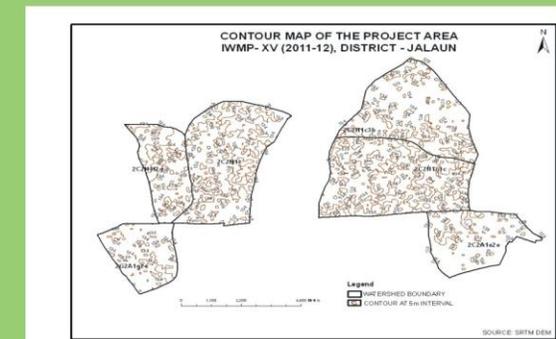
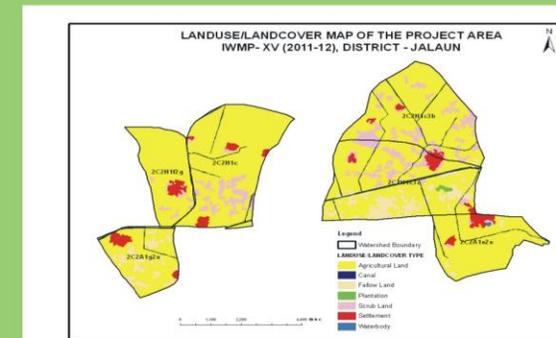
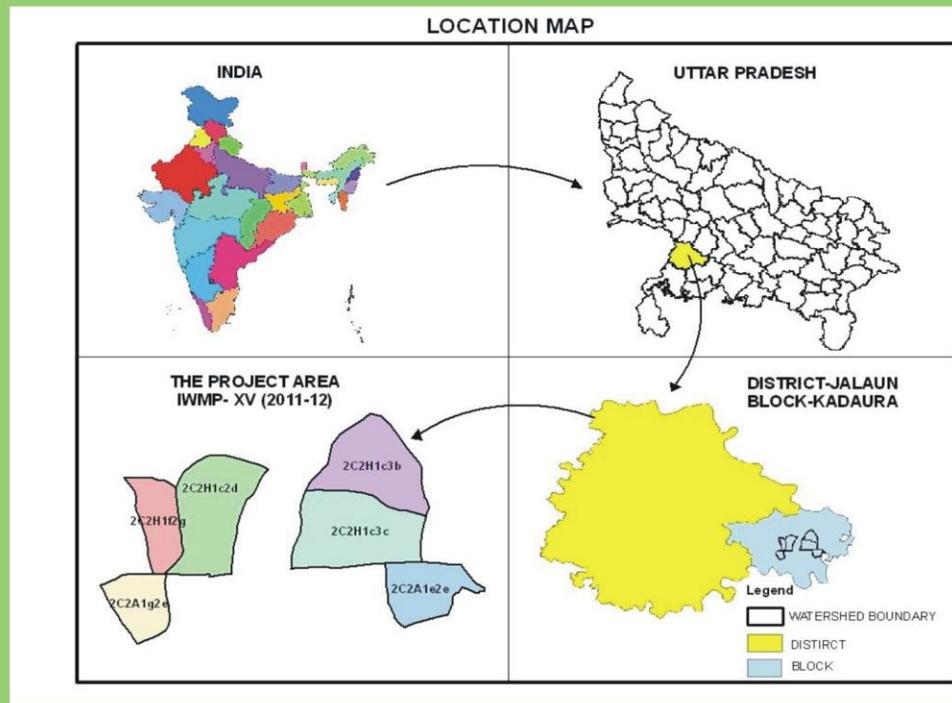


# DETAILED PROJECT REPORT

## OF INTEGRATED WATERSHED MANAGEMENT PROGRAMME-XV JALAUN (2011-12)



Prepared by :  
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Rastriya Jalagam, Orai, Jalaun  
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## **CERTIFICATE**

*It is certified that the proposed IWMP-XV project of Jalaun district of U.P. comprising six 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-XV for financial year 2011-12 is submitted for its approval and implementation.*



**Bhoomi Sanrakshan Adhikari**

Department of Agriculture,  
Rashtriya Jalagam Orai, District  
Jalaun, Uttar Pradesh

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## EXECUTIVE SUMMARY

IWMP-XV Project is located in Kadaura Block of Jalaun district, Uttar Pradesh. The Project comprises of 6 Micro-watersheds with code No. **2C2A1e2e (L.B. Betwa), 2C2H1c3c (R.B. Betwa), 2C2H1c3b (R.B. Yamuna), 2C2H1c2d (R.B. Yamuna), 2C2H1f2g (R.B. Yamuna), 2C2A1g2e (L.B. Betwa)**. The total geographical area of the project is 5874.66 ha, out of which 2739.00 ha area has been taken for treatment under Integrated Watershed Management Programme starting year 2011-12. Total 27 villages namely Bamhauri, Kadaura (N.P), Naka, Babina, Parausa-2, Margayan, Kathpurwa, Hansa, Sujanpur, Kurahana Alamgir, Mawai Brahman, Garrehi, Rasoolpur, Kadaura, Dadupur, Karamchandpur, Parasan, Taharpur, Sondhi, Fahrampur, Dhani Khurd, Etaura Bawni, Lamsar, Matra, Rajepur are being covered under this project. This watershed has been identified by the state department under IWMP scheme by proper prioritization of different parameters for watershed selection criteria. The above watershed is located in the Middle-East part of the district, between 25°57'06"N to 26°02'42"N latitude and 79°41'49"E to 79°51'47"E longitude. Brief details of various component of the project are given below.

The altitude of the area, on an average, ranges from 128 to 139 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. The run-off of the project area is about 312/year.

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.

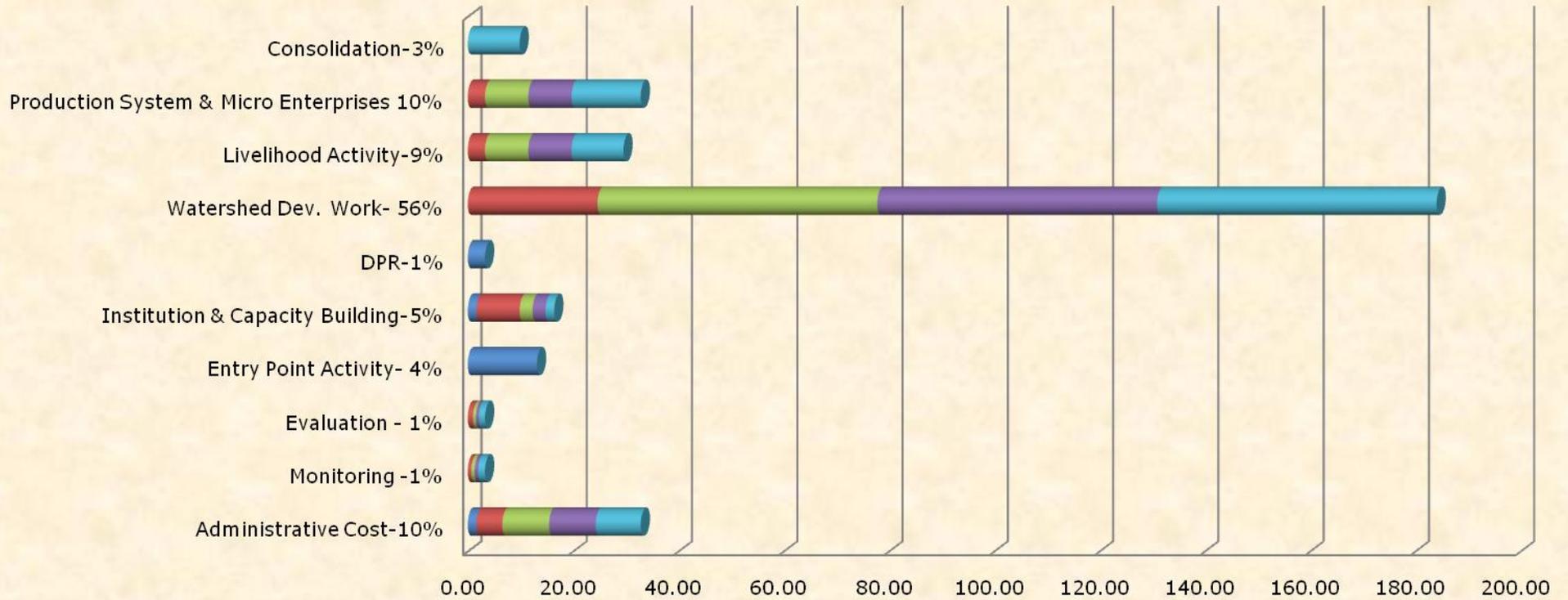
**Table 1: PROJECT AT A GLANCE**

1.	Name of Project	IWMP-XV, R.B. YAMUNA & L.B. BETWA RIVER WATERSHED					
2.	Name of Block	KADAURA					
3.	Name of District	JALAUN					
4.	Name of State	UTTAR PRADESH					
5.	No of Micro Watershed	06					
6.	Name of Village under Micro Watershed	Bamhauri, Kadaura (N.P), Naka, Babina, Parausa-2, Margayan, Kathpurwa, Hansa, Sujanpur, Kurahana Alamgir, Mawai Brahman, Garrehi, Rasoolpur, Kadaura, Dadupur, Karamchandpur, Parasan, Taharpur, Sondhi, Fahrampur, Dhani Khurd, Etura Bawni, Lamsar, Matra, Rajepur					
7.	Micro Watershed Code	2C2A1e2e Kadaura	2C2H1c3c Babina-II	2C2H1c3b Babina-I	2C2H1c2d Kuane Khera	2C2H1f2g Kurahana Alamgir	2C2A1g2e Karamchandpur
8.	Total Area of the Project	5874.66 ha					
9.	Proposed Area for Treatment	2739.00 ha					
10.	Rainfed Area	2519.88 ha					
11.	Cost per Hectare	Rs. 12000 per ha					
12.	Project Period	YEAR 2011-12 to 2015-16					
13.	Total Cost of Project	Rs. 328.68 Lakhs					
14.	Proposed man days	178000 Nos.					

**Table 2: YEAR WISE PHASING (PHYSICAL & FINANCIAL) OF IWMP-XV, JALAUN (U.P.)  
(2011-12 to 2015-16)**

S. No.	Particulars	Ist Year 2011-12		IInd Year 2012-13		IIIrd Year 2013-14		IVth Year 2014-15		Vth Year 2015-16		Total	
		Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
1	Administrative Cost-10%	1.64	-	4.93	-	8.87	-	8.87	-	8.55	-	<b>32.87</b>	-
2	Monitoring -1%	-	-	0.66	-	0.66	-	0.66	-	1.31	-	<b>3.29</b>	-
3	Evaluation - 1%	-	-	0.99	-	0.58	-	0.58	-	1.15	-	<b>3.29</b>	-
4	Entry Point Activity-4%	13.15	-	-	-	-	-	-	-	-	-	<b>13.15</b>	-
5	Institution & Capacity Building-5%	1.64	-	8.22	-	2.47	-	2.47	-	1.64	-	<b>16.43</b>	-
6	DPR-1%	3.29	-	-	-	-	-	-	-	-	-	<b>3.29</b>	-
7	Watershed Dev. Work-56%	-	-	24.65	366.81	53.16	791.13	53.16	791.13	53.08	789.93	<b>184.06</b>	<b>2739.00</b>
8	Livelihood Activity-9%	-	-	3.29	-	8.22	-	8.22	-	9.86	-	<b>29.58</b>	-
9	Production System & Micro Enterprises 10%	-	-	3.29	-	8.22	-	8.22	-	13.15	-	<b>32.87</b>	-
10	Consolidation-3%	-	-	-	-	-	-	-	-	9.86	-	<b>9.86</b>	-
	<b>Total</b>	<b>19.72</b>	<b>-</b>	<b>46.02</b>	<b>366.81</b>	<b>82.17</b>	<b>791.13</b>	<b>82.17</b>	<b>791.13</b>	<b>98.60</b>	<b>789.93</b>	<b>328.68</b>	<b>2739.00</b>

## Year wise Budget for Various Components (Graphical view)



	Administrative Cost-10%	Monitoring - 1%	Evaluation - 1%	Entry Point Activity- 4%	Institution & Capacity Building-5%	DPR-1%	Watershed Dev. Work- 56%	Livelihood Activity-9%	Production System & Micro Enterprises 10%	Consolidation- 3%
Ist Year	1.64	0.00	0.00	13.15	1.64	3.29	0.00	0.00	0.00	0.00
IIInd Year	4.93	0.66	0.99	0.00	8.22	0.00	24.65	3.29	3.29	0.00
IIIrd Year	8.87	0.66	0.58	0.00	2.47	0.00	53.16	8.22	8.22	0.00
IVth Year	8.87	0.66	0.58	0.00	2.47	0.00	53.16	8.22	8.22	0.00
Vth Year	8.55	1.31	1.15	0.00	1.64	0.00	53.08	9.86	13.15	9.86

# **CHAPTER-1**

## **INTRODUCTION & BACKGROUND**

The IWMP–XV project in Kadaura Block of Jalaun district, Uttar Pradesh, is located at a distance of about 5 km from Kadaura Block and 45 km from district head quarter. Six Micro-watersheds with code No. 2C2A1e2e Kadaura, 2C2H1c3c Babina-II, 2C2H1c3b Babina-I, 2C2H1c2d Kuane Khera, 2C2H1f2g Kurahana Alamgir 2C2A1g2e Karamchandpur are included in the project. It comprise of 27 villages namely Bamhauri, Kadaura (N.P), Naka, Babina, Parausa-2, Margayan, Kathpurwa, Hansa, Sujanpur, Kurahana Alamgir, Mawai Brahman, Garrehi, Rasoolpur, Kadaura, Dadupur, Karamchandpur, Parasan, Taharpur, Sondhi, Fahrampur, Dhani Khurd, Etura Bawni, Lamsar, Matra, Rajepur. It is located in Eastern part of Jalaun district. Total area of Watershed is 5874.66 ha out of which 2739.00 ha is proposed to be treated under IWMP Programme.

The watershed is proposed to be taken by Bhoomi Sanrakshan Adhikari, Department Agriculture, Rashtriya Jalagam Orai, District Jalaun, Uttar Pradesh for IWMP programme starting from 2011-12. It is proposed to be completed by 2015-16.

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 (ha.)</b>
<b>1</b>	<b>2</b>	<b>3</b>
Total Micro watersheds in the district	508	456500
Untreatable micro-watersheds	147	131922
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)	64	47914

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

<b>Year</b>	<b>Project/ Phase IWMP.....</b>	<b>Name of Block</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>
<b>1</b>	<b>2</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>
2011-12	IWMP-XIV	Kadaura	6	4312.42	517.49	BSA, Deptt. Of Agriculture, Rashtriya Jalagam Orai, Distt. Jalaun,	25.10.2011
2011-12	IWMP-XV*		6	2739.00	328.68		25.10.2011
<b>Total</b>			<b>12</b>	<b>7057.42</b>	<b>853.17</b>		

**Table 1.3: Details of IWMP for which this DPR is Prepared**

<b>Watershed project IWMP</b>	<b>Name of MWS</b>	<b>Code of MWS</b>	<b>Geographical Area (ha)</b>	<b>Treatable Area (ha)</b>	<b>Name of Watershed in which MWS is falling (River / Nala name)</b>
IWMP-XV	Babina-I	2C2H1c3b	1198.18	602.00	L.B. Betwa
IWMP-XV	Babina-II	2C2H1c3c	1511.08	543.39	R.B. Yamuna
IWMP-XV	Kadaura	2C2A1e2e	801.93	655.72	R.B. Yamuna
IWMP-XV	Kuane Khera	2C2H1c2d	1069.19	937.89	R.B. Yamuna
IWMP-XV	Karamchandpur	2C2A1g2e	633.64	0.00	R.B. Yamuna
IWMP-XV	Kurahana Alamgir	2C2H1f2g	660.65	0.00	L.B. Betwa
<b>Total</b>			<b>5874.66</b>	<b>2739.00</b>	

Most of the land of the project area is irrigated and levelled. Therefore no activity has been proposed in these micro watershed codes Karamchandpur/2C2A1g2e and Kurahana Alamgir/ 2C2H1f2g.

## 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 transports 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 1.4: Problem identification and prioritization for watershed

S. No.	Problem	Rank
1	Low production of field crops due to soil erosion	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 1.4: A SWOT analysis of watershed is presented as below:**

<b>Strength (S)</b>	<b>Weakness(W)</b>
<ul style="list-style-type: none"> <li>1- Cooperative work culture is traditional activities</li> <li>2- Close ethnic tier</li> <li>3- Road at the top as well as outlet of the watershed</li> <li>4- Hard working man power</li> <li>5- Resource pool of crop genetic diversity</li> <li>6- Awareness of farmers about watershed management program</li> <li>7- Well established CPR maintaining and sharing system</li> <li>8- good productivity of soil.</li> <li>9- Social outlook of the community towards landless</li> </ul>	<ul style="list-style-type: none"> <li>1- Poor water management</li> <li>2- Resource poor farmers</li> <li>3- Out migration of youth</li> <li>4- Low and erratic rainfall</li> <li>5- Fragile geography</li> <li>6- Fragmented land holding.</li> <li>7- Heavy infestation of wild animals</li> <li>8- Problem of fuel and fodder</li> <li>9- ANNA-PRATHA</li> </ul>
<b>Opportunities(O)</b>	<b>Threats (T)</b>
<ul style="list-style-type: none"> <li>1- Wide range of annual and perennial crops</li> <li>2- Scope of regular employment opportunity to check out migration</li> <li>3- Strengthening of existing irrigation system</li> <li>4- Conducive climate for rainfed crop diversification</li> <li>5- Good scope for agro-forestry and dry land horticulture.</li> <li>6- Potential for collective active action and management of CPRs.</li> </ul>	<ul style="list-style-type: none"> <li>1- Prone to adverse climate like drought</li> <li>2- High market risk</li> <li>3- Social conflicts owing to PRI &amp; WSM policies and local policies.</li> <li>4- Weak coordination among line departments.</li> <li>5- Lack of expertise of implementing agencies in different aspect of WSM.</li> </ul>

**Table 1.5: 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)				
Jalaun	IWMP-XV	06	2739.00	328.68				
<b>Weightage</b>								
<b>i</b>	<b>ii</b>	<b>iii</b>	<b>iv</b>	<b>v</b>	<b>vi</b>	<b>vii</b>	<b>viii</b>	<b>ix</b>
7.5	5	5	5	0	10	10	5	10
<b>x</b>	<b>xi</b>	<b>xii</b>	<b>xiii</b>	<b>xiv</b>				
15	10	10	0	92.50				

**Table 1.6: Criteria and Weightage for selection of watershed**

Criteria	Maximum Score	Ranges & Scores			
Poverty index (% of poor to population)	10	Above 80 % (10)	80 to 50 % (7.5)	50 to 20 % (5)	Below 20 % (2.5)
% of SC/ ST population	10	More than 40 % (10)	20 to 40 % (5)	Less than 20 % (3)	
Actual wages	5	Actual wages are significantly lower than minimum wages (5)	Actual wages are equal to or higher than minimum wages (0)		
% of small and marginal farmers	10	More than 80 % (10)	50 to 80 % (5)	Less than 50 % (3)	
Ground water status	5	Over exploited (5)	Critical (3)	Sub critical (2)	Safe (0)

<b>Criteria</b>	<b>Maximum Score</b>	<b>Ranges &amp; Scores</b>			
Moisture index/ DPAP/ DDP Block	15	-66.7 & below (15) DDP Block	-33.3 to -66.6 (10) DPAP Block	0 to -33.2 (0) Non DPAP/ DDP Block	
Area under rain-fed agriculture	15	More than 90 % (15)	80 to 90 % (10)	70 to 80% (5)	Above 70 % (Reject)
Drinking water	10	No source (10)	Problematic village (7.5)	Partially covered (5)	Fully covered (0)
Degraded land	15	High – above 20 % (15)	Medium – 10 to 20 % (10)	Low- less than 10 % of TGA (5)	
Productivity potential of the land	15	Lands with low production & where productivity can be significantly enhanced with reasonable efforts (15)	Lands with moderate production & where productivity can be enhanced with reasonable efforts (10)	Lands with high production & where productivity can be marginally enhanced with reasonable efforts (5)	
Contiguity to another watershed that has already been developed/ treated	10	Contiguous to previously treated watershed & contiguity within the micro watersheds in the project (10)	Contiguity within the micro watersheds in the project but non contiguous to previously treated watershed (5)	Neither contiguous to previously treated watershed nor contiguity within the micro watersheds in the project (0)	
Cluster approach in the plains (more than one contiguous micro- watersheds in the project)	15	Above 6 micro- watersheds in cluster (15)	4 to 6 micro watersheds in cluster (10)	2 to 4 micro watersheds in cluster (5)	
Cluster approach in the hills (more than one contiguous micro-watersheds in the project)	15	Above 5 micro- watersheds in cluster (15)	3 to 5 micro watersheds in cluster (10)	2 to 3 micro watersheds in cluster (5)	
<b>Total</b>	<b>150</b>	<b>150</b>	<b>90</b>	<b>41</b>	<b>2.5</b>

## **Major reasons for selection of watersheds**

1. Poverty index above 80%.
2. Actual wages are significantly lower than minimum wages.
3. Area under rain-fed agriculture is more than 80%.
4. Land with low production and production may be increased by reasonable efforts.

**CHAPTER – 2**  
**GENERAL DESCRIPTION OF PROJECT**  
**AREA**

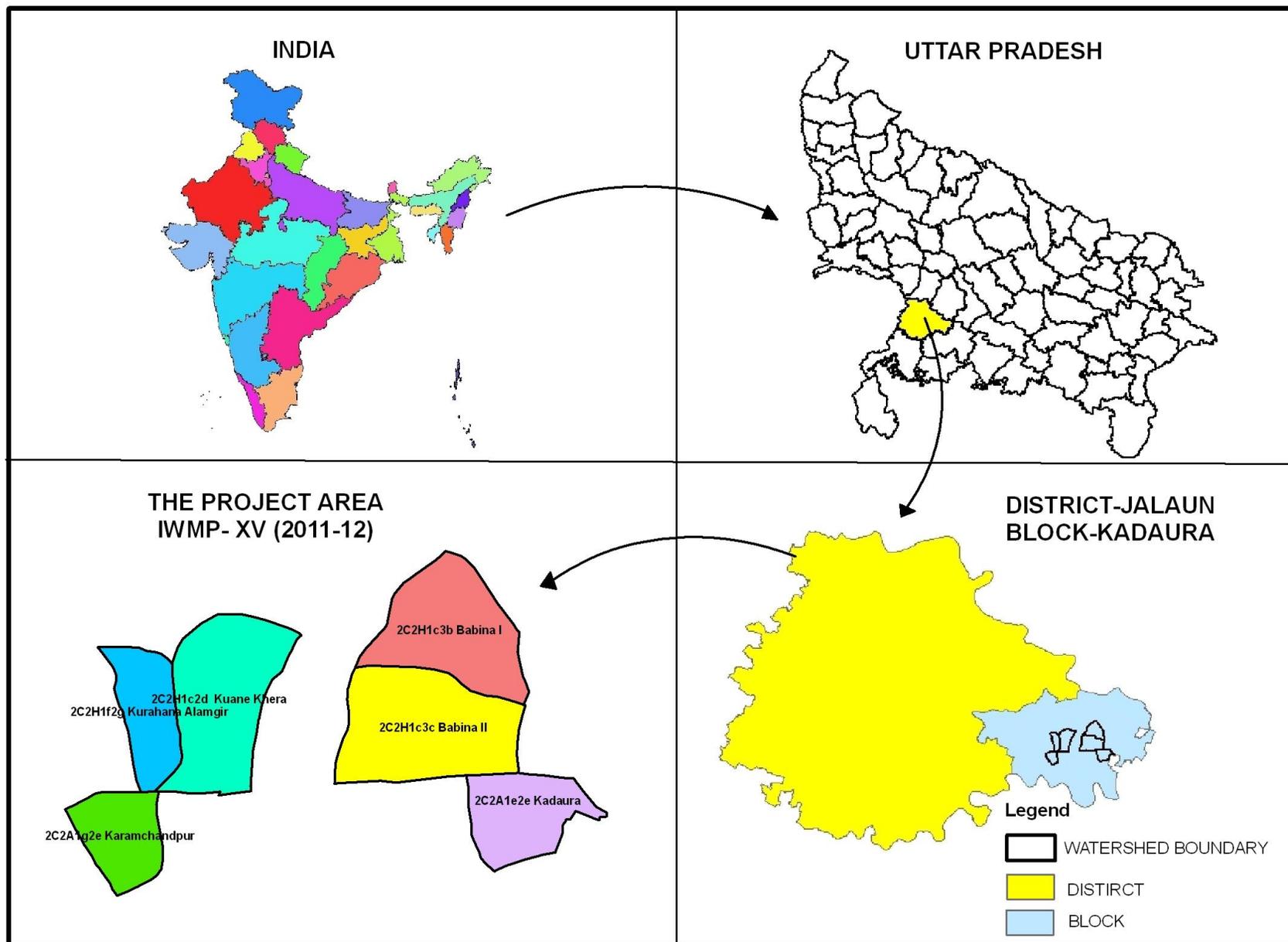
**Location:** - The micro-watershed IWMP-XV is situated in Kadaura Block of Jalaun district, U.P., at a distance of about 5 km from Kadaura Block and 45 km from district head quarter. It represents the eastern part of the district. The details about micro-watersheds, their geographical location (lat/long), 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-XV, Jalaun**

