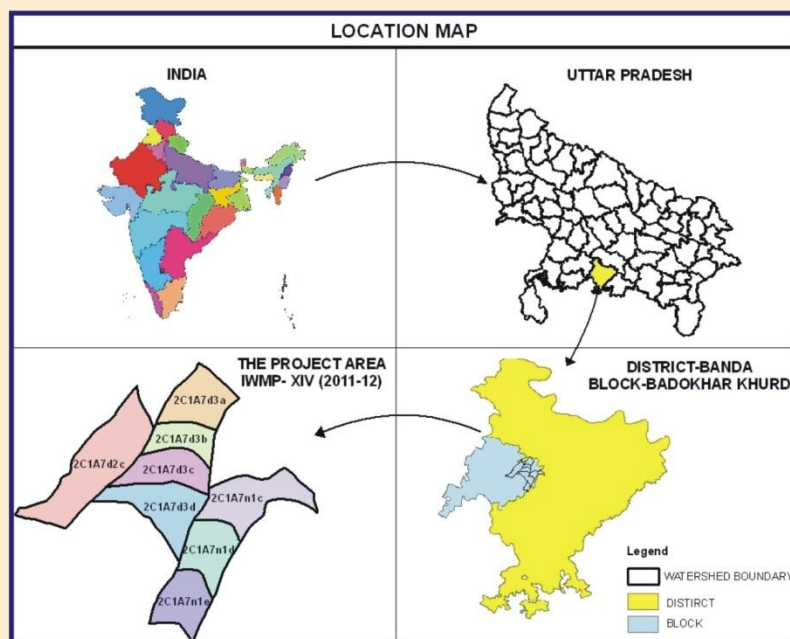


DETAILED PROJECT REPORT



OF INTEGRATED WATERSHED MANAGEMENT PROGRAMME-XIV BANDA (2011-12)



Prepared by :
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CERTIFICATE

It is certified that the proposed IWMP-XIV project comprising eight micro-watersheds of district Banda, 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-XIV for financial year 2011-12 is submitted for its approval and implementation.

Bhoomi Sanrakshan Adhikari

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EXECUTIVE SUMMARY

Integrated watershed management has come to be recognized internationally as an important holistic approach to natural resources management, which seeks to promote the concept of sustainable development. Such an integrated approach has been recommended by the Rain-fed Authority of India, to the management of water and land resources. The watershed approach has conventionally aimed at treating degraded lands with the help of low cost and locality accessed technologies such as in situ soil and moisture conservation measures, a forestation, etc. and through a participatory approach that seeks to secure close involvement of the user communities. The broad objective was the promotion of the overall economic development and improvement of the socio-economic conditions of the resource poor sections of people inhabiting the area included in the programme. A comprehensive programme named Integrated Watershed Management Programme (I.W.M.P.) has been implemented under Common Guidelines on Watershed Development in 2008.

The main objectives of the IWMP are to restore the ecological balance by harnessing, conserving and developing degraded natural resources such as soil, vegetative cover and water. The outcomes are prevention of soil run-off, regeneration of natural vegetation, rain water harvesting and recharging of the ground water table. This enables multi-cropping and the introduction of diverse agro-based activities, which help to provide sustainable livelihoods to the people residing in the watershed area. In addition, there is a Scheme of Technology Development, Extension and Training (TDET), also being implemented to promote development of cost effective and proven technologies to support watershed management. The entire study area falls in Bundelkhand region which is situated in Vindhyan hills, catchment of the Ken River.

All the micro watersheds of IWMP-14 (2011-12) are located in BADOKHAR block of Banda District of Uttar Pradesh. The extent of the Project area is 25°25'42"N to 25°33'31"N Latitude and 80°22'29" E To 80°32'00"E Longitude. The project area consists of Eight (8) micro watershed clusters. The total geographical area of the project is 7207.26 ha, Out of which 5620.50 ha is under rainfed. The total 5750 ha area has been proposed for the treatment. Total outlay of the project is Rs. 690.00 lakh under Integrated Watershed Development Programme. The project implementation agency (PIA) is Bhoomi Sanrakshan Adhikari, Dept. of Agriculture, Banda U.P.

The project area falls in agro-climatic zone of Bundelkhand Zone (ACZ-VI). The elevation of the project area is 114 to 128 m above mean sea levels.

The Soils in the project area are Parua, Kabar and Mar. Major crops in the watershed area are Arhar, Paddy, Jowar, and Bajra. In Rabi season Wheat, Gram and Mustard are grown in the area.

A detailed baseline survey was undertaken which involved household census survey, Bio-physical survey and Village level data collection from Talati – cum mantri. Household census survey includes a detailed questionnaire which has been filled by visiting each and every household in the village. This gave in the details of the demographic profile of the village, the literacy percentage, SC/ST population, number of BPL household, cattle population and net consumption rate in the village, average milk production of the cattle and various schemes running and their benefits.

Institutional arrangement like Watershed Committee (WC) and Self Help Group, User Group were constituted for active participation and co-operation for community development.

The Action plans like livelihood, Production system and Treatment area development plan have been prepared according to need of the project area.

Table-0.1: Project at a Glance IWMP-XIV (BANDA)

S. No.	Particulars	Details
1	Name of the State	Uttar Pradesh
2	Name of the project	IWMP - XIV
3	Name of the District	Banda
4	Names of the Blocks	Badokhar
5	No. of Micro Watershed	8
6	Code of Micro Watershed	2C1A7d2c, 2C1A7d3a, 2C1A7d3b, 2C1A7d3c, 2C1A7d3d, 2C1A7n1c, 2C1A7n1d, 2C1A7n1e.
7	No. of Gram Panchayats	17
8	No. of Villages covered	25
9	Four major reasons for selection of watershed	1. Population are poor 80% to 50% 2. Rain fed area is more than 60% 3.% of small and Marginal farmer>80% 4. Land with moderate production
10	Name, Address & Phone No. of the PIA(s)	VIJAY SINGH, Bhoomi Sanrakshan Adhikari (BSA), BANDA II, Mob. 9235629612
11	Area of the Project (ha)	7207.26
12	Rainfed Area (ha)	5620.50
13	Irrigated Area	1352.30
14	Area proposed to be treated (ha)	5750.00
15	Financial Year of sanction	2011 - 12
16	Project duration	2011- 12 to 2015-2016
17	Project Cost (Rs. in Lacs)	690.00
18	Date of Sanction of state authority	11/8/2011

Table-0.2: IWMP – XIV (2011-2012) DISTRICT BANDA
YEAR WISE PHASING OF IWMP WORKS (COMPONENTS - WISE)

District: BANDA

Starting Year: 2011-2012

Area: ha, Amount: Lacs

S. No.	Particulars	2010-11		2011-12		2012-13		2013-14		2014-15		Total	
		Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
1	Administrative Cost-10%	3.45	-	10.35	-	18.63	-	18.63	-	17.94	-	69.00	-
2	Monitoring -1%	-	-	1.38	-	1.38	-	1.38	-	2.76	-	6.90	-
3	Evaluation - 1%	-	-	2.07	-	1.21	-	1.21	-	2.41	-	6.90	-
4	Entry Point Activity- 4%	27.60	-	-	-	-	-	-	-	-	-	27.60	-
5	Institution & Capacity Building-5%	3.45	-	17.25	-	5.18	-	5.18	-	3.45	-	34.50	-
6	DPR-1%	6.90	-	-	-	-	-	-	-	-	-	6.90	-
7	Watershed Dev. Work- 56%	-	-	51.75	770	111.61	1661	111.61	1661	111.44	1658	386.40	5750
8	Livelihood Activity-9%	-	-	6.90	-	17.25	-	17.25	-	20.70	-	62.10	-
9	Production System & Micro Enterprises 10%	-	-	6.90	-	17.25	-	17.25	-	27.60	-	69.00	-
10	Consolidation-3%	-	-	-	-	-	-	-	-	20.70	-	20.70	-
	Total	41.40	-	96.60	770	172.50	1661	172.50	1661	206.99	1658	690.00	5750

Table 0.3: Budget for Various Components (IWMP-XIV, Banda)

S. No.	Budget Component	Total (Rs.)	Total (lakhs)
A.	1. Administrative	6,900,000	69.00
	2. Monitoring	690,000	6.90
	3. Evaluation	690,000	6.90
B.	PREPARATORY PHASE		
	1. Entry Point Activities (EPA)	2,760,000	27.60
	2. Institution and Capacity Building	3,450,000	34.50
	3. Detailed Project Report (DPR)	690,000	6.90
C.	WATERSHED WORKS PHASE		
	1. Watershed Development Works	38,640,000	386.40
	2. Livelihood Activities for the asset less persons	6,210,000	62.10
	3. Production System and Micro Enterprises.	6,900,000	69.00
D.	Consolidation Phase	2,070,000	20.70
	GRAND TOTAL	69,000,000	690.00

CHAPTER – 1

INTRODUCTION AND BACKGROUND

Table 1.1: Details of IWMP for which this DPR is Prepared

Watershed project IWMP –XIV of Banda	Micro Watersheds (MWS) detail	Micro watersheds code	Treatable Area (ha.)	Name of Watershed in which MWS is falling (River / Nala name)
IWMP -XIV of (Banda), 2011-12	Mahokhar	2C1A7d2c	1450	Ken River watershed
	Fatpurwa	2C1A7d3a	550	
	Jari I	2C1A7d3b	410	
	Jari II	2C1A7d3c	650	
	Jaurahi	2C1A7d3d	860	
	Bilbai	2C1A7n1c	600	
	Hathuda	2C1A7n1d	600	
	Kulkumhari	2C1A7n1e	630	
		Total	5750	

Table 1.2: Weightage of the project

Project name	Project Type	Weightage														Total Weightage (%)
IWMP- XIV BANDA II	IWMP- XIV	i	ii	iii	iv	v	vi	vii	viii	ix	x	xi	xii	xiii	Total	70
		7	3	5	10	5	0	15	10	10	15	10	15	0	105	

Table 1.3: 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)
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)	
	150	150	90	41	2.5

Strength, weakness, opportunity and threat (SWOT) analysis is a useful decision support tool, A SWOT analysis of the watershed is presented in Table below.

Table 1.4: SWOT analysis of the watershed

Strengths (S)	Weakness (W)
<ul style="list-style-type: none"> i. Cooperative work culture in traditional activities ii. Close ethnic ties iii. Road at the top as well as outlet of the watershed iv. Hard working v. Resource pool of crop genetics diversity vi. Awareness of farmers about watershed management programme vii. Well established CPR maintaining and sharing system viii. Good productivity of soil ix. Social outlook of the community towards land less 	<ul style="list-style-type: none"> i. Poor water management ii. Resource poor farmers iii. Out migration of youth iv. Low and erratic rainfall v. Fragile geography vi. Fragmented land holding vii. Heavy infestation of wild animals viii. Problem of fuel and fodder
Opportunities (O)	Threats (T)
<ul style="list-style-type: none"> i. Wide range of annual and perennial crops ii. Scope of regular employment opportunities to check out migration iii. Strengthening of existing irrigation system iv. Conducive climate for rainfed crop diversification v. Good scope for Agro forestry and dry land horticulture vi. Potential for collective action and management of CPR 	<ul style="list-style-type: none"> i. Prone to adverse climate like drought ii. High market risk iii. Social conflicts owing to PRI and WSM polices and local politics iv. Weak coordination among line departments v. Lack of expertise of implementing agency in different aspects of WSM

Table 1.5: WATERSHED INFORMATION

Name Of the Project	No. of water sheds to be treated	Watershed Code	Watershed regime/type/order
IWMP-XIV BANDA II	8	2C1A7d2c, 2C1A7d3a, 2C1A7d3b, 2C1A7d3c, 2C1A7d3d, 2C1A7n1c, 2C1A7n1d, 2C1A7n1e	Micro Watershed

The watershed falls under the semi arid region of Tropical climate. The average annual rain fall is about 544.40 mm. Most of the rainfall (about 90 %) is received during July to September. The intensity of Rainfall is moderate to high. The Temperature ranges from as high as 47.6°C in the month of May – June to as low as 3.3°C in December - January.

STATUS OF PREVIOUS WATERSHED PROGRAMMES AND OTHER DEVELOPMENTAL PROJECTS/SCHEMES RUNNING IN THE VILLAGES:

These villages of the project area being very backward therefore have been on top priority for a number of developmental projects. These programmes are Swarnajayanti Gram Swarojgar Yojana (SGSY) and Indira Awas Yojana (IAY).

The basic information regarding project area are given as under-

Table 1.6: Details of ongoing Development Programme

S. No.	Name of Programme	Implementing agency	Objectives of the programme	Year of Commencement	Villages covered	Project Cost
1	Swarnajayanti Gram Swarojgar Yojana (SGSY)	DRDA	Formulation of groups for weaker section of the BC/SC	On going	All the villages of the project area	-
2	Indira Awas Yojana (IAY)	DRDA	Provide low cast houses to the weaker section SC/ST	On going	All the villages of the project area	-

CHAPTER – 2

General Description of the Project Area

2.1: Location:-

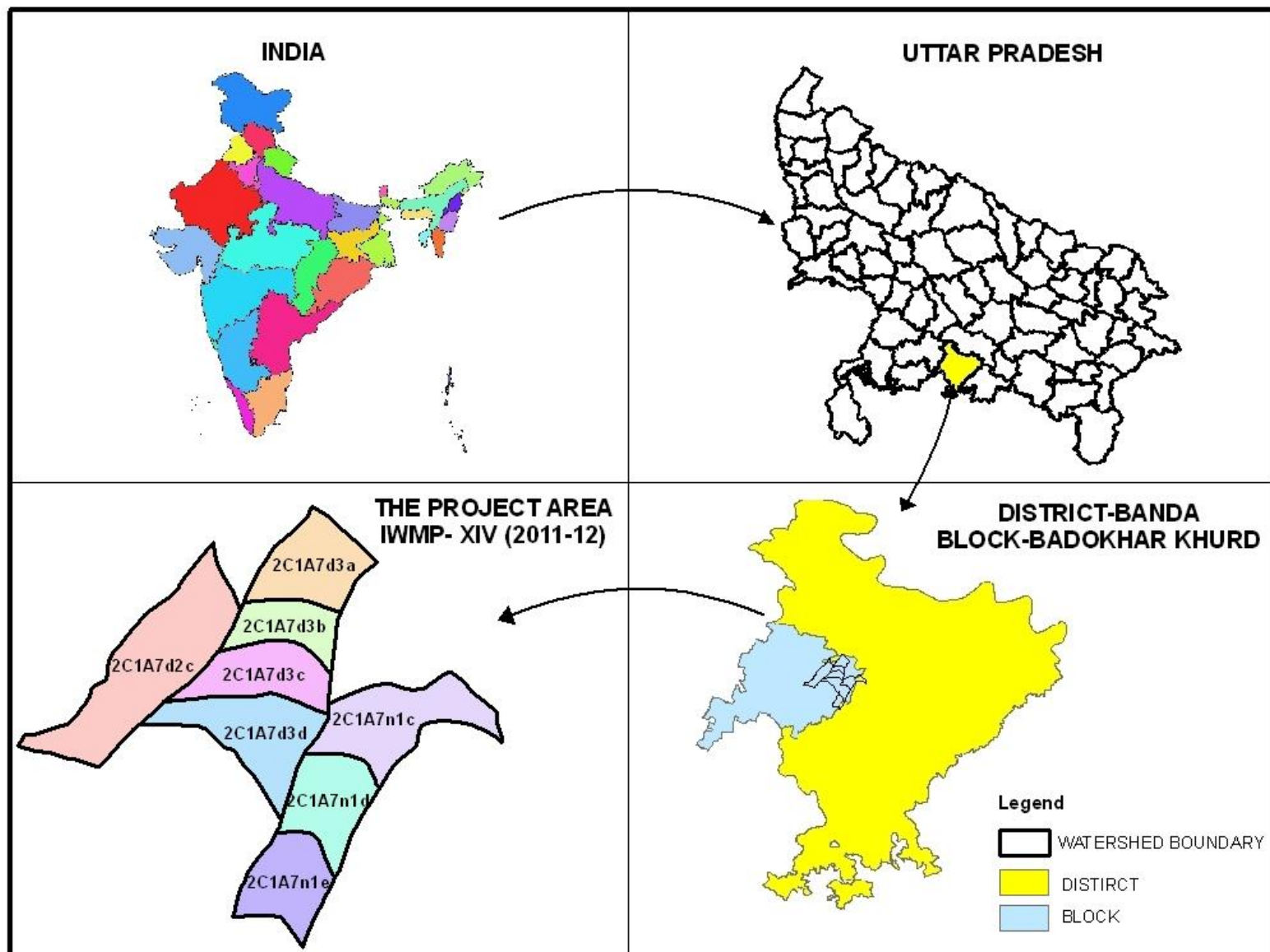
The micro-watershed of IWMP-XIV Banda is located in Badokhar Khurd block of the district. It is about 16 km. from district Headquarter on the Banda - Babaru road. The details of the location are given below:

Table 2.1: Micro-watershed wise details of location, Gram Panchayat, Villages and Geographical area

S. No.	Name of micro watershed with Code	Latitude / Longitude	Name of Gram Panchayat	Names of villages	Name of Block	Area of village included in MWS	Details of important /approach road with distance km
1	2	3	4	5	6		7
1	Jari I 2C1A7d3b	25°30'30N To 25°31'57N And 80°26'20E To 80°28'56E	Bilbai, Jari, Fatpurwa	Bilbai, Jari, Fatpurwa	Badokhar Khurd	410	On Banda -Babauru road-12kms On Banda -Babauru road-14kms
2	Fatpurwa 2C1A7d3a	25°31'37N To 25°33'37N And 80°26'50E To 80°29'29E	Saimara, Fatpurwa, Gorahawa, Jari	Kamanauri, Badeha, Saimara, Fatpurwa Gorahawa, Jari		550	
3	Mahokhar 2C1A7d2c	25°28'39N To 25°32'57N And 80°22'24E to 80°26'52E	Gureh, Jamunipur, Jari, MahoKhar, Pachnahi	Baragahni, Dadariya, Gureh Jamunipur, Jari, MahoKhar Pachnahi		1450	
4	Jari II 2C1A7d3c	25°29'45N to 25°31'12N and 80°25'23E to 80°28'37E	Bilbai, Jari, Jaurahi	Bilbai, Jari, Jaurahi		650	
5	Jaurahi 2C1A7d3d	25°27'58N to 25°30'16 N and 80°24'52E to 80°28'42	Jaurahi, Doha, Karbai, Bilbai, Jari	Jaurahi, Doha, Karbai, Bilbai, Jari, Dadariya, Rahunda		860	
6	Bilbai 2C1A7n1c	25°28'29N to 25°30'34N and 80°27'59E to 80°31'54E	Bilbai, Aliha, Maudaha Hathuda	Bilbai, Tilhata, Aliha Maudaha, Doha, Hathuda		600	
7	Hathuda 2C1A7n1d	25°26'58N to 25°29'22 and 80°27'30 E to 80°29'41E	Hathuda, Chhanehara Doha, Rehunda	Hathuda Tilehata, Chhanehara, Doha, Rehunda		600	
8	Kulkumhari 2C1A7n1e	25°25'42N To 25°32'57N And 80°22'24E to 80°26'52	Chhanerhara lalpur, Kulkumhari, Kurouli, Saheva, Rehunda	Chhanerhara lalpur Kulkumhari, Kurouli Saheva, Rehunda		630	

Table No-2.2: Location Map of the Area

LOCATION MAP



Exiting land use/land cover information is prerequisite of any future planning activities. Therefore an attempt has been made to prepare detail landuse map using large scale satellite data. The details of exiting land use categories are given below:

Table 2.3: Area under major land uses

S. No.	Name of micro watershed with Code	Name of village	Cultivated and wasteland area of the village (ha)				Area details (ha) (falling within the projects)								
			Cultivated rainfed area	Cultivated irrigated area	Uncultivated wasteland/ fallow		Pvt. Agri. Land					Plantation	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	16
1	Jari I/ 2C1A7d3b	Bilbai, Jari, Fatpurwa	400.77	22.94	9.23	27.53	144.06	93.22	0.00	186.43	423.71	2.75	20.19	18.35	501.76
2	Fatpurwa / 2C1A7d3a	Kamanauri, Badeha, Saimara, Fatpurwa, Gorahawa, Jari	537.61	59.71	12.39	71.66	203.09	131.41	0.00	262.82	597.33	7.17	52.55	47.77	788.85
3	Mahokhar / 2C1A7d2c	Baragahni, Dadariya, Gureh, Jamunipur, Jari, Mahokhar, Pachnahi	1417.34	63.31	32.66	75.97	503.42	325.74	0.00	651.49	1480.65	7.60	55.71	50.65	1703.23
4	Jari II / 2C1A7d3c	Bilbai, Jari, Jaurahi	635.36	20.57	14.64	24.68	223.02	144.30	0.00	288.61	655.93	2.47	18.10	16.45	732.27
5	Jaurahi / 2C1A7d3d	Jaurahi, Doha, Karbai, Bilbai, Jari, Dadariya, Rahunda	840.63	33.31	19.37	39.97	297.14	192.27	0.00	384.53	873.94	4.00	29.31	26.65	993.23
6	Bilbai / 2C1A7n1c	Bilbai, Tilhata, Aliha, Maudaha, Doha, Hathuda	586.49	109.01	13.51	130.81	236.47	153.01	0.00	306.02	695.49	13.08	95.92	87.20	1036.02
7	Hathuda / 2C1A7n1d	Hathuda Tilehata, Chhanehara, Doha, Rehunda	586.49	34.67	13.51	41.60	211.19	136.65	0.00	273.31	621.15	4.16	30.51	27.73	738.66
8	Kulkumhari / 2C1A7n1e	Chhanerhara lalpur, Kulkumhari, Kurouli, Saheva, Rehunda	615.81	20.80	14.19	24.96	216.45	140.06	0.00	280.11	636.61	2.50	18.31	16.64	713.21
		Total	5620.50	364.32	129.50	437.18	2034.84	1316.66	0.00	2633.32	5984.81	43.72	320.60	291.45	7207.26

Physiography: - The project area is situated in Bundelkhand zone which is almost undulating terrain. The elevation ranges from 114msl to 128 msl. The details of individual MWS is given below:

Table 2.4: Micro-watershed wise elevation range and relief

S. No.	Code of MWS	Name of MWS	Minimum	Maximum	Relief
1	2		3	4	5
1	2C1A7d3b	Jari I	120	128	8
2	2C1A7d3a	Fatpurwa	117	123	6
3	2C1A7d2c	Mahokhar	120	128	8
4	2C1A7d3c	Jari II	120	126	6
5	2C1A7d3d	Jaurahi	121	125	4
6	2C1A7n1c	Bilbai	114	126	12
7	2C1A7n1d	Hathuda	119	125	6
8	2C1A7n1e	Kulkumhari	123	128	5

Slope

An attempt has been made to prepare the slope map of the study area using SRTM elevation model. The details of micro watershed wise slope range are given below:

Table 2.5: Slope classes in the MWS IWMP-XIV

S. No.	Name of MWS & code	Slope range wise area (ha)						
		0-05%	0.5-1.0%	1-3%	3-5%	>5%		Others
						Undulating	Terraced	Specify
1	2	3	4	5	6	7	8	9
1	Jari I/2C1A7d3b	69.616	101.201	509.292	31.542	1.56		
2	Fatpurwa /2C1A7d3a	83.147	98.338	563.968	41.058	2.347		
3	Mahokhar/2C1A7d2c	224.18	269.36	1169.03	40.261	0.4		
4	Jari II/2C1A7d3c	76.472	104.693	492.64	53.881	4.584		
5	Jaurahi/2C1A7d3d	123.62	161.101	684.835	23.434	0.24		
6	Bilbai/2C1A7n1c	84.811	117.678	724.659	102.46	6.416		
7	Hathuda/2C1A7n1d	72.871	100.817	516.914	44.785	2.28		
8	Kulkumhari/2C1A7n1e	69.616	101.201	509.292	31.542	1.56		
Total		804.333	1054.389	5170.63	368.963	19.387		

Climate:-

The climate of project area is of typical Central Indian climate, with mild winters and hot summers. Hot wave flows during May and 1st week of June locally designated as "Loo". The temperature during summer goes up to 46°C. The rainy season is limited to 1½ - 2 months of July and August only. Winter rain fall is rare. Average rain fall is 600 - 700 mm but concentrated only during July – August. Most of the rain fall is run-off due to rocky nature of the soil.

The yearly season may be divided into four: The cold season from mid November to February is followed by the summer season from March to mid June. The period from mid June to the end of September is the south-west monsoon season and the October and the first half of November constitute the post-monsoon season.

TEMPERATURE: -

From mid November there is a rapid fall in temperature. January is the coldest month with the mean daily maximum temperature at 22.8° C and the mean daily minimum temperature at 9.3° C. In association with cold waves in the wake of the western disturbances passing eastwards in the winter season, temperature tends to go down to a degree or two above the freezing point. Day temperature begins to rise rapidly after February. May is the hottest with mean daily maximum temperature at 38.4 C and the mean daily minimum at 25.1° C. With the advent of the monsoon by about the middle of June there is appreciable drop in the day temperature, however, the nights continue to be warm. In September there is a slight increase again in the day temperature but the night temperature decreases after September. With the withdrawal of monsoon by the beginning of October it decreases progressively.

HUMIDITY: -

During the monsoon and the post monsoon seasons the relative humidity are high ranging between 70 and 85 per cent. In the winter months humidity decreases and in summer the air is comparatively drier.

Table 2.6: Average monthly rainfall and Temperature of the last seven years:-

Month	Year/Rainfall in mm.							
	2004	2005	2006	2007	2008	2009	2010	Average
January	8.10	0.00	0.00	0.00	0.00	0.00	7.30	2.20
February	0.00	3.90	0.00	88.00	0.00	4.80	24.10	17.26
March	0.00	14.26	22.60	29.10	0.00	0.00	0.00	9.42
April	5.20	0.00	0.00	0.00	0.00	0.00	0.00	0.74
May	6.60	13.60	16.00	0.00	8.60	48.30	2.30	13.63
June	167.30	39.80	56.40	27.20	274.80	13.40	6.05	83.56
July	88.45	210.30	291.20	91.30	335.70	140.17	154.60	187.39
August	170.90	177.30	148.10	165.80	143.52	125.90	123.90	150.77
September	64.10	152.60	20.30	79.80	204.50	106.10	140.90	109.76
October	184.00	0.00	17.10	0.00	5.90	66.90	0.00	39.13
November	0.00	0.00	2.20	0.00	9.80	18.20	0.00	4.31
December	0.00	13.20	0.00	0.00	0.00	7.30	0.00	2.93
Total	694.65	624.96	573.9	481.2	982.82	531.07	459.15	621.1

CHAPTER – 3

Baseline Survey

SOCIO-ECONOMIC CONDITION OF THE PROJECT

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

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.

DEMOGRAPHIC INFORMATION

Human Population

The total population of the study area is about 61989, residing in the 25 villages of the project area, with average family size of 6 persons.

Table 3.1: Demographic Features in the project area

S. No.	Name of Micro Watershed	Name of village	Total Population			Population of SC/ST		
			Total	Male	Female	Total	Male	Female
1	2	3	4	5	6	7	8	9
1	Jari II	Bilbai	1845	960	885	184	96	88
		Jari	6233	3303	2930	630	334	296
		Joorahi	3183	1687	1496	222	118	104
2	Mahokhar	Baragahni	1920	998	922	170	90	80
		Dadariya	625	325	300	301	160	141
		Gurh	2160	1123	1037	370	192	178
		Jamunipur	1349	715	634	625	325	300
		Mahokhar	9508	5039	4469	2850	1510	1340
		Pachnahi	7560	4000	3553	850	451	399
3	Fatpurwa	Kamanauri	520	270	250	80	42	38
		Badeha	485	257	228	46	24	22
4	Jari I	Goharwa	75	36	36	22	12	10
		Saimara	1260	670	590	135	70	65
5	Kulkumhari	Chhanehara	3807	2017	1790	550	286	264
		Kulkumhari	1874	993	881	162	86	76
		Kurooli	1332	693	639	352	183	169
		Rehunda	-	-	-	-	-	-
		Saheva	3115	1465	1465	589	312	277
6	Joorahi	doha	1247	599	599	328	174	154
		Karbai	2563	1205	1205	696	369	327
7	Hathoora	Hathoora	2866	1347	1347	872	473	419
		Tilehata	-	-	-	-	-	-
8	Bilbai	Aliha	5457	2619	2619	1326	670	656
		Moudaha	1480	696	696	163	86	77
		Total	61989	31017	29303	11893	6253	5660

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

S. No.	Names of Watershed	Name of village	No. of persons migrating	No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs. in lakh)
1	2	3	4	5	6		7	8
1	Jari II	Bilbai	336	6 months	Lack of employment, less wages, Higher wages outside Lack of employment, less wages, Higher wages outside	150-500 km	Labour	0.25 to 0.50
		Jari	1156	6 months		150-500 km	Labour	0.25 to 0.50
		Joorahi	590	6 months		150-500 km	Labour	0.25 to 0.50
2	Mahokhar	Baragahni	349	6 months		150-500 km	Labour	0.25 to 0.50
		Dadariya	114	6 months		150-500 km	Labour	0.25 to 0.50
		Gurh	393	6 months		150-500 km	Labour	0.25 to 0.50
		Jamunipur	250	6 months		150-500 km	Labour	0.25 to 0.50
		Mahokhar	1764	6 months		150-500 km	Labour	0.25 to 0.50
		Pachnahi	1400	6 months		150-500 km	Labour	0.25 to 0.50
						150-500 km	Labour	0.25 to 0.50
3	Fatpurwa	Kamanauri	95	6 months		150-500 km	Labour	0.25 to 0.50
		Badeha	90	6 months		150-500 km	Labour	0.25 to 0.50
4	Jari I	FatPurwa	13	6 months		150-500 km	Labour	0.25 to 0.50
		Goharwa	235	6 months		150-500 km	Labour	0.25 to 0.50
		Saimara	706	6 months		150-500 km	Labour	0.25 to 0.50
5	Kulkumhari	Chhanehara	348	6 months		150-500 km	Labour	0.25 to 0.50
		Kulkumhari	243	6 months		150-500 km	Labour	0.25 to 0.50
		Kurooli						
		Rehunda	513	6 months		150-500 km	Labour	0.25 to 0.50
		Saheva	210	6 months		150-500 km	Labour	0.25 to 0.50
6	Joorahi	doha	422	6 months		150-500 km	Labour	0.25 to 0.50
		Karbai	471	6 months		150-500 km	Labour	0.25 to 0.50
7	Hathoora	Hathoora						
		Tilehata	917	6 months		150-500 km	Labour	0.25 to 0.50
8	Bilbai	Aliha	244	6 months		150-500 km	Labour	0.25 to 0.50
		Moudaha	336	6 months		150-500 km	Labour	0.25 to 0.50

Table 3.3: Soil Texture:-

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)	Treatable Area	Others specify
1	Jari I 2C1A7d3b	290	725	435	1450	Rakar, Kabar, Mar, Padwa
2	Fatpurwa 2C1A7d3a	110	275	165	550	Rakar, Kabar, Mar, Padwa
3	Mahokhar 2C1A7d2c	82	205	123	410	Rakar, Kabar, Mar, Padwa
4	Jari II 2C1A7d3c	130	325	195	650	Rakar, Kabar, Mar, Padwa
5	Jaurahi 2C1A7d3d	172	430	258	860	Rakar, Kabar, Mar, Padwa
6	Bilbai 2C1A7n1c	120	300	180	600	Rakar, Kabar, Mar, Padwa
7	Hathuda 2C1A7n1d	120	300	180	600	Rakar, Kabar, Mar, Padwa
8	Kulkumhari 2C1A7n1e	126	315	189	630	Rakar, Kabar, Mar, Padwa
Total		1150	2875	1725	5750	

Table 3.4: Details of land holding pattern in the project areas *

S. No.	Name of Villages	Land holding classification				
		Marginal	Small	Others	Landless	Total
1	Bilbai	190	35	68	15	308
2	Jari	272	75	208	48	409
3	Joorahi	134	42	52	32	260
4	Baragahni	75	26	18	12	131
5	Dadariya	65	23	15	8	111
6	Gureh	205	57	66	25	353
7	Jamunipur	65	17	15	16	113
8	Mahokhar	210	82	198	37	527
9	Pachnahi	272	90	162	52	576
10	Kamanauri	105	75	25	23	228
11	Badeha	74	22	30	15	141
12	FatPurwa	220	27	46	28	321
13	Goharwa	4	3	2	2	11
14	Saimara	165	30	32	27	254
15	Chhanehara	26	70	8	7	111
16	Kulkumahari	24	65	11	8	108
17	Saheva	65	140	45	35	285
18	Doha	15	35	17	7	74
19	Karbai	34	55	35	15	139
20	Kurooli	20	38	19	10	87
21	Rehunda	-	-	-	-	-
22	Hathoora	25	48	12	19	104
23	Tilehata	-	-	-	-	-
24	Aliha	85	235	115	65	500
25	Moudaha	33	63	12	14	122
	Total	2383	1353	1211	520	5273

Table 3.5: Major Crops, their Productivity and Production

S. No.	Crop.	Area (ha)		Productivity (q/ha)		Production (q)			
						Grain/Main product		Fodder/Fuel/other Product	
		Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Paddy	625.20	2505.80	16	12	10003.20	30069.60	15004.80	45104.40
2	Maize	0.00	135.90	-	3.5	0.00	475.65	0.00	713.48
3	Arhar	0.00	520.60	-	7.50	0.00	3904.50	0.00	5856.75
4	Urd/Moong	0.00	241.30	-	5	0.00	1206.50	0.00	1206.50
	Total	625.20	3403.60			10003.20	35656.25	15004.80	52881.13
B	Rabi								
1	Wheat	639.25	1435.00	13	11	8310.25	15785.00	12465.38	23677.50
2	Barley	55.80	225.80	9	7	502.20	1580.60	753.30	2370.90
3	Masoor	0.00	256.50	-	4.8	0.00	1231.20	0.00	1539.00
4	Gram	0.00	320.40	-	6.5	0.00	2082.60	0.00	2603.25
5	Pea	0.00	7.50	-	8.0	0.00	60.00	0.00	60.00
6	Mustard	235.90	510.23	5.5	4.5	1297.45	2296.04	2944.76	3444.05
	Total	930.95	2755.43						
C	Zaid								
	Cultivable Area	5984.82	Cropping Intensity			128.91			

Summary It was found that the productivity of wheat, Gram, Paddy, Arhar and Masoor are mainly grown in the project area. Overall cropping intensity of the project area is 102.53%.

MWS Code: 2C1A7d2c

MWS Name: Mahokhar

S. No.	Crop.	Area (ha)		Productivity (q/ha)		Production (q)			
						Grain/Main product		Fodder/Fuel/other Product	
		Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Paddy	157.92	579.16	16	12	2526.65	6949.95	3789.97	10424.93
2	Maize	0.00	52.50	-	3.5	0.00	183.75	0.00	275.62
3	Arhar	0.00	131.37	-	7.50	0.00	985.25	0.00	1477.88
4	Urd/Moong	0.00	72.14	-	5	0.00	360.71	0.00	360.71
	Total	157.92	835.17			2526.65	8479.66	3789.97	12539.14
B	Rabi								
1	Wheat	145.63	429.02	13	11	1893.16	4719.23	2839.74	7078.84
2	Barley	16.29	68.05	9	7	146.64	476.32	219.97	714.48
3	Masoor	0.00	81.77	-	4.8	0.00	392.49	0.00	490.61
4	Gram	0.00	85.83	-	6.5	0.00	557.92	0.00	697.40
5	Pea	0.00	2.24	-	8.0	0.00	17.94	0.00	17.94
6	Mustard	72.14	133.88	5.5	4.5	396.78	602.45	800.84	903.68
	Total	234.06	800.79						
C	Zaid								
	Cultivable Area	1480.65	Cropping Intensity			136.96			

MWS Code: 2C1A7d3a**MWS Name: Fatpurwa**

S. No.	Crop.	Area (ha)		Productivity (q/ha)		Production (q)			
						Grain/Main product		Fodder/Fuel/other Product	
		Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Paddy	54.40	252.68	16	12	870.38	3032.19	1305.58	4548.28
2	Maize	0.00	19.91	-	3.5	0.00	69.70	0.00	104.55
3	Arhar	0.00	49.83	-	7.50	0.00	373.72	0.00	560.57
4	Urd/Moog	0.00	27.36	-	5	0.00	136.82	0.00	136.82
	Total	54.40	349.79			870.38	3612.42	1305.58	5350.22
B	Rabi								
1	Wheat	55.24	151.73	13	11	718.10	1669.05	1077.14	2503.58
2	Barley	6.18	25.81	9	7	55.62	180.67	83.44	271.01
3	Masoor	0.00	31.02	-	4.8	0.00	148.87	0.00	186.09
4	Gram	0.00	38.06	-	6.5	0.00	247.38	0.00	309.22
5	Pea	0.00	0.85	-	8.0	0.00	6.80	0.00	6.80
6	Mustard	27.36	45.28	5.5	4.5	150.50	203.77	279.02	305.65
	Total	88.78	292.75						
C	Zaid								
	Cultivable Area	597.33	Cropping Intensity			131.54			

MWS Code: 2C1A7d3b

MWS Name: Jari I

S. No.	Crop.	Area (ha)		Productivity (q/ha)		Production (q)			
						Grain/Main product		Fodder/Fuel/other Product	
		Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Paddy	40.55	171.96	16	12	648.83	2063.56	973.25	3095.34
2	Maize	0.00	14.84	-	3.5	0.00	51.96	0.00	77.93
3	Arhar	0.00	37.15	-	7.50	0.00	278.59	0.00	417.88
4	Urd/Moog	0.00	16.71	-	5	0.00	83.54	0.00	83.54
	Total	40.55	240.66			648.83	2477.65	973.25	3674.70
B	Rabi								
1	Wheat	53.48	96.71	13	11	695.21	1063.80	1042.81	1595.70
2	Barley	4.61	19.24	9	7	41.46	134.68	62.20	202.02
3	Masoor	0.00	16.56	-	4.8	0.00	79.49	0.00	99.36
4	Gram	0.00	24.68	-	6.5	0.00	160.42	0.00	200.53
5	Pea	0.00	0.63	-	8.0	0.00	5.07	0.00	5.07
6	Mustard	14.66	33.76	5.5	4.5	80.62	151.90	192.21	227.85
	Total	72.74	191.58						
C	Zaid								
	Cultivable Area	423.71	Cropping Intensity			128.75			

MWS Code: 2C1A7d3c

MWS Name: Jari II

S. No.	Crop.	Area (ha)		Productivity (q/ha)		Production (q)			
						Grain/Main product		Fodder/Fuel/other Product	
		Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Paddy	83.79	253.12	16	12	1340.64	3037.50	2010.95	4556.25
2	Maize	0.00	23.53	-	3.5	0.00	82.37	0.00	123.55
3	Arhar	0.00	71.89	-	7.50	0.00	539.16	0.00	808.75
4	Urd/Moog	0.00	32.34	-	5	0.00	161.70	0.00	161.70
	Total	83.79	380.89			1340.64	3820.73	2010.95	5650.24
B	Rabi								
1	Wheat	84.78	153.32	13	11	1102.16	1686.52	1653.24	2529.77
2	Barley	7.30	24.00	9	7	65.74	168.02	98.61	252.03
3	Masoor	0.00	32.75	-	4.8	0.00	157.22	0.00	196.53
4	Gram	0.00	39.13	-	6.5	0.00	254.33	0.00	317.91
5	Pea	0.00	1.01	-	8.0	0.00	8.04	0.00	8.04
6	Mustard	32.34	66.51	5.5	4.5	177.87	299.31	388.25	448.97
	Total	124.42	316.72						
C	Zaid								
	Cultivable Area	655.93	Cropping Intensity			138.10			

MWS Code: 2C1A7d3d**MWS Name: Jaurahi**

S. No.	Crop.	Area (ha)		Productivity (q/ha)		Production (q)			
						Grain/Main product		Fodder/Fuel/other Product	
		Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Paddy	59.26	334.90	16	12	948.16	4018.84	1422.24	6028.26
2	Maize	0.00	39.74	-	3.5	0.00	139.08	0.00	208.62
3	Arhar	0.00	95.11	-	7.50	0.00	713.36	0.00	1070.04
4	Urd/Moog	0.00	42.79	-	5	0.00	213.94	0.00	213.94
	Total	59.26	512.54			948.16	5085.22	1422.24	7520.86
B	Rabi								
1	Wheat	60.57	177.05	13	11	787.44	1947.59	1181.16	2921.38
2	Barley	9.66	40.36	9	7	86.98	282.51	130.46	423.76
3	Masoor	0.00	48.50	-	4.8	0.00	232.79	0.00	290.98
4	Gram	0.00	59.51	-	6.5	0.00	386.80	0.00	483.51
5	Pea	0.00	1.33	-	8.0	0.00	10.64	0.00	10.64
6	Mustard	34.19	53.60	5.5	4.5	188.03	241.22	335.23	361.83
	Total	104.42	380.35						
C	Zaid								
	Cultivable Area	873.94	Cropping Intensity			120.90			

MWS Code: 2C1A7n1c**MWS Name: Bilbai**

S. No.	Crop.	Area (ha)		Productivity (q/ha)		Production (q)			
						Grain/Main product		Fodder/Fuel/other Product	
		Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Paddy	77.34	299.65	16	12	1237.51	3595.84	1856.26	5393.76
2	Maize	0.00	21.72	-	3.5	0.00	76.03	0.00	114.05
3	Arhar	0.00	66.36	-	7.50	0.00	497.69	0.00	746.54
4	Urd/Moog	0.00	29.85	-	5	0.00	149.26	0.00	149.26
	Total	77.34	417.59			1237.51	4318.82	1856.26	6403.61
B	Rabi								
1	Wheat	78.26	177.53	13	11	1017.38	1952.78	1526.07	2929.18
2	Barley	6.74	28.16	9	7	60.68	197.10	91.02	295.65
3	Masoor	0.00	33.84	-	4.8	0.00	162.41	0.00	203.01
4	Gram	0.00	41.52	-	6.5	0.00	269.86	0.00	337.33
5	Pea	0.00	0.93	-	8.0	0.00	7.42	0.00	7.42
6	Mustard	29.85	61.40	5.5	4.5	164.18	276.29	358.38	414.44
	Total	114.85	343.36						
C	Zaid								
	Cultivable Area	695.49	Cropping Intensity			137.05			

MWS Code: 2C1A7n1d

MWS Name: Hathuda

S. No.	Crop.	Area (ha)		Productivity (q/ha)		Production (q)			
						Grain/Main product		Fodder/Fuel/other Product	
		Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Paddy	48.54	275.65	16	12	776.71	3307.84	1165.06	4961.76
2	Maize	0.00	21.72	-	3.5	0.00	76.03	0.00	114.05
3	Arhar	0.00	60.36	-	7.50	0.00	452.69	0.00	679.04
4	Urd/Moog	0.00	24.45	-	5	0.00	122.26	0.00	122.26
	Total	48.54	382.19			776.71	3958.82	1165.06	5877.11
B	Rabi								
1	Wheat	60.26	174.53	13	11	783.38	1919.78	1175.07	2879.68
2	Barley	6.14	28.16	9	7	55.28	197.10	82.92	295.65
3	Masoor	0.00	33.84	-	4.8	0.00	162.41	0.00	203.01
4	Gram	0.00	29.52	-	6.5	0.00	191.86	0.00	239.83
5	Pea	0.00	0.93	-	8.0	0.00	7.42	0.00	7.42
6	Mustard	24.05	48.20	5.5	4.5	132.25	216.89	283.01	325.34
	Total	90.45	315.16						
C	Zaid								
	Cultivable Area	621.15	Cropping Intensity			134.64			

MWS Code: 2C1A7n1e**MWS Name: Kulkumhari**

S. No.	Crop.	Area (ha)		Productivity (q/ha)		Production (q)			
						Grain/Main product		Fodder/Fuel/other Product	
		Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Paddy	51.02	245.34	16	12	816.39	2944.04	1224.58	4416.05
2	Maize	0.00	19.03	-	3.5	0.00	66.60	0.00	99.91
3	Arhar	0.00	54.17	-	7.50	0.00	406.25	0.00	609.38
4	Urd/Moog	0.00	31.34	-	5	0.00	156.72	0.00	156.72
	Total	51.02	349.88			816.39	3573.61	1224.58	5282.06
B	Rabi								
1	Wheat	82.17	186.40	13	11	1068.25	2050.42	1602.37	3075.63
2	Barley	7.08	29.56	9	7	63.71	206.95	95.57	310.43
3	Masoor	0.00	35.53	-	4.8	0.00	170.53	0.00	213.16
4	Gram	0.00	43.59	-	6.5	0.00	283.36	0.00	354.20
5	Pea	0.00	0.97	-	8.0	0.00	7.79	0.00	7.79
6	Mustard	31.34	64.47	5.5	4.5	172.39	290.11	376.30	435.16
	Total	120.60	360.53						
C	Zaid								
	Cultivable Area	636.61	Cropping Intensity			138.55			

Table 3.6: Horticulture Status

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

S. N.	Name of micro watershed with code	Name of village	Name of Important horticultural crop						
			Whole Fruit Crop				Scattered Fruit Crop		
			Name	Area ha	Productivity q/ha	Production q	No.	Productivity q/No.	Production q
1	2	3	4	5	6		7	8	
1	Jari I 2C1A7d3b	Bilbai Jari, Fatpurwa	Guava Amla	2.03 4.00	42.00 60.00	85.26 240.00	58	0.30	17.40
2	Fatpurwa 2C1A7d3a	Kamanauri, Badeha Saimara, Fatpurwa Gorahawa, Jari	Guava Amla	2.00 3.80	41.00 58.00	82.00 220.40	55	0.30	16.50
3	Mahokhar 2C1A7d2c	Baragahni, Gureh Dadariya, Pachnahi Jamunipur, Jari Mahokhar	Guava Amla	1.50 3.00	40.00 60.00	60.00 180.00	45	0.30	13.50
4	Jari II 2C1A7d3c	Bilbai, Jari, Jaurahi	Guava Amla	1.60 1.50	38.00 50.00	60.80 75.00	46	0.30	13.80
5	Jaurahi 2C1A7d3d	Jaurahi, Doha, Jari Karbai, Bilbai, Dadariya, Rahunda	Guava Amla	1.50 1.30	40.00 58.00	60.00 75.40	35	0.30	10.50
6	Bilbai 2C1A7n1c	Bilbai, Tilhata, Aliha Maudaha, Doha Hathuda	Guava Amla	2.01 3.00	40.00 60.00	80.00 180.00	55	0.30	16.5
7	Hathuda 2C1A7n1d	Hathuda Tilehata Chhanehara, Doha Rehunda	Guava Amla	2.00 3.50	42.00 58.00	84.00 203.00	51	0.30	15.30
8	Kulkumhari 2C1A7n1e	Chhanerhara lalpur Kulkumhari, Kurouli Saheva, Rehunda	Guava Amla	1.80 2.50	38.00 61.00	68.40 152.50	54	0.30	16.20

Table 3.7: Forest, Vegetative Cover/Grass Land

S. No.	Name & Code of Micro watershed	Name of Village	Forest (Area ha)			Grass Land (Area ha)		Other vegetative cover (Area ha)	
			Reserve	Gram Samaj (Natural/Planted)	Total	Gram Samaj	Private	Gram Samaj	Private
1	2	3	4	5	6	7		8	9
1	Jari I 2C1A7d3b	Bilbai, Jari Fatpurwa	-	-	-	17.30	-	-	-
2	Fatpurwa 2C1A7d3a	Kamanauri, Badeha, Saimara, Fatpurwa, Gorahawa, Jari	-	-	-	13.20	-	-	-
3	Mahokhar 2C1A7d2c	Baragahni, Dadariya Gureh, Jamunipur, Jari, MahoKhar, Pachnahi	-	-	-	25.00	-	-	-
4	Jari II 2C1A7d3c	Bilbai, Jari, Jaurahi	-	-	-	28.00	-	-	-
5	Jaurahi 2C1A7d3d	Jaurahi, Doha, Karbai Bilbai, Jari, Dadariya Rahunda	-	-	-	3.30	-	-	-
6	Bilbai 2C1A7n1c	Bilbai, Tilhata, Aliha, Maudaha, Doha, Hathuda	-	-	-	22.20	-	-	-
7	Hathuda 2C1A7n1d	Hathuda Tilehata, Chhanehara, Doha, Rehunda	-	-	-	22.03	-	-	-
8	Kulkumhari 2C1A7n1e	Chhanerhara Ialpur Kulkumhari, Kurouli Saheva, Rehunda	-	-	-	13.40	-	-	-

Livestock Population

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

Table 3.8: livestock population in IWMP XIV, BANDA

All Figure in No.

S. No.	Village Name	Total Population	Cow		Buffalo		Goat	Sheep	Chicken	Pig
			Desi	H.breed	Desi	Murrah				
1	Bilbai	363	60	9	95	10	75	7	88	20
2	Jari	1062	175	26	235	24	280	12	226	84
3	Joorahi	144	26	4	38	4	18	4	34	16
4	Baragahni	259	35	5	60	6	70	5	54	23
5	Dadariya	228	42	6	51	5	55	6	46	16
6	Gureh	308	84	13	79	8	41	11	73	-
7	Jamunipur	148	26	4	42	4	30	6	36	-
8	Mahokhar	975	176	26	210	21	221	7	208	105
9	Pachnahi	839	186	28	165	17	232	17	159	35
10	Kamanauri	238	31	5	50	5	86	7	43	12
11	Badeha	182	26	4	48	5	52	3	44	-
12	FatPurwa	272	53	8	72	7	43	7	66	16
13	Goharwa	102	22	3	26	3	21	3	24	-
14	Saimara	220	64	10	57	6	23	3	58	-
15	Chhanehara	492	115	17	127	13	88	13	119	-
16	Kulkumahari	113	21	3	24	2	8	1	24	30
17	Saheva	521	102	15	117	12	94	7	114	60
18	Doha	639	133	20	151	15	89	11	145	75
19	Karbai	49	12	2	13	1	7	2	12	-
20	Kurooli	347	79	12	86	9	72	8	81	-
21	Rehunda	0	-	-	-	-	-	-	-	-
22	Hathoora	36	8	1	11	1	4	1	10	-
23	Tilehata	0	-	-	-	-	-	-	-	-
24	Aliha	91	12	2	13	1	7	2	35	19
25	Moudaha	381	79	12	86	9	72	8	81	34
	Total	8006	1567	235	1856	186	1688	151	1778	545

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				
1	2	3	4	5	6	7	8	9	10
1	Bilbai	2	5	3	7	10-15	1.0 - 2.0	10	40
2	Jari	2	3	3	7	10-12	1.0 - 2.0	12	30
3	Joorahi	1.5	5	2.5	6	10-15	1.0 - 2.2	10	47
4	Baragahni	2	5	3	7	10-15	1.0 - 2.0	7	44
5	Dadariya	1.8	4.5	3	7	10-15	1.0 - 2.0	10	8
6	Gureh	2	5	3	7	11-12	1.0-2.2	8	7
7	Jamunipur	2	5	3	7	10-15	1.0 - 2.0	9	12
8	Mahokhar	2	5	3	7	10-15	1.0 - 2.0	10	40
9	Pachnahi	2	3	3	7	10-12	1.0 - 2.0	12	30
10	Kamanauri	1.5	5	2.5	6	10-15	1.0 - 2.2	10	47
11	Badeha	2	5	3	7	10-15	1.0 - 2.0	7	44
12	FatPurwa	1.8	4.5	3	7	10-15	1.0 - 2.0	10	8
13	Goharwa	2	5	3	7	11-12	1.0-2.2	8	7
14	Saimara	2	5	3	7	10-15	1.0 - 2.0	9	12
15	Chhanehara	2	5	3	7	10-15	1.0 - 2.0	10	40
16	Kulkumahari	2	3	3	7	10-12	1.0 - 2.0	12	30
17	Saheva	2	5	3	7	10-15	1.0 - 2.0	10	40
18	Doha	2	3	3	7	10-12	1.0 - 2.0	12	30
19	Karbai	1.5	5	2.5	6	10-15	1.0 - 2.2	10	47
20	Kurooli	2	5	3	7	10-15	1.0 - 2.0	7	44
21	Rehunda	1.8	4.5	3	7	10-15	1.0 - 2.0	10	8
22	Hathoora	2	5	3	7	11-12	1.0-2.2	8	7
23	Tilehata	2	5	3	7	10-15	1.0 - 2.0	9	12
24	Aliha	2	5	3	7	10-15	1.0 - 2.0	10	40
25	Moudaha	2	3	3	7	10-12	1.0 - 2.0	12	30

Table 3.10: Livelihood Status of Landless People

S. No.	Name & Code of micro watershed	Name of Village	Name of Livelihood Activity	No. of house hold engaged					Pre project Average Income	Desired Activities	Expected Income from desired activities	Remarks
				Sc	St	Other	Women	Total				
1	2	3	4	5	6	7		9	10	11	12	13
1	Jari I/ 2C1A7d3b	Bilbai, Jari, Fatpurwa	Agriculture Labor, Animal Husbandry	26	-	32	48	58	8800-10000	General merchant, Goatry, Fisheries, Dairy, Tailoring, Pottery	15000	
2	Fatpurwa / 2C1A7d3a	Kamanauri, Badeha, Saimara, Fatpurwa, Gorahawa, Jari		28	-	36	41	64	8800-10000		15000	
3	Mahokhar / 2C1A7d2c	Baragahni, Dadariya, Gureh, Jamunipur, Jari, MahoKhar, Pachnahi		20	-	36	36	56	8800-10000		15000	
4	Jari II / 2C1A7d3c	Bilbai, Jari, Jaurahi		25	-	35	35	60	8800-10000		15000	
5	Jaurahi / 2C1A7d3d	Jaurahi Doha Karbai Bilbai Jari Dadariya Rahunda		25	-	35	42	60	8800-10000		15000	
6	Bilbai / 2C1A7n1c	Bilbai Tilhata Aliha Maudaha Doha Hathuda		26	-	35	45	61	8800-10000		15000	
7	Hathuda / 2C1A7n1d	Hathuda Tilehata Chhanehara Doha Rehunda		28	-	35	41	63	8800-10000		15000	
8	Kulkumhari / 2C1A7n1e	Chhanerhara Ialpur Kulkumhari Kurouli Saheva Rehunda		29	-	35	49	64	8800-10000		15000	

Table 3.11: Ground Water Status

S. No.	Name & Code of Micro watershed	Name of Village	Depth of Ground Water Table (Below Ground level) in Meter		No. of Observation well	Remarks
			Before Monsoon	After Monsoon		
1	2	3	4	5	6	7
1	Jari I 2C1A7d3b	Bilbai, Jari, Fatpurwa	8 - 8.7	7.5 - 8.00	15	
2	Fatpurwa 2C1A7d3a	Kamanauri, Badeha, Saimara, Fatpurwa, Gorahawa, Jari	8 - 8.5	7.5 - 8.00	14	
3	Mahokhar 2C1A7d2c	Baragahni, Dadariya, Gureh, Jamunipur, Jari, MahoKhar, Pachnahi	8 - 8.5	7.5 - 8.00	10	
4	Jari II 2C1A7d3c	Bilbai, Jari, Jaurahi	8 - 8.5	7.5 - 8.00	15	
5	Jaurahi 2C1A7d3d	Jaurahi, Doha, Karbai, Bilbai, Jari, Dadariya, Rahunda	8 - 8.5	7.5 - 8.00	9	
6	Bilbai 2C1A7n1c	Bilbai, Tilhata, Aliha, Maudaha, Doha, Hathuda	8 - 8.5	7.5 - 8.00	11	
7	Hathuda 2C1A7n1d	Hathuda Tilehata Chhanehara, Doha Rehunda	8 - 8.5	7.5 - 8.00	16	
8	Kulkumhari 2C1A7n1e	Chhanerhara Ialpur, Kulkumhari, Kurouli, Saheva, Rehunda	8 - 8.5	7.5 - 8.00	13	

Table 3.12: Details of infrastructure in the project areas*

S. No.	Name of Micro Watershed	Village Name	Parameters		Status			
1	2	3	4		5			
1	Jari I 2C1A7d3b	Bilbai, Jari, Fatpurwa	(i)	Name of villages connected to the main road by an all-weather road	Yes			
			(ii)	Village's Name provided with electricity	Yes			
			(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) 3	(S) 1	(HS)	(VI)
			(v)	Names of villages with access to Primary Health Centre	No			
			(vi)	Names of villages with access to Veterinary Dispensary	No			
			(vii)	Names of villages with access to Post Office	No			
			(viii)	Names of villages with access to Banks	1 (Jari)			
			(ix)	Names of villages with access to Markets/ mandis	No			
			(x)	Names of villages with access to Agro-industries	No			
			(xi)	Total quantity of surplus milk deficit				
			(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	Bilbai, Jari, Fatpurwa			
			(xiv)	Any other facilities with names of villages (please specify)				

S. No.	Name of Micro Watershed	Village Name	Parameters		Status			
1	2	3	4		5			
2	Fatpurwa 2C1A7d3a	Kamanauri, Badeha, Saimara, Fatpurwa, Gorahawa, Jari	(i)	Name of villages connected to the main road by an all-weather road	Yes			
			(ii)	Village's Name provided with electricity	Yes			
			(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) 4	(S) 2	(HS)	(VI)
			(v)	Names of villages with access to Primary Health Centre	Saimara			
			(vi)	Names of villages with access to Veterinary Dispensary	No			
			(vii)	Names of villages with access to Post Office	No			
			(viii)	Names of villages with access to Banks	Jari			
			(ix)	Names of villages with access to Markets/ mandis	No			
			(x)	Names of villages with access to Agro-industries	No			
			(xi)	Total quantity of surplus milk deficit	No			
			(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	Badeha, Jari, Fatpurwa, Kamanauri, Saimara			
			(xiv)	Any other facilities with names of villages (please specify)				

S. No.	Name of Micro Watershed	Village Name	Parameters		Status			
1	2	3	4		5			
3	Mahokhar 2C1A7d2c	Baragahni, Dadariya, Gureh, Jamunipur, Jari, MahoKhar, Pachnahi	(i)	Name of villages connected to the main road by an all-weather road	Yes			
			(ii)	Village's Name provided with electricity	Yes			
			(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) 5	(S) 3	(HS) 1	(VI)
			(v)	Names of villages with access to Primary Health Centre	Mahokhar			
			(vi)	Names of villages with access to Veterinary Dispensary	No			
			(vii)	Names of villages with access to Post Office	No			
			(viii)	Names of villages with access to Banks	Jari			
			(ix)	Names of villages with access to Markets/ mandis	No			
			(x)	Names of villages with access to Agro-industries	No			
			(xi)	Total quantity of surplus milk deficit				
			(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	Baragahni, Gureh, Jari, Jamunipur, MahoKhar,			
			(xiv)	Any other facilities with names of villages (please specify)				

S. No.	Name of Micro Watershed	Village Name	Parameters		Status			
1	2	3	4		5			
4	Jari II 2C1A7d3c	Bilbai, Jari, Jaurahi	(i)	Name of villages connected to the main road by an all-weather road	Yes			
			(ii)	Village's Name provided with electricity	Yes			
			(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) 3	(S) 1	(HS)	(VI)
			(v)	Names of villages with access to Primary Health Centre	Jaurahi			
			(vi)	Names of villages with access to Veterinary Dispensary	No			
			(vii)	Names of villages with access to Post Office	Jaurahi			
			(viii)	Names of villages with access to Banks	Jari			
			(ix)	Names of villages with access to Markets/ mandis	No			
			(x)	Names of villages with access to Agro-industries	No			
			(xi)	Total quantity of surplus milk deficit	No			
			(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	Bilbai, Jari, Jaurahi			
			(xiv)	Any other facilities with names of villages (please specify)				

S. No.	Name of Micro Watershed	Village Name	Parameters		Status			
1	2	3	4		5			
5	Jaurahi 2C1A7d3d	Jaurahi, Doha, Karbai, Bilbai, Jari, Dadariya, Rahunda	(i)	Name of villages connected to the main road by an all-weather road	Yes			
			(ii)	Village's Name provided with electricity	Yes			
			(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) 1	(S) 1	(HS)	(VI)
			(v)	Names of villages with access to Primary Health Centre	Jaurahi			
			(vi)	Names of villages with access to Veterinary Dispensary	Jaurahi			
			(vii)	Names of villages with access to Post Office	Jaurahi			
			(viii)	Names of villages with access to Banks	Jaurahi			
			(ix)	Names of villages with access to Markets/ mandis	No			
			(x)	Names of villages with access to Agro-industries	No			
			(xi)	Total quantity of surplus milk deficit	80 kg			
			(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	Jaurahi			
			(xiv)	Any other facilities with names of villages (please specify)				

S. No.	Name of Micro Watershed	Village Name	Parameters		Status			
1	2	3	4		5			
6	2C1A7n1c Bilbai	Bilbai, Tilhata, Aliha, Maudaha, Doha, Hathuda	(i)	Name of villages connected to the main road by an all-weather road	Yes			
			(ii)	Village's Name provided with electricity	Yes			
			(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) 2	(S) 1	(HS)	(VI)
			(v)	Names of villages with access to Primary Health Centre	No			
			(vi)	Names of villages with access to Veterinary Dispensary	No			
			(vii)	Names of villages with access to Post Office	No			
			(viii)	Names of villages with access to Banks	No			
			(ix)	Names of villages with access to Markets/ mandis	No			
			(x)	Names of villages with access to Agro-industries	No			
			(xi)	Total quantity of surplus milk deficit	No			
			(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	Yes			
			(xiv)	Any other facilities with names of villages (please specify)				

S. No.	Name of Micro Watershed	Village Name	Parameters		Status			
1	2	3	4		5			
7	Hathuda 2C1A7n1d	Hathuda Tilehata Chhanehara, Doha Rehunda	(i)	Name of villages connected to the main road by an all-weather road	Yes			
			(ii)	Village's Name provided with electricity	Yes			
			(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) 1	(S) 1	(HS)	(VI) 1
			(v)	Names of villages with access to Primary Health Centre	Hathuda			
			(vi)	Names of villages with access to Veterinary Dispensary	No			
			(vii)	Names of villages with access to Post Office	Hathuda			
			(viii)	Names of villages with access to Banks	No			
			(ix)	Names of villages with access to Markets/ mandis	No			
			(x)	Names of villages with access to Agro-industries	No			
			(xi)	Total quantity of surplus milk deficit	No			
			(xii)	No. of milk collection centers (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U)	(S)	(PA)	(O) 6
			(xiii)	Name of villages with access to Anganwadi Centre	Yes			
			(xiv)	Any other facilities with names of villages (please specify)				

S. No.	Name of Micro Watershed	Village Name	Parameters		Status			
1	2	3	4		5			
8	Kulkumhari 2C1A7n1e	Chhanerhara lalpur, Kulkumhari, Kurouli, Saheva, Rehunda	(i)	Name of villages connected to the main road by an all-weather road	Yes			
			(ii)	Village's Name provided with electricity	Yes			
			(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) 1	(S) 1	(HS)	(VI)
			(v)	Names of villages with access to Primary Health Centre	No			
			(vi)	Names of villages with access to Veterinary Dispensary	No			
			(vii)	Names of villages with access to Post Office	No			
			(viii)	Names of villages with access to Banks	No			
			(ix)	Names of villages with access to Markets/ mandis	No			
			(x)	Names of villages with access to Agro-industries	No			
			(xi)	Total quantity of surplus milk deficit	No			
			(xii)	No. of milk collection centers (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U)	(S)	(PA)	(O) 7
			(xiii)	Name of villages with access to Anganwadi Centre	Kulkumhari			
			(xiv)	Any other facilities with names of villages (please specify)				

CHAPTER - 4

INSTITUTION BUILDING & PROJECT MANAGEMENT

Project Implementing Agency:

The Project Implementing Agency (PIA) for IWMP-XIV, BANDA is BSA, Bhoomi Sanrakshan Adhikari Soil Conservation Unit Banda II, Agricultural Department, District BANDA, Uttