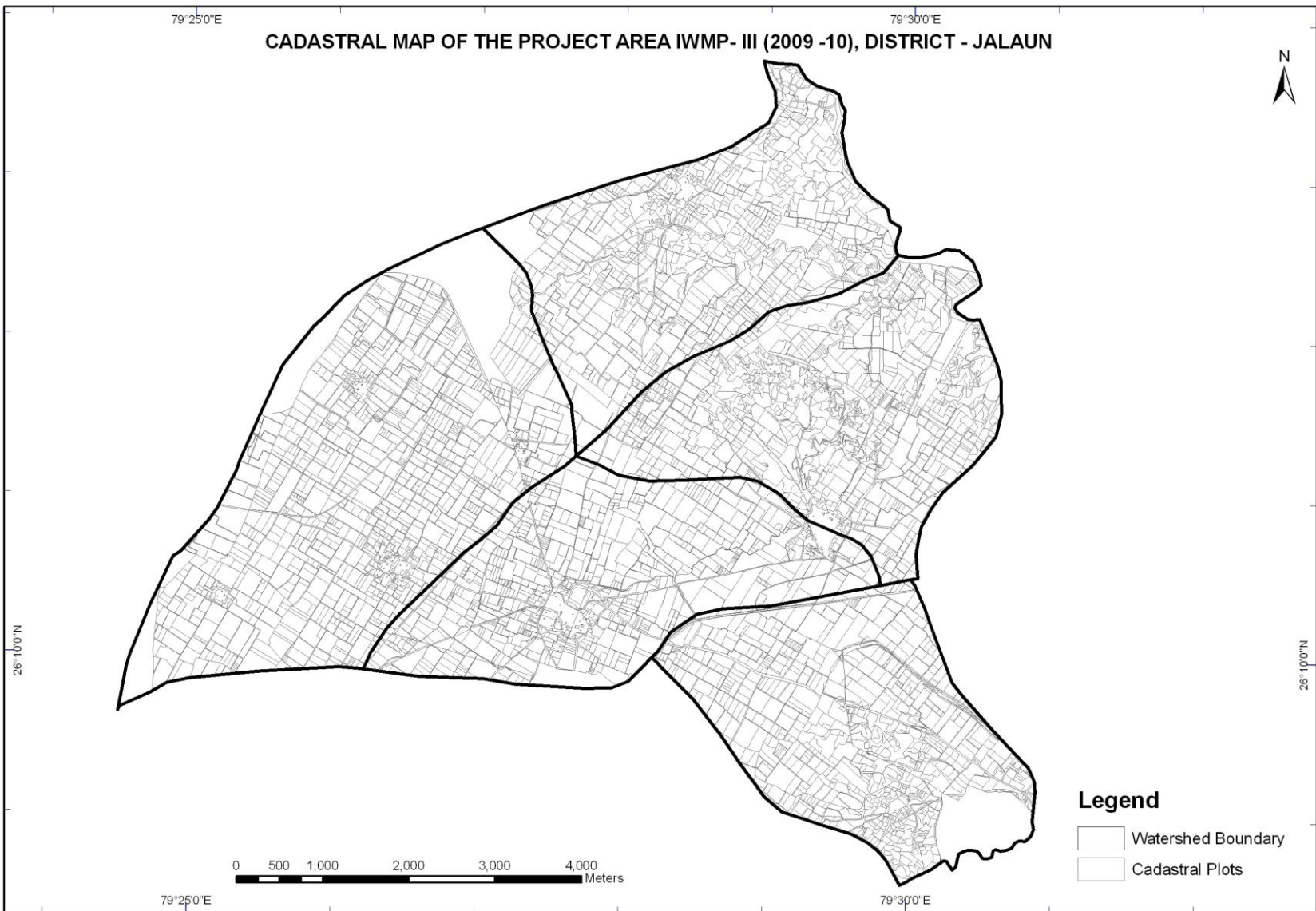
## **MAPS**

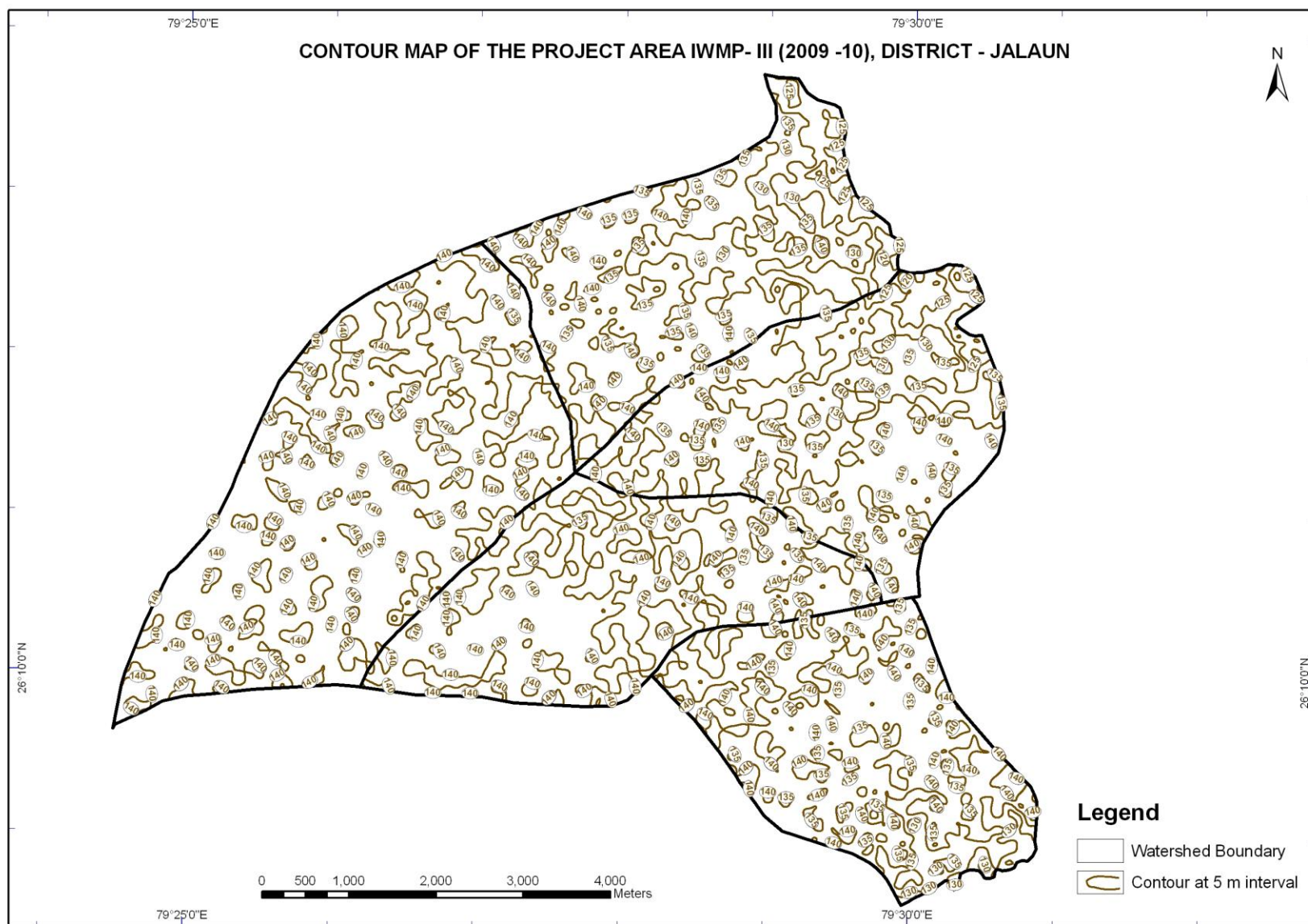
# MAPS

An attempt has been to map the surface details of the project area, as per the instruction of the common Guide lines-2008, All the thematic maps of the study area have been prepared through using remote sensing and geographical information system(G.I.S.) technique, following the fundamental norms of the National Map Policy-2006. The details of the thematic maps have been given below.

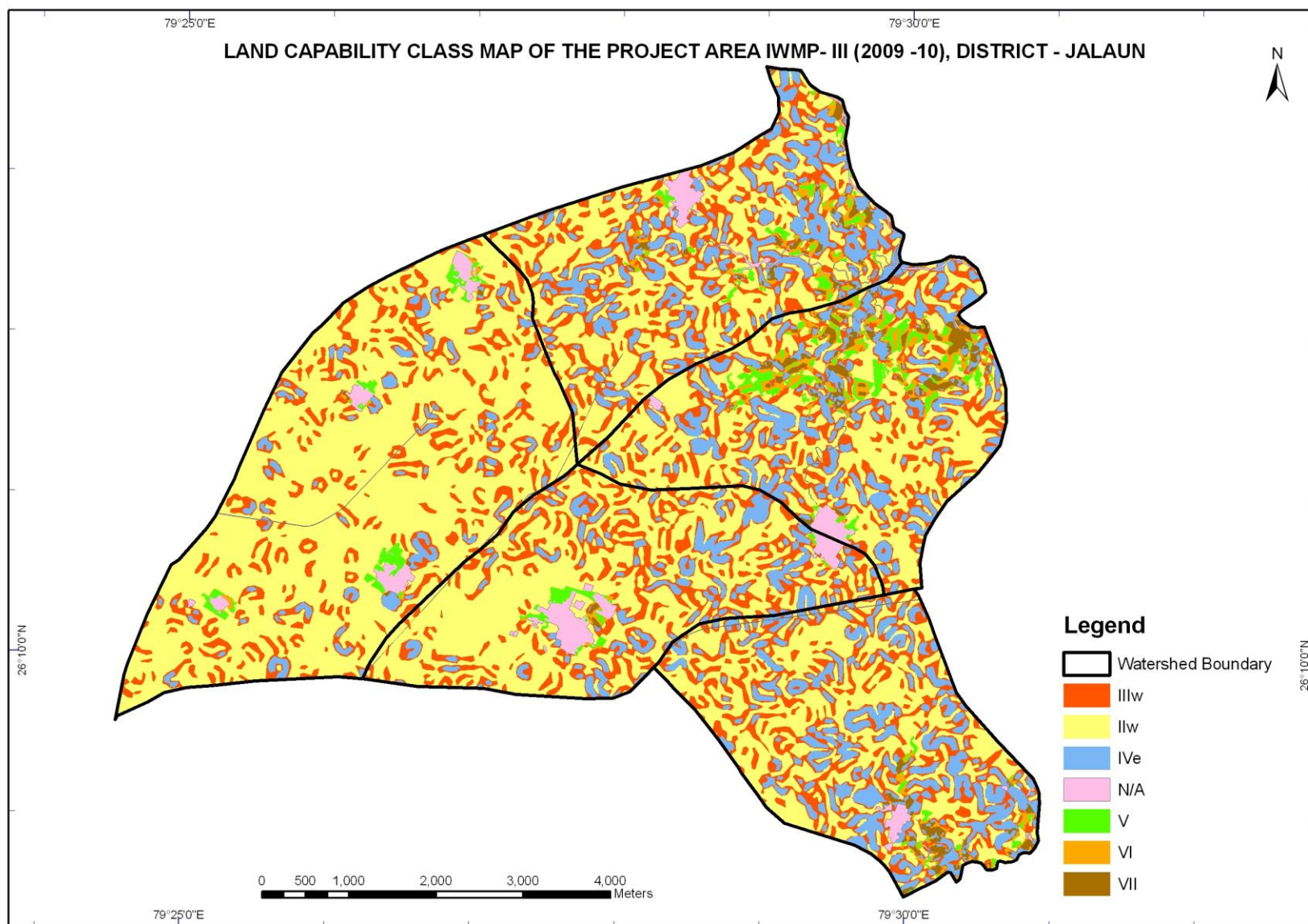
- 1- Cadastral Map
- 2- Countor map
- 3- LCC Map
- 4- Land use/ Land cover map
- 5- Action Plan- Atarakala
- 6- Action Plan- Charkauni
- 7- Action Plan- Sarsai.
- 8- Action Plan- Babai
- 9- Action Plan- Ronia Bedepur

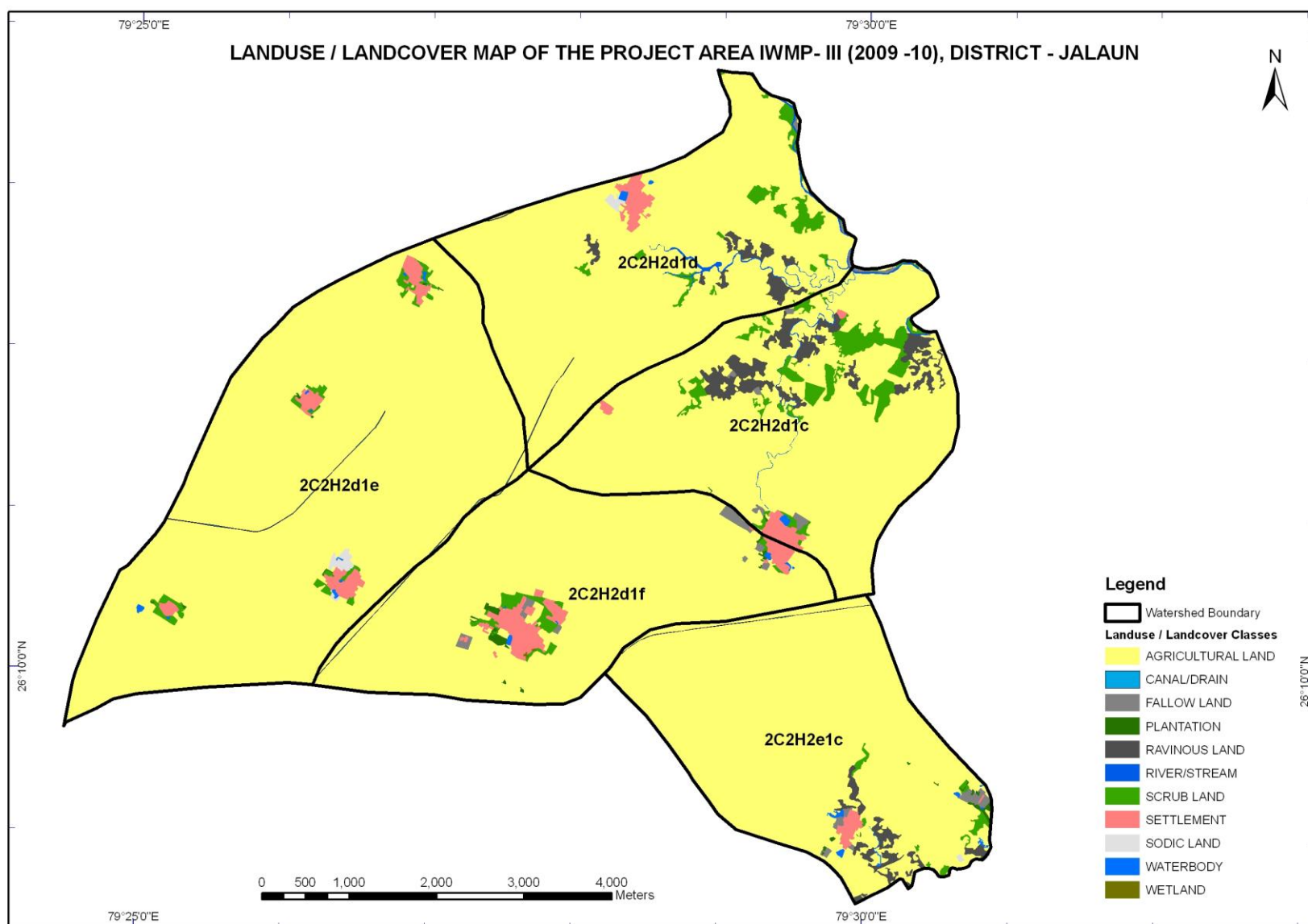
Action Plan- These maps were interpreted from the high resolution satellite data freely available on internet.









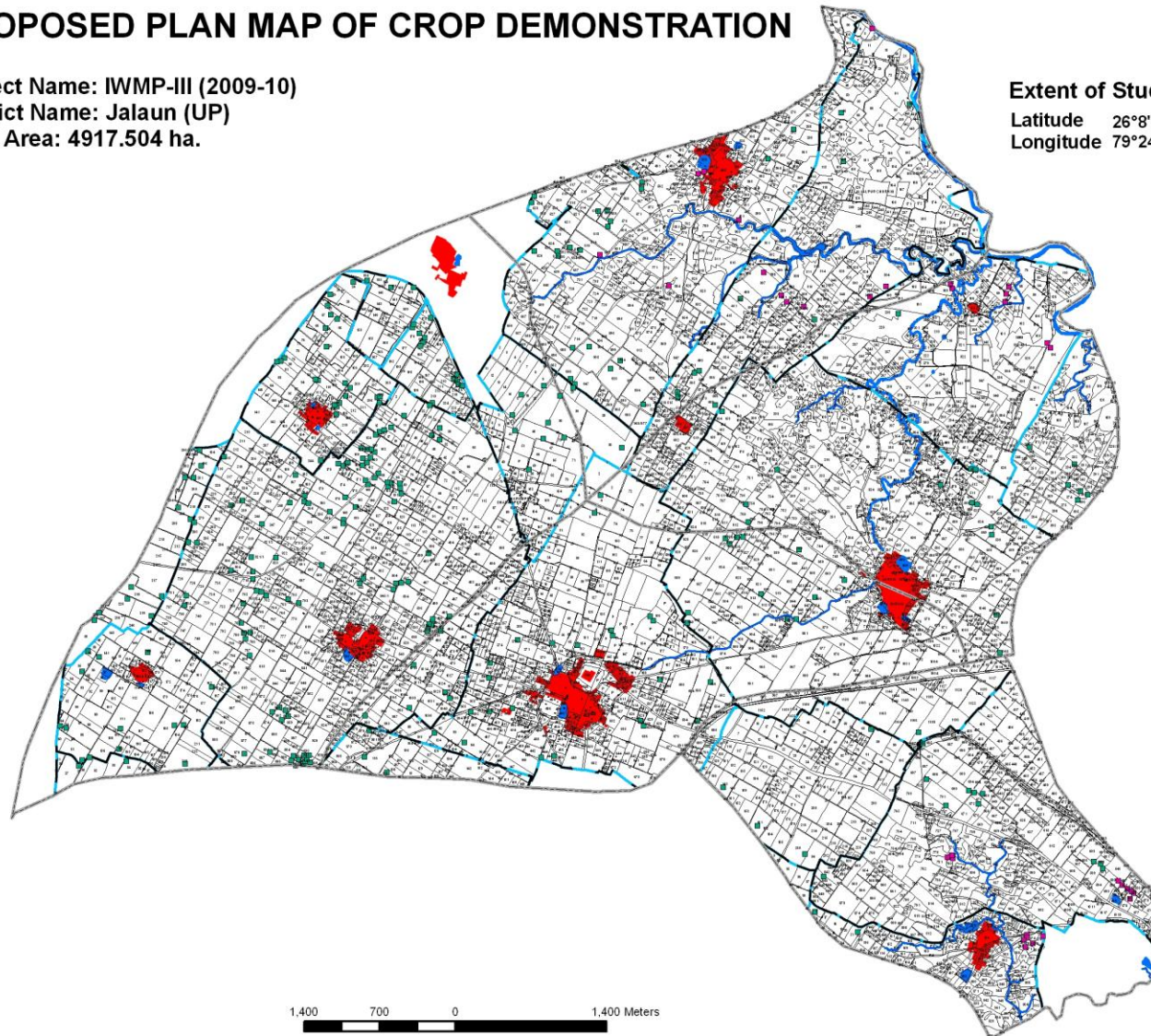


## PROPOSED PLAN MAP OF CROP DEMONSTRATION

Project Name: IWMP-III (2009-10)  
District Name: Jalaun (UP)  
Total Area: 4917.504 ha.

### Extent of Study Area

Latitude 26°8'35.186"N - 26°13'41.517"N  
Longitude 79°24'26.45"E - 79°30'53.848"E



### Legend

#### CROP DEMONSTRATION

- Kharif Crop
- Rabi Crop
- Roads
- Micro Watershed Boundary
- Gram Panchayat Boundary
- Village Boundary
- Cadastral Plots
- Waterbody
- Settlements
- Canal



# ACTION PLAN MAP OF JALAUN

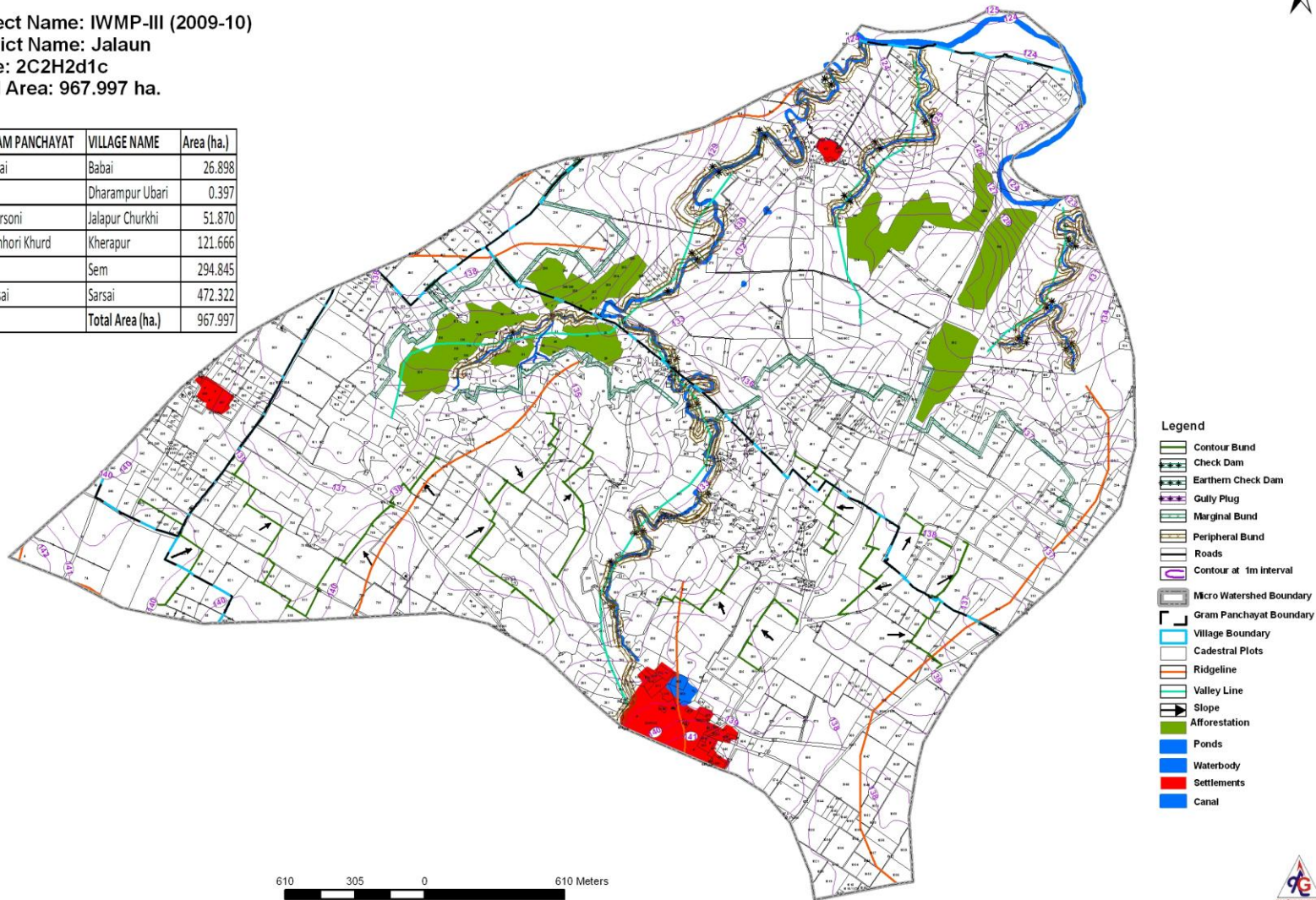
Project Name: IWMP-III (2009-10)

District Name: Jalaun

Code: 2C2H2d1c

Total Area: 967.997 ha.

S.No.	GRAM PANCHAYAT	VILLAGE NAME	Area (ha.)
1	Babai	Babai	26.898
		Dharampur Ubari	0.397
2	Charsoni	Jalapur Churkhi	51.870
3	Bamhori Khurd	Kherapur	121.666
		Sem	294.845
4	Sarsai	Sarsai	472.322
		Total Area (ha.)	967.997





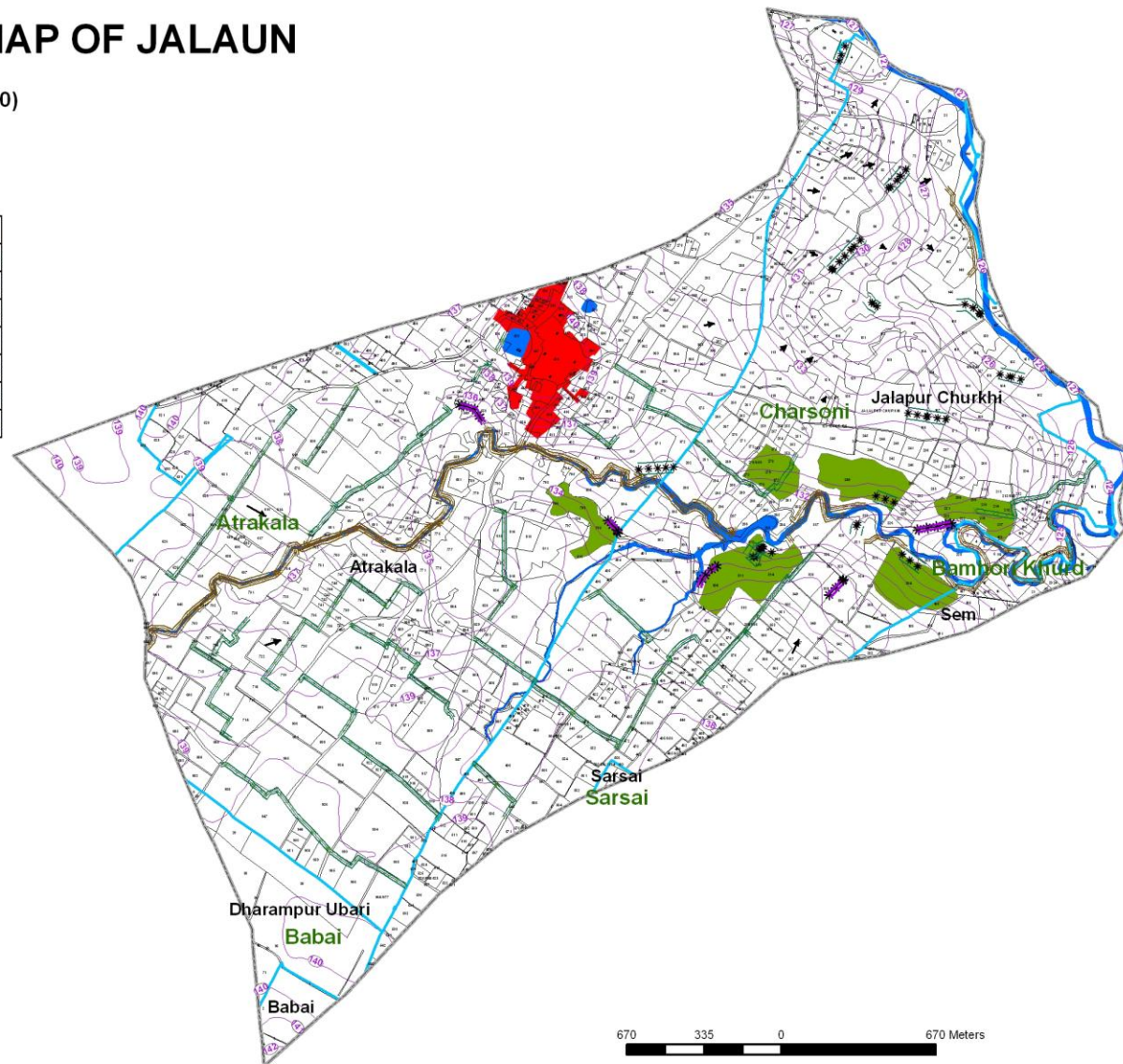
# ACTION PLAN MAP OF JALAUN

Project Name: IWMP-III (2009-10)  
District Name: Jalaun  
Code: 2C2H2d1d  
Total Area: 919.496 ha.

S.No.	GRAM PANCHAYAT	VILLAGE NAME	Area (ha.)
1	Atrakala	Atrakala	470.146
2	Babai	Babai	7.422
		Dharampur Ubari	30.884
3	Charsoni	Jalapur Churkhi	388.227
4	Sarsai	Sarsai	1.018
5	Bamhori Khurd	Sem	21.800
		Total Area (ha.)	919.496

## Legend

- Contour Bund
- Check Dam
- Earthen Check Dam
- Gully Plug
- Marginal Bund
- Peripheral Bund
- Roads
- Contour at 1m interval
- Micro Watershed Boundary
- Gram Panchayat Boundary
- Village Boundary
- Cadastral Plots
- Ridgeline
- Valley Line
- Slope
- Afforestation
- Ponds
- Waterbody
- Settlements
- Canal



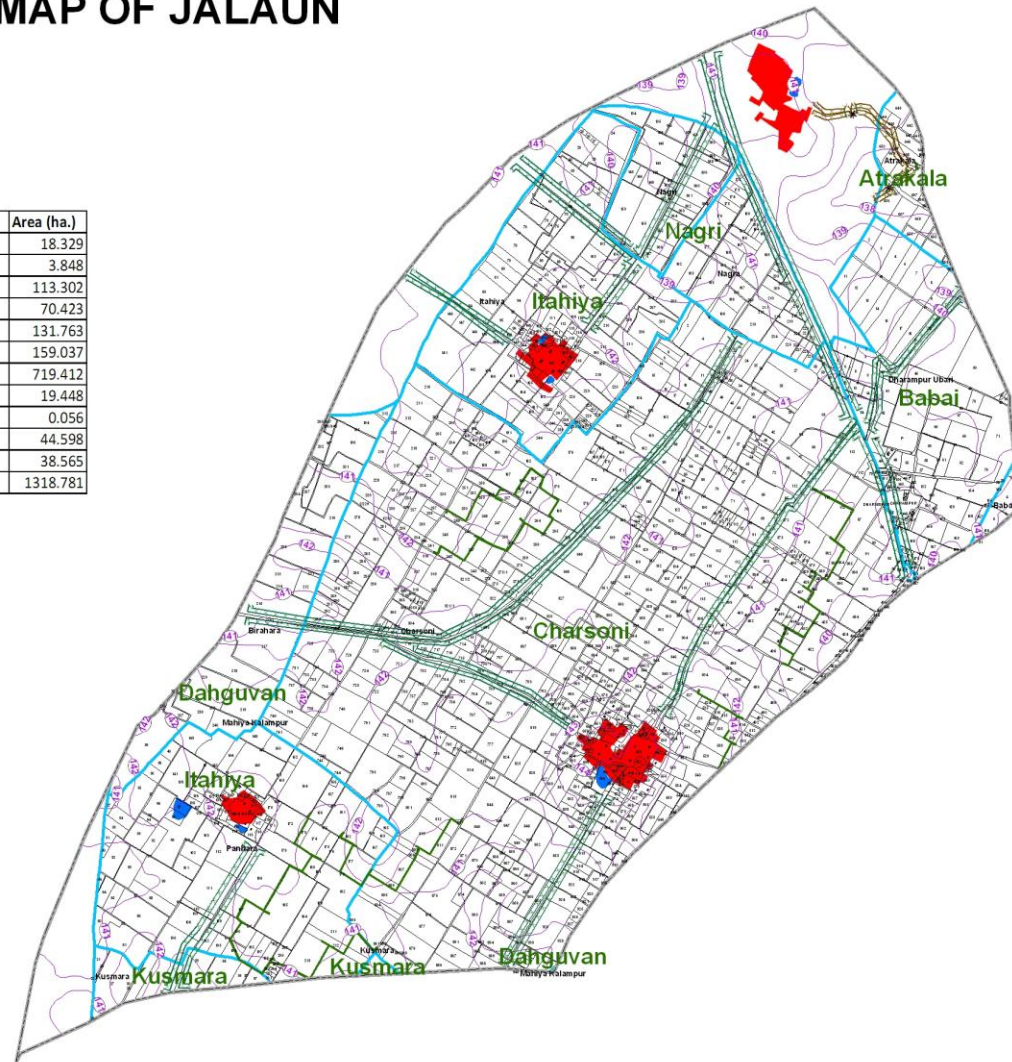
# ACTION PLAN MAP OF JALAUN

Project Name: IWMP-III  
District Name: Jalaun  
Code: 2C2H2d1e  
Total Area: 1318.781 ha.

S.No.	GRAM PANCHAYAT	VILLAGE NAME	Area (ha.)
1	Atrakala	Atrakala	18.329
2	Babai	Babai	3.848
		Dhampur Ubari	113.302
3	Itahiya	Birahara	70.423
		Itahiya	131.763
		Panhara	159.037
4	Charsoni	Charsoni	719.412
5	Kusmara	Kusmara	19.448
6	Dahguvan	Mahiya Kalampur	0.056
7	Nagri	Nagra	44.598
		Nagri	38.565
		<b>Total Area (ha.)</b>	<b>1318.781</b>

## Legend

- Contour Bund
- Check Dam
- Earthen Check Dam
- Gully Plug
- Marginal Bund
- Peripheral Bund
- Roads
- Contour at 1m interval
- Micro Watershed Boundary
- Gram Panchayat Boundary
- Village Boundary
- Cadastral Plots
- Ridgeline
- Valley Line
- Slope
- Afforestation
- Ponds
- Waterbody
- Settlements
- Canal



890 445 0 890 Meters





# ACTION PLAN MAP OF JALAUN

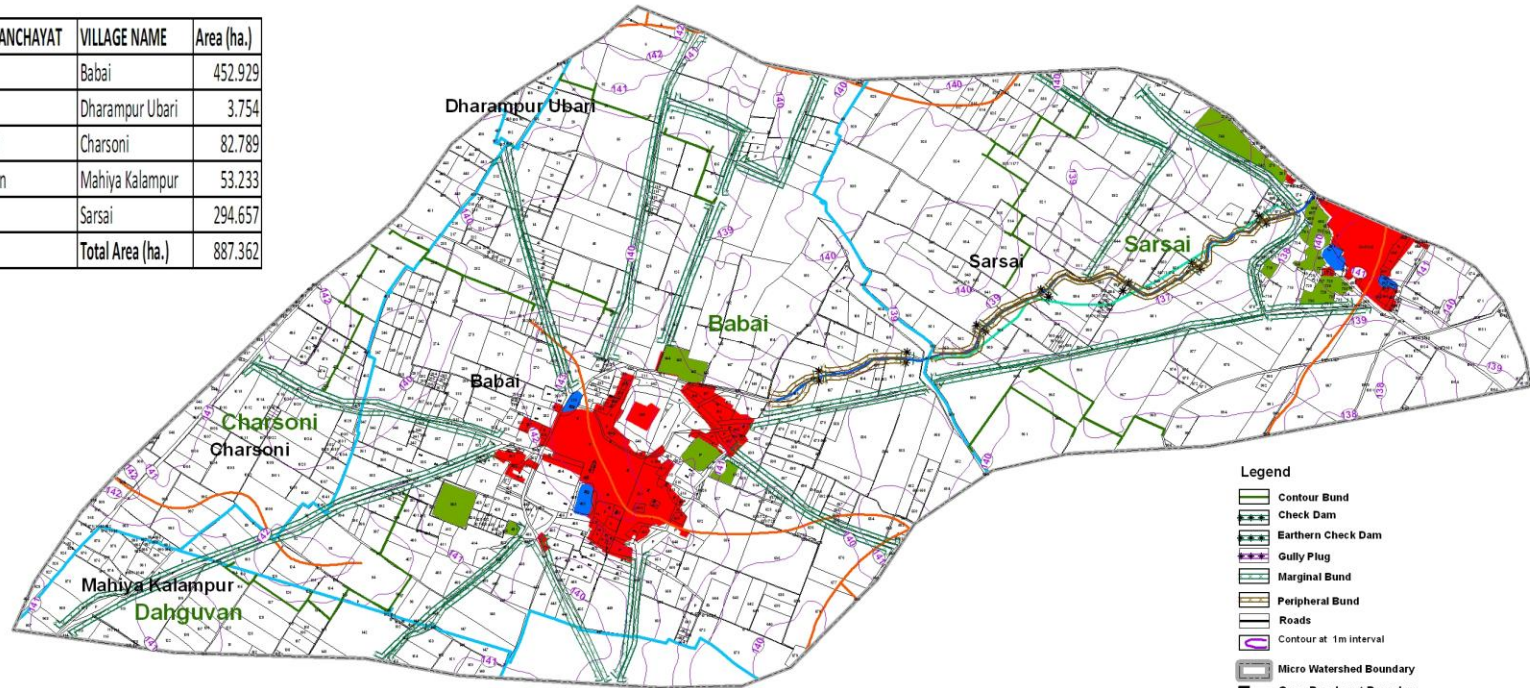
Project Name: IWMP-III (2009-10)

District Name: Jalaun

Code: 2C2H2d1f

Total Area: 887.362 ha.

S.No.	GRAM PANCHAYAT	VILLAGE NAME	Area (ha.)
1	Babai	Babai	452.929
		Dharampur Ubari	3.754
2	Charsoni	Charsoni	82.789
3	Dahguvan	Mahiya Kalampur	53.233
4	Sarsai	Sarsai	294.657
		Total Area (ha.)	887.362



- Legend**
- Contour Bund
  - Check Dam
  - Earthen Check Dam
  - Gully Plug
  - Marginal Bund
  - Peripheral Bund
  - Roads
  - Contour at 1m interval
  - Micro Watershed Boundary
  - Gram Panchayat Boundary
  - Village Boundary
  - Cadestral Plots
  - Ridgeline
  - Valley Line
  - Slope
  - Afforestation
  - Ponds
  - Waterbody
  - Settlements
  - Canal

# ACTION PLAN MAP OF JALAUN

Project Name: IWMP-III (2009-10)

District Name: Jalaun

Code: 2C2H2e1c

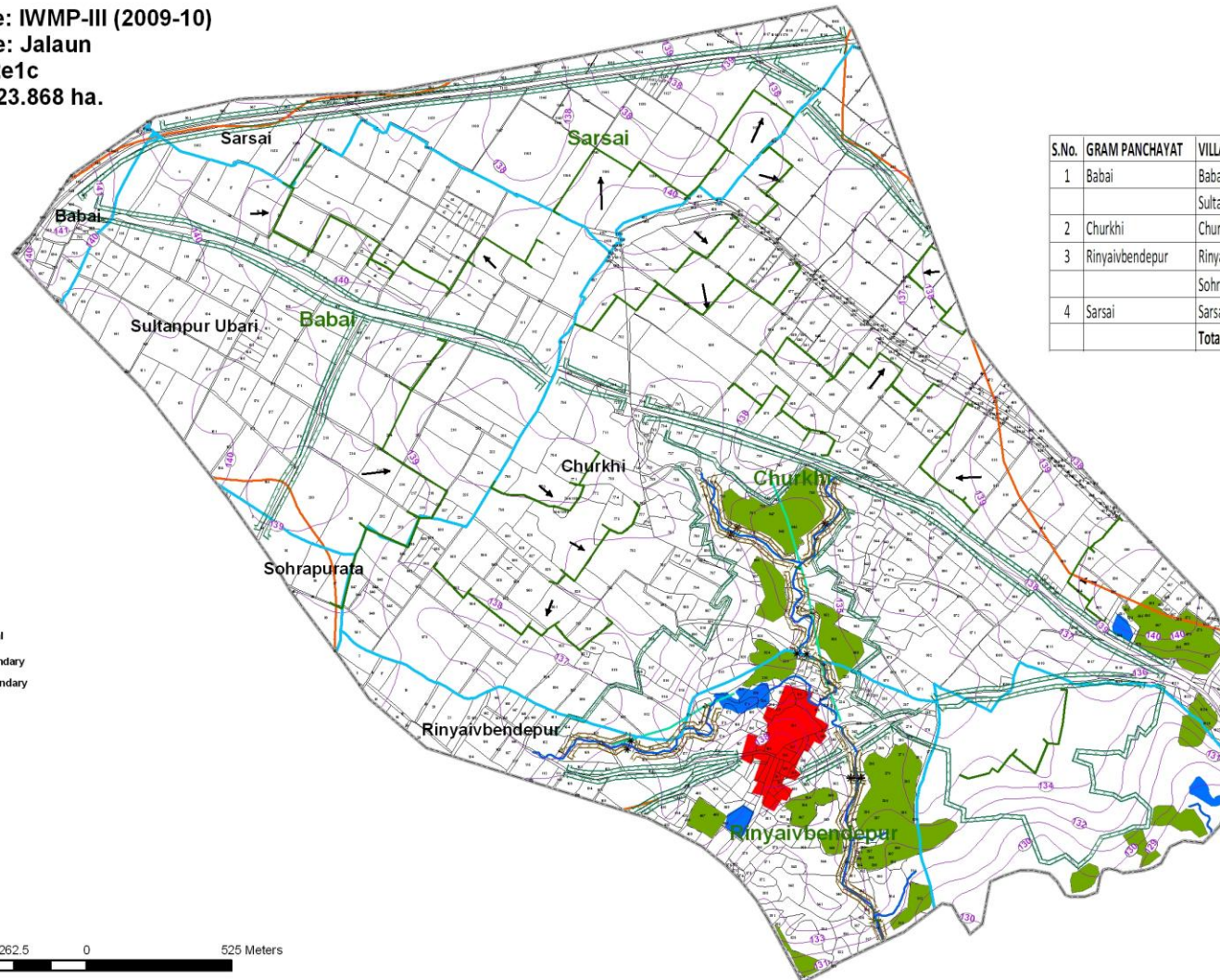
Total Area: 823.868 ha.



## Legend

- Contour Bund
- Check Dam
- Earthen Check Dam
- Gully Plug
- Marginal Bund
- Peripheral Bund
- Roads
- Contour at 1m Interval
- Micro Watershed Boundary
- Gram Panchayat Boundary
- Village Boundary
- Cadastral Plots
- Ridgeline
- Valley Line
- Slope
- Afforestation
- Ponds
- Waterbody
- Settlements
- Canal

525      262.5      0      525 Meters



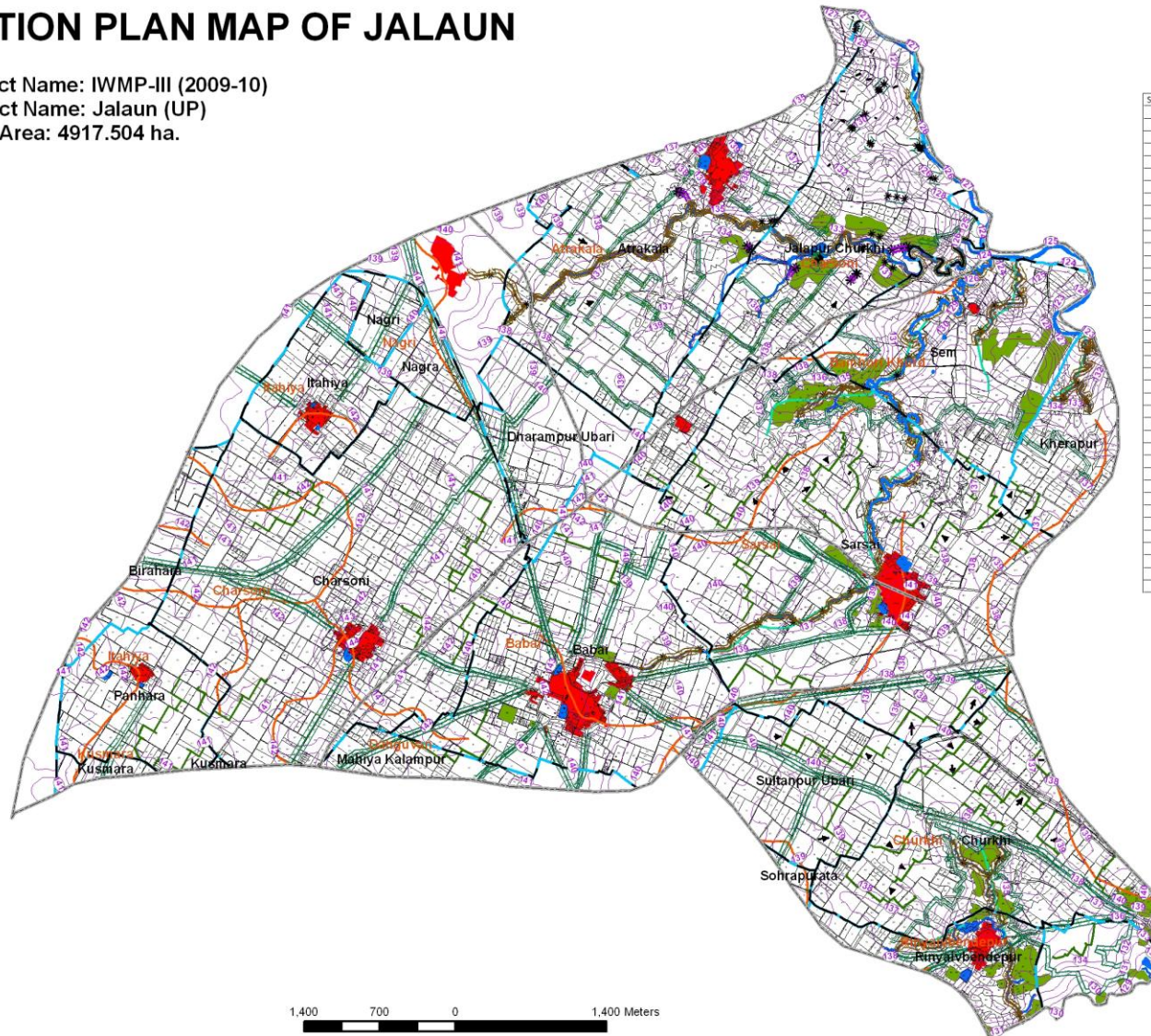
S.No.	GRAM PANCHAYAT	VILLAGE NAME	Area (ha.)
1	Babai	Babai	11.611
		Sultanpur Ubari	200.103
2	Churkhi	Churkhi	398.808
3	Rinyaibendepur	Rinyaibendepur	111.166
		Sohrapurata	8.498
4	Sarsai	Sarsai	93.682
		Total Area (ha.)	823.868





# ACTION PLAN MAP OF JALAUN

Project Name: IWMP-III (2009-10)  
District Name: Jalaun (UP)  
Total Area: 4917.504 ha.



S.No.	WS CODE	GRAM PANCHAYAT	VILLAGE NAME	Area (ha.)	
1	XCHN245c	Babai	Babai	11.611	
		Sultanpur Ubari	Sultanpur Ubari	200.103	
		Churkhi	Churkhi	398.808	
		Rinyalbandepur	Rinyalbandepur	111.166	
		Sohrapurata	Sohrapurata	8.498	
2	XCHN245d	Sarsai	Sarsai	93.682	
		Total Area (ha.)			823.868
		Atrakala	Atrakala	18.329	
		Babai	Babai	3.848	
		Dharampur Ubari	Dharampur Ubari	113.302	
		Itahiya	Itahiya	70.423	
		Birahara	Birahara	131.763	
		Panhara	Panhara	159.037	
		Charsoni	Charsoni	719.412	
		Kusmara	Kusmara	19.448	
3	XCHN245e	Dahiguan	Mahiya Kalampur	0.056	
		Nagri	Nagri	44.598	
		Nagri	Nagri	38.565	
		Total Area (ha.)			1318.781
		Babai	Babai	452.929	
4	XCHN245f	Dharampur Ubari	Dharampur Ubari	3.754	
		Charsoni	Charsoni	82.789	
		Dahiguan	Mahiya Kalampur	53.223	
		Sarsai	Sarsai	294.657	
		Total Area (ha.)			887.362
5	XCHN245g	Atrakala	Atrakala	470.146	
		Babai	Babai	7.422	
		Dharampur Ubari	Dharampur Ubari	30.884	
		Jalapur Churkhi	Jalapur Churkhi	388.227	
		Sarsai	Sarsai	1.018	
		Bamhori Khurd	Sem	21.800	
		Total Area (ha.)			919.496
		Babai	Babai	26.898	
		Dharampur Ubari	Dharampur Ubari	0.397	
		Charsoni	Charsoni	51.870	
6	XCHN245h	Bamhori Khurd	Kherapur	121.666	
		Sem	Sem	294.845	
		Sarsai	Sarsai	472.322	
		Total Area (ha.)			967.997
		Sarsai	Sarsai	472.322	

## Legend

- Contour Bund
- Check Dam
- Earthen Check Dam
- Gully Plug
- Marginal Bund
- Peripheral Bund
- Roads
- Contour at 1m interval
- Micro Watershed Boundary
- Gram Panchayat Boundary
- Village Boundary
- Cadastral Plots
- Ridgeline
- Valley Line
- Slope
- Afforestation
- Ponds
- Waterbody
- Settlements
- Canal

**Annexure-1**

**Detail Cost Estimate of MWS ATARAKALA – 2C2H2d1d**  
**Submergence Bund**

S. No	Act-ivity	LOCATION				Khasra No.	Area	Lenth	C.S. (Top+Base/2)* Height	E.W.	Rate	Amount	Village Name
		Latitude		Longitude									
		From Lat	To Lat	From Long	To Long								
1	2	3		4		6	5	7	8	9	10	11	12
1	SB 1	26°12' 24	26°12' 35	79°27' 24	79°27' 34	628, 626, 624, 623, 622, 612	9.10	325.00	(1.00+4.00/2) *1.00=2.50	812.50	43.15	35059	Atrakala
2	SB 2	26°12' 35	26°12' 48	79°27' 34	79°27' 44	621, 614, 613, 612, 622	9.10	325.00	" "	812.50	43.15	35059	Atrakala
3	SB 3	26°12' 40	26°12' 51	79°27' 45	79°27' 54	609, 608, 607, 564	8.40	300.00	" "	750.00	43.15	32363	Atrakala
4	SB 4	26°12' 52	26°12' 54	79°28' 11	79°28' 14	543, 536, 544, 538, 450	2.90	100.00	" "	250.00	43.15	10788	Atrakala
5	SB 5	26°12' 56	26°12' 59	79°28' 15	79°28' 17	196, 200	2.90	100.00	" "	250.00	43.15	10788	Atrakala
6	SB 6	26°12' 30	26°12' 34	79°27' 46	79°27' 50	613, 614, 605	2.90	100.00	" "	250.00	43.15	10788	Atrakala
7	SB 7	26°12' 34	26°12' 48	79°27' 50	79°28' 8	604, 576, 571, 572, 573, 559, 546, 562	12.70	450.00	" "	1125.00	43.15	48544	Atrakala
8	SB 8	26°12' 1	26°12' 15	79°27' 28	79°27' 34	714, 715, 709, 710, 703, 713	10.60	375.00	" "	937.50	43.15	40453	Atrakala
9	SB 9	26°12' 13	26°12' 18	79°27' 31	79°27' 37	709, 704, 728	9.10	325.00	" "	812.50	43.15	35059	Atrakala
10	SB 10	26°12' 8	26°12' 24	79°27' 39	79°28' 4	718, 719, 720, 735, 736, 737, 738, 739, 741, 769, 754, 753, 759, 749, 897	20.90	744.00	" "	1860.00	43.15	80259	Atrakala
11	SB 11	26°12' 4	26°12' 17	79°27' 53	79°28' 9	894, 908, 877, 874, 873, 872, 869, 868, 879, 878, 990, 881, 890, 897	12.50	450.00	" "	1125.00	43.15	48544	Atrakala
12	SB 12	26°12' 1	26°12' 10	79°27' 45	79°27' 54	896, 895	7.00	250.00	" "	625.00	43.15	26969	Atrakala
13	SB	26°11'	26°12'	79°27'	79°28'	924, 922, 920, 928, 512	11.00	400.00	" "	1000.00	43.15	43150	Atrakala,

	13	50	2	52	7								Jalapur Churkhi
14	SB 14	26°11' 40	26°11' 58	79°27' 33	79°28' 2	938, 947, 946, 958, 959, 965, 966, 968, 977	18.10	650.00	" "	1625.00	43.15	70119	Atrakala
15	SB 15	26°11' 50	26°11' 58	79°28' 12	79°28' 19	505, 504, 492, 491, 548	4.20	150.00	" "	375.00	43.15	16181	Jalapur Churkhi
16	SB 16	26°12' 9	26°12' 16	79°28' 12	79°28' 22	838, 416	7.00	250.00	" "	625.00	43.15	26969	Atrakala, Jalapur Churkhi
17	SB 17	26°12' 0	26°12' 9	79°28' 21	79°28' 35	815, 817, 825, 826, 816, 823, 824, 797	11.10	400.00	" "	1000.00	43.15	43150	Atrakala
18	SB 18	26°12' 18	26°12' 34	79°28' 14	79°28' 18	551, 550, 549, 549/651, 554/658, 474, 476, 473	9.70	350.00	" "	875.00	43.15	37756	Jalapur Churkhi
19	SB 19	26°12' 0	26°12' 16	79°28' 34	79°28' 48	472, 471, 435/655, 655, 436, 439, 441, 442, 443, 490, 389, 469 ,391, 431	11.80	425.00	" "	1062.50	43.15	45847	Jalapur Churkhi
20	SB 20	26°12' 9	26°12' 17	79°28' 47	79°28' 55	370, 371, 372, 360, 376, 367, 339	7.00	250.00	" "	625.00	43.15	26969	Jalapur Churkhi
21	SB 21	26°12' 17	26°12' 28	79°28' 54	79°29' 5	360, 255, 255/656, 354, 353, 352, 349, 339, 328, 318	7.00	250.00	" "	625.00	43.15	26969	Jalapur Churkhi
22	SB 22	26°12' 15	26°12' 22	79°28' 30	79°28' 40	396, 409, 397, 408	7.00	250.00	" "	625.00	43.15	26969	Jalapur Churkhi
23	SB 23	26°12' 43	26°12' 47	79°28' 27	79°28' 34	390, 417, 391, 399,	5.65	200.00	" "	500.00	43.15	21575	Atrakala
24	SB 24	26°12' 45	26°12' 54	79°28' 34	79°28' 47	268, 377, 378, 376, 385, 382, 432	9.90	350.00	" "	875.00	43.15	37756	Atrakala, Jalapur Churkhi
25	SB 25	26°12' 36	26°12' 44	79°28' 46	79°29' 2	280, 277, 279, 273, 269, 276, 248, 283, 275, 268, 258	9.90	350.00	" "	875.00	43.15	37756	Jalapur Churkhi
26	SB 26	26°12' 34	26°12' 41	79°29' 30	79°29' 49	217, 218, 213, 212/643, 212, 211, 209, 203, 179, 180	11.30	400.00	" "	1000.00	43.15	43150	Jalapur Churkhi
	कच्चा कार्य पर व्यय						238.75	8519.00		21297.50		918989	
	पक्का कार्य पर व्यय											394000	
	कुल व्यय											1312989	13.13 Lacs

अवरोध बाँध

S. NO.	Act-ivity					Khasra No.	Area	Lenth	C.S. (Top+Base/2)* Height	E.W.	Out-put	Man-days	Rate	Amount	Village Name
		Latitude		Longitude											
		From Lat	To Lat	From Long	To Long										
1	2	3		4		6	5	7	8	9	10	11	12	13	14
1	CD 1	26°13' 37	26°13' 40	79°29' 8	79°29' 9	5, 99	12.00	100	(3+12.00)/2* 3.00=22.50	2250.00	2.13	1056	120	126761	Atrakala, Jalapur Churkhi
2	CD 2	26°13' 19	26°13' 22	79°29' 16	79°29' 19	31, 30, 71	12.00	100	" "	2250.00	2.13	1056	120	126761	Jalapur Churkhi
3	CD 3	26°13' 8	26°13' 13	79°29' 7	79°29' 12	67, 68 , 88, 89, 71	12.00	100	" "	2250.00	2.13	1056	120	126761	Jalapur Churkhi
4	CD 4	26°13' 3	26°13' 3	79°29' 13	79°29' 15	89, 137	9.90	80	" "	1800.00	2.13	845	120	101408	Jalapur Churkhi
5	CD 5	26°13' 2	26°13' 3	79°29' 27	79°29' 31	135, 161	9.70	80	" "	1800.00	2.13	845	120	101408	Jalapur Churkhi
6	CD 6	26°12' 53	26°12' 54	79°29' 34	79°29' 37	154, 155	9.40	75	" "	1687.50	2.13	792	120	95070	Jalapur Churkhi
7	CD 7	26°12' 47	26°12' 48	79°29' 19	79°29' 25	171, 167, 164	10.70	90	" "	2025.00	2.13	951	120	114085	Jalapur Churkhi
8	CD 8	26°12' 35	26°12' 36	79°29' 14	79°29' 18	248	6.30	80	(2.50+10.00)/ 2*2.50=15.63	1250.00	2.27	551	120	66079	Jalapur Churkhi
9	CD 9	26°12' 26	26°12' 28	79°29' 19	79°29' 22	334	5.90	75	" "	1171.88	2.27	516	120	61949	Jalapur Churkhi
10	CD 10	26°12' 31	26°12' 32	79°29' 11	79°29' 12	320, 321	5.75	70	" "	1093.75	2.27	482	120	57819	Jalapur Churkhi
11	CD 11	26°12' 27	26°12' 29	79°28' 55	79°28' 59	311, 314, 315, 313, 312	6.80	90	" "	1406.25	2.27	619	120	74339	Jalapur Churkhi
12	CD 12	26°12' 40	26°12' 40	79°28' 37	79°28' 43	293, 399, 371, 372	6.80	90	" "	1406.25	2.27	619	120	74339	Atrakala, Jalapur Churkhi
	कच्चा कार्य पर व्यय						107.25	1030		20390.63		9390		1126780	
	पक्का कार्य पर व्यय													482000	
	कुल व्यय													1608780	16.08 Lacs



पेरिफेरल बन्ड

S. No.	Act-ivity	LOCATION				Khasra No.	Area	Lenth	C.S. (Top+Base/2)* Height	E.W.	Rate	Amount	Village Name
		Latitude		Longitude									
		From Lat	To Lat	From Long	To Long								
1	2	3		4		6	5	7	8	9	10	11	12
1	PB 1	26°12' 14	26°12' 21	79°27' 21	79°27' 31	648, 640, 639	10.60	250	(1.00+4.75)/2 *1.25=3.60	900	45.5	40950	Atrakala
2	PB 2	26°12' 22	26°12' 29	79°27' 31	79°27' 46	639, 637, 616 , 605	12.80	300	" "	1080	45.5	49140	Atrakala
3	PB 3	26°12' 28	26°12' 31	79°27' 45	79°28' 5	605, 600, 601, 597, 587	17.00	400	" "	1440	45.5	65520	Atrakala
4	PB 4	26°12' 32	26°12' 41	79°28' 5	79°28' 12	582, 580, 559 , 805	12.80	300	" "	1080	45.5	49140	Atrakala
5	PB 5	26°12' 42	26°12' 45	79°28' 14	79°28' 20	558, 554	8.50	200	" "	720	45.5	32760	Atrakala
6	PB 6	26°12' 38	26°12' 43	79°28' 20	79°28' 38	401, 805, 399	8.50	200	" "	720	45.5	32760	Atrakala
7	PB 7	26°12' 30	26°12' 36	79°28' 43	79°28' 53	293, 294, 296, 297, 298 , 299	12.80	300	" "	1080	45.5	49140	Jalapur Churkhi
8	PB 8	26°12' 33	26°12' 37	79°29' 1	79°29' 13	282, 248, 299	12.80	300	" "	1080	45.5	49140	Jalapur Churkhi
9	PB 9	26°12' 25	26°12' 35	79°29' 36	79°29' 46	198, 199, 197, 190, 191, 189, 188, 187, 185, 180	21.30	500	" "	1800	45.5	81900	Jalapur Churkhi
10	PB 10	26°13' 20	26°13' 7	79°29' 25	79°29' 30	146, 83, 81, 73, 145	12.80	300	" "	1080	45.5	49140	Jalapur Churkhi
11	PB 11	26°12' 23	26°12' 32	79°29' 24	79°29' 37	187, 20, 333, 14, 1, 3, 4, 5, 6, 8, 9, 10, 299	21.20	500	" "	1800	45.5	81900	Jalapur Churkhi, Sem
12	PB 12	26°12' 29	26°12' 31	79°29' 13	79°29' 19	334, 322, 321, 299	6.30	150	" "	540	45.5	24570	Jalapur Churkhi
13	PB 13	26°12' 30	26°12' 36	79°29' 1	79°29' 10	317, 299	12.80	300	" "	1080	45.5	49140	Jalapur Churkhi
14	PB 14	26°12' 29	26°12' 39	79°28' 35	79°28' 51	804, 803, 805, 806, 801, 299	12.80	300	" "	1080	45.5	49140	Atrakala, Jalapur Churkhi
15	PB 15	26°12' 37	26°12' 43	79°28' 18	79°28' 35	785, 787, 794, 795, 800, 801, 805	12.80	300	" "	1080	45.5	49140	Atrakala
16	PB	26°12'	26°12'	79°28'	79°28'	785, 783, 784, 782, 805	24.20	570	" "	2052	45.5	93366	Atrakala

	16	32	44	6	18								
17	PB 17	26°12' 28	26°12' 32	79°27' 44	79°28' 7	775, 774, 773, 772, 771, 767, 765, 805	19.20	450	" "	1620	45.5	73710	Atrakala
18	PB 18	26°12' 22	26°12' 28	79°27' 32	79°27' 44	764, 731, 728, 702, 765, 731	10.50	250	" "	900	45.5	40950	Atrakala
19	PB 19	26°12' 13	26°12' 23	26°12' 22	79°27' 32	699, 700, 701, 702	12.80	300	" "	1080	45.5	49140	Atrakala
	कच्चा कार्य पर व्यय						262.50	6170		22212		1010646	
	पक्का कार्य पर व्यय											432000	
	कुल व्यय											1442646	14.42 Lacs

### गली प्लग

S. No.	Act-ivity					Khasra No.	Area	Lenth	C.S. (Top+Base/2)* Height	E.W.	Output	Mandays	Rate	Amount	Village Name
		Latitude		Longitude											
		From Lat	To Lat	From Long	To Long										
1	2	3		4		6	5	7	8	9	10	11	12	13	14
1	GP 1	26°12' 46	26°12' 48	79°28' 9	79°28' 13	549, 559	6.50	83	(2.50+10.00)/ 2*2.50=15.63	1297	2.27	571	120	68557	Atrakala
2	GP 2	26°12' 31	26°12' 32	79°28' 33	79°28' 34	795, 804	4.70	60	(2.50+10.00)/ 2*2.50=15.63	938	2.27	413	120	49559	Atrakala
3	GP 3	26°12' 23	26°12' 26	79°28' 47	79°28' 50	308, 304	3.90	80	(2.00+8.00)/2 *2.00=10.00	800	2.35	340	120	40851	Jalapur Churkhi
4	GP 4	26°12' 22	26°12' 24	79°29' 7	79°29' 10	330, 327	5.60	70	(2.50+10.00)/ 2*2.50=15.63	1094	2.27	482	120	57819	Jalapur Churkhi
5	GP 5	26°12' 31	26°12' 32	79°29' 21	79°29' 26	223, 324	6.30	80	(2.50+10.00)/ 2*2.50=15.63	1250	2.27	551	120	66079	Jalapur Churkhi
	कच्चा कार्य पर व्यय						27.00	373		5378		2357		282865	
	पक्का कार्य पर व्यय													121000	
	कुल व्यय													403865	4.04 Lacs

## Grampanchayat wise break up of Watershed Development

### Activities in the Micro Watershed to be included in Detail Project Report (DPR)

#### Grampanchayat - Babai of IWMP-III Jalaun

Activity	Khasara No.	Length	CS	EW	Rate	Amount	Area
CB-14	77, 78	754.75	0.81	611.35	39.2	23964.82	6.224628717
MB--07	188, 189, 191	1017.45	2.5	2543.62	39.2	99709.96	25.89869211
MB--08	111, 112, 113	969.79	2.5	2424.48	39.2	95039.56	24.68560061
MB-06	8, 9, 10, 11	370.67	2.5	926.68	39.2	36326.00	9.435325417
MB--10	581, 582, 583	22.07	2.5	55.17	39.2	2162.55	0.561701407
MB-09	611, 612, 613	743.24	2.5	1858.10	39.2	72837.35	18.91879112
CB02	80, 81, 82, 83	1634.36	0.81	1323.83	39.2	51894.10	13.47898631
CB04	52, 53, 54, 55	400.03	0.81	324.02	39.2	12701.68	3.299138388
CB05	234, 241, 258	769.03	0.81	622.92	39.2	24418.27	6.342409012
CB05	256, 455	769.03	0.81	622.92	39.2	24418.27	6.342409012
CB06		656.31	0.81	531.61	39.2	20839.13	5.412760692
CB08	110, 111, 104	534.73	0.81	433.13	39.2	16978.78	4.410071962
CB09	31, 32	504.26	0.81	408.45	39.2	16011.31	4.158782666
PB01	178	228.36	3.6	822.11	39.2	32226.83	8.370606347
PB02	188	241.07	3.6	867.83	39.2	34019.12	8.836136262
PB03	177	357.98	3.6	1288.73	39.2	50518.26	13.12162541
PB04	187	358.56	3.6	1290.82	39.2	50600.22	13.14291519
MB01	86, 87, 88, 89	1906.04	2.5	4765.09	39.2	186791.54	48.51728267
MB02	393, 392, 391	1869.11	2.5	4672.78	39.2	183172.90	47.57737569
MB03	332, 333, 338	1037.10	2.5	2592.76	39.2	101636.12	26.39899233
MB04	306, 307, 308	1077.26	2.5	2693.14	39.2	105571.23	27.42109918
MB05	264, 265, 267	1006.20	2.5	2515.50	39.2	98607.47	25.61233084
MB06	48, 49, 50, 51	1027.28	2.5	2568.20	39.2	100673.52	26.14896736
MB07	191, 192, 193	1402.86	2.5	3507.14	39.2	137479.92	35.70907109
MB08	22, 94, 111	1378.18	2.5	3445.45	39.2	135061.81	35.08098998

MB09	616, 626, 675	800.74	2.5	2001.85	39.2	78472.68	20.38251422
MB10	590, 591, 592	806.42	2.5	2016.05	39.2	79029.14	20.52704901
MB11	437, 438, 444	643.20	2.5	1608.01	39.2	63033.86	16.37243215
MB12	447, 455, 459	650.60	2.5	1626.51	39.2	63759.26	16.56084708
MB13	449, 450, 447	509.79	2.5	1274.48	39.2	49959.58	12.97651504
MB14	662, 659, 622	552.93	2.5	1382.31	39.2	54186.68	14.07446221
MB15	409, 95, 144	813.33	2.5	2033.32	39.2	79706.33	20.70294274
MB16	147, 146, 145	744.37	2.5	1860.94	39.2	72948.70	18.94771488
MB17	185, 179, 181	663.30	2.5	1658.26	39.2	65003.89	16.88412655
MB18	213, 212, 203	727.00	2.5	1817.50	39.2	71245.99	18.50545234
MB31	104, 102	567.51	2.5	1418.78	39.2	55616.15	14.44575274
MB32	100,	613.35	2.5	1533.39	39.2	60108.79	15.61267221
MB33	133, 129, 125	608.27	2.5	1520.66	39.2	59609.97	15.48311035
MB34	142	626.13	2.5	1565.33	39.2	61361.12	15.93795242
MB35		657.10	2.5	1642.74	39.2	64395.49	16.72610062
MB36	94, 95, 96	603.89	2.5	1509.72	39.2	59181.21	15.37174304
CB01	41, 42, 32	1155.78	0.81	936.18	39.2	36698.43	9.532060656
CB02	96, 80, 82	844.89	0.81	684.36	39.2	26826.94	6.968036707
CB03	99, 1166	27.17	0.81	22.00	39.2	862.57	0.224045208
CB07	233, 227, 232	1152.96	0.81	933.89	39.2	36608.68	9.508748054
CB09	224, 766, 29	29.84	0.81	24.17	39.2	947.60	0.246128896
MB06	45, 46, 57	396.86	2.5	992.16	39.2	38892.58	10.10196758
MB06	51, 52, 50	396.86	2.5	992.16	39.2	38892.58	10.10196758
MB07	206, 197,192	1939.19	2.5	4847.97	39.2	190040.48	49.36116423
MB07	191, 189, 188	1939.19	2.5	4847.97	39.2	190040.48	49.36116423
MB08	113, 112, 111	1839.53	2.5	4598.82	39.2	180273.83	46.8243708
MB08	24, 25, 95	1839.53	2.5	4598.82	39.2	180273.83	46.8243708
MB17	185, 179, 175,	794.04	2.5	1985.10	39.2	77815.76	20.21188665
MB17	171, 172,183	794.04	2.5	1985.10	39.2	77815.76	20.21188665
MB18	213, 212, 203	806.23	2.5	2015.57	39.2	79010.49	20.52220495
MB18	201	806.23	2.5	2015.57	39.2	79010.49	20.52220495
<b>Total</b>						<b>3985290.10</b>	

Grampanchayat Sarsai of IWMP-III Jalaun							
Activity	Khasara No.	Length	CS	EW	Rate	Amount	Area
CB01	552, 551, 550	80.28	0.81	65.02	39.2	2548.96	0.662067
CB03	524, 526, 529	27.17	0.81	22.00	39.2	862.57	0.224045
CB03	1136, 1138	1479.64	0.81	1198.51	39.2	46981.68	12.20304
MB05	996, 989, 997	2552.89	2.5	6382.21	39.2	250182.76	64.98254
MB05	990, 961, 962	2552.89	2.5	6382.21	39.2	250182.76	64.98254
MB06	1152, 1153	2507.93	2.5	6269.81	39.2	245776.70	63.8381
MB06	1154, 1156	2507.93	2.5	6269.81	39.2	245776.70	63.8381
MB13	1120, 1126	269.77	2.5	674.43	39.2	26437.63	6.866916
MB13		269.77	2.5	674.43	39.2	26437.63	6.866916
MB14	1117	209.89	2.5	524.73	39.2	20569.26	5.342665
MB14		209.89	2.5	524.73	39.2	20569.26	5.342665
CB01	539,	1536.71	0.81	1244.74	39.2	48793.70	12.67369
CB06	597, 595, 594	656.31	0.81	531.61	39.2	20839.13	5.412761
CB06	304, 597, 596	656.31	0.81	531.61	39.2	20839.13	5.412761
CB07	965, 967	859.22	0.81	695.97	39.2	27282.02	7.08624
PB05	952, 953, 947	239.43	3.6	861.94	39.2	33787.91	8.77608
PB06	909, 874	274.74	3.6	989.06	39.2	38771.21	10.07045
PB07	947, 941, 931	281.88	3.6	1014.77	39.2	39779.02	10.33221
PB08	908, 905, 904	272.99	3.6	982.78	39.2	38524.79	10.00644
PB09	846, 845, 843	379.54	3.6	1366.35	39.2	53560.97	13.91194
PB10	885	353.77	3.6	1273.59	39.2	49924.71	12.96746
PB11	848, 846, 849	301.64	3.6	1085.91	39.2	42567.60	11.05652
PB12	879, 881, 877	320.50	3.6	1153.79	39.2	45228.58	11.74768
PB13	856, 861, 857	372.91	3.6	1342.48	39.2	52625.10	13.66886
PB14	877, 876	364.03	3.6	1310.50	39.2	51371.55	13.34326
PB15	364, 346	130.50	3.6	469.79	39.2	18415.81	4.783328
PB16	337, 342, 341	112.40	3.6	404.65	39.2	15862.45	4.120118
ECD01		48.61	15.63	759.72	120	91166.81	8.682553
ECD02		51.99	15.63	812.59	120	97511.31	9.286791
ECD03	947	57.96	15.63	905.91	120	108709.57	10.35329

ECD04	894, 881	68.77	15.63	1074.91	120	128989.49	12.28471
ECD05	881, 882	57.62	15.63	900.66	120	108078.63	10.2932
ECD06	356, 364	56.92	15.63	889.60	120	106752.54	10.16691
ECD07	367, 369,412	48.36	15.63	755.90	120	90708.30	8.638886
MB19	906, 907,878	1356.00	2.5	3390.00	39.2	132887.84	34.51632
MB20	958, 967, 967	1348.50	2.5	3371.25	39.2	132153.00	34.32545
MB21	734, 714, 731	371.84	2.5	929.60	39.2	36440.43	9.465046
MB22	980, 981, 982	415.53	2.5	1038.83	39.2	40722.06	10.57716
MB23	878, 877, 876	466.99	2.5	1167.47	39.2	45764.66	11.88693
MB24	714, 704	425.27	2.5	1063.17	39.2	41676.11	10.82496
MB25	869, 868, 867	793.08	2.5	1982.70	39.2	77721.77	20.18747
MB26	274, 273, 743	796.72	2.5	1991.79	39.2	78078.12	20.28003
MB27	841, 840,839	617.58	2.5	1543.95	39.2	60523.02	15.72026
MB28	797, 793, 790	588.15	2.5	1470.37	39.2	57638.50	14.97104
MB29	917, 911	579.64	2.5	1449.10	39.2	56804.63	14.75445
MB30	843,844, 852	607.55	2.5	1518.88	39.2	59540.02	15.46494
CB13	783, 784, 781	733.27	0.81	593.95	39.2	23282.65	6.047442
CB12	812, 800, 813	567.14	0.81	459.39	39.2	18007.91	4.67738
CB11	757, 756, 761	582.33	0.81	471.69	39.2	18490.27	4.802668
CB14	804, 803	754.75	0.81	611.35	39.2	23964.82	6.224629
CB10	182, 187, 233	396.03	0.81	320.78	39.2	12574.72	3.26616
CB09	259, 258	799.07	0.81	647.24	39.2	25371.99	6.590126
CB08	92, 93, 94	753.74	0.81	610.53	39.2	23932.88	6.216333
CB04	508, 509, 511	780.28	0.81	632.02	39.2	24775.34	6.435154
CB06	600, 595, 597	657.23	0.81	532.36	39.2	20868.36	5.420354
CB01	539, 545, 546	834.48	0.81	675.93	39.2	26496.30	6.882155
CB05	586, 587, 588	610.01	0.81	494.11	39.2	19369.07	5.030926
CB03	1136, 1138	769.31	0.81	623.14	39.2	24427.11	6.344704
CB03	1122, 1166	769.31	0.81	623.14	39.2	24427.11	6.344704
CB07	227, 78	886.80	0.81	718.31	39.2	28157.61	7.313665
ECD06	356, 364	49.00	15.63	765.88	120	91905.33	8.752889
ECD07	367, 369, 412	48.41	15.63	756.69	120	90803.16	8.64792

ECD08		40.80	15.63	637.67	120	76520.63	7.287679
ECD09		29.68	15.63	463.97	120	55676.95	5.302567
ECD10		37.28	15.63	582.75	120	69930.48	6.660045
ECD11		30.64	15.63	478.96	120	57474.90	5.4738
ECD12		22.28	15.63	348.21	120	41785.55	3.979576
ECD13		24.33	15.63	380.35	120	45641.48	4.346808
MB01		2852.72	2.5	7131.80	39.2	279566.50	72.61468
MB01		2852.72	2.5	7131.80	39.2	279566.50	72.61468
MB01		2852.72	2.5	7131.80	39.2	279566.50	72.61468
MB02		1539.59	2.5	3848.96	39.2	150879.40	39.18945
MB03		232.95	2.5	582.39	39.2	22829.57	5.929758
PB15		502.46	3.6	1808.86	39.2	70907.38	18.4175
PB16		508.65	3.6	1831.14	39.2	71780.71	18.64434
PB17		613.29	3.6	2207.85	39.2	86547.88	22.47997
PB18		625.29	3.6	2251.05	39.2	88241.20	22.91979
PB19		578.07	3.6	2081.07	39.2	81577.77	21.18903
PB20		549.64	3.6	1978.70	39.2	77564.99	20.14675
PB21		234.86	3.6	845.49	39.2	33143.09	8.608595
PB22		280.59	3.6	1010.12	39.2	39596.52	10.28481
PB23		223.40	3.6	804.24	39.2	31526.21	8.188626
PB24		191.33	3.6	688.78	39.2	26999.99	7.012984
PB25		178.96	3.6	644.24	39.2	25254.20	6.559532
PB26		199.16	3.6	716.97	39.2	28105.22	7.300057
PB27		375.29	3.6	1351.04	39.2	52960.75	13.75604
PB28		394.57	3.6	1420.46	39.2	55682.06	14.46287
PB31		381.89	3.6	1374.81	39.2	53892.56	13.99807
PB32		317.44	3.6	1142.77	39.2	44796.55	11.63547
PB33		185.05	3.6	666.19	39.2	26114.46	6.782978
PB34		206.18	3.6	742.26	39.2	29096.76	7.557599
PB35		232.32	3.6	836.37	39.2	32785.65	8.515753
PB36		228.34	3.6	822.02	39.2	32223.08	8.369632
<b>Total</b>			<b>429.16</b>	<b>134743.42</b>	<b>4857.6</b>	<b>6131456.57</b>	<b>1385.041</b>

# **CHAPTER -12**

## **ABBREVIATIONS/ REFERENCES**



## **LIST OF ABBRIVIATIONS/REFERENCES**

<b>DOLR</b>	Department of Land Resources
<b>IWMP</b>	Integrated Watershed Management Programme
<b>SLNA</b>	State Level Nodal Agency
<b>CGL</b>	Common Guidelines
<b>PIA</b>	Project Implementing Agency
<b>BSA</b>	Bhoomi Sangrakshan Adhikari
<b>WDT</b>	Watershed Development Team
<b>WC</b>	Watershed Committee
<b>UC</b>	User Group
<b>SHG</b>	Self Help Group
<b>CB</b>	Contour Bund
<b>MB</b>	Marginal Bund
<b>PFB</b>	Peripheral Bund

### **REFERENCES**

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