S. No.	Name of micro watershed with Code	Latitude / Longitude	Name of GP	Names of villages	Name of Block	Geog. Area of village included in MWS	Details of important /approach road with distance km
1	2	3	4	5	6	7	8
1	Kadaura 2C2A1e2e	25°59'47"N 25°57'27"N 79°49'11"E 79°51'47"E	Etora Bavani Naka Kadaura	Parosa 2	Kadaura	142.80	5 km from Kadaura Block and 42-45 km from district head quarter
				Etora Bavani		9.10	
				Kadora		112.38	
				Naka		89.54	
				Kadaura (NP)		358.97	
				Pandora		44.42	
				Bamhauri		44.71	
<b>Sub Total</b>						<b>801.93</b>	
2	Babina II 2C2H1c3c	26°00'53"N 25°58'54"N 79°46'43E 79°50'17"E	Babina Kathpurva Margaya Kadora Naka	Sujanpur	Kadaura	23.712	5 km from Kadaura Block and 42-45 km from district head quarter
				Babina		889.862	
				Parosa 2		15.498	
				Kathpurva		137.508	
				Margaya		173.194	
				Kadora		106.907	
				Naka		164.398	
<b>Sub Total</b>						<b>1511.08</b>	

S. No.	Name of micro watershed with Code	Latitude / Longitude	Name of GP	Names of villages	Name of Block	Geog. Area of village included in MWS	Details of important /approach road with distance km
1	2	3	4	5	6	7	8
3	Babina I 2C2H1c3b	26°2'45"N 26°0'12"N 79°47'70"E 79°50'21"E	Sondhi Hansa Babina Kathpurva	Sondhi	Kadaura	236.731	5 km from Kadaura Block and 42-45 km from district head quarter
				Hansa		177.399	
				Sujanpur		100.526	
				Taharpur		110.422	
				Pharhampur		2.106	
				Babina		569.494	
				Parosa 2		0.764	
				Kathpurva		0.737	
<b>Sub Total</b>						<b>1198.18</b>	
4	Kuane Khera 2C2H1c2d	26°01'48"N 25°58'45"N 79°43'54"E 79°46'55"E	Lamsar Kuane Khera Garehi Matra Margaya	Lamsar	Kadaura	58.940	5 km from Kadaura Block and 42-45 km from district head quarter
				Devpura		0.191	
				Matra		4.443	
				Dadupur		89.532	
				Rasoolpur		21.954	
				Kuane Khera		591.471	
				Garehi		214.365	
				Margaya		27.709	
				Mavai Brahmnn		60.586	
<b>Sub Total</b>						<b>1069.19</b>	
5	Kurhana Alamgir 2C2H1f2g	26°01'90"N 25°58'47"N 79°42'28"E 79°44'3"E	Kurhana Alamgir Karamchandpur	Rajepur	Kadaura	94.246	5 km from Kadaura Block and 42-45 km from district head quarter
				Dadupur		34.107	
				Kurhana Alamgir		516.159	
				Karamchandpur		16.137	
<b>Sub Total</b>						<b>660.65</b>	
6	Karamchandpur 2C2A1g2e	25°58'41"N 25°57'20"N 79°41'54"E 79°43'44"E	Karamchandpur Mavai Brahmnn Parsan	Karamchandpur	Kadaura	366.013	5 km from Kadaura Block and 42-45 km from district head quarter
				Mavai Brahmnn		62.551	
				Parsan		42.172	
				Dhhamni Khurd		162.900	
<b>Sub Total</b>						<b>633.64</b>	
<b>Grand Total</b>						<b>5874.66</b>	

# LOCATION MAP



**Area and Landuse:** Total area of the watershed is 5874.66 ha out of which treatable area are 2739.00 ha. Rainfed area is 2519.88 ha out of which 4871.62 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 2.3.

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

S. No.	Code of MWS	Name of MWS	Cultivated and wasteland area (ha)				Area details (ha) (falling within the projects)							
			Cultivated rainfed area	Cultivated irrigated area	Uncultivated wasteland/ fallow		Pvt. Agri. Land				Forest Land	Community land	Others (Pl. specify)	Total area (ha)
					Temp.	Permanent	Gen	SC/ST	OBC	Total				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Babina-I	2C2H1c3b	553.84	447.13	48.16	89.43	290.28	260.25	450.44	1000.97	0.00	41.73	17.89	<b>1198.18</b>
2	Babina-II	2C2H1c3c	499.92	725.77	43.47	145.15	355.45	318.68	551.56	1225.69	0.00	67.74	29.03	<b>1511.08</b>
3	Kadaura	2C2A1e2e	603.26	109.65	52.46	21.93	206.75	185.36	320.81	712.92	0.00	10.23	4.39	<b>801.93</b>
4	Kuane Khera	2C2H1c2d	862.86	98.48	75.03	19.70	278.79	249.95	432.60	961.34	0.00	9.19	3.94	<b>1069.19</b>
5	Karamchandpur	2C2A1g2e	0.00	475.23	0.00	95.05	137.82	123.56	213.85	475.23	0.00	44.35	19.01	<b>633.64</b>
6	Kurahana Alamgir	2C2H1f2g	0.00	495.49	0.00	99.10	143.69	128.83	222.97	495.49	0.00	46.25	19.82	<b>660.65</b>
<b>Total</b>			<b>2519.88</b>	<b>2351.74</b>	<b>219.12</b>	<b>470.35</b>	<b>1412.77</b>	<b>1266.62</b>	<b>2192.23</b>	<b>4871.62</b>	<b>0.00</b>	<b>219.50</b>	<b>94.07</b>	<b>5874.66</b>

## 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 II, III, IV, V, VI and VII.

**Table 2.3: Area under Different Land Capability Class (LCC)**

<b>Land Capability Class</b>	<b>Area (ha)</b>	<b>Main Problem</b>
II	4125.77	Sheet Erosion
III	523.94	Sheet and Rill Erosion
IV	76.88	Gully Erosion
V	822.21	High Gully Erosion
VI	142.55	Sevier Gully Erosion
VII	24.76	Sevier Gully Erosion due to water logging
Others	158.55	-
<b>Total</b>	<b>5874.66</b>	

**Physiography:** The micro watershed of the IWMP-XV is located at an elevation of 128 to 139 m above mean sea level (MSL) and Relief height difference from 5 m to 6 m. Elevation range and relief are given in Table 2.4.

**Table 2.4: Elevation Range, Longitude/ Latitude, Relief Height Difference of the MWS**

S. No.	Name of MWS	Code of MWS	Location		Elevation of watershed from Mean Sea level		
			Latitude (N)	Longitude (E)	Highest (M)	Lowest (M)	Relief (M)
1	Babina-I	2C2H1c3b	26°2'45"N 26°0'12"N	79°47'70"E 79°50'21"E	134	128	6
2	Babina-II	2C2H1c3c	26°00'53"N 25°58'54"N	79°46'43"E 79°50'17"E	139	134	5
3	Kadaura	2C2A1e2e	25°59'47"N 25°57'27"N	79°49'11"E 79°51'47"E	134	129	5
4	Karamchandpur	2C2A1g2e	25°58'41"N 25°57'20"N	79°41'54"E 79°43'44"E	134	129	5
5	Kurahana Alamgir	2C2H1f2g	26°01'90"N 25°58'47"N	79°42'28"E 79°44'3"E	134	129	5
6	Kuane Khera	2C2H1c2d	26°01'48"N 25°58'45"N	79°43'54"E 79°46'55"E	139	134	5

**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 2.5 below. The maximum slope area, in the micro-watershed, falls in the category were 1-3% (4041.23 ha) followed by 0-0.5% (227.13 ha).

**Table 2.5: Slope Range in the Project Area**

S. No.	Name of MWS	Code of MWS	Slope range wise area (ha)						
			0-05% (Level)	0.5-1% (Nearly Level)	1-3% (Very gently sloping)	3-5% (Gently sloping)	>5%		Others Specify
							5-10% (Moderate sloping)	10-15%	15-35%
1	2	3	4	5	6	7	8	9	10
1	Babina-I	2C2H1c3b	69.43	90.73	776.11	218.87	42.11	0.93	
2	Babina-II	2C2H1c3c	55.18	89.59	991.25	326.34	47.92	0.80	
3	Kadaura	2C2A1e2e	20.89	40.20	542.60	162.38	35.61	0.24	
4	Kuane Khera	2C2H1c2d	34.52	60.48	829.54	131.90829	12.74		
5	Karamchandpur	2C2A1g2e	21.08	44.77	455.15	99.51	13.13		
6	Kurahana Alamgir	2C2H1f2g	26.03	39.59	446.58	124.00	24.13	0.32	
	<b>Total</b>		<b>227.13</b>	<b>365.36</b>	<b>4041.23</b>	<b>1063.01</b>	<b>175.64</b>	<b>2.29</b>	<b>0.00</b>

**Climate:** The climate of the region is characterized as arid to semi-arid with average annual rainfall less than 536 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 2.6: 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	54.72
July	252	82.9	310	132	243	203.98
August	66.4	88.2	135	154	177	124.12
September	36.2	57.1	107	105	216	104.26
October	19.3	0	8.7	109	0	27.4
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- 2.7: 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
1	JALAUN	IWMP-XV	Bundelkhand Zone		2739.00	25
Major soil types		Topography	Average rainfall in mm (preceding 5 years average)	Major crops		
a)Type	b) Area in ha			a) Name	b) Area in ha	
Rakar	2054	Undulating	520	<b>Kharif:</b> Jowar, Til, Arhar	2395	
Kabar						
Mar				<b>Rabi:</b> Wheat, Gram, Mustard, Masoor		
Padwa						

**Table 2.8: Details of Flood and Drought in the Project Area (IWMP-XV, Jalaun)**

Name of Micro Watershed	Particulars	Villages	Periodicity		Not affected
			Annual	Any other (please specify)	
Babina-I 2C2H1c3b Babina-II 2C2H1c3c Kadaura 2C2A1e2e Karamchandpur 2C2A1g2e Kurahana Alamgir 2C2H1f2g Kuane Khera 2C2H1c2d	Flood	No. of villages	-	-	Not affected
		Name(s) of villages	-	-	
	Drought	No. of villages: 27			
		<b>Name(s) of villages:</b> Bamhauri, Kadaura (N.P), Naka, Babina, Parausa-2, Margayan, Kathpurwa, Hansa, Sujanpur, Kurahana Alamgir, Mawai Brahman, Garrehi, Rasoolpur, Kadaura, Dadupur, Karamchandpur, Parasan, Taharpur, Sondhi, Fahrampur, Dhani Khurd, Etaura Bawni, Lamsar, Matra, Rajepur		Alternate after every 2-3 years	

## Watershed Characteristics

### Shape and Size

The shape of watershed (IWMP-XV, JALAUN) is more or less rectangle in shape. The shape and size of the microwater shed is given in Table 2.9.

**Table- 2.9: SHAPE AND SIZE OF WATERSHED**

S. No.	Micro watershed Code	Geog. Area (ha)	Shape	Approximate size (m)	
				Length	Width
1	2C2H1c3b	1198.18	Triangular	3720	4015
2	2C2H1c3c	1511.08	Rectangular	3277	5164
3	2C2A1e2e	801.93	Rectangular	2690	3958
4	2C2H1c2d	1069.19	Triangular	5473	2780
5	2C2A1g2e	633.64	Triangular	3029	2236
6	2C2H1f2g	660.65	Liner	4340	1591

**Geomorphology:**

The watershed is located in the Eastern 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 Ravenous land. The annual soil erosion in the project area is 24 to 28 tons/year as detailed below.

**Table- 2.10: DETAIL OF SOIL EROSION (IWMP-XV), JALAUN**

S. No.	Name of the Project	Soil Erosion (Ha)				Run-Off (mm/yr)	Average Soil Loss in tons/ ha/ yr	Wind Erosion
		Sheet	Rill	Gully	Total			
1	IWMP-XV	2907.96	2144.25	822.45	5874.66	312	22 to 26	N.A.

**Table- 2.11: EMPLOYMENT RELATED OUTCOME (IWMP-XV), JALAUN**

S. No.	District	No of villages	Wage Employment										Self Employment				
			No. of mandays (in lakh)					No. of Beneficiaries					No. of Beneficiaries				
			SC	ST	Other	Women	Total	SC	ST	Other	Women	Total	SC	ST	Other	Women	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Jalaun	8	0.41	-	1.066	0.164	1.64	730	-	1600	120	2450	52	-	128	10	190

# **CHAPTER-3**

## **BASELINE SURVEY**

## **SOCIO-ECONOMIC CONDITION**

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-XV**

<b>S. No.</b>	<b>Name of Gram Panchayat</b>	<b>Name of villages</b>	<b>Total House holds</b>	<b>Total Population</b>	<b>Total Male</b>	<b>Total Female</b>	<b>Total SC</b>	<b>Male SC</b>	<b>Females SC</b>
1	Garehi	Garehi	263	1613	850	763	605	307	298
2		Rasoolpur	77	543	301	242	57	36	21
3	Matra	Matra	241	1618	875	743	602	345	257
4		Pharhampur	26	184	97	87	125	73	52
5	Naka	Naka	210	1267	726	541	409	229	180
6		Pandora	149	870	443	427	564	299	265
7	Hansa	Hansa	210	1292	696	596	577	311	266
8	Margaya	Margaya	643	4125	2303	1822	1876	1062	814
9	Kuane Khera	Kuane Khera	156	1074	603	471	242	138	104
10	Etora Bavani	Etora Bavani	156	1023	558	465	145	83	62
11	Lamsar	Lamsar	237	1527	806	721	371	188	183
12	Parosa 2	Parosa 2	209	1378	738	640	522	280	242
13	Taharpur	Taharpur	219	1439	773	666	213	118	95
14	Sondhi	Sondhi	118	797	423	374	212	123	89
15	Kathpurva	Kathpurva	180	1103	608	495	570	322	248
16		Sujanpur	76	448	244	204	0	0	0
17		Devpura	109	695	381	314	396	217	179
<b>Total</b>			<b>3279</b>	<b>20996</b>	<b>11425</b>	<b>9571</b>	<b>7486</b>	<b>4131</b>	<b>3355</b>

**Table 3.2: Details of seasonal migration from Project area: Pre-project status**

<b>S. No.</b>	<b>Name of villages</b>	<b>No. of persons migrating</b>	<b>No. of days per year of migration</b>	<b>Major reason(s) for migrating</b>	<b>Distance of destination of migration from the village (km)</b>	<b>Occupation during migration</b>	<b>Expected reduction in no. of persons migrating</b>	<b>Income from such occupation (Rs. in lakh)</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>	<b>9</b>
1	Bamhauri, Kadaura (N.P), Naka, Babina, Parausa-2, Margayan, Kathpurwa, Hansa, Sujanpur, Kurahana Alamgir, Mawai Brahman, Garrehi, Rasoolpur, Kadaura, Dadupur, Karamchandpur, Parasan, Taharpur, Sondhi, Fahrampur, Dhani Khurd, Etaura Bawni, Lamsar, Matra, Rajepur	290	160 to 190	Lack of employment, less wages, higher wages outside	300-500 km	Labour	131	0.25 to 0.50

**Table 3.3: Typical soil profile of the watershed (dominant soil)**

Horizon	Depth (cm)	Morphology
A	0-150	Yellow & Black in color, 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 color, 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

**Table 3.4: Soil characteristics and fertility status**

Soil properties	LCC II	LCC IV	LCC VII/VIII
Sand (%)	47.04	75.04	73.04
Silt (%)	24.6	18.6	20.3
Clay (%)	28.36	6.36	6.66
Texture	Sandy clay loam	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	8-May
Available K (kg ha <sup>-1</sup> )	189	325	230

Values correspond to soil fraction <2mm.

## 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. The Carbonates and the sulphates are practically absent.

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

S. 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)	Geographical Area	Others specify
1	Babina-I 2C2H1c3b	143.78	383.42	670.98	1198.18	Rakar, Kabar, Mar, Padwa
2	Babina-II 2C2H1c3c	181.33	483.55	846.20	1511.08	Rakar, Kabar, Mar, Padwa
3	Kadaura 2C2A1e2e	96.23	256.62	449.08	801.93	Rakar, Kabar, Mar, Padwa
4	Kuane Khera 2C2H1c2d	128.30	342.14	598.75	1069.19	Rakar, Kabar, Mar, Padwa
5	Karamchandpur 2C2A1g2e	76.04	202.76	354.84	633.64	Rakar, Kabar, Mar, Padwa
6	Kurahana Alamgir 2C2H1f2g	79.28	211.41	369.96	660.65	Rakar, Kabar, Mar, Padwa
	<b>Total</b>	<b>704.96</b>	<b>1879.89</b>	<b>3289.81</b>	<b>5874.66</b>	

**Table 3.6: 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	Babina-I 2C2H1c3b	Sondhi Hansa Sujanpur Taharpur Pharhampur Babina Parosa 2 Kathpurva	(i) Large farmer	-	-	-	-	-
			(ii) Small farmer	13	-	-	-	-
			(iii) Marginal farmer	28	-	-	-	-
			(iv) Landless person	24	-	-	-	-
			<b>Sub-Total</b>	<b>41</b>	<b>-</b>	<b>598.00</b>	<b>486.13</b>	<b>1084.13</b>
2	Babina-II 2C2H1c3c	Sujanpur Babina Parosa 2 Kathpurva Margaya Kadora Naka	(i) Large farmer	79	-	-	-	-
			(ii) Small farmer	137	-	-	-	-
			(iii) Marginal farmer	82	-	-	-	-
			(iv) Landless person	37	35	-	-	-
			<b>Sub-Total</b>	<b>335</b>	<b>35</b>	<b>860.20</b>	<b>507.06</b>	<b>1367.26</b>
3	Kadoura 2C2A1e2e	Parosa 2 Etor Bavani Kadora Naka Kadoura (NP) Pandora Bamhauri	(i) Large farmer	36	-	-	-	-
			(ii) Small farmer	198	-	-	-	-
			(iii) Marginal farmer	84	-	-	-	-
			(iv) Landless person	72	55	-	-	-
			<b>Sub-Total</b>	<b>390</b>	<b>55</b>	<b>533.60</b>	<b>166.44</b>	<b>700.04</b>
4	Kuane Khera 2C2H1c2d	Lamsar Devpura Matra Dadupur Rasoolpur Kuane Khera Garehi Margaya Mavai Brahmn	(i) Large farmer	270	-	-	-	-
			(ii) Small farmer	640	-	-	-	-
			(iii) Marginal farmer	430	-	-	-	-
			(iv) Landless person	187	175	-	-	-
			<b>Sub-Total</b>	<b>1527</b>	<b>175</b>	<b>528.08</b>	<b>221.39</b>	<b>749.47</b>

**Table 3.7: 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:

S. No.	Crop.	Area (ha)		Productivity (q/ha)		Production (q)			
		Irrigated	Rainfed	Irrigated	Rainfed	Grain/Main product		Fodder/Fuel/other Product	
						Irrigated	Rainfed	Irrigated	Rainfed
<b>A</b>	<b>Kharif</b>								
1	Paddy	135.36	1622.30	14.00	10.00	0.00	16223.00	0.00	24334.50
2	Maize	0.00	130.50	0.00	2.00	0.00	261.00	0.00	391.50
3	Arhar	0.00	560.20	0.00	4.25	0.00	2380.85	0.00	3571.28
4	Urd/Moong	0.00	390.00	0.00	5.00	0.00	1950.00	0.00	1950.00
	<b>Total</b>	135.36	2703.00				20814.85		30247.28
<b>B</b>	<b>Rabi</b>								
1	Wheat	204.60	1654.21	22.00	18.00	4501.20	29775.78	1890.00	44663.67
2	Barley	0.00	190.00	0.00	10.50	0.00	1995.00	0.00	2992.50
3	Gram	0.00	615.20	0.00	6.50	0.00	3998.80	0.00	4998.50
4	Mustard	0.00	417.20	0.00	4.25	0.00	1773.10	0.00	2659.65
	<b>Total</b>	204.60	2876.61				37542.68		55314.32
<b>C</b>	<b>Zaid</b>								
	<b>Cultivable Area</b>	<b>4871.62</b>		<b>Cropping Intensity</b>		<b>121.51</b>			

### Summary

It was found that the productivity of Wheat, Gram, Paddy, Arhar and Mustard are mainly grown in the project area. Overall cropping intensity of the project area is 121.51%.

## Livestock Population

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

**Table 3.8: Livestock Population in IWMP- XV, Jalaun**

All Figure in No.

S. No.	Name of Village	Cow		Buffalo		Ox/ Bull	Goat	Sheep	Piggeries	Poultry			Other Specify
		Desi	Crossed	Desi	Murrah					Broiler	Layers	Total	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Babina	360	60	135	20	10	450	250	100	-	-	-	6
2	Bamhauri	540	56	640	64	20	800	480	210	-	-	-	10
3	Dadupur	300	32	436	45	32	600	320	164	-	-	-	9
4	Devpura	-	-	-	-	-	-	-	-	-	-	-	-
5	Etora Bavani	430	64	236	44	-	-	212	90	-	-	-	8
6	Garehi	210	22	460	49	20	700	336	186	-	-	-	30
7	Hansa	-	-	-	-	-	-	-	-	-	-	-	-
8	Kadaura (NP)	-	-	-	-	-	-	-	-	-	-	-	-
9	Kadora	220	21	430	46	22	780	360	358	-	-	-	10
10	Kathpurva	280	28	425	51	15	600	200	80	-	-	-	7
11	Kuane Khera	-	-	-	-	-	-	-	-	-	-	-	-
12	Lamsar	340	32	786	80	30	1000	400	756	-	-	-	6
13	Margaya	310	30	467	47	28	1400	856	859	-	-	-	8
14	Matra	330	36	830	90	26	1200	695	852	-	-	-	12
15	Naka	180	38	135	30	50	135	-	-	-	-	-	11
16	Pandora	-	-	-	-	-	-	-	-	-	-	-	-
17	Parosa 2	-	-	-	-	-	-	-	-	-	-	-	-
18	Parsan	75	36	90	35	12	140	22	-	-	-	-	-
19	Pharhampur	132	36	156	44	24	200	17	12	-	-	-	6
20	Rajepur	134	30	152	42	19	222	-	-	-	-	-	8
21	Rasoolpur	168	36	225	78	22	620	72	44	-	-	-	-
22	Sondhi	235	52	148	48	25	115	-	-	-	-	-	-
23	Sujanpur	383	60	267	72	30	335	-	-	-	-	-	6
24	Taharpur	130	52	230	52	26	600	-	-	-	-	-	-
	<b>Total</b>	<b>4757</b>	<b>721</b>	<b>6248</b>	<b>937</b>	<b>411</b>	<b>9897</b>	<b>4220</b>	<b>3711</b>				<b>137</b>

**Table 3.9: Details of Livestock Productivity**

S. No.	Name of Village	Milk Production (Liter Per day)				Goatry	Poultry		Piggeries weight Kg/Pig
		Cows		Buffalos			Broiler Weight (in Kg/ Brl)	Layers No. of eggs/day	
		Desi	Crossed	Desi	Murrah	Weight in (Kg/goat)			
1	Babina	1.4	2.5	2.1	5.5	25	-	-	-
2	Bamhauri	1.3	2.6	2.6	5.6	28	-	-	-
3	Dadupur	1.5	2.6	2.4	5.1	26	-	-	-
4	Devpura	-	-	-	-	-	-	-	-
5	Etora Bavani	1.4	2.7	2.9	5	23	-	-	-
6	Garehi	1.2	2.7	2.7	5.6	21	-	-	-
7	Hansa	-	-	-	-	-	-	-	-
8	Kadaura (NP)	-	-	-	-	-	-	-	-
9	Kadora	1.8	2.7	2.1	5.6	24	-	-	-
10	Kathpurva	1.6	2.7	2.3	5.1	23	-	-	-
11	Kuane Khera	-	-	-	-	-	-	-	-
12	Lamsar	1.4	2.6	2.5	5.8	27	-	-	-
13	Margaya	1.6	2.8	2.6	5.1	28	-	-	-
14	Matra	1.2	2.7	2.1	5.3	24	-	-	-
15	Naka	1.3	2.6	2.6	5.6	28	-	-	-
16	Pandora	1.5	2.6	2.4	5.1	26	-	-	-
17	Parosa 2	-	-	-	-	-	-	-	-
18	Parsan	-	-	-	-	-	-	-	-
19	Pharhampur	1.2	2.5	2.7	5.6	21	-	-	-
20	Rajepur	1.4	2.5	2.1	5.5	25	-	-	-
21	Rasoolpur	1.8	2.5	2.1	5.6	24	-	-	-
22	Sondhi	1.6	2.6	2.3	5.1	23	-	-	-
23	Sujanpur						-	-	-
24	Taharpur	1.4	2.6	2.5	5.8	27	-	-	-
	<b>Average</b>	<b>1.45</b>	<b>2.62</b>	<b>2.41</b>	<b>5.41</b>	<b>24.88</b>	<b>-</b>	<b>-</b>	<b>-</b>

**Table 3.10: Ground Water Status**

<b>S. No.</b>	<b>Name of Village</b>	<b>Source</b>	<b>Pre-Project level</b>	<b>Expected post-project level</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
1	Bamhauri, Kadaura (N.P), Naka, Babina, Parausa-2, Margayan, Kathpurwa, Hansa, Sujanpur, Kurahana Alamgir, Mawai Brahman, Garrehi, Rasoolpur, Kadaura, Dadupur, Karamchandpur, Parasan, Taharpur, Sondhi, Fahrampur, Dhani Khurd, Etura Bawni, Lamsar, Matra, Rajepur	Open wells	12-13 m	9-11 m	-

**Table 3.11: Status of Drinking Water**

<b>S. No.</b>	<b>Name of Village</b>	<b>Availability of drinking water (no. of months in a year)</b>		<b>Quality of drinking water</b>		<b>Comments</b>
<b>1</b>	<b>2</b>	<b>3</b>		<b>4</b>		<b>5</b>
1	Bamhauri, Kadaura (N.P), Naka, Babina, Parausa-2, Margayan, Kathpurwa, Hansa, Sujanpur, Kurahana Alamgir, Mawai Brahman, Garrehi, Rasoolpur, Kadaura, Dadupur, Karamchandpur, Parasan, Taharpur, Sondhi, Fahrampur, Dhani Khurd, Etura Bawni, Lamsar, Matra, Rajeypur	10	12	Hard & Soft	Soft	-

**Table 3.12: Details of infrastructure in the project areas**

S No	Name of Micro Watershed	Name of villages	Parameters		Status					
1	2	3	4		5					
1	Babina-I 2C2H1c3b	Sondhi Hansa Sujanpur Taharpur Pharhampur Babina Parosa 2 Kathpurva	(i)	Name of villages connected to the main road by an all-weather road	3 km					
			(ii)	Village's Name provided with electricity	√					
			(iii)	No. of households without access to drinking water	X					
			(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	X					
			(vi)	Names of villages with access to Veterinary Dispensary	X					
			(vii)	Names of villages with access to Post Office	X					
			(viii)	Names of villages with access to Banks	X					
			(ix)	Names of villages with access to Markets/ mandis	X					
			(x)	Names of villages with access to Agro-industries	X					
			(xi)	Total quantity of surplus milk deficit	X					
			(xii)	No. of milk collection canter (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U)	(S) √	(PA)	(O)		
			(xiii)	Name of villages with access to Anganwadi Centre	X					
			(xiv)	Any other facilities with names of villages (please specify)	X					

S No	Name of Micro Watershed	Name of villages	Parameters		Status					
1	2	3	4		5					
2	Babina-II 2C2H1c3c	Sujanpur Babina Parosa 2 Kathpurva Margaya Kadora Naka	(i)	Name of villages connected to the main road by an all-weather road	6 km					
			(ii)	Village's Name provided with electricity	√					
			(iii)	No. of households without access to drinking water	X					
			(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	X					
			(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	X					
			(ix)	Names of villages with access to Markets/ mandis	X					
			(x)	Names of villages with access to Agro-industries	X					
			(xi)	Total quantity of surplus milk deficit	X					
			(xii)	No. of milk collection canters (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)	X					

<b>S No</b>	<b>Name of Micro Watershed</b>	<b>Name of villages</b>	<b>Parameters</b>		<b>Status</b>					
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>		<b>5</b>					
3	Kadaura 2C2A1e2e	Parosa 2 Etoravavani Kadora Naka Kadaura (NP) Pandora Bamhauri	(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	X					
			(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	X					
			(xi)	Total quantity of surplus milk deficit	X					
			(xii)	No. of milk collection centers (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)	X					

<b>S No</b>	<b>Name of Micro Watershed</b>	<b>Name of villages</b>	<b>Parameters</b>		<b>Status</b>					
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>		<b>5</b>					
4	Kuane Khera 2C2H1c2d	Lamsar Devpura Matra Dadupur Rasoolpur Kuane Khera Garehi Margaya Mavai Brahmn	(i)	Name of villages connected to the main road by an all-weather road	3 km					
			(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	X					
			(vi)	Names of villages with access to Veterinary Dispensary	X					
			(vii)	Names of villages with access to Post Office	X					
			(viii)	Names of villages with access to Banks	X					
			(ix)	Names of villages with access to Markets/ mandis	X					
			(x)	Names of villages with access to Agro-industries	X					
			(xi)	Total quantity of surplus milk deficit	X					
			(xii)	No. of milk collection centers (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)	X					

## 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-XV, 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 XV**

**District - Jalaun**

<b>S. No.</b>	<b>Particulars of PIA</b>	
<b>1</b>	<b>2</b>	<b>3</b>
(i)	Date of selection of PIA	28-5-2010.
(ii)	Type of organization	Govt.
(iii)	Name of organization	Soil Conservation Unit Dept of Agriculture, District Jalaun U.P.
(iv)	Designation & Address	Bhoomi Sanrakshan Adhikari, Rashtriya Jalagam - Orai, Dept of Agriculture, District -Jalaun
(v)	Telephone	09235629527
(vi)	Fax	-
(vii)	E-mail	-

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

<b>S. No.</b>	<b>Designation</b>	<b>Name</b>	<b>M/F</b>	<b>Qualification</b>	<b>Field of Experience &amp; Period</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>		<b>4</b>	<b>5</b>	<b>6</b>
1	B. S. A.	Dharmendra Kumar	M	M.sc. (Agriculture)	16	
2	T. A.	Babloo Kumar	M	M.sc. (Agriculture)	5	
3	Junior Engineer	R.K. Gupta	M	Diploma in Civil Engg	34	
4	Junior Engineer	K.K. Sharma	M	Diploma in Civil Engg	34	
5	Accountant	S. P. Dube	M	M.Com	10	
6	Sr. Clerk	Virendra Singh	M	B.A.	30	
7	Sr. Clerk	Indra pal Singh	M	M.Com	15	
8	Sr. Clerk	Shiv Bhajan	M	B.A.	15	
9	Draftman	Ram Singh	M	B.A., Diploma in Drawing	31	
10	T.A. (B).	Bans Gopal	M	Intermediate & Diploma (Ag.)	31	
11	T.A. (B).	Suresh Chandra Gupta	M	Intermediate & Diploma (Ag.)	20	
12	T.A. (B).	Amar Singh	M	Intermediate & Diploma in (Ag.)	31	
13	T.A. (B).	Balram Sharma	M	Intermediate & Diploma in (Ag.)	33	
14	T.A. (c)	Ramnarain	M	B.Sc. (Ag.)	32	
15	T.A. (c)	Santosh Kumar	M	B.Sc. (Ag.)	24	
16	T.A. (c)	Rambabu	M	M.Sc. (Agronomy)	15	

<b>S. No.</b>	<b>Designation</b>	<b>Name</b>	<b>M/F</b>	<b>Qualification</b>	<b>Field of Experience &amp; Period</b>	<b>Remarks</b>
<b>1</b>	<b>2</b>	<b>3</b>		<b>4</b>	<b>5</b>	<b>6</b>
17	T.A. (c)	Mataprasad	M	B.Sc. (Bio.)	15	
18	T.A. (c)	Suresh Chandra Mishra	M	M. Sc.(Ag.)	-	
19	T.A. (c)	Ramprakash Niranjana	M	B.Sc. (Ag.)	26	
20	T.A. (c)	Rambihari Shukla	M	B.Sc. (Ag.)	25	
21	T.A. (c)	Rajendra Babu Niranjana	M	B.Sc. (Ag.)	26	
22	T.A. (c)	Munnalal Prajapati	M	Intermediate & Diploma in (Ag.)	26	
23	T.A. (c)	Premnarain Niranjana	M	Intermediate & Diploma in (Ag.)	20	
24	T.A. (c)	Shabbir Khan	M	Intermediate & Diploma in (Ag.)	25	
25	T.A. (c)	Ashok Kumar Niranjana	M	Intermediate & Diploma in (Ag.)	21	
26	T.A. (c)	Udai Singh	M	Intermediate & Diploma in (Ag.)	15	

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**

Project- IWMP - XV				PIA- BSA, Ag,		District - Jalaun	
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.	Suresh Chandra Mishra	M	55	M.Sc. (Ag.)	Agronomy	Watershed Management	21.06.12
2.	Ram Prakash Niranjana	M	53	B.Sc. (Ag.)	B.Sc. (Ag.)	Watershed Management	23.06.12
3.	Ram Bihari Shukla	M	54	B.Sc. (Ag.)	Soil Conservation	Watershed Management	21.06.12
4.	Rajendra Babu Niranjana	M	50	B.Sc. (Ag.)	Agronomy	Watershed Management	22.06.12

## **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)**

1	2	3		4	5	6	7	8	9	10	11	12	13	14	15	16	17		
S. No.	Name of Gram Sabha/ GP	Date of Constitution / Registration as a Society (dd/mm/yyyy)	Name	Designation	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educational qualification	Function (s) assigned #		
1	Kadaura	18-06-12	Akhilesh kumar	President	M	√		√									High School		
			Harikishan	Secretary	M			√										Inter	
			Ramnarain	Member	M	√		√										JH	
			Rajkumar	Member	M			√										Inter	
			Ravishankar	Member	M	√		√										High School	
			Chandrakesh	Member	M	√		√										JHS	
			Jetendra	Member	M			√										Primary	
			Rajendra kumar	Member	M			√										JHS	
			Mahendra Singh	Member	M			√										JHS	
			Durga Prasad	Member	M	√		√										High School	
Sant Kumar	Member	M	√		√										Inter				
2	Kathpurwa	17-06-2012	Ramsewak	President	M			√					√				Intermediate		
			Ramnath	Secretary	M	√			√				√					Intermediate	
			Haridas	Member	M						√		√					Jr. High School	
			Ram Singh	Member	M							√		√				Jr. High School	
			Kale Khan	Member	M					√			√					Jr. High School	
			Dev Singh	Member	M					√			√		√			High School	
			Harendra Singh	Member	M				√						√			Intermediate	
			Chote Lal	Member	M	√						√		√				Jr. High School	
			Sant Ram	Member	M				√					√	√			Jr. High School	
			Kusuma Devi	Member	F	√											√	Intermediate	
Suman Lata	Member	F	√												High School				

1	2	3		4	5	6	7	8	9	10	11	12	13	14	15	16	17		
S. No.	Name of Gram Sabha/ GP	Date of Constitution / Registration as a Society (dd/mm/yyyy)	Name	Designation	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educational qualification	Function (s) assigned #		
3	Babina	20-06-2012	Indraveer Singh	President	M											Jr. High School			
			Bhagirath	Secretary	M												Intermediate		
			Jag Mohan	Member	M	√								√				Jr. High School	
			Khemchand	Member	M	√							√					Graduate	
			Bharat Singh	Member	M									√				Literate	
			Lal Ram	Member	M	√								√				Literate	
			Narsingh	Member	M	√										√		Literate	
			Ramshankar	Member	M											√		Literate	
			Meera Devi	Member	F	√			√									Literate	
			Kusum Devi	Member	F	√											√	Jr. High School	
Babhu Singh	Member	M													Jr. High School				
4	Garehi	17-06-2012	Rajvendra	President	F	√											Intermediate		
			Chatra Pal	Secretary	M													Primary	
			Prithaviram	Member	M	√									√			High School	
			Girwar	Member	M								√					Intermediate	
			Jagdish	Member	M									√				Graduate	
			Parmeshwari Das	Member	M									√				Intermediate	
			Amar Singh	Member	M											√		Intermediate	
			Subash Pal	Member	M											√		High School	
			Brijesh Kumar	Member	M	√			√									Graduate	
			Babu Ram	Member	M	√											√	High School	
Veer Pal Singh	Member	M													Primary				
Rakesh Kumar	Member	M													High School				

1	2	3		4	5	6	7	8	9	10	11	12	13	14	15	16	17		
S. No.	Name of Gram Sabha/ GP	Date of Constitution / Registration as a Society (dd/mm/yyyy)	Name	Designation	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educational qualification	Function (s) assigned #		
5	Kuane Khera	20-06-2012	Chandra Bhan	President	M	√									√	Jr. High School			
			Santosh Kumar	Secretary	M											√	Intermediate		
			Thakur Das	Member	M										√		Jr. High School		
			Lal Singh	Member	M							√					Jr. High School		
			Ram Jeevan	Member	M									√			High School		
			Pramod Humar	Member	M									√			Jr. High School		
			Krishan Kumar	Member	M											√	Jr. High School		
			Kallu	Member	M											√	Primary		
			Har Prasad	Member	M	√											Primary		
			Ram Prakash	Member	M	√											√	Primary	
			Bal Khandi	Member	M													Graduate	
			Sowaran Singh	Member	M													High School	
			Hukum Singh	Member	M													Intermediate	
Baburam	Member	M													Primary				

1	2	3		4	5	6	7	8	9	10	11	12	13	14	15	16	17		
S. No.	Name of Gram Sabha/ GP	Date of Constitution / Registration as a Society (dd/mm/yyyy)	Name	Designation	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educational qualification	Function (s) assigned #		
6	Pandaura (Kadaura)	18-06-12	Smt. Indra Shukla	President	F			√									High School		
			Hari Ram	Secretary	M	√				√								High School	
			Ramji	Member	M	√			√									B.A.	
			Shiv Mohan	Member	M					√								High School	
			Balkhandi	Member	M				√									JHS	
			Ram Bhajan	Member	M				√									High School	
			Suresh	Member	M				√									JHS	
			Raj Kumar	Member	M	√			√									B.Sc.	
			Shiv Kumar	Member	M	√			√									B.A.	
			Lalji	Member	M							√						Intermediate	
Vijay kumar	Member	M	√			√									B.A.				

### **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 SHG 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. No.	Name of MWS	Names of Group	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	Babina-I 2C2H1c3b		Under Process				(i) Landless											
							(ii) SF											
							(iii) MF											
							(iv) LF											
2	Babina-II 2C2H1c3c		Under Process				(i) Landless											
							(ii) SF											
							(iii) MF											
							(iv) LF											
3	Kadaura 2C2A1e2e		Under Process				(i) Landless											
							(ii) SF											
							(iii) MF											
							(iv) LF											
4	Kuane Khera 2C2H1c2d		Under Process				(i) Landless											
							(ii) SF											
							(iii) MF											
							(iv) LF											

## 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 4.6: Details of User Groups**

1	2	3	4				5				6			7			8			
S. No.	Name of Micro watershed with code	Name of Group	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	Babina-I 2C2H1c3b		Under Process				(i) Landless													
							(ii) SF													
							(iii) MF													
							(iv) LF													
2	Babina-II 2C2H1c3c		Under Process				(i) Landless													
							(ii) SF													
							(iii) MF													
							(iv) LF													
3	Kadaura 2C2A1e2e		Under Process				(i) Landless													
							(ii) SF													
							(iii) MF													
							(iv) LF													
4	Kuane Khera 2C2H1c2d		Under Process				(i) Landless													
							(ii) SF													
							(iii) MF													
							(iv) LF													

**Table 4.7: Details of Fund flow of Watershed Committee Accounts (Amount in Rs.)**

S. No.	Name of MWS	Code of MWS	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 withdrawal	Purpose of withdrawal		
1	2	3	4	5	6	7	8	9	10	11	12
1.	Babina-I	2C2H1c3b									
2.	Babina-II	2C2H1c3c									
3.	Kadaura	2C2A1e2e									
4.	Kuane Khera	2C2H1c2d									
5	Karamchandpur	2C2A1g2e									
6.	Kurahana Alamgir	2C2H1f2g									

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

**Table 4.8: 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	NWPRA	Agriculture Deptt.	To increase soil moisture conservation & ground water recharge
3	RIDF-16	Agriculture Deptt.	To increase soil moisture conservation & ground water recharge
4	Cane Bagain (RVP)	Agriculture Deptt.	To increase soil moisture conservation & ground water recharge

**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 13.15 Lacs 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 20 EPA activities were executed in the project area with a budget of Rs. 13.15 Lacs. 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	Babina-I 2C2H1c3b	13.15	Kharanza, boundary of cremation ground, Chak road, Puliya	3.12
2	Babina-II 2C2H1c3c		Kharanza, boundary of cremation ground, Chak road	4.49
3	Kadaura 2C2A1e2e		Kharanza, boundary of cremation ground, Chak road	2.78
4	Kuane Khera 2C2H1c2d		Kharanza, boundary of cremation ground, Chak road	2.76
5	Karamchandpur 2C2A1g2e		-	0.00
6	Kurahana Alamgir 2C2H1f2g		-	0.00
			<b>Total</b>	<b>13.15</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****Details of Gram Panchayat Wise Distribution of funds in Livelihood Activities**

Amount in Lacs

S. No.	Gram Panchayat	Proposed Amount	Livelihood Activities 9% of the Total project Cost					TOTAL
			2011-12	2012-13	2013-14	2014-15	2015-16	
1	Babina	1.94	0.00	0.00	0.00	0.97	0.97	<b>1.94</b>
2	Etora Bavani	2.59	0.00	1.02	0.82	0.00	0.75	<b>2.59</b>
3	Garehi	1.77	0.00	0.00	0.65	0.70	0.42	<b>1.77</b>
4	Hansa	1.94	0.00	0.00	0.82	0.50	0.62	<b>1.94</b>
5	Kadaura	1.82	0.00	0.35	0.25	0.37	0.85	<b>1.82</b>
6	Kathpurva	1.94	0.00	0.25	0.47	0.75	0.47	<b>1.94</b>
7	Kuane Khera	2.17	0.00	0.25	0.85	0.22	0.85	<b>2.17</b>
8	Lamsar	1.72	0.00	0.00	0.00	0.90	0.82	<b>1.72</b>
9	Margaya	2.34	0.00	0.37	1.00	0.25	0.72	<b>2.34</b>
10	Matra	2.19	0.00	0.25	0.72	1.07	0.15	<b>2.19</b>
11	Naka	2.12	0.00	0.00	0.40	0.40	1.32	<b>2.12</b>
12	Parosa	1.77	0.00	0.35	0.50	0.92	0.00	<b>1.77</b>
13	Sondhi	2.39	0.00	0.15	0.92	0.40	0.92	<b>2.39</b>
	<b>Total</b>	<b>26.70</b>	<b>0.00</b>	<b>2.99</b>	<b>7.40</b>	<b>7.45</b>	<b>8.86</b>	<b>26.70</b>

Total allocation of the fund in this activity is Rs. 29.58 lacs, out of which an action plan gram panchayat wise have been prepared for Rs. 26.70 lacs, as per the requirement of the project area Rs. 2.88 lacs would be in corporate in the above plan later.

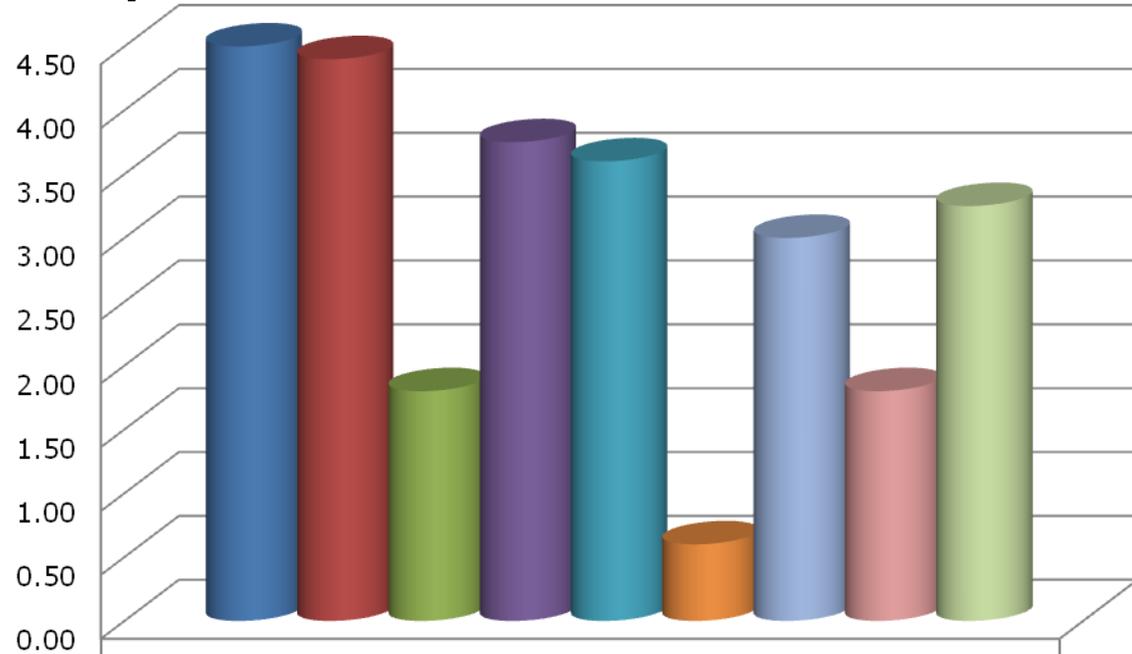
## DETAILS OF LIVELIHOOD ACTIVITIES AT GLANCE UNDER IWMP-XV, DISTRICT-JALAUN

S. No.	Gram Panchayat	General Merchant Shop					Goat Keeping					Carpentry					Dairy					Sewing									
		2011-12	2012-13	2013-14	2014-15	2015-16	Total	2011-12	2012-13	2013-14	2014-15	2015-16	Total	2011-12	2012-13	2013-14	2014-15	2015-16	Total	2011-12	2012-13	2013-14	2014-15	2015-16	Total						
1	Babina			1		1				1	1	2					1	1				1		1				1	1		
2	Etora Bavani			1		1	2		1	1		2		1				1		1	2			1				1			
3	Garehi				1		1				1	1					0			1					1	1	2				
4	Hansa			1			1			1		2			1			1			1				1			1			
5	Kadaura					1	1				1					1	1				1	1		1			1	2			
6	Kathpurva		1				1			1		2			1		1			1					1			1			
7	Kuane Khera			1		1	2				1		1			1	1				1	1			1		1	2			
8	Lamsar				1		1				1	1			1		1			1					1		1				
9	Margaya			1		1	2		1			2			1		1			1					1			1			
10	Matra				1		1			1	1	2					1	1		1		1		2			1	1			
11	Naka			1		1	2					1	1			1		1			1	1					1	1			
12	Parosa				1		1				1		1				1			1			1		1		1	2			
13	Sondhi			1		1	2			1		2				1		1			1	1				1	1	2			
	<b>Total</b>	0	1	6	5	6	18	0	2	5	5	8	20	0	2	2	4	4	12	0	2	4	5	4	15	0	2	5	4	7	18

## DETAILS OF LIVELIHOOD ACTIVITIES AT GLANCE UNDER IWMP-XV, DISTRICT-JALAUN

S. No	Gram Panchayat	Poultry						Repairing of Pumping Set Engine / Implements						Black Smithy						Vermi Compost					
		2011-12	2012-13	2013-14	2014-15	2015-16	Total	2011-12	2012-13	2013-14	2014-15	2015-16	Total	2011-12	2012-13	2013-14	2014-15	2015-16	Total	2011-12	2012-13	2013-14	2014-15	2015-16	Total
1	Babina						0				1		1					1	1					1	1
2	Etora Bavani			1			1					1	1		1				1		1				1
3	Garehi						0			1			1			1			1				1		1
4	Hansa						0				1		1					1	1					1	1
5	Kadaura				1		1						0		1				1			1			1
6	Kathpurva						0					1	1			1			1			1			1
7	Kuane Khera						0		1				1			1			1			1			1
8	Lamsar						0				1		1					1	1					1	1
9	Margaya			1			1					1	1		1				1			1			1
10	Matra						0			1			1				1		1			1			1
11	Naka					1	1				1		1		1				1					1	1
12	Parosa						0			1			1						0				1		1
13	Sondhi						0					1	1		1				1			1			1
	<b>Total</b>	0	0	2	1	1	4	0	1	3	4	4	12	0	4	3	2	3	12	0	1	4	4	4	13

## Livelihood Expenditure on Different Activities



	Amount in lacs
■ General Merchant Shop	4.50
■ Goat Keeping	4.40
■ Carpentry	1.80
■ Dairy	3.75
■ Sewing	3.60
■ Poultry	0.60
■ Repairing of Pumping Set Engine / Implements	3.00
■ Black Smithy	1.80
■ Vermi Compost	3.25

**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:

<b>Name of Activity</b>	<b>Unit Cost</b> (amount in lacs)
General Merchant Shop	0.25
Goat Keeping	0.22
Carpentry	0.15
Dairy	0.25
Sewing	0.20
Poultry	0.15
Repairing of Pumping Set Engine / Implements	0.25
Black Smithy	0.15
Vermi Compost	0.25

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.

## CROP PRODUCTION SYSTEM (10%)

**Table 5.3: GRAM PANCHAYAT WISE FINANCIAL BREAK UP OF PRODUCTION & MICRO ENTERPRISES, IWMP-XV, DISTRICT-JALAUN**

Amount in Lacs

S. No.	Gram Panchayat	Proposed Amount	Production System & Microenterprises 10% of the Total Project Cost					WDF	
			2011-12	2012-13	2013-14	2014-15	2015-16		Total
1	Babina	2.40	0.00	0.07	0.59	1.35	0.39	<b>2.40</b>	0.24
2	Etora Bavani	2.55	0.00	0.20	0.68	0.26	1.41	<b>2.55</b>	0.26
3	Garehi	2.55	0.00	0.00	1.45	0.36	0.74	<b>2.55</b>	0.26
4	Hansa	2.50	0.00	0.88	0.26	0.38	0.98	<b>2.50</b>	0.25
5	Kadaura	2.55	0.00	0.40	0.48	1.25	0.43	<b>2.55</b>	0.26
6	Kathpurva	2.65	0.00	0.22	0.30	0.46	1.67	<b>2.65</b>	0.27
7	Kuane Khera	2.39	0.00	0.17	1.00	0.45	0.78	<b>2.39</b>	0.24
8	Lamsar	2.43	0.00	0.00	0.53	0.36	1.54	<b>2.43</b>	0.24
9	Margaya	2.29	0.00	0.00	0.51	1.02	0.76	<b>2.29</b>	0.23
10	Matra	2.55	0.00	0.42	0.60	0.20	1.34	<b>2.55</b>	0.26
11	Naka	2.75	0.00	0.40	0.70	0.51	1.14	<b>2.75</b>	0.28
12	Parosa	2.62	0.00	0.07	0.93	0.30	1.32	<b>2.62</b>	0.26
13	Sondhi	2.65	0.00	0.48	0.20	1.33	0.65	<b>2.65</b>	0.27
<b>Total</b>		<b>32.87</b>	<b>0.00</b>	<b>3.29</b>	<b>8.22</b>	<b>8.22</b>	<b>13.15</b>	<b>32.87</b>	<b>3.29</b>

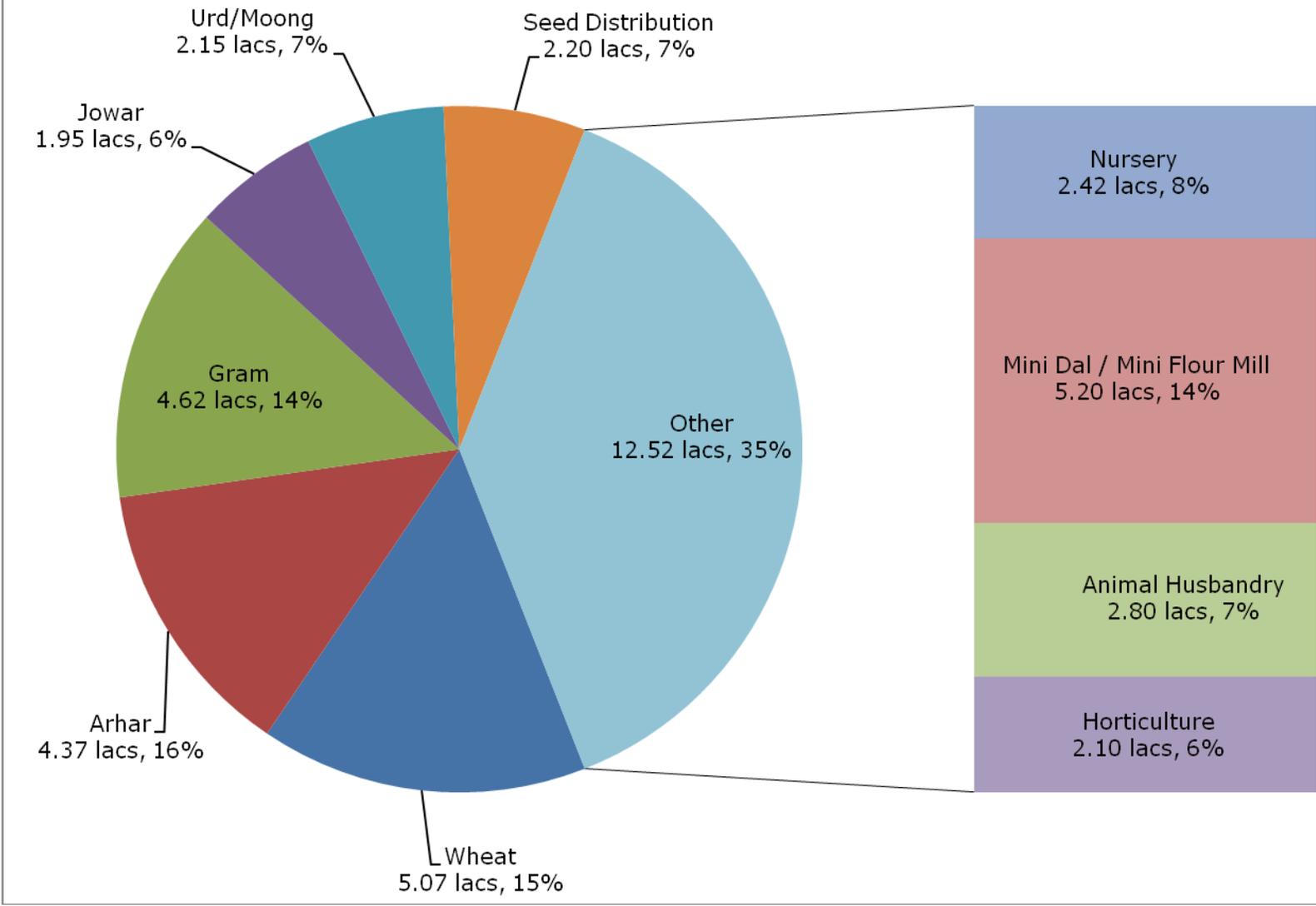
**DETAILS OF PRODUCTION SYSTEM & MICRO ENTERPRISES ACTIVITIES AT GLANCE UNDER  
IWMP-XV, DISTRICT-JALAUN**

S. No.	Gram Panchayat	CROP DEMOSTRATION																													
		Wheat					Arhar					Gram					Jowar					Urd/Moong									
		2011-12	2012-13	2013-14	2014-15	2015-16	Total	2011-12	2012-13	2013-14	2014-15	2015-16	Total	2011-12	2012-13	2013-14	2014-15	2015-16	Total	2011-12	2012-13	2013-14	2014-15	2015-16	Total	2011-12	2012-13	2013-14	2014-15	2015-16	Total
1	Babina			1		2	3			1	1		2			1	1		2			1	1		3			1	1		3
2	Etora Bavani		1		1	1	3			1		1	2			1		1	2		1		1	1	3				1	1	2
3	Garehi			1	1	1	3			1		1	2				1	1	2			1		2			1	1	1	3	
4	Hansa			1		2	3		1		1		2		1			1	2			1	1	3			1		1	2	
5	Kadaura		1		1	1	3			1		1	2			1	1		2				1	2		1		1	1	3	
6	Kathpurva				1	2	3				1	1	2			1	1	1	3			1		2			1		1	2	
7	Kuane Khera			1		2	3		1		1		2					1	1				1	2			1	1	1	3	
8	Lamsar			1	1	1	3			1		1	2			1	1	1	3			1		2				1	1	2	
9	Margaya			1		2	3				1	1	2			1	1		2				1	2			1		1	2	
10	Matra		1		1	1	3			1		1	2			1		1	2			1		2		1		1	1	3	
11	Naka				1	2	3			1		1	2				1	1	2			1		2			1	1	1	3	
12	Parosa			1		2	3				1	1	2			1		1	2		1		1	3			1	1	1	3	
13	Sondhi			1	1	1	3		1		1		2		1		1	1	3			1		2				1	1	2	
	<b>Total</b>	<b>0</b>	<b>3</b>	<b>8</b>	<b>8</b>	<b>20</b>	<b>39</b>	<b>0</b>	<b>3</b>	<b>7</b>	<b>7</b>	<b>9</b>	<b>26</b>	<b>0</b>	<b>2</b>	<b>8</b>	<b>8</b>	<b>10</b>	<b>28</b>	<b>0</b>	<b>2</b>	<b>8</b>	<b>7</b>	<b>13</b>	<b>30</b>	<b>0</b>	<b>3</b>	<b>8</b>	<b>9</b>	<b>13</b>	<b>33</b>

**DETAILS OF PRODUCTION SYSTEM & MICRO ENTERPRISES ACTIVITIES AT GLANCE UNDER  
IWMP-XV, DISTRICT-JALAUN**

S. No.	Gram Panchayat	Animal husbandry (in nos.)						Horticulture (Area in ha.)					Nursery (in nos.)						Seed distribution (in nos.)						Mini Dal / Mini Flour Mill (in nos.)							
		2011-12	2012-13	2013-14	2014-15	2015-16	Total	2011-12	2012-13	2013-14	2014-15	2015-16	Total	2011-12	2012-13	2013-14	2014-15	2015-16	Total	2011-12	2012-13	2013-14	2014-15	2015-16	Total	2011-12	2012-13	2013-14	2014-15	2015-16	Total	
1	Babina				1		1				1		1					0				1		1				1		1		
2	Etora Bavani			1			1			1		1				1	1					1	1					1	1			
3	Garehi			1			1				1	1			1		1			1		1				1			1			
4	Hansa					1	1	1		1		2				1	1					0		1					1			
5	Kadoura		1				1			1		1			1		1				1		1				1		1			
6	Kathpurva					1	1				1	1		1			1					1	1					1	1			
7	Kuane Khera			1			1			1		1				1	1			1		1				1			1			
8	Lamsar					1	1				1	1					0				1	1					1	1				
9	Margaya					1	1		1		1				1		1					0					1		1			
10	Matra			1			1				1	1		1			1					1	1					1	1			
11	Naka		1			1	2			1		1				1	1		1			1				1			1			
12	Parosa			1			1		1		1			1			1					1	1					1	1			
13	Sondhi				1		1	1			1				1	1					1	1					1		1			
	<b>Total</b>	<b>0</b>	<b>2</b>	<b>5</b>	<b>2</b>	<b>5</b>	<b>14</b>	<b>0</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>14</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>5</b>	<b>11</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>11</b>	<b>0</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>13</b>

# CROP DEMOSTRATION



<b>Name of Activity</b>	<b>Unit Cost</b> (amount in lacs)
Wheat	0.130
Arhar	0.168
Gram	0.165
Jowar	0.065
Urd/Moong	0.065
Seed Distribution	0.200
Animal Husbandry	0.200
Horticulture	0.150
Nursery	0.220
Mini Dal / Mini Flour Mill	0.400

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 2011-12 to 2015-16.The details given below.

**Table 5.4: Gram Panchayat wise Breakup of Watershed Development Work, Livelihood and Production System & Micro Enterprise**

<b>S. No.</b>	<b>Gram Panchayat</b>	<b>Treatable Area</b>	<b>Watershed Development Work (56%)</b>	<b>Livelihood (9%)</b>	<b>Production System (10%)</b>	<b>Total</b>
1	Babina	960.00	64.51	1.94	2.40	68.85
2	Etora Bavani	0.00	0.00	2.59	2.55	5.14
3	Garehi	550.00	36.96	1.77	2.55	41.28
4	Hansa	90.00	6.05	1.94	2.50	10.49
5	Kadaura	375.00	25.20	1.82	2.55	29.57
6	Kathpurva	50.20	3.37	1.94	2.65	7.96
7	Kuane Khera	466.30	31.34	2.17	2.39	35.89
8	Lamsar	0.00	0.00	1.72	2.43	4.15
9	Margaya	0.00	0.00	2.34	2.29	4.63
10	Taharpur	35.00	2.35	2.19	2.55	7.09
11	Naka	25.00	1.68	2.12	2.75	6.55
12	Parosa	52.50	3.53	1.77	2.62	7.91
13	Sondhi	135.00	9.07	2.39	2.65	14.11
<b>Total</b>		<b>2739.00</b>	<b>184.06</b>	<b>26.70</b>	<b>32.87</b>	<b>243.63</b>

Total allocation of the fund in this activity is Rs. 29.58 lacs, out of which an action plan gram panchayat wise have been prepared for Rs. 26.70 lacs, as per the requirement of the project area Rs. 2.88 lacs would be in corporate in the above plan later.

## ANNUAL ACTION PLAN

### Gram Panchayat wise Physical & Financial break up of Watershed Development Works

#### Gram Panchayat Name- Babina

Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
<b>Land Development</b>												
Horticulture												
Afforestation	0.00	0.00	0.44	15.52	0.96	33.48	0.96	33.48	0.96	33.43	3.32	115.90
Agriculture												
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.44</b>	<b>15.52</b>	<b>0.96</b>	<b>33.48</b>	<b>0.96</b>	<b>33.48</b>	<b>0.96</b>	<b>33.43</b>	<b>3.32</b>	<b>115.90</b>
<b>SMC</b>												
Contour Bund												
Bench Terracing												
Marginal Bund												
Submergence Bund	0.00	0.00	6.71	109.89	15.92	237.02	15.92	237.02	13.39	236.66	51.93	820.60
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>6.71</b>	<b>109.89</b>	<b>15.92</b>	<b>237.02</b>	<b>15.92</b>	<b>237.02</b>	<b>13.39</b>	<b>236.66</b>	<b>51.93</b>	<b>820.60</b>
<b>WHS</b>												
Check Dams												
Culvert	0.00	0.00	1.25	0.00	1.25	0.00	1.25	0.00	3.75	0.00	7.50	0.00
Peripheral Bund	0.00	0.00	0.24	3.15	0.51	6.79	0.51	6.79	0.51	6.78	1.76	23.50
Gully Plug												
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>1.49</b>	<b>3.15</b>	<b>1.76</b>	<b>6.79</b>	<b>1.76</b>	<b>6.79</b>	<b>4.26</b>	<b>6.78</b>	<b>9.26</b>	<b>23.50</b>
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>8.64</b>	<b>128.56</b>	<b>18.63</b>	<b>277.29</b>	<b>18.63</b>	<b>277.29</b>	<b>18.60</b>	<b>276.86</b>	<b>64.51</b>	<b>960.00</b>

### Gram Panchayat Name- Hansa

Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
<b>Land Development</b>												
Horticulture												
Afforestation	0.00	0.00	0.04	1.34	0.10	2.89	0.10	2.89	0.10	2.88	0.33	10.00
Agriculture												
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.04</b>	<b>1.34</b>	<b>0.10</b>	<b>2.89</b>	<b>0.10</b>	<b>2.89</b>	<b>0.10</b>	<b>2.88</b>	<b>0.33</b>	<b>10.00</b>
<b>SMC</b>												
Contour Bund												
Bench Terracing												
Marginal Bund												
Submergence Bund	0.00	0.00	0.77	10.71	1.65	23.11	1.65	23.11	1.65	23.07	5.72	80.00
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.77</b>	<b>10.71</b>	<b>1.65</b>	<b>23.11</b>	<b>1.65</b>	<b>23.11</b>	<b>1.65</b>	<b>23.07</b>	<b>5.72</b>	<b>80.00</b>
<b>WHS</b>												
Check Dams												
Culvert												
Peripheral Bund												
Gully Plug												
<b>Sub Total</b>												
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.81</b>	<b>12.05</b>	<b>1.75</b>	<b>25.99</b>	<b>1.75</b>	<b>25.99</b>	<b>1.74</b>	<b>25.96</b>	<b>6.05</b>	<b>90.00</b>

**Gram Panchayat Name- Kuane Khera**

Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
<b>Land Development</b>												
Horticulture												
Afforestation	0.00	0.00	0.16	6.08	0.35	13.11	0.35	13.11	0.35	13.09	1.22	45.40
Agriculture												
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.16</b>	<b>6.08</b>	<b>0.35</b>	<b>13.11</b>	<b>0.35</b>	<b>13.11</b>	<b>0.35</b>	<b>13.09</b>	<b>1.22</b>	<b>45.40</b>
<b>SMC</b>												
Contour Bund	0.00	0.00	0.09	3.87	0.19	8.35	0.19	8.35	0.19	8.33	0.65	28.90
Bench Terracing												
Marginal Bund												
Submergence Bund	0.00	0.00	2.04	29.52	4.40	63.66	4.40	63.66	4.39	63.56	15.22	220.40
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>2.13</b>	<b>33.39</b>	<b>4.59</b>	<b>72.01</b>	<b>4.59</b>	<b>72.01</b>	<b>4.58</b>	<b>71.90</b>	<b>15.88</b>	<b>249.30</b>
<b>WHS</b>												
Check Dams												
Culvert												
Peripheral Bund	0.00	0.00	1.91	22.98	4.11	49.56	4.11	49.56	4.11	49.49	14.24	171.60
Gully Plug												
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>1.91</b>	<b>22.98</b>	<b>4.11</b>	<b>49.56</b>	<b>4.11</b>	<b>49.56</b>	<b>4.11</b>	<b>49.49</b>	<b>14.24</b>	<b>171.60</b>
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>4.20</b>	<b>62.45</b>	<b>9.05</b>	<b>134.69</b>	<b>9.05</b>	<b>134.69</b>	<b>9.04</b>	<b>134.48</b>	<b>31.34</b>	<b>466.30</b>

**Gram Panchayat Name- Garehi**

Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
<b>Land Development</b>												
Horticulture												
Afforestation	0.00	0.00	1.00	16.01	2.15	34.53	2.15	34.53	2.15	34.48	7.44	119.55
Agriculture												
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>1.00</b>	<b>16.01</b>	<b>2.15</b>	<b>34.53</b>	<b>2.15</b>	<b>34.53</b>	<b>2.15</b>	<b>34.48</b>	<b>7.44</b>	<b>119.55</b>
<b>SMC</b>												
Contour Bund	0.00	0.00	0.05	2.74	0.11	5.92	0.11	5.92	0.11	5.91	0.39	20.50
Bench Terracing												
Marginal Bund												
Submergence Bund	0.00	0.00	1.59	24.09	3.43	51.95	3.43	51.95	3.43	51.87	11.88	179.85
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>1.64</b>	<b>26.83</b>	<b>3.54</b>	<b>57.87</b>	<b>3.54</b>	<b>57.87</b>	<b>3.54</b>	<b>57.78</b>	<b>12.27</b>	<b>200.35</b>
<b>WHS</b>												
Check Dams												
Culvert												
Peripheral Bund	0.00	0.00	2.31	30.81	4.98	66.46	4.98	66.46	4.98	66.36	17.25	230.10
Gully Plug												
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>2.31</b>	<b>30.81</b>	<b>4.98</b>	<b>66.46</b>	<b>4.98</b>	<b>66.46</b>	<b>4.98</b>	<b>66.36</b>	<b>17.25</b>	<b>230.10</b>
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>4.95</b>	<b>73.66</b>	<b>10.68</b>	<b>158.86</b>	<b>10.68</b>	<b>158.86</b>	<b>10.66</b>	<b>158.62</b>	<b>36.96</b>	<b>550.00</b>

### Gram Panchayat Name- Sondhi

Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
<b>Land Development</b>												
Horticulture												
Afforestation	0.00	0.00	0.17	2.17	0.13	4.68	0.13	4.68	0.13	4.67	0.55	16.20
Agriculture												
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.17</b>	<b>2.17</b>	<b>0.13</b>	<b>4.68</b>	<b>0.13</b>	<b>4.68</b>	<b>0.13</b>	<b>4.67</b>	<b>0.55</b>	<b>16.20</b>
<b>SMC</b>												
Contour Bund												
Bench Terracing												
Marginal Bund												
Submergence Bund	0.00	0.00	0.40	6.05	0.90	13.06	0.90	13.06	0.35	13.04	2.55	45.20
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.40</b>	<b>6.05</b>	<b>0.90</b>	<b>13.06</b>	<b>0.90</b>	<b>13.06</b>	<b>0.35</b>	<b>13.04</b>	<b>2.55</b>	<b>45.20</b>
<b>WHS</b>												
Check Dams												
Culvert	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00	1.25	0.00
Peripheral Bund	0.00	0.00	0.65	9.86	1.59	21.26	1.59	21.26	0.89	21.23	4.72	73.60
Gully Plug												
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.65</b>	<b>9.86</b>	<b>1.59</b>	<b>21.26</b>	<b>1.59</b>	<b>21.26</b>	<b>2.14</b>	<b>21.23</b>	<b>5.97</b>	<b>73.60</b>
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>1.21</b>	<b>18.08</b>	<b>2.62</b>	<b>38.99</b>	<b>2.62</b>	<b>38.99</b>	<b>2.61</b>	<b>38.93</b>	<b>9.07</b>	<b>135.00</b>

### Gram Panchayat Name- Taharpur

Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
<b>Land Development</b>												
Horticulture												
Afforestation	0.00	0.00	0.04	1.00	0.08	2.17	0.08	2.17	0.08	2.16	0.28	7.50
Agriculture												
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.04</b>	<b>1.00</b>	<b>0.08</b>	<b>2.17</b>	<b>0.08</b>	<b>2.17</b>	<b>0.08</b>	<b>2.16</b>	<b>0.28</b>	<b>7.50</b>
<b>SMC</b>												
Contour Bund												
Bench Terracing												
Marginal Bund												
Submergence Bund	0.00	0.00	0.28	3.68	0.60	7.94	0.60	7.94	0.60	7.93	2.08	27.50
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.28</b>	<b>3.68</b>	<b>0.60</b>	<b>7.94</b>	<b>0.60</b>	<b>7.94</b>	<b>0.60</b>	<b>7.93</b>	<b>2.08</b>	<b>27.50</b>
<b>WHS</b>												
Check Dams												
Culvert												
Peripheral Bund												
Gully Plug												
<b>Sub Total</b>												
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.31</b>	<b>4.69</b>	<b>0.68</b>	<b>10.11</b>	<b>0.68</b>	<b>10.11</b>	<b>0.68</b>	<b>10.09</b>	<b>2.35</b>	<b>35.00</b>

**Gram Panchayat Name- Kathpurva**

Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
<b>Land Development</b>												
Horticulture												
Afforestation												
Agriculture												
<b>Sub Total</b>												
<b>SMC</b>												
Contour Bund												
Bench Terracing												
Marginal Bund												
Submergence Bund	0.00	0.00	0.28	6.72	0.61	14.50	0.61	14.50	0.61	14.48	2.12	50.20
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.28</b>	<b>6.72</b>	<b>0.61</b>	<b>14.50</b>	<b>0.61</b>	<b>14.50</b>	<b>0.61</b>	<b>14.48</b>	<b>2.12</b>	<b>50.20</b>
<b>WHS</b>												
Check Dams												
Culvert	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00	1.25	0.00
Peripheral Bund												
Gully Plug												
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>1.25</b>	<b>0.00</b>	<b>1.25</b>	<b>0.00</b>
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.28</b>	<b>6.72</b>	<b>0.61</b>	<b>14.50</b>	<b>0.61</b>	<b>14.50</b>	<b>1.86</b>	<b>14.48</b>	<b>3.37</b>	<b>50.20</b>

### Gram Panchayat Name- Kadaura

Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
<b>Land Development</b>												
Horticulture												
Afforestation	0.00	0.00	0.16	5.25	0.35	11.32	0.35	11.32	0.35	11.31	1.23	39.20
Agriculture												
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.16</b>	<b>5.25</b>	<b>0.35</b>	<b>11.32</b>	<b>0.35</b>	<b>11.32</b>	<b>0.35</b>	<b>11.31</b>	<b>1.23</b>	<b>39.20</b>
<b>SMC</b>												
Contour Bund	0.00	0.00	0.09	3.46	0.20	7.45	0.20	7.45	0.20	7.44	0.71	25.80
Bench Terracing												
Marginal Bund	0.00	0.00	0.10	1.38	0.22	2.98	0.22	2.98	0.22	2.97	0.77	10.30
Submergence Bund	0.00	0.00	1.64	23.43	3.53	50.53	3.53	50.53	3.53	50.46	12.23	174.95
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>1.84</b>	<b>28.26</b>	<b>3.96</b>	<b>60.96</b>	<b>3.96</b>	<b>60.96</b>	<b>3.95</b>	<b>60.87</b>	<b>13.71</b>	<b>211.05</b>
<b>WHS</b>												
Check Dams												
Culvert												
Peripheral Bund	0.00	0.00	1.37	16.71	2.97	36.03	2.97	36.03	2.96	35.98	10.27	124.75
Gully Plug												
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>1.37</b>	<b>16.71</b>	<b>2.97</b>	<b>36.03</b>	<b>2.97</b>	<b>36.03</b>	<b>2.96</b>	<b>35.98</b>	<b>10.27</b>	<b>124.75</b>
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>3.37</b>	<b>50.22</b>	<b>7.28</b>	<b>108.32</b>	<b>7.28</b>	<b>108.32</b>	<b>7.27</b>	<b>108.15</b>	<b>25.20</b>	<b>375.00</b>

**Gram Panchayat Name- Naka**

Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
<b>Land Development</b>												
Horticulture												
Afforestation												
Agriculture												
<b>Sub Total</b>												
<b>SMC</b>												
Contour Bund												
Bench Terracing												
Marginal Bund												
Submergence Bund	0.00	0.00	0.03	1.66	0.06	3.58	0.06	3.58	0.06	3.58	0.19	12.40
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.03</b>	<b>1.66</b>	<b>0.06</b>	<b>3.58</b>	<b>0.06</b>	<b>3.58</b>	<b>0.06</b>	<b>3.58</b>	<b>0.19</b>	<b>12.40</b>
<b>WHS</b>												
Check Dams												
Culvert	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00	0.00	0.00	1.25	0.00
Peripheral Bund	0.00	0.00	0.03	1.69	0.07	3.64	0.07	3.64	0.07	3.63	0.24	12.60
Gully Plug												
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.03</b>	<b>1.69</b>	<b>0.07</b>	<b>3.64</b>	<b>1.32</b>	<b>3.64</b>	<b>0.07</b>	<b>3.63</b>	<b>1.49</b>	<b>12.60</b>
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.06</b>	<b>3.35</b>	<b>0.12</b>	<b>7.22</b>	<b>1.37</b>	<b>7.22</b>	<b>0.12</b>	<b>7.21</b>	<b>1.68</b>	<b>25.00</b>

### Gram Panchayat Name- Parosa

Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
<b>Land Development</b>												
Horticulture												
Afforestation												
Agriculture												
<b>Sub Total</b>												
<b>SMC</b>												
Contour Bund												
Bench Terracing												
Marginal Bund												
Submergence Bund	0.00	0.00	0.22	3.62	0.48	7.80	0.48	7.80	0.48	7.79	1.67	27.00
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.22</b>	<b>3.62</b>	<b>0.48</b>	<b>7.80</b>	<b>0.48</b>	<b>7.80</b>	<b>0.48</b>	<b>7.79</b>	<b>1.67</b>	<b>27.00</b>
<b>WHS</b>												
Check Dams												
Culvert												
Peripheral Bund	0.00	0.00	0.25	3.41	0.54	7.37	0.54	7.37	0.54	7.35	1.86	25.50
Gully Plug												
<b>Sub Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.25</b>	<b>3.41</b>	<b>0.54</b>	<b>7.37</b>	<b>0.54</b>	<b>7.37</b>	<b>0.54</b>	<b>7.35</b>	<b>1.86</b>	<b>25.50</b>
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.47</b>	<b>7.03</b>	<b>1.02</b>	<b>15.16</b>	<b>1.02</b>	<b>15.16</b>	<b>1.02</b>	<b>15.14</b>	<b>3.53</b>	<b>52.50</b>

MWS name with Code	Gram Panchayat	Livelihood	General Merchant Shop	Goat Keeping	Carpentry	Dairy	Sewing	Poultry	Repairing of Pumping Set Engine / Implements	Black Smithy	Vermi Compost	Total
Babina-I 2C2H1c3b Babina-II 2C2H1c3c Kadaura 2C2A1e2e Kuane Khera 2C2H1c2d	Babina	General Merchant Shop @ Rs. 25000/- per beneficiary. Goat Rearing @ Rs. 22000/- per beneficiary, Poultry @ Rs.15000/- Dairy @ Rs. 25000/- per beneficiary, Sewing @ Rs. 20000/- per beneficiary, Carpentry @ Rs. 15000/- per beneficiary, Black Smithy @ Rs. 15000/- per beneficiary, Vermi Compost @ Rs. 25000/- per beneficiary, Repairing of Pumping Set Engine/Implements @ Rs. 25000/- per beneficiary	1	2	1	1	1	0	1	1	1	1.94
	Etora Bavani		2	2	1	2	1	1	1	1	1	2.59
	Garehi		1	1	0	1	2	0	1	1	1	1.77
	Hansa		1	2	1	1	1	0	1	1	1	1.94
	Kadaura		1	1	1	1	2	1	0	1	1	1.82
	Kathpurva		1	2	1	1	1	0	1	1	1	1.94
	Kuane Khera		2	1	1	1	2	0	1	1	1	2.17
	Lamsar		1	1	1	1	1	0	1	1	1	1.72
	Margaya		2	2	1	1	1	1	1	1	1	2.34
	Matra		1	2	1	2	1	0	1	1	1	2.19
	Naka		2	1	1	1	1	1	1	1	1	2.12
	Parosa		1	1	1	1	2	0	1	0	1	1.77
Sondhi	2	2	1	1	2	0	1	1	1	2.39		
Others (Revolving Fund)											2.88	
<b>Sub Total</b>			<b>18</b>	<b>20</b>	<b>12</b>	<b>15</b>	<b>18</b>	<b>4</b>	<b>12</b>	<b>12</b>	<b>13</b>	<b>29.58</b>

MWS Code	Gram Panchayat	Production System & Microenterprises	Wheat	Arhar	Gram	Jowar	Urd/ Moong	Animal husbandry	Horti-culture	Nursery	Seed Distribution	Mini Dal / Mini Flour Mill	Total	
Babina-I 2C2H1c3b Babina-II 2C2H1c3c Kadaura 2C2A1e2e Kuane Khera 2C2H1c2d	Babina	Crop demonstration is wheat @ Rs. 13000/ha, Arhar @ Rs.16800/ha, Gram @ Rs. 16500/ha, Jowar@ Rs. 6500/ha, Urd / Moong @ Rs. 6500/ha, Seed Distribution @ Rs. 20000/-, Horticulture toolkit @ Rs. 15000/- and Nursery @ Rs. 22000/- , Animal Husbandry @ Rs. 20000/-, Mini Dal / Mini Flour Mill @ Rs. 40000/-	3	2	2	3	3	1	1	0	1	1	2.40	
	Etora Bavani		3	2	2	3	2	1	1	1	1	1	1	2.55
	Garehi		3	2	2	2	3	1	1	1	1	1	1	2.55
	Hansa		3	2	2	3	2	1	2	1	0	1	1	2.50
	Kadaura		3	2	2	2	3	1	1	1	1	1	1	2.55
	Kathpurva		3	2	3	2	2	1	1	1	1	1	1	2.65
	Kuane Khera		3	2	1	2	3	1	1	1	1	1	1	2.39
	Lamsar		3	2	3	2	2	1	1	0	1	1	1	2.43
	Margaya		3	2	2	2	2	1	1	1	0	1	1	2.29
	Matra		3	2	2	2	3	1	1	1	1	1	1	2.55
	Naka		3	2	2	2	3	2	1	1	1	1	1	2.75
Parosa	3	2	2	3	3	1	1	1	1	1	1	2.62		
Sondhi	3	2	3	2	2	1	1	1	1	1	1	2.65		
	<b>Sub Total</b>		<b>39</b>	<b>26</b>	<b>28</b>	<b>30</b>	<b>33</b>	<b>14</b>	<b>14</b>	<b>11</b>	<b>11</b>	<b>13</b>	<b>32.87</b>	
	<b>Grand Total</b>												<b>246.51</b>	

**CHAPTER – 6**  
**CAPACITY BUILDING PLAN**

The total amount in this activity is Rs 16.43 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.

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

			I Year				II Year				III Year			
S. No.	Level	Total no of person	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	No of person to be trained	No of training to be conduct	Training day	Total Cost
1	SLNA					0.33				0.39				0.20
2	WCDC					0.33				1.31				0.56
3	PIA	26	15	2	2	0.20	26	6	2	1.30	10	4	2	0.34
4	WDT	4	4	5	2	0.10	5	10	4	0.65	4	5	2	0.17
5	SHG	30	30	2	2	0.25	125	3	2	1.63	40	2	2	0.43
6	UG	40	40	2	2	0.30	100	4	2	1.95	60	2	2	0.60
7	WC	20	20	2	2	0.15	50	4	2	0.98	25	1	2	0.17
	<b>Total</b>					<b>1.64</b>				<b>8.22</b>				<b>2.47</b>
			IVth Year				Vth Year				Grand total			
S. No.	Level	Total no of person	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					0.20				0.33	1.45			
2	WCDC					0.56				0.33	3.09			
3	PIA	26	13	3	2	0.34	10	3	2	0.20	2.38			
4	WDT	4	4	4	3	0.17	4	3	2	0.10	1.19			
5	SHG	30	40	2	2	0.43	20	2	2	0.25	2.97			
6	UG	40	60	2	2	0.60	30	2	2	0.30	3.74			
7	WC	20	15	2	2	0.17	10	2	2	0.15	1.61			
	<b>Total</b>					<b>2.47</b>				<b>1.64</b>	<b>16.43</b>			

**CHAPTER -7**  
**PHASING OF PROGRAMME**  
**& BUDGETING**

**FINANCIAL BREAKUP OF VARIOUS COMPONENTS IN TERMS OF % OF IWMP-XV,  
DISTRICT- JALAUN**

Amount in Lacs

S. No.	MWS Name	MWS Code	Project Area	Proposed Amount	Administrative 10%	EPA 4%	Institution and CB 5%	DPR 1%	Watershed development work 56%	Livelihood for assetless 9%	Production system and Microenterprises 10%	Monitoring 1%	Evaluation 1%	Consolidation 3%	Total 100%
1	Babina-I	2C2H1c3b	602.00	72.24	7.22	2.89	3.61	0.72	40.45	6.50	7.22	0.72	0.72	2.17	72.24
2	Babina-II	2C2H1c3c	543.39	65.21	6.52	2.61	3.26	0.65	36.52	5.87	6.52	0.65	0.65	1.96	65.21
3	Kadaura	2C2A1e2e	655.72	78.69	7.87	3.15	3.93	0.79	44.06	7.08	7.87	0.79	0.79	2.36	78.69
4	Kuane Khera	2C2H1c2d	937.89	112.55	11.25	4.50	5.63	1.13	63.03	10.13	11.25	1.13	1.13	3.38	112.55
5	Karamchandpur	2C2A1g2e	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	Kurahana Alamgir	2C2H1f2g	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		<b>Total</b>	<b>2739.00</b>	<b>328.68</b>	<b>32.87</b>	<b>13.15</b>	<b>16.43</b>	<b>3.29</b>	<b>184.06</b>	<b>29.58</b>	<b>32.87</b>	<b>3.29</b>	<b>3.29</b>	<b>9.86</b>	<b>328.68</b>

**YEARWISE PHYSICAL AND FINANCIAL BREAK UP OF WORK COMPONENT OF IWMP-XV,  
DISTRICT- JALAUN  
WATERSHED DEVELOPMENT WORKS**

Amount in Lacs, Phy. in ha.

S. No.	MWS Code	MWS Name	Project Area	Proposed Amount	2011-12		2012-13		2013-14		2014-15		2015-16		TOTAL	
					Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1	Babina-I	2C2H1c3b	602.00	40.45	0.00	0.00	80.62	5.42	173.88	11.68	173.88	11.68	173.62	11.67	<b>602.00</b>	<b>40.45</b>
2	Babina-II	2C2H1c3c	543.39	36.52	0.00	0.00	72.77	4.89	156.95	10.55	156.95	10.55	156.71	10.53	<b>543.39</b>	<b>36.52</b>
3	Kadaura	2C2A1e2e	655.72	44.06	0.00	0.00	87.81	5.90	189.40	12.73	189.40	12.73	189.11	12.71	<b>655.72</b>	<b>44.06</b>
4	Kuane Khera	2C2H1c2d	937.89	63.03	0.00	0.00	125.60	8.44	270.90	18.20	270.90	18.20	270.49	18.18	<b>937.89</b>	<b>63.03</b>
5	Karamchandpur	2C2A1g2e	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	<b>0.00</b>
6	Kurahana Alamgir	2C2H1f2g	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<b>0.00</b>	<b>0.00</b>
	<b>Total</b>		<b>2739.00</b>	<b>184.06</b>	<b>0.00</b>	<b>0.00</b>	<b>366.81</b>	<b>24.65</b>	<b>791.13</b>	<b>53.16</b>	<b>791.13</b>	<b>53.16</b>	<b>789.93</b>	<b>53.08</b>	<b>2739.00</b>	<b>184.06</b>

**GRAM PANCHAYAT WISE PHYSICAL AND FINANCIAL BREAK UP OF WORK COMPONENT OF  
IWMP-XV, DISTRICT- JALAUN  
WATERSHED DEVELOPMENT WORKS**

Amount in Lacs Physical in ha

S. No.	Gram Panchayat	Project Area	Proposed Amount	2011-12		2012-13		2013-14		2014-15		2015-16		TOTAL	
				Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
1	Babina	960.00	64.51	0.00	0.00	8.64	128.56	18.63	277.29	18.63	277.29	18.60	276.86	64.51	960.00
2	Etora Bavani	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	Garehi	550.00	36.96	0.00	0.00	4.95	73.66	10.68	158.86	10.68	158.86	10.66	158.62	36.96	550.00
4	Hansa	90.00	6.05	0.00	0.00	0.81	12.05	1.75	25.99	1.75	25.99	1.74	25.96	6.05	90.00
5	Kadaura	375.00	25.20	0.00	0.00	3.37	50.22	7.28	108.32	7.28	108.32	7.27	108.15	25.20	375.00
6	Kathpurva	50.20	3.37	0.00	0.00	0.28	6.72	0.61	14.50	0.61	14.50	1.86	14.48	3.37	50.20
7	Kuane Khera	466.30	31.34	0.00	0.00	4.20	62.45	9.05	134.69	9.05	134.69	9.04	134.48	31.34	466.30
8	Lamsar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	Margaya	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	Taharpur	35.00	2.35	0.00	0.00	0.31	4.69	0.68	10.11	0.68	10.11	0.68	10.09	2.35	35.00
11	Naka	25.00	1.68	0.00	0.00	0.06	3.35	0.12	7.22	1.37	7.22	0.12	7.21	1.68	25.00
12	Parosa	52.50	3.53	0.00	0.00	0.47	7.03	1.02	15.16	1.02	15.16	1.02	15.14	3.53	52.50
13	Sondhi	135.00	9.07	0.00	0.00	1.21	18.08	2.62	38.99	2.62	38.99	2.61	38.93	9.07	135.00
<b>Total</b>		<b>2739.00</b>	<b>184.06</b>	<b>0.00</b>	<b>0.00</b>	<b>24.32</b>	<b>366.81</b>	<b>52.44</b>	<b>791.13</b>	<b>53.69</b>	<b>791.13</b>	<b>53.60</b>	<b>789.93</b>	<b>184.06</b>	<b>2739.00</b>

## ANNUAL ACTION PLAN of Budget Components of IWMP-XV, JALAUN

S. No.	Physical And Financial Target (Fin in lacs)	Unit	Ist Year		IInd Year		IIIrd Year		IVth Year		Vth Year		Total	
			2011-12		2012-13		2013-14		2014-15		2015-16			
			Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
1	Administration		1.64		4.93		8.87		8.87		8.55		32.87	
2	Monitoring				0.66		0.66		0.66		1.31		3.29	
3	Evaluation				0.99		0.58		0.58		1.15		3.29	
4	<b>Entry Point Activities</b>													
	<b>Planned</b>													
	No. of Activities	No.	13.15	20									13.15	
	No. of Beneficiaries	No.		460										
	<b>Executed</b>													
	No. of Activities	No.												
	No. of Beneficiaries	No.												
5	<b>Institutional &amp; Capacity Building</b>													
	<b>No. of Persons to be Trained</b>													
	SLNA Level	No.												
	District Level	No.												
	PIA	No.		15		26		10		13		10		74
	WDT Level	No.		4		5		4		4		4		21
	SHG	No.		30		125		40		40		20		255
	User Groups	No.		40		100		60		60		30		290
	WC Level	No.		20		50		25		15		10		120
		Total		109		306		139		132		74		760
	<b>No. of Total Persons Trained</b>													
	SLNA Level	No. of stake holder	0.33		0.39		0.20		0.20		0.33		1.45	
	District Level		0.33		1.31		0.56		0.56		0.33		3.09	
	PIA		0.20	30	1.30	156	0.34	40	0.34	39	0.20	30	2.38	295
	WDT Level		0.10	20	0.65	50	0.17	20	0.17	16	0.10	12	1.19	118
	SHG		0.25	60	1.63	375	0.43	80	0.43	80	0.25	40	2.97	635
	User Groups		0.30	80	1.95	400	0.60	120	0.60	120	0.30	60	3.74	780
	WC Level		0.15	40	0.98	200	0.17	25	0.17	30	0.15	20	1.61	315
	<b>Sub Total</b>			<b>1.64</b>	<b>230</b>	<b>8.22</b>	<b>1181</b>	<b>2.47</b>	<b>285</b>	<b>2.47</b>	<b>285</b>	<b>1.64</b>	<b>162</b>	<b>16.43</b>

S. No.	Physical And Financial Target (Fin in lacs)	Unit	Ist Year		IInd Year		IIIrd Year		IVth Year		Vth Year		Total	
			2011-12		2012-13		2013-14		2014-15		2015-16		Fin	Phy
			Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy		
6	DPR Preparation		3.29										3.29	
7	<b>Watershed Development Works</b>													
	<b>Land Development</b>													
	Afforestation (on wasteland)	ha												
	Afforestation (on total land)	ha	0.00	0.00	2.01	47.37	4.12	102.18	4.12	102.18	4.11	102.02	14.36	353.75
	Horticulture (on wasteland)	ha												
	<b>Sub Total</b>		<b>0.00</b>	<b>0.00</b>	<b>2.01</b>	<b>47.37</b>	<b>4.12</b>	<b>102.18</b>	<b>4.12</b>	<b>102.18</b>	<b>4.11</b>	<b>102.02</b>	<b>14.36</b>	<b>353.75</b>
	<b>Soil And Moisture Conservation</b>													
	1. Field Bund	ha												
	2. Contour Bund	ha	0.00	0.00	0.23	10.07	0.51	21.72	0.51	21.72	0.50	21.69	1.75	75.20
	3. Marginal Bund	ha	0.00	0.00	0.10	1.38	0.22	2.98	0.22	2.98	0.22	2.97	0.77	10.30
	4. Sub Marginal Bund	ha	0.00	0.00	13.95	219.37	31.58	473.15	31.58	473.15	28.48	472.43	105.58	1638.10
	5. Peripheral Bund	ha	0.00	0.00	6.76	88.61	14.76	191.11	14.76	191.11	14.04	190.82	50.33	661.65
	Others/ Ponds	ha												
	<b>Sub Total</b>		<b>0.00</b>	<b>0.00</b>	<b>21.05</b>	<b>319.43</b>	<b>47.07</b>	<b>688.96</b>	<b>47.07</b>	<b>688.96</b>	<b>43.24</b>	<b>687.91</b>	<b>158.43</b>	<b>2385.25</b>
	<b>Water Harvesting Structure ( New Created)</b>													
	Farm Ponds	nos												
	Check dams	ha												
	WHB/Culvert	nos	0.00	0	1.25	1	1.25	1	2.50	2	6.25	5	11.25	9
	Gully Plug	nos												
	Ground water recharge structures	nos												
	Others	nos												
	<b>Sub Total</b>		<b>0.00</b>	<b>0</b>	<b>1.25</b>	<b>1</b>	<b>1.25</b>	<b>1</b>	<b>2.50</b>	<b>2</b>	<b>6.25</b>	<b>5</b>	<b>11.25</b>	<b>9</b>
	<b>Grand Total</b>		<b>0.00</b>	<b>0.00</b>	<b>24.32</b>	<b>366.81</b>	<b>52.44</b>	<b>791.13</b>	<b>53.69</b>	<b>791.13</b>	<b>53.60</b>	<b>789.93</b>	<b>184.06</b>	<b>2739.00</b>

S. No.	Physical And Financial Target (Fin in lacs)	Unit	Ist Year		IInd Year		IIIrd Year		IVth Year		Vth Year		Total	
			2011-12		2012-13		2013-14		2014-15		2015-16		Fin	Phy
			Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy		
<b>8</b>	<b>Livelihood Activities Through SHGs</b>													
	<b>1. Activity General Merchant Shop</b>													
	a) No. of SHG's		0.00	0	0.25	1	1.50	6	1.25	5	1.50	6	<b>4.50</b>	<b>18</b>
	b) No. of Member's													
	<b>2. Activity Goat Rearing</b>													
	a) No. of SHG's		0.00	0	0.44	2	1.10	5	1.10	5	1.76	8	<b>4.40</b>	<b>20</b>
	b) No. of Member's													
	<b>3. Activity Carpentry</b>													
	a) No. of SHG's		0.00	0	0.30	2	0.30	2	0.60	4	0.60	4	<b>1.80</b>	<b>12</b>
	b) No. of Member's													
	<b>4. Activity Dairy</b>													
	a) No. of SHG's		0.00	0	0.50	2	1.00	4	1.25	5	1.00	4	<b>3.75</b>	<b>15</b>
	b) No. of Member's													
	<b>5. Activity Sewing</b>													
	a) No. of SHG's		0.00	0	0.40	2	1.00	5	0.80	4	1.40	7	<b>3.60</b>	<b>18</b>
	b) No. of Member's													
	<b>6. Activity Poultry</b>													
	a) No. of SHG's		0.00	0	0.00	0	0.30	2	0.15	1	0.15	1	<b>0.60</b>	<b>4</b>
	b) No. of Member's													
	<b>7. Activity Repairing of Pumping Set Engine/Implements</b>													
	a) No. of SHG's		0.00	0	0.25	1	0.75	3	1.00	4	1.00	4	<b>3.00</b>	<b>12</b>
	b) No. of Member's													
	<b>8. Activity Black Smithy</b>													
	a) No. of SHG's		0.00	0	0.60	4	0.45	3	0.30	2	0.45	3	<b>1.80</b>	<b>12</b>
	b) No. of Member's													
	<b>9. Activity Vermi Compost</b>													
	a) No. of SHG's		0.00	0	0.25	1	1.00	4	1.00	4	1.00	4	<b>3.25</b>	<b>13</b>
	b) No. of Member's													
	<b>Others (Revolving Fund)</b>		0.00		0.30		0.82		0.77		1.00		<b>2.88</b>	
	<b>Sub Total</b>		<b>0.00</b>	<b>0</b>	<b>3.29</b>	<b>15</b>	<b>8.22</b>	<b>34</b>	<b>8.22</b>	<b>34</b>	<b>9.86</b>	<b>41</b>	<b>29.58</b>	<b>124</b>

S. No.	Physical And Financial Target (Fin in lacs)	Unit	Ist Year		IInd Year		IIIrd Year		IVth Year		Vth Year		Total	
			2011-12		2012-13		2013-14		2014-15		2015-16		Total	
			Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
9	<b>Production System &amp; Micro – Enterprises</b>													
	<b>Agriculture</b>													
	<b>a) Crop Demonstration</b>													
	1. No. of Demo.	nos	0.00	0	1.55	13	4.58	39	4.58	39	7.45	65	18.15	0
	2. Area	ha				5.20		15.60		15.60		26.00		0.00
	<b>b) Horticulture</b>		0.00	0	0.30	2	0.60	4	0.60	4	0.60	4	2.10	14
	<b>c) Nursery</b>		0.00	0	0.44	2	0.44	2	0.44	2	1.10	5	2.42	11
	<b>d) Animal Husbandry</b>		0.00	0	0.40	2	1.00	5	0.40	2	1.00	5	2.80	14
	<b>e) Mini Dal / Mini Flour Mill</b>		0.00	0	0.40	1	1.20	3	1.60	4	2.00	5	5.20	13
	<b>f) Seed Distribution</b>		0.00	0	0.20	1	0.40	2	0.60	3	1.00	5	2.20	11
	<b>Sub Total</b>		<b>0.00</b>	<b>0</b>	<b>1.74</b>	<b>8</b>	<b>3.64</b>	<b>16</b>	<b>3.64</b>	<b>15</b>	<b>5.70</b>	<b>24</b>	<b>14.72</b>	<b>63</b>
	<b>Total</b>		<b>0.00</b>		<b>3.29</b>		<b>8.22</b>		<b>8.22</b>		<b>13.15</b>		<b>32.87</b>	
10	<b>Consolidation &amp; Withdrawal Phase Activities</b>										9.86		9.86	
	<b>Grand Total</b>		<b>19.72</b>	<b>-</b>	<b>46.02</b>	<b>366.81</b>	<b>82.17</b>	<b>791.13</b>	<b>82.17</b>	<b>791.13</b>	<b>98.60</b>	<b>789.93</b>	<b>328.68</b>	<b>2739.00</b>

# **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 IWMP-XV Jalaun watershed, proper blending of bio engineering measures will be applied on 56% 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 30% and 50% 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.

### SUMMARY OF EXPECTED /ESTIMATED OUTCOMES OF IWMP-XV of District- Jalaun (2011-12)

S. No.	Project Outcome Details	Pre Project	Expected Post Project
1	Cropped Area ( ha):	4871.62	5100.00
2	Net Sown Area( ha):	4871.62	5100.00
3	Area of land to which irrigation facility created( ha)	2351.74	2500.00
4	No. of Revenue Records Updated	-	-
5	No. of Beneficiaries (Small Farmers)		988
6	No. of Beneficiaries (Marginal Farmers)		624
7	No. of Beneficiaries (Landless)		320
8	No. of Beneficiaries (BPL)		320
9	Total No. of Employment Generated		190
10	No. of Persondays Migrated from Project Area		290
11	Pre-Monsoon Depth of Ground Water (meters below ground level)	15	14

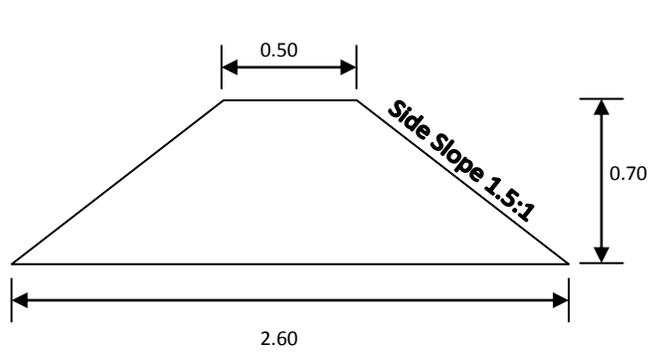
**Chapter-10**

**COST NORMS & DESIGN OF STRUCTURE**

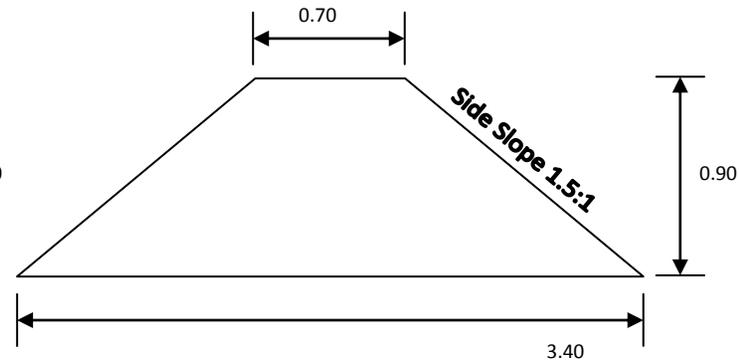
**PROPOSED**

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

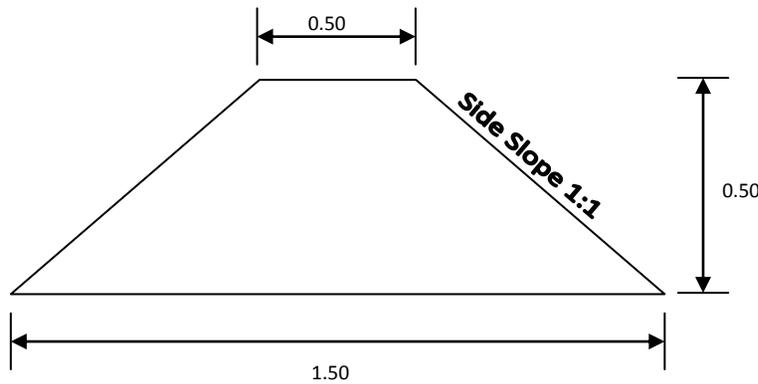
*(Not to Scale)*



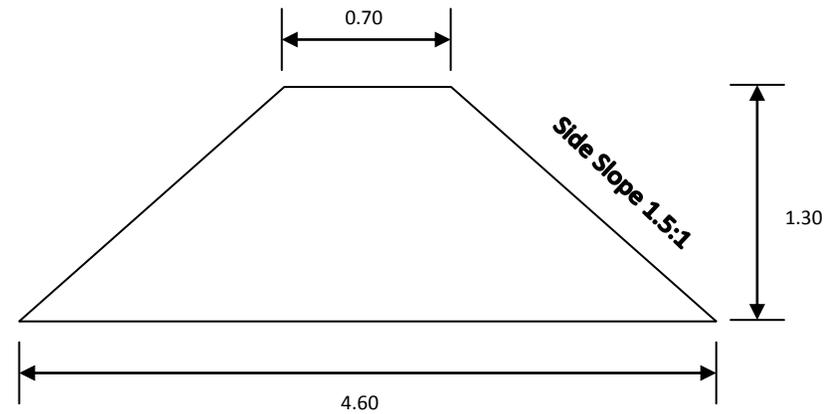
(C.B., Cross-Section – 1.085 m<sup>2</sup>)



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



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

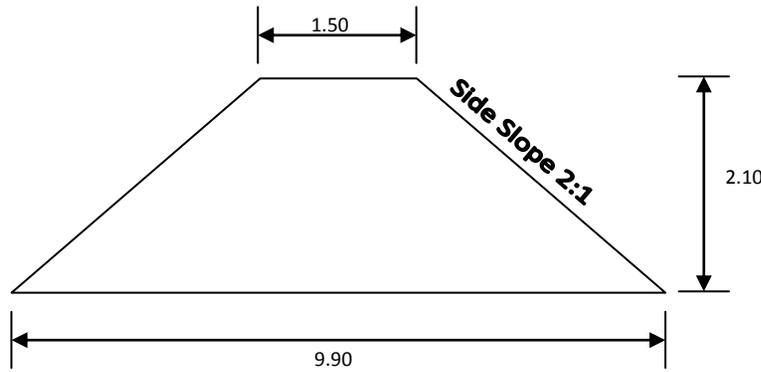


(S.B. /P.B. /M.B., Cross-Section – 3.445 m<sup>2</sup>)

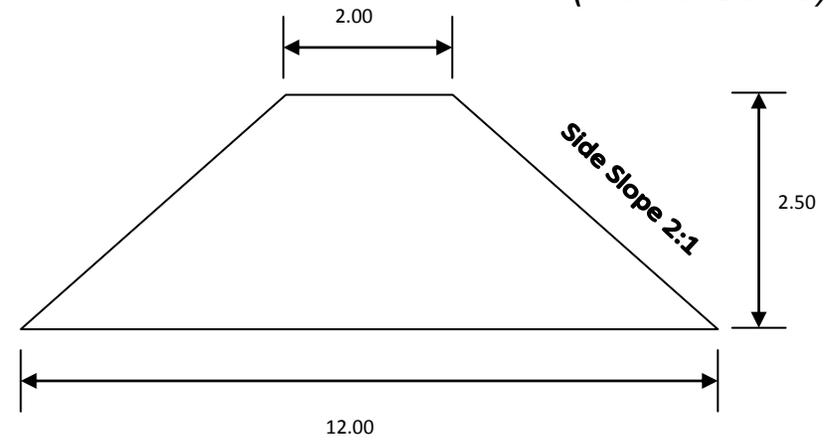
(All dimensions in Meter)

# DRAWING OF EARTHEN CHEKDAM / GULLY PLUG

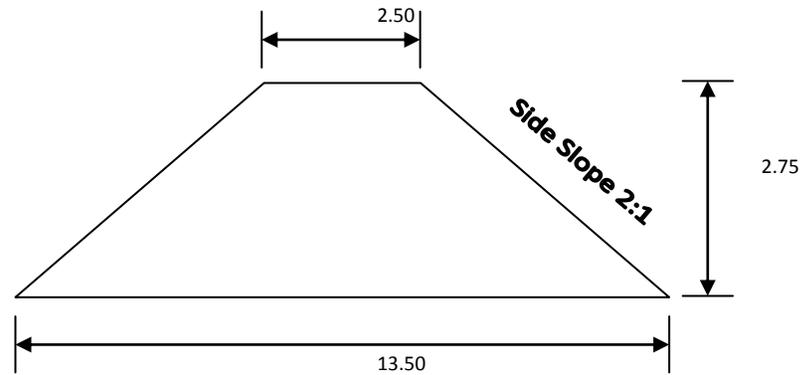
(Not to Scale)



(C.D. /G.P., Cross-Section – 11.97 m<sup>2</sup>)



(C.D. /G.P., Cross-Section – 17.50 m<sup>2</sup>)



(W.H.B., Cross-Section – 22.00 m<sup>2</sup>)

**(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	$= \sqrt{(Re \times VI)/50}$ $= \sqrt{(25 \times 0.7)/50}$ $= \sqrt{0.35}$ $= 0.59$	Re=maximum rainfall in cm
	<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	$= 0.50 + (1.50 d) \times 2$ $= 2.60 \text{ m}$	
Cross-Section of bund	$= (0.50 + 2.60) \times 0.70 / 2$ $= 1.085 \text{ m}^2$	
Length of bund	$= 100 s / V.I.$ $= 100 \times 1 / 0.70$ $= 142.85 \text{ m/ha}$	
	<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 $h = \sqrt{(Re \times V.I.) / 50}$	$= \sqrt{(25 \times 0.90) / 50} = \sqrt{0.45} = 0.67 \text{ m. Say } \mathbf{0.70m}$
Free board 20% of height minimum 20cm	
Total Height	= 0.90m
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	$= 276.75 \times 39.16$ $= 10,837.53$ <b>Say 10,850=00</b>

### 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 m <sup>2</sup>
Per meter cost	= Rs. 1085.92

# **CHAPTER -11**

## **MAPS**

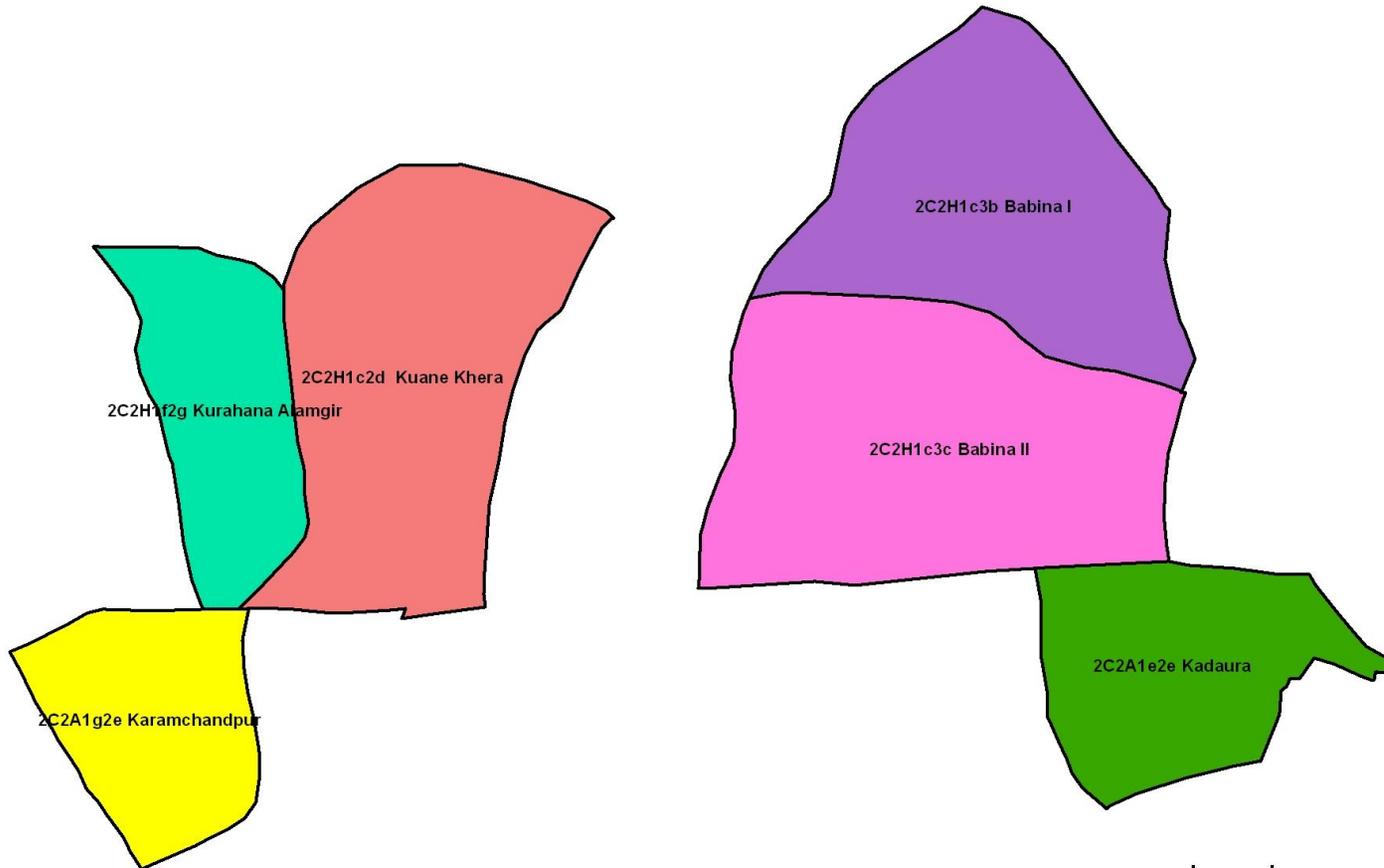
# MAPS

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- Project Area Map
- 2- Contour map
- 3- Drainage Map
- 4- Land use/ Land cover map
- 5- Slope Map
- 6- Soil Erosion Map
- 7- Soil Texture Map
- 8- Cadastral Map
- 9- Action Plan- Babina-I / 2C2H1c3b, Babina-II / 2C2H1c3c, Kadaura / 2C2A1e2e, Kuane Khera / 2C2H1c2d

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

THE PROJECT AREA  
IWMP - XV (2011-12), DISTRICT - JALAUN



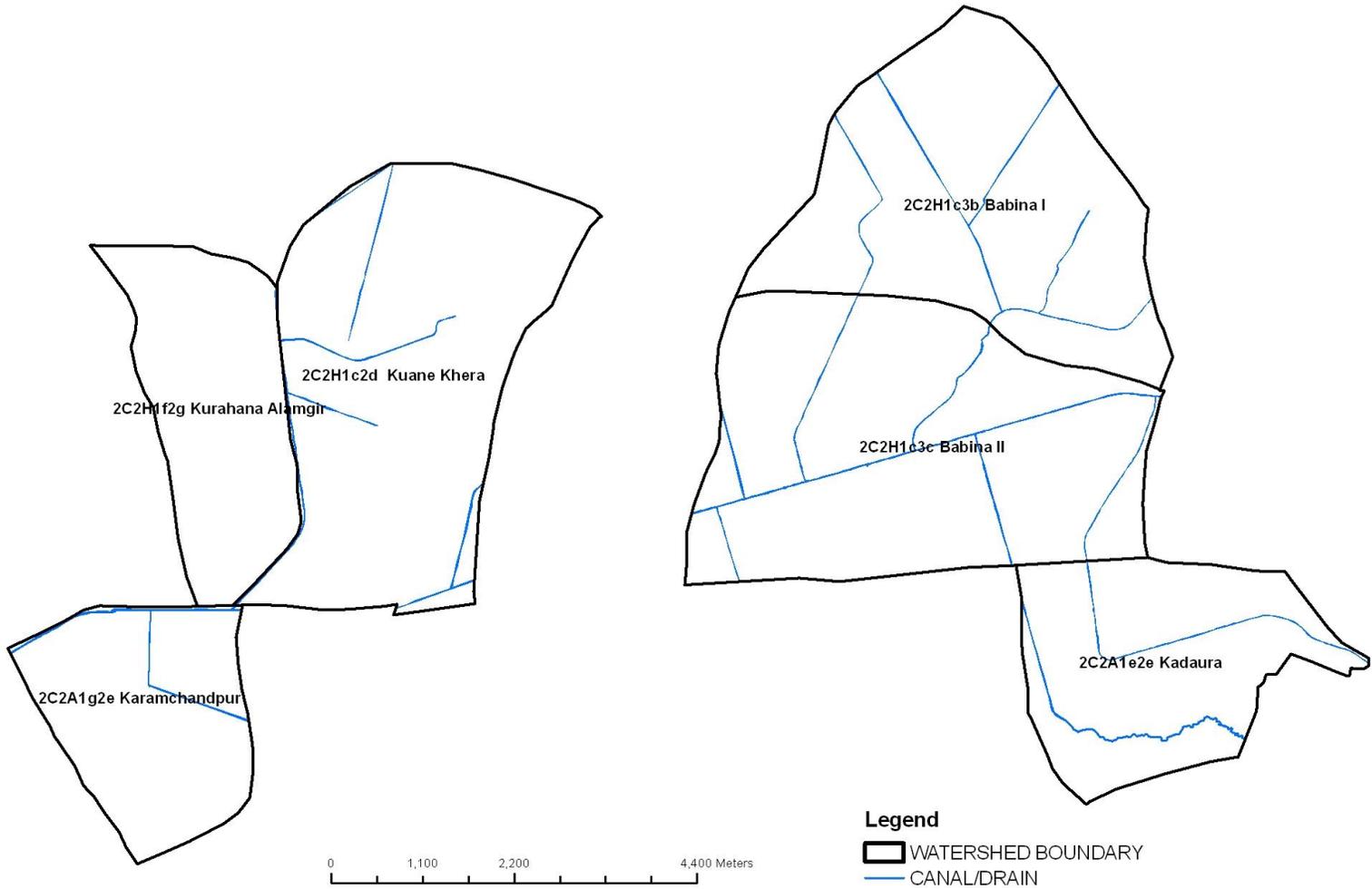
Legend

 WATERSHED BOUNDARY

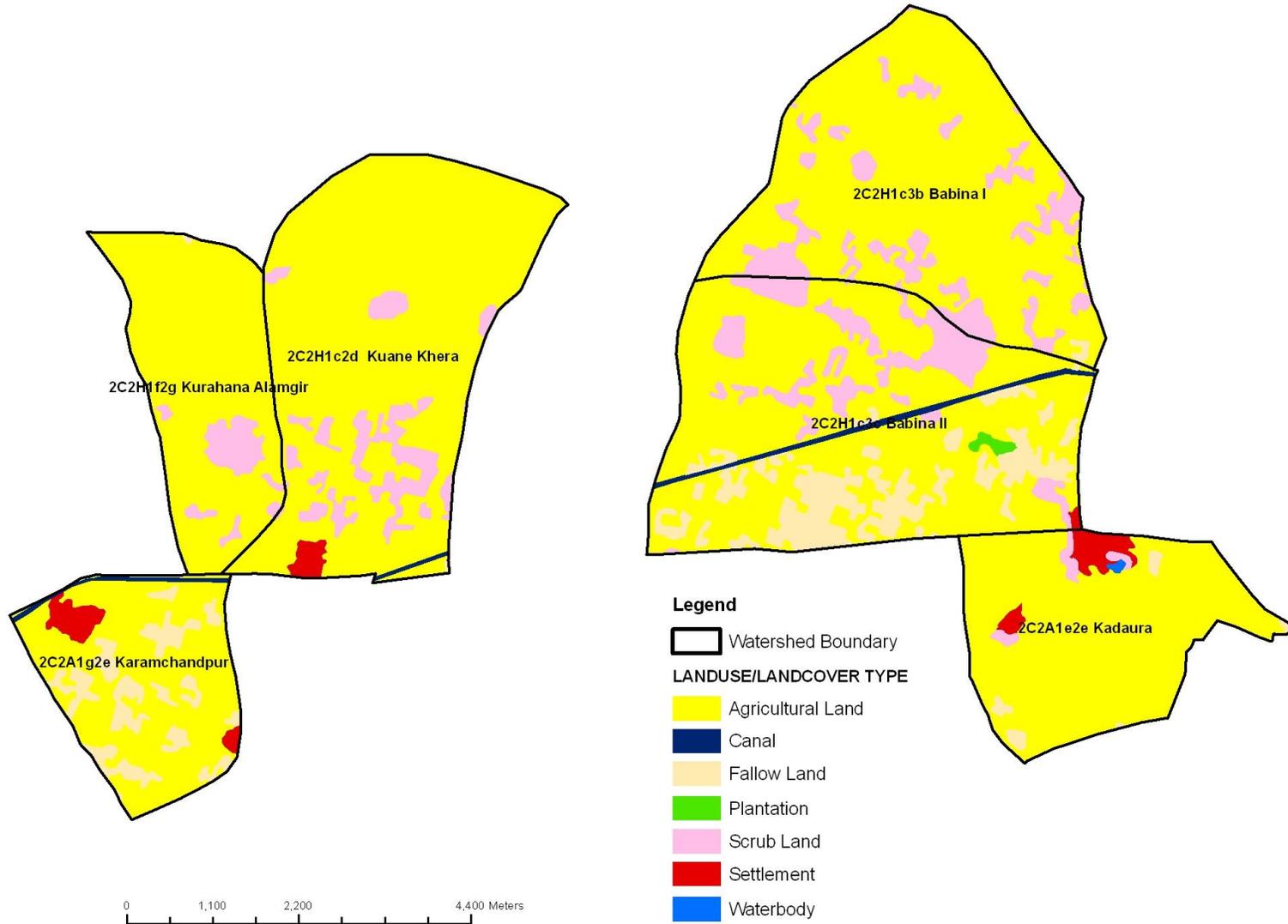
CONTOUR MAP OF THE PROJECT AREA  
IWMP- XV (2011-12), DISTRICT - JALAUN



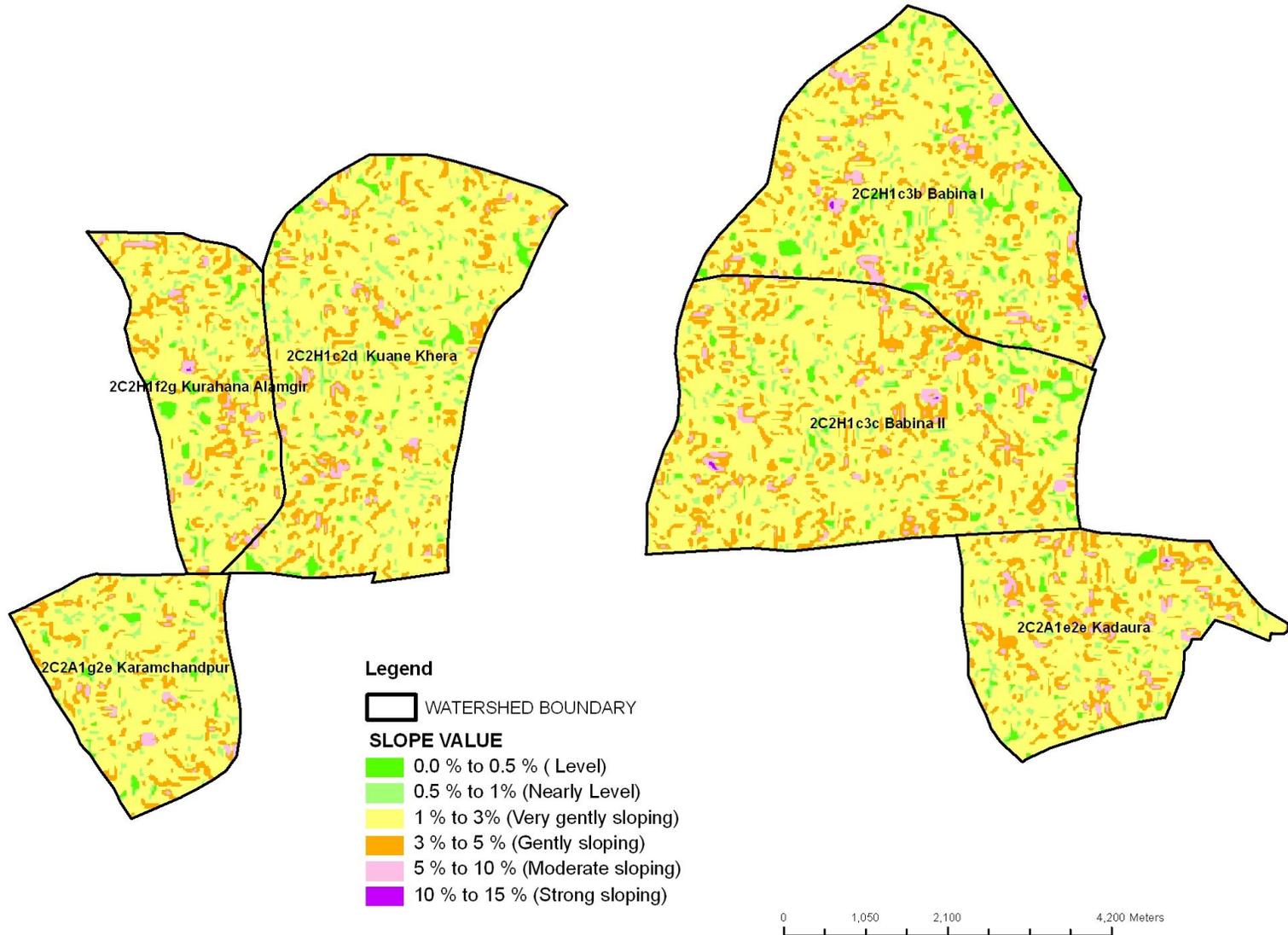
DRAINAGE MAP OF THE PROJECT AREA  
IWMP- XV (2011-12), DISTRICT - JALAUN



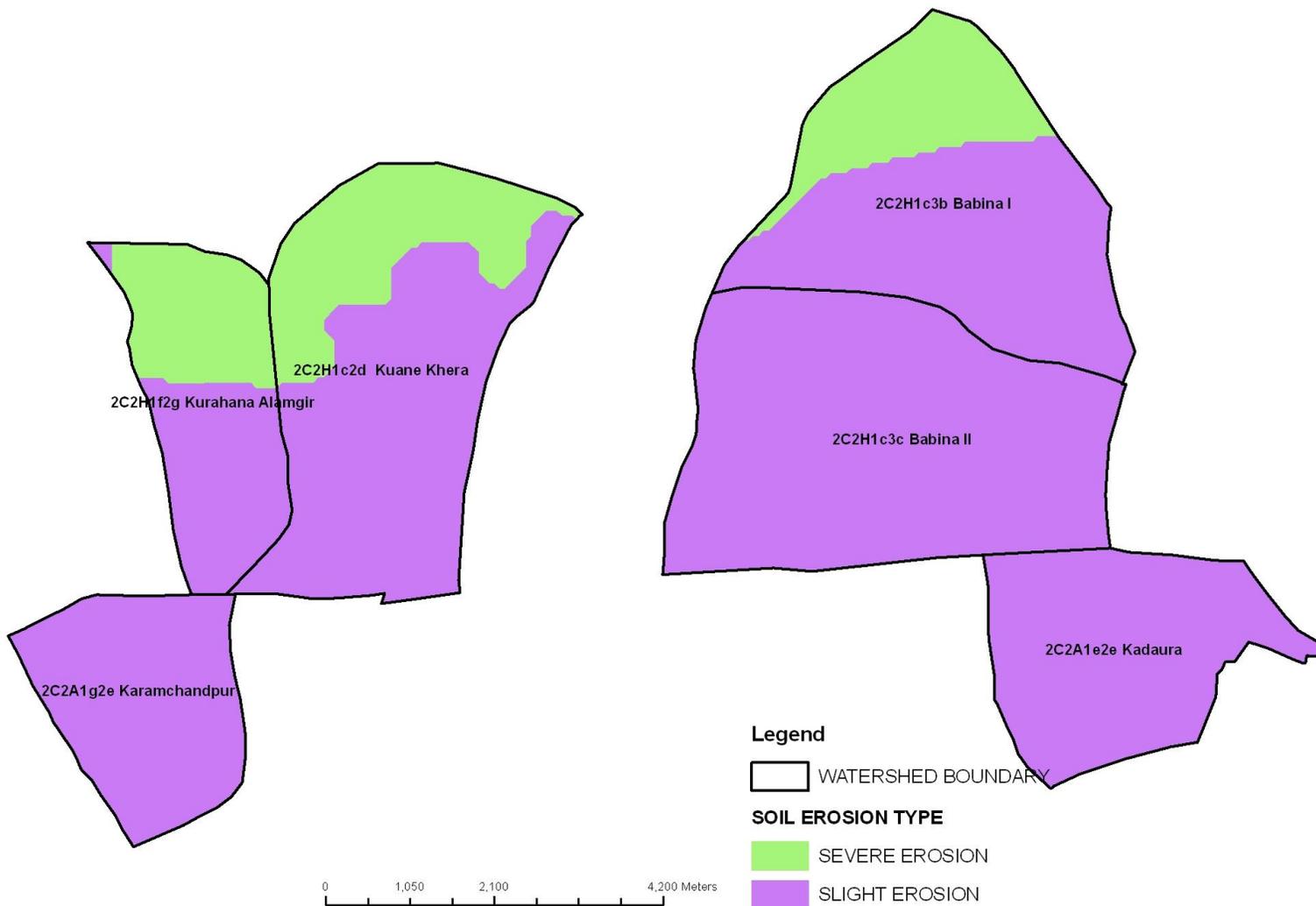
LANDUSE/LANDCOVER MAP OF THE PROJECT AREA  
IWMP- XV (2011-12), DISTRICT - JALAUN



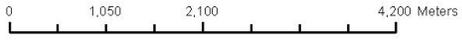
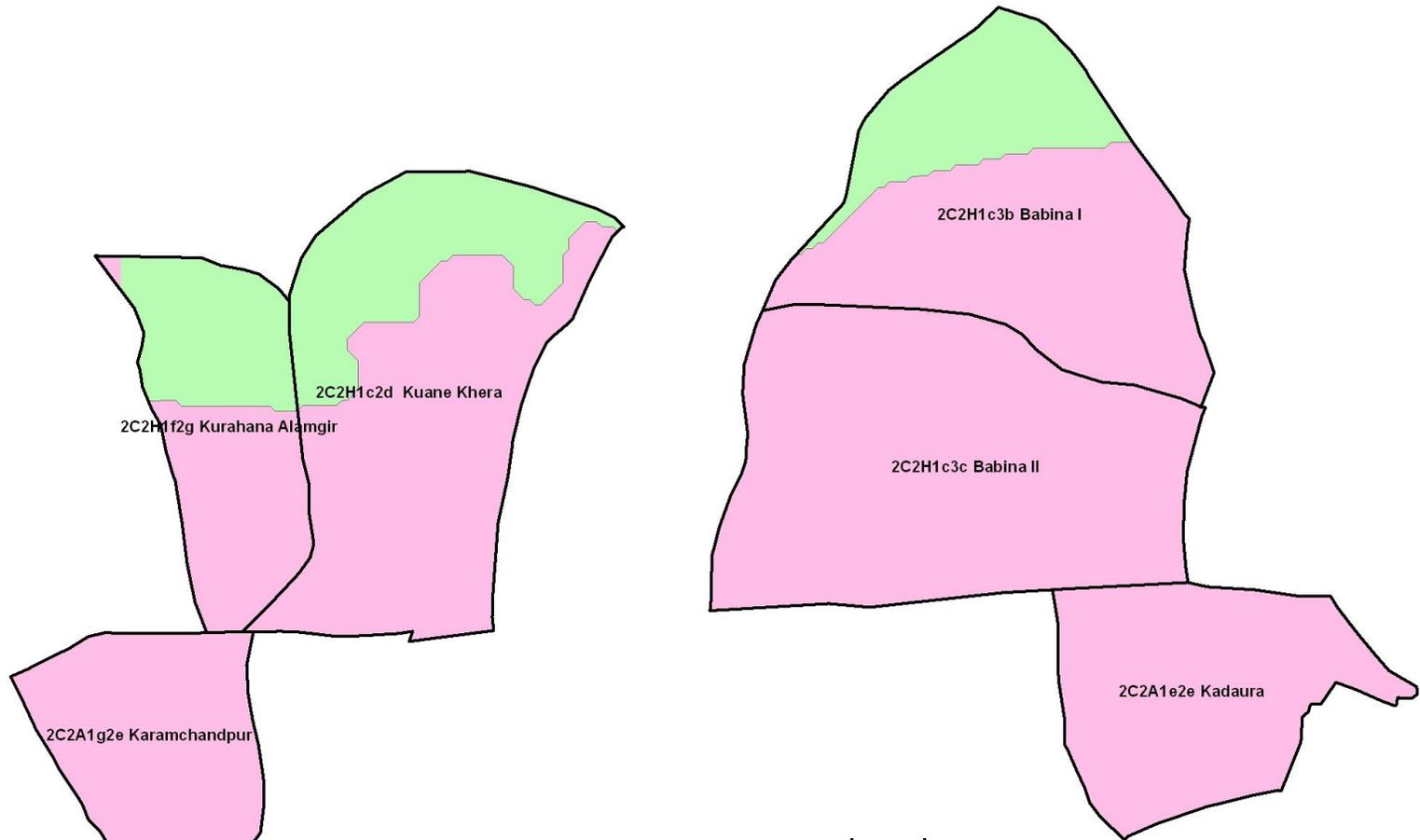
**SLOPE MAP OF THE PROJECT AREA  
IWMP- XV (2011-12), DISTRICT - JALAUN**



SOIL EROSION MAP OF THE PROJECT AREA  
IWMP- XV (2011-12), DISTRICT - JALAUN



SOIL TEXTURE MAP OF THE PROJECT AREA  
IWMP- XV (2011-12), DISTRICT - JALAUN



- Legend
-  IWMP\_XV\_final
  - SOIL TEXTURE TYPE**
  -  FINE LOAMY
  -  FINE MONT.MORILLIONITIC CAL.

CADASTRAL MAP OF THE PROJECT AREA  
IWMP - XV, (2011-2012), DISTRICT - JALAUN



1,600 800 0 1,600 Meters

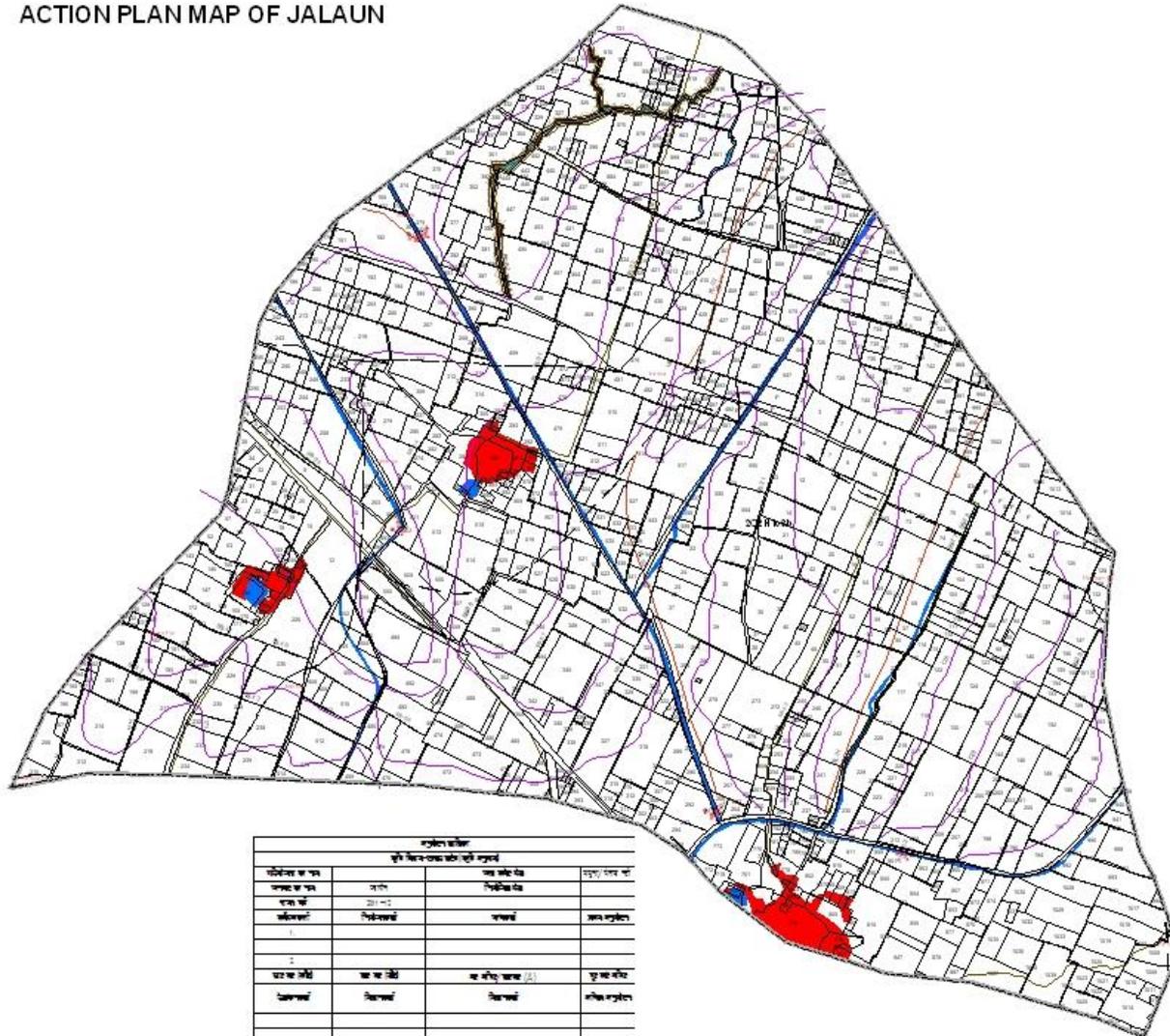
**Legend**

-  Watershed Boundary
-  cadastral





**ACTION PLAN MAP OF JALAUN**



**ACTION PLAN MAP OF JALAUN**  
**Project Name: IWMP-XV (2011-2012)**  
**District Name: Jalaun**  
**Code: 2C2H1 c3b**  
**Total Area: 1198.18**

S.NO.	Village Name	Area(ha.)
1	Sondhi	236.731
2	Hansa	177.399
3	Sujan Pur	150.526
4	Taharpur	110.422
5	Pharhampur	2.106
6	Babina	619.494
7	Parosa 2	0.764
8	Kathpurva	0.737
	<b>TOTAL</b>	<b>1298.178</b>

S.No.	Feature Type	Feature No.
1	Submergence Bund	21
2	Peripheral Bund	3
3	Pulia	4
4	Ridge Line	4

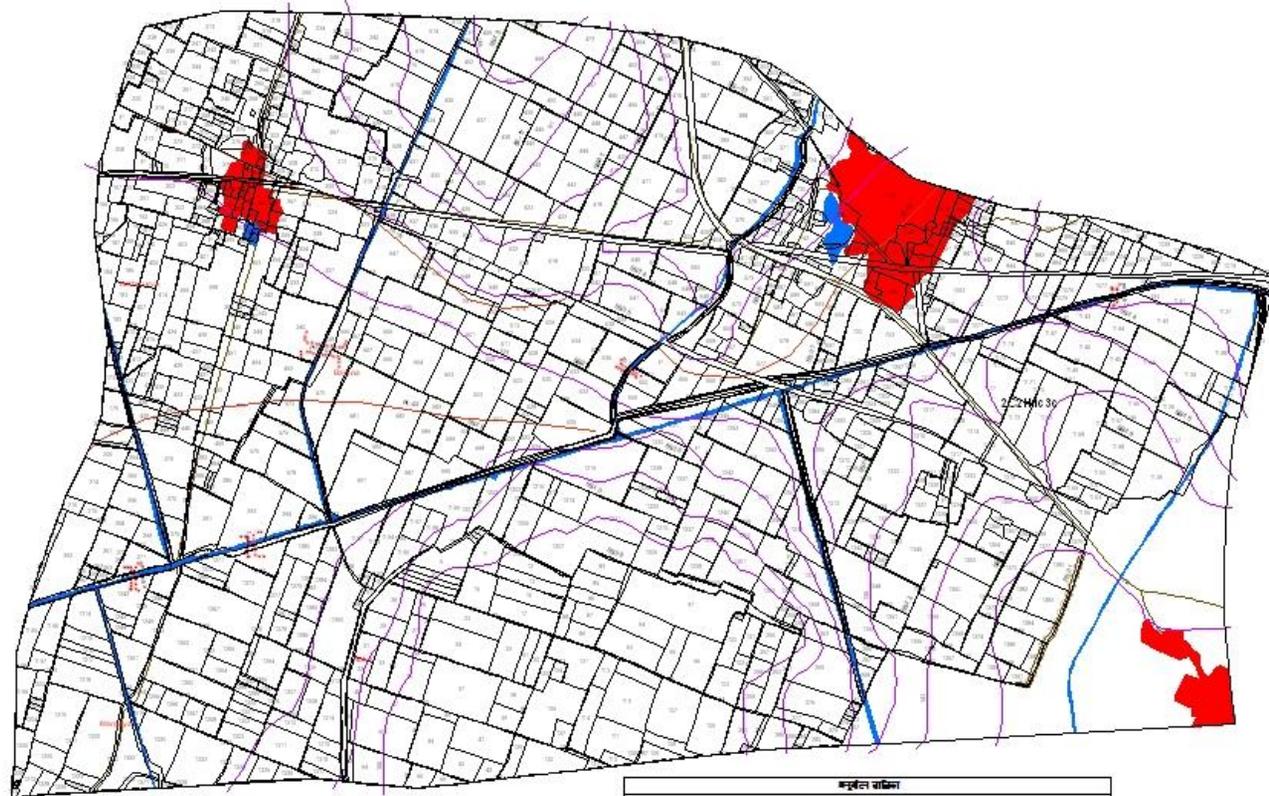
**Legend**

- Watershed Boundary
- Village Boundary
- Cadastral
- Contour
- Peripheral Bund
- Submergence Bund
- Pulia
- Ridge Line
- settlement
- water body
- drain
- canal
- road

अनुसूची संख्या			
सूची संख्या १०००/२०११/१०००			
संविधान संख्या	वर्ष	संविधान संख्या	संविधान संख्या
१०००/२०११/१०००	२०११	१०००/२०११/१०००	१०००/२०११/१०००
१०००/२०११/१०००	२०११	१०००/२०११/१०००	१०००/२०११/१०००
१०००/२०११/१०००	२०११	१०००/२०११/१०००	१०००/२०११/१०००
१०००/२०११/१०००	२०११	१०००/२०११/१०००	१०००/२०११/१०००
१०००/२०११/१०००	२०११	१०००/२०११/१०००	१०००/२०११/१०००
१०००/२०११/१०००	२०११	१०००/२०११/१०००	१०००/२०११/१०००
१०००/२०११/१०००	२०११	१०००/२०११/१०००	१०००/२०११/१०००
१०००/२०११/१०००	२०११	१०००/२०११/१०००	१०००/२०११/१०००
१०००/२०११/१०००	२०११	१०००/२०११/१०००	१०००/२०११/१०००



**ACTION PLAN MAP OF JALAUN**



**ACTION PLAN MAP OF JALAUN**  
 Project Name: IWMP-XV (2011-2012)  
 District Name: Jalaun  
 Code: 2C2H1c3c  
 Total Area: 1511.08 ha.

S.No.	Village Name	Area(ha.)
1	Bavina	948.665
2	Kathpurva	279.751
3	Margaya	71.777
4	Naka	201.662
<b>TOTAL</b>		<b>1501.855</b>

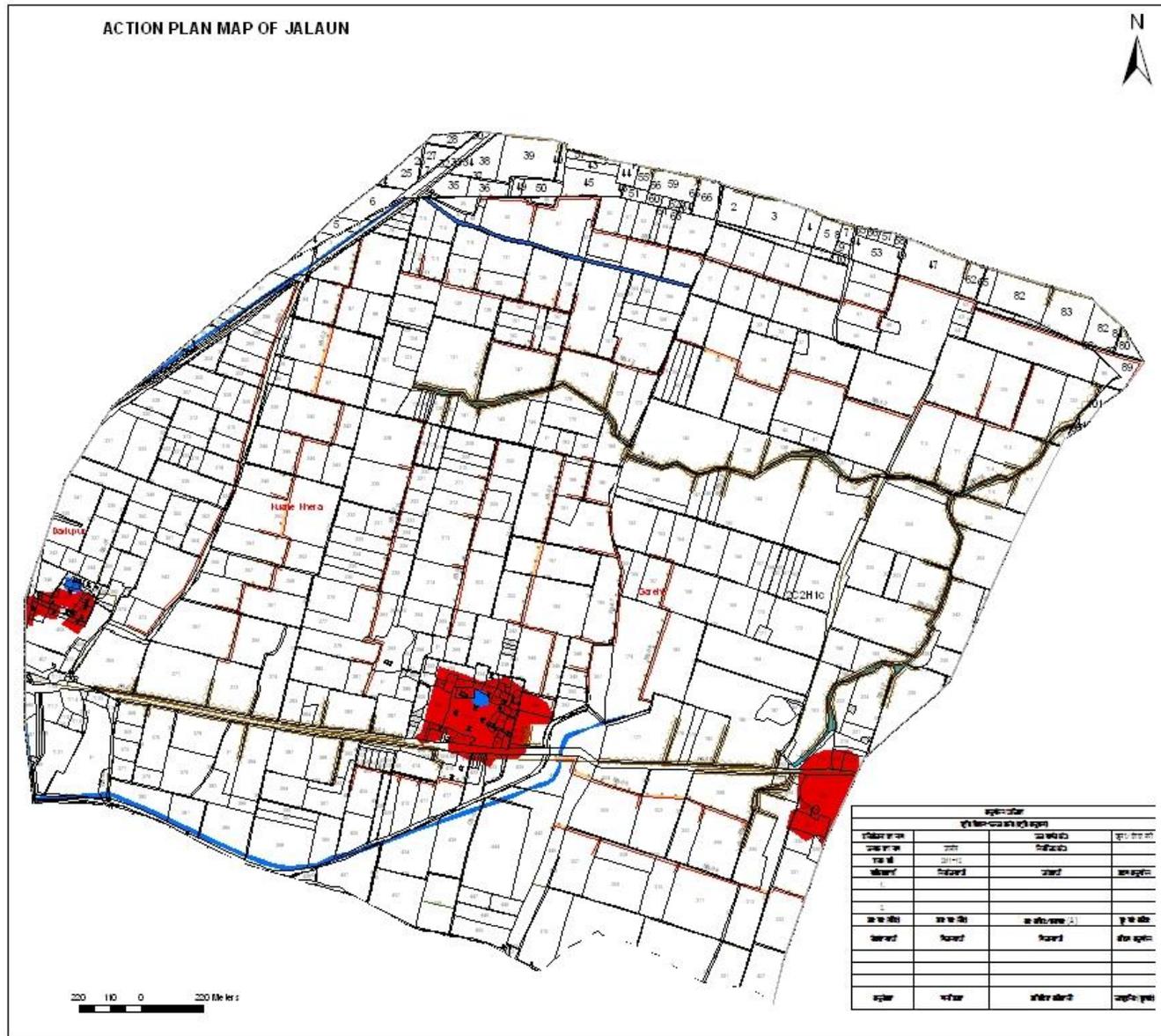
S.No.	Feature Type	Feature No.
1	Submergence Bund	18
2	Peripheral Bund	1
3	Pulia	5
4	Ridge Line	3

**Legend**

- Watershed Boundary
- Village Boundary
- Cadastral
- Contour
- Peripheral Bund
- Submergence Bund
- Ridge Line
- Pulia
- settlement
- water body
- drain
- canal
- road

अखिल भारत			
कृषि विभाग-उत्तर प्रदेश (कृषि मंत्रालय)			
पिढिवाव वा नाम	पञ्चायत	पञ्चायत क्षेत्र	पञ्चायत क्षेत्र
पञ्चायत का नाम	2011-12	पिढिवाव क्षेत्र	
उत्पत्ति	पिढिवाव	पञ्चायत	अखिल भारत
आ.क. (वर्ग)	आ.क. (वर्ग)	अ.क. (वर्ग) (A)	कु.क. (वर्ग)
पञ्चायत	पिढिवाव	पिढिवाव	अखिल भारत
मण्डल	मण्डल	अखिल भारत	उत्तर प्रदेश (कृषि)





**ACTION PLAN MAP OF JALAUN**  
**Project Name: IWMP-XV (2011-2012)**  
**District Name: Jalaun**  
**Code: 2C2H1c2d**  
**Total Area: 1069.19 ha.**

S.No.	Feature Type	Feature No.
1	Submergence Bund	15
2	Peripheral Bund	20
3	Contour Bund	3

S.No.	Village Name	Area (ha.)
1	Kuane Khera	351.485
2	Garehi	367.419
3	Dadupur	82.251
<b>Total</b>		<b>801.155</b>

**Legend**

- Watershed Boundary
- Village Boundary
- Cadastral
- Peripheral Bund
- Contour Bund
- \*\*\* Submergence Bund
- settlement
- water body
- drain
- canal
- road



**Annexure-1****Gram Panchayat wise Cost estimate of watershed work, IWMP-XV Jalaun****Gram Panchayat Name – Babina****Submergence Bund**

S. No.	Activity	Khasra No.	Area	Length	Top	Base	Height	C. S.	E. W.	Rate	Amount
1	SB-01	418, 419, 420, 412, 471, 447, 448, 456, 457, 462, 471	26.60	1140	0.50	4.50	1.00	2.50	2849	41.21	117426
2	SB-02	411, 412, 417, 415, 416	20.50	878	0.50	4.50	1.00	2.50	2196	41.21	90492
3	SB-03	376, 381, 385, 388, 387, 386, 377, 404, 382	33.00	1413	0.50	4.50	1.00	2.50	3532	41.21	145547
4	SB-04	648, 644, 645, 621	15.80	682	0.50	4.50	1.00	2.50	1705	41.21	70259
5	SB-05	639, 642, 641, 640	11.80	503	0.50	4.50	1.00	2.50	1258	41.21	51842
6	SB-06	671, 672, 670, 674, 673	14.70	632	0.50	4.50	1.00	2.50	1579	41.21	65076
7	SB-07	694, 677, 678	12.60	546	0.50	4.50	1.00	2.50	1364	41.21	56202
8	SB-08	1268, 1274, 1273, 1240, 1241, 1272, 1259, 1255, 1242, 1263, 1230, 1232, 1255, 1256	41.70	1784	0.50	4.50	1.00	2.50	4461	41.21	183844
9	SB-09	1266, 1265, 1264, 1262, 1238, 82, 1261, 1209, 1207, 1237, 1255, 1263	35.00	1496	0.50	4.50	1.00	2.50	3739	41.21	154102
10	SB-10	1219, 1218, 1263, 1211	22.50	966	0.50	4.50	1.00	2.50	2414	41.21	99497
11	SB-11	1297, 1298, 1316, 1312, 1311, 1309, 1315, 1302, 1317, 1301, 1300, 1299, 1305	26.10	1116	0.50	4.50	1.00	2.50	2789	41.21	114945
12	SB-12	1354, 1351, 1350, 1348, 1345, 1326, 1325, 1331, 1318, 1317, 1352, 1390, 1330/2, 1325	39.00	1668	0.50	4.50	1.00	2.50	4170	41.21	171866
13	SB-13	1358, 1360, 1371, 1362, 1363, 1364, 1367/1398, 1369, 1358, 1360, 1375, 1369/1399	28.50	1220	0.50	4.50	1.00	2.50	3051	41.21	125734
14	SB-14	1140, 1154, 1152, 1128, 1144, 1134, 1142, 1143	21.10	944	0.50	4.50	1.00	2.50	2359	41.21	97229

15	SB-15	1172, 1136, 1155, 1140, 1171, 1151, 1149, 1148, 1152, 1146, 1173, 1180, 1145	41.60	1777	0.50	4.50	1.00	2.50	4441	41.21	183028
16	SB-16	1158, 1137, 1157, 1168, 1140, 1152	25.70	1099	0.50	4.50	1.00	2.50	2748	41.21	113259
17	SB-17	442, 445, 440, 434, 438, 437, 435, 412	26.60	1137	0.50	4.50	1.00	2.50	2843	41.21	117146
18	SB-18	451, 452, 458, 459	15.50	665	0.50	4.50	1.00	2.50	1662	41.21	68472
19	SB-19	603, 593, 600, 583, 582, 568, 547	39.60	1698	0.50	4.50	1.00	2.50	4245	41.21	174927
20	SB-20	630, 633, 602, 593, 632, 608, 612, 552, 553, 547, 601, 568, 581	41.50	1780	0.50	4.50	1.00	2.50	4450	41.21	183380
21	SB-6		7.60	320	0.50	4.50	1.00	2.50	800	42.21	33768
22	SB-7	342, 352, 633, 629	12.40	532	0.50	4.50	1.00	2.50	1330	41.21	54809
23	SB-8	327, 319, 329, 330, 334	15.50	665	0.50	4.50	1.00	2.50	1663	41.21	68512
24	SB-9	479, 473, 478, 474, 483,490	18.60	798	0.50	4.50	1.00	2.50	1995	41.21	82214
25	SB-10	506, 501	8.50	365	0.50	4.50	1.00	2.50	913	41.21	37604
26	SB-13	238, 230, 237, 235, 501	12.00	520	0.50	4.50	1.00	2.50	1300	41.21	53573
27	SB-16		13.40	566	0.50	4.50	1.00	2.50	1415	42.21	59727
28	SB-17	237, 238, 242, 241, 54, 55, 56, 57, 63, 68, 74, 53, 75, 76, 83, 82, 727	40.10	1720	0.50	4.50	1.00	2.50	4300	41.21	177203
29	SB-18	229,, 228, 227, 117, 114, 112, 111, 110, 109, 105, 104, 103, 233	36.70	1575	0.50	4.50	1.00	2.50	3938	41.21	162264
30	SB-19	233, 120, 119, 211, 217, 123, 124, 122, 87, 101	33.20	1424	0.50	4.50	1.00	2.50	3560	41.21	146708
31	SB-20	198, 199, 205, 152, 148, 150, 161, 158, 147, 138	27.90	1197	0.50	4.50	1.00	2.50	2993	41.21	123321
32	SB-21	30, 32, 33, 550, 553	21.80	931	0.50	4.50	1.00	2.50	2328	41.21	95916
33	SB-22	269, 276, 270, 268, 262, 275, 274, 272, 273, 281, 284	33.50	1448	0.50	4.50	1.00	2.50	3619	41.21	149131
<b>Kaccha Work</b>											<b>3629026</b>
<b>Pucca Work</b>											<b>1564563</b>
<b>Total</b>			<b>820.60</b>						<b>88008</b>		<b>5193589</b>

<b>Peripheral Bund</b>											
S. No.	Activity	Khasra No.	Area	Length	Top	Base	Height	C. S.	E. W.	Rate	Amount
1	PB-01	1391, 1388, 1387, 1390, 1384, 1385, 1383, 13380	23.50	939	0.50	4.70	1.05	2.73	2563	41.21	105611
<b>Kaccha Work</b>											<b>105611</b>
<b>Pucca Work</b>											<b>70400</b>
<b>Total</b>			<b>23.50</b>						<b>2562.75</b>		<b>176011</b>
<b>Culvert</b>		6 no.	-								750000
<b>Afforestation</b>			<b>115.9</b>								<b>331600</b>
<b>Grand Total</b>			<b>960.00</b>								<b>6451200</b>

**Gram Panchayat Name – Hansa**  
**Submergence Bund**

S. No.	Activity	Khasra No.	Area	Length	Top	Base	Height	C. S.	E. W.	Rate	Amount
14	SB-14	484, 427, 422, 409, 402, 406, 1000, 658, 657, 656, 965, 652, 651, 964, 644, 643, 963, 393, 399, 999	30.50	1330	0.50	4.50	1.00	2.50	3325	41.21	137023
15	SB-15	747, 742, 741, 740, 737, 734, 733, 732, 725, 749	15.30	665	0.50	4.50	1.00	2.50	1663	41.21	68512
16	SB-16	49, 47, 19, 22, 393, 4, 727, 728	18.30	800	0.50	4.50	1.00	2.50	2000	41.21	82420
17	SB-17		6.33	250	0.50	4.50	1.00	2.50	625	42.21	26381
18	SB-18		7.04	264	0.50	4.50	1.00	2.50	660	42.21	27859
			2.53	95	0.50	4.50	1.00	2.50	238	42.21	10025
<b>Kaccha Work</b>											<b>352220</b>
<b>Pucca Work</b>											<b>219420</b>
<b>Total</b>			<b>80.00</b>						<b>8510</b>		<b>571640</b>
<b>Afforestation</b>			<b>10.00</b>								<b>33160</b>
<b>Grand Total</b>			<b>90.00</b>								<b>604800</b>

## Gram Panchayat Name – Kuavan Khera

### Contour Bund

S. No.	Activity	Khasra No.	Area	Length	Top	Base	Height	C. S.	E. W.	Rate	Amount
1	CB-1	344, 348, 337, 336, 335, 334, 333, 332, 330, 327, 329, 311, 307	10.20	745	0.45	2.25	0.6	0.81	603	39.20	23649
2	CB-2	372, 1124, 1113, 1114	6.10	399	0.45	2.25	0.6	0.81	323	39.20	12669
3	CB-3	446, 447, 438, 435, 439	12.60	895	0.45	2.25	0.6	0.81	725	40.20	29143
<b>Total</b>			<b>28.90</b>						<b>1651</b>		<b>65461</b>
<b>Peripheral Bund</b>											
1	PB-1	386, 384, 378, 377, 376, 374, 368, 372, 367	15.00	745	0.5	4.7	1.05	2.73	2033	41.21	83792
2	PB-2	367, 271, 274, 264, 275, 272, 269, 270	18.00	904	0.5	4.7	1.05	2.73	2469	41.21	101748
3	PB-3	284, 287, 367, 282, 286, 283	12.50	665	0.5	4.7	1.05	2.73	1815	41.21	74815
4	PB-4	414, 416, 416/458, 415/459, 415, 401, 367, 400, 390, 389	16.00	798	0.5	4.7	1.05	2.73	2179	41.21	89778
5	PB-5	354	18.50	958	0.5	4.7	1.05	2.73	2614	41.21	107733
13	PB-13	184, 178, 184, 142, 139, 141, 136, 145	20.10	1064	0.5	4.7	1.05	2.73	2905	41.21	119704
15	PB-15	178, 132, 131, 172, 173, 174, 175, 147, 148, 158, 23	25.50	1330	0.5	4.7	1.05	2.73	3631	41.21	149629
19	PB-19	8, 5,7, 2, 55, 4, 3, 1, 65, 83, 82, 80, 81, 70, 54, 47	28.00	1463	0.5	4.7	1.05	2.73	3994	41.21	164592
20	PB-20	38, 39, 40, 42, 44, 55, 59, 65, 66,57	18.00	931	0.5	4.7	1.05	2.73	2542	41.21	104741
<b>Kaccha Work</b>											<b>996532</b>
<b>Pucca Work</b>											<b>427100</b>
<b>Total</b>			<b>171.60</b>						<b>24182</b>		<b>1423632</b>

<b>Submergence Bund</b>											
1	SB-1	342, 254, 371, 364, 362, 324, 323, 317, 316, 315, 309, 305, 302, 373, 342,	24.50	1197	0.50	4.50	1.00	2.5	2993	41.21	123321
2	SB-2	268, 265, 267, 263, 262, 258, 257, 253, 250, 249, 248, 247, 244, 240, 242, 238, 98, 97, 94, 92, 90, 89, 85, 83, 80	55.00	2793	0.50	4.50	1.00	2.5	6983	41.21	287749
3	SB-3	417, 418, 416, 410, 411, 409, 413, 403/457, 403/456, 414, 403/455, 403/454, 403, 400	11.00	532	0.50	4.50	1.00	2.5	1330	41.21	54809
	SB-5	440 , 305	3.00	100	0.50	4.50	1.00	2.5	250	42.21	10553
7	SB-7	349, 348, 351, 199, 195, 165, 164,194, 192, 152,	13.50	630	0.50	4.50	1.00	2.5	1575	41.21	64906
8	SB-8	347, 346, 344, 342, 199, 200, 198, 194, 193, 190 ,98, 188, 187	20.30	984	0.50	4.50	1.00	2.5	2461	41.21	101397
9	SB-9	300, 295, 203, 213, 212, 211, 210, 207	14.10	665	0.50	4.50	1.00	2.5	1663	41.21	68512
10	SB-10	28, 286, 281, 279, 292, 278, 277, 226, 236, 231, 229, 227, 228	24.30	1197	0.50	4.50	1.00	2.5	2993	41.21	123321
11	SB-11	108, 110, 122, 158, 120, 119, 125, 123, 113, 112, 117, 172	20.20	998	0.50	4.50	1.00	2.5	2494	41.21	102767
12	SB-12	172, 160, 150, 156, 161, 170, 153, 149, 167, 163, 159, 158	15.30	865	0.50	4.50	1.00	2.5	2161	41.21	89065
14	SB-14	72, 71, 70, 68, 67, 50, 46, 49, 51, 53	19.20	931	0.50	4.50	1.00	2.5	2328	41.21	95916
<b>Kaccha Work</b>											<b>1122316</b>
<b>Pucca Work</b>											400000
<b>Total</b>			<b>220.40</b>						<b>27228</b>		<b>1522316</b>
<b>Afforestation</b>			45.4								122127
<b>Grand Total</b>			<b>466.30</b>						<b>53061.22</b>		<b>3133536</b>

## Gram Panchayat Name – Garehi

<b>Contour Bund</b>											
S. No.	Activity	Khasra No.	Area	Length	Top	Base	Height	C. S.	E. W.	Rate	Amount
1	CB-3	407, 321, 320, 319, 316	20.50	1220	0.45	2.25	0.6	0.81	988	39.20	38737
<b>Total</b>			<b>20.50</b>						<b>988</b>		<b>38737</b>
<b>Peripheral Bund</b>											
1	PB-6	292, 177, 186	27.60	1104	0.5	4.7	1.05	2.73	3014	41.21	124192
2	PB-7	297, 292, 298	13.30	532	0.5	4.7	1.05	2.73	1452	41.21	59852
3	PB-8	296, 295, 313, 294	16.60	665	0.5	4.7	1.05	2.73	1815	41.21	74815
4	PB-9	196, 193, 211, 197, 199, 200, 201, 202, 210, 211, 209, 208, 134, 207	40.60	1623	0.5	4.7	1.05	2.73	4430	41.21	182548
5	PB-10	224, 222, 211	13.30	532	0.5	4.7	1.05	2.73	1452	41.21	59852
6	PB-11	226, 237, 238, 252, 254, 255, 211, 133	26.60	1064	0.5	4.7	1.05	2.73	2905	41.21	119704
7	PB-12	116, 117, 118, 99, 100	10.00	399	0.5	4.7	1.05	2.73	1089	41.21	44889
8	PB-14	207, 142, 147, 146, 145, 143, 141, 148, 184	26.60	1064	0.5	4.7	1.05	2.73	2905	41.21	119704
9	PB-16	136, 141, 137, 138, 139, 140, 141, 135, 23	26.60	1064	0.5	4.7	1.05	2.73	2905	41.21	119704
10	PB-17	135, 111, 110	8.90	357	0.5	4.7	1.05	2.73	974	41.21	40159
11	PB-18	135, 115, 114, 100, 113, 112, 111, 109, 101, 102	20.00	798	0.5	4.7	1.05	2.73	2179	41.21	89778
<b>Kaccha Work</b>											<b>1035194</b>
<b>Pucca Work</b>											<b>690130</b>
<b>Total</b>			<b>230.10</b>						<b>25120</b>		<b>1725324</b>

<b>Submergence Bund</b>											
1	SB-4	311, 310, 331, 308, 307, 295, 323, 332, 313, 442, 445	27.60	1064	0.50	4.50	1.00	2.50	2660	41.21	109619
2	SB-5	299, 298, 300, 305, 301, 303, 302, 304, 445,	19.90	765	0.50	4.50	1.00	2.50	1913	41.21	78814
3	SB-6	175, 182, 173, 168, 167, 164	13.80	532	0.50	4.50	1.00	2.50	1330	41.21	54809
4	SB-7	351, 350, 349, 348, 195, 191, 192, 188, 189, 186	18.65	700	0.50	4.50	1.00	2.50	1750	42.21	73868
5	SB-13	113, 109, 112, 111, 110, 43, 108, 104, 105, 28, 26, 39, 42, 24, 27, 106, 34, 36, 31, 30, 29	48.00	1845	0.50	4.50	1.00	2.50	4613	41.21	190090
6	SB-15	87, 51, 52, 49, 20, 62, 65, 16, 54	51.90	1995	0.50	4.50	1.00	2.50	4988	41.21	205535
<b>Kaccha Work</b>											<b>712734</b>
<b>Pucca Work</b>											<b>475150</b>
<b>Total</b>			<b>179.85</b>						<b>17253</b>		<b>1187884</b>
<b>Afforestation</b>			119.55								744046
<b>Grand Total</b>			<b>550.00</b>						<b>43361</b>		<b>3695992</b>

## Gram Panchayat Name – Sondhi

<b>Peripheral Bund</b>											
S. No.	Activity	Khasra No.	Area	Length	Top	Base	Height	C. S.	E. W.	Rate	Amount
1	PB-1	868, 869, 872, 867, 866, 873, 918	16.50	931	0.50	4.70	1.05	2.73	2542	41.21	104741
2	PB-2	387, 358, 381, 380, 362, 361, 392, 326, 348, 874	27.60	1537	0.50	4.70	1.05	2.73	4195	41.21	172864
3	PB-3	456, 447, 392/634, 443, 442, 393, 394, 395, 879, 398, 392, 876, 911, 909, 916	29.50	1729	0.50	4.70	1.05	2.73	4720	41.21	194518
<b>Total</b>			<b>73.60</b>						<b>11457</b>		<b>472123</b>
<b>Submergence Bund</b>											
1	SB-1	469, 464, 457, 452, 455, 451, 450, 436	18.90	1011	0.50	4.50	1.00	2.50	2527	41.21	104138
2	SB-2	513, 479, 478, 477, 476, 480, 481, 431, 432	13.10	716	0.50	4.50	1.00	2.50	1790	41.21	73766
3	SB-3	210, 211, 215, 213	13.20	745	0.50	4.50	1.00	2.50	1862	41.21	76733
<b>Total</b>			<b>45.20</b>						<b>6179</b>		<b>254637</b>
<b>Culvert</b>		1 no.									125000
<b>Afforestation</b>			16.20								55441
<b>Grand Total</b>			<b>135.00</b>						<b>17636</b>		<b>907200</b>

### Gram Panchayat Name – Taharpur

<b>Submergence Bund</b>											
S. No.	Activity	Khasra No.	Area	Length	Top	Base	Height	C. S.	E. W.	Rate	Amount
1	SB-1	478, 479, 471, 462	1.20	90	0.50	4.50	1.00	2.50	225	42.21	9497
2	SB-2		6.80	500	0.50	4.50	1.00	2.50	1250	42.21	52763
3	SB-4	274, 280, 237, 238, 312, 310	9.30	665	0.50	4.50	1.00	2.50	1663	41.21	68512
4	SB-6	607, 608, 609, 629, 614, 618, 616, 569, 570	10.20	746	0.50	4.50	1.00	2.50	1865	41.21	76857
<b>Total</b>			<b>27.50</b>						<b>5003</b>		<b>207628</b>
<b>Afforestation</b>			<b>7.50</b>								<b>27572</b>
<b>Grand Total</b>			<b>35.00</b>						<b>5003</b>		<b>235200</b>

### Gram Panchayat Name – Kathpurva

<b>Submergence Bund</b>											
S. No.	Activity	Khasra No.	Area	Length	Top	Base	Height	C. S.	E. W.	Rate	Amount
5	SB-5	256, 258, 257, 252	12.90	532	0.50	4.50	1.00	2.50	1330	41.21	54809
10	SB-10	506, 502	7.60	300	0.50	4.50	1.00	2.50	750	42.21	31658
11	SB-11	172	9.70	399	0.50	4.50	1.00	2.50	998	41.21	41107
12	SB-12	188, 201, 202	12.90	532	0.50	4.50	1.00	2.50	1330	41.21	54809
	SB-13		7.10	280	0.50	4.50	1.00	2.50	700	42.21	29547
<b>Total</b>											<b>211930</b>
<b>Culvert</b>											<b>125414</b>
<b>Grand Total</b>			<b>50.20</b>						<b>5108</b>		<b>337344</b>

## Gram Panchayat Name – Kadaura

<b>Contour Bund</b>											
S. No.	Activity	Khasra No.	Area	Length	Top	Base	Height	C. S.	E. W.	Rate	Amount
1	CB-1	203, 200, 164, 161, 162, 163, 201, 195, 196, 156, 198, 199, 298, 297	9.60	844	0.45	2.25	0.60	0.81	684	39.20	26799
2	CB-2	804, 890, 884, 795, 778, 788, 777, 8196, 776, 965	16.20	1383	0.45	2.25	0.60	0.81	1120	39.20	43913
<b>Total</b>			<b>25.80</b>						<b>1804</b>		<b>70712</b>
3	MB-1	77, 78	10.30	550	0.5	4.7	1.05	2.73	1500	41.21	61833
<b>Kaccha Work</b>											<b>61833</b>
<b>Pucca Work</b>											<b>15500</b>
<b>Total</b>			<b>10.30</b>						<b>1500</b>		<b>77333</b>
<b>Peripheral Bund</b>											
4	PB-4	748, 750, 753, 751, 754, 697	13.50	798	0.50	4.70	1.05	2.73	2179	41.21	89778
5	PB-5	798, 921, 918, 877, 750, 876, 751, 756	16.10	931	0.50	4.70	1.05	2.73	2542	41.21	104741
6	PB-6	774, 760, 763, 759, 773, 751, 756, 758, 767	23.50	1357	0.50	4.70	1.05	2.73	3704	41.21	152622
7	PB-7	798, 791, 789, 790, 788, 777, 797, 751, 756	23.80	1410	0.50	4.70	1.05	2.73	3849	41.21	158607
8	PB-8	222, 237, 264, 226, 227, 257, 262, 225, 224, 223,, 229, 330	19.90	1209	0.50	4.70	1.05	2.73	3301	41.21	136016
9	PB-9	171, 210, 259, 167, 217, 169, 211, 212, 209, 172, 208, 306, 304, 195, 199, 222	27.95	1596	0.50	4.70	1.05	2.73	4357	41.21	179555
<b>Kaccha Work</b>											<b>821319</b>
<b>Pucca Work</b>											<b>205330</b>
<b>Total</b>			<b>124.75</b>						<b>19930</b>		<b>1026649</b>

<b>Submergence Bund</b>											
10	SB-3	620, 610, 621, 611, 657, 642, 656, 654, 638, 641, 649, 650, 637, 651, 627, 615	15.00	822	0.50	4.50	1.00	2.50	2055	41.21	84687
11	SB-4	116, 118, 126, 125, 124, 119, 122	14.90	798	0.50	4.50	1.00	2.50	1995	41.21	82214
12	SB-5	740, 733, 721, 731, 730, 727, 728, 693, 705, 729, 726, 696, 692, 711	25.60	1467	0.50	4.50	1.00	2.50	3668	41.21	151138
13	SB-10		2.10	120	0.50	4.50	1.00	2.50	300	42.21	12663
14	SB-6	744, 743, 742, 722, 724, 725, 734, 679, 701, 740, 683, 695, 680, 733, 681, 702, 694, 68, 677, 726, 711	33.70	1920	0.50	4.50	1.00	2.50	4800	41.21	197808
15	SB-6		8.90	475	0.50	4.50	1.00	2.50	1188	42.21	50124
16	SB-7	697, 747, 748, 749, 754, 687, 769, 723, 770, 742, 672, 134, 688, 695, 711	15.85	798	0.50	4.50	1.00	2.50	1995	41.21	82214
17	SB-8	160, 158, 157, 156, 199, 194, 195, 185, 187, 193, 190, 183, 152, 296, 289, 182	56.00	2926	0.50	4.50	1.00	2.50	7315	41.21	301451
18	SB-11		2.90	150	0.50	4.50	1.00	2.50	375	42.21	15829
<b>Kaccha Work</b>											<b>978127</b>
<b>Pucca Work</b>											<b>244500</b>
<b>Total</b>			<b>174.95</b>						<b>23690</b>		<b>1222627</b>
<b>Afforestation</b>			<b>39.20</b>								<b>122679</b>
<b>Grand Total</b>			<b>375.00</b>						<b>46924</b>		<b>2520000</b>

### Gram Panchayat Name – Naka

<b>Peripheral Bund</b>											
S. No.	Activity	Khasra No.	Area	Length	Top	Base	Height	C. S.	E. W.	Rate	Amount
1	PB-10	327, 328, 326, 315, 314, 310, 222, 407	9.40	150	0.50	4.70	1.05	2.73	410	41.21	16875
2	PB-11	251, 222, 248	3.20	62	0.50	4.70	1.05	2.73	168	41.21	6919
<b>Kaccha Work</b>											<b>23794</b>
<b>Total</b>			<b>12.60</b>						<b>577</b>		<b>23794</b>
<b>Submergence Bund</b>											
1	SB-9	323, 322, 325, 333, 324, 321, 326	10.00	151	0.50	4.50	1.00	2.50	378	41.21	15557
2	SB-10	347, 339, 334, 335	2.40	35	0.50	4.50	1.00	2.50	89	41.21	3649
<b>Kaccha Work</b>											<b>19205</b>
<b>Total</b>			<b>12.40</b>						<b>466</b>		<b>19205</b>
<b>Culvert</b>		1 no									125000
<b>Grand Total</b>			<b>25.00</b>						<b>1043</b>		<b>168000</b>

### Gram Panchayat Name – Parosa

<b>Peripheral Bund</b>											
S. No.	Activity	Khasra No.	Area	Length	Top	Base	Height	C. S.	E. W.	Rate	Amount
1	PB-1	599, 512, 509, 510, 507	10.20	665	0.50	4.70	1.05	2.73	1815	41.21	74815
2	PB-2	644, 645, 643, 632	5.10	319	0.50	4.70	1.05	2.73	871	41.21	35911
3	PB-3	575, 579, 582, 598, 577	10.20	665	0.50	4.70	1.05	2.73	1815	41.21	74815
<b>Total</b>			<b>25.50</b>						<b>4502</b>		<b>185540</b>
<b>Submergence Bund</b>											
1	SB-1	499, 504, 507	6.60	399.89	0.50	4.50	1.00	2.50	1000	41.21	41199
2	SB-2	563, 561, 689, 523, 554, 555, 707, 693, 708, 543, 542, 541, 557, 522, 528	20.40	1224	0.50	4.50	1.00	2.50	3059	41.21	126061
<b>Total</b>			<b>27.00</b>						<b>4059</b>		<b>167260</b>
<b>Grand Total</b>			<b>52.50</b>						<b>8561</b>		<b>352800</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>RS</b>	Remote Sensing
<b>GIS</b>	Geographical Information System
<b>GPS</b>	Global Positioning System
<b>CGL</b>	Common Guidelines
<b>PIA</b>	Project Implementing Agency
<b>BSA</b>	Bhoomi Sanrakshan 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>PB</b>	Peripheral Bund
<b>CD</b>	Check Dam

## **REFERENCES**

- Common Guideline of watershed development-2008.
- Jila Sankhikiya Patrika
- Census 2001
- [www.jalaun.nic.in](http://www.jalaun.nic.in)

## Preparation of DPR

Detail Project Report of Integrated Watershed Management Programme IWMP-XV had been prepared through base line/ bench Mark survey for Physiography climate, soil, land use, vegetation, and hydrology and socio economic data analysis. PRA have been exercised to collect primary data, secondary data have been collected from Revenue, Statistics department, Statistical Magazine of the district, Jalaun, Toposheet (1 : 50000) survey of India- Deheradoon and technical & specific input and health with preparation and drafting of detail project report.

<b>S. No.</b>	<b>Name</b>	<b>Designation</b>
1	Dharmendra kumar	B.S.A.
2	Babloo Kumar	T.A.
3	R. K. Gupta	Junior Engineer
4	K.K. Sharma	Junior Engineer
5	Ram Singh	Draftman
6	S. P. Dube	Accountant
7	Virendra Singh	Sr. Clerk
8	Indra pal singh	Sr. Clerk
9	Shivbhajan	Sr. Clerk
10	Sri A. K. Srivastava	M.D., Kalyani Geospatial, Lucknow
11	Dr. A. K. Kulshetra	Consultant, Kalyani Geospatial, Lucknow
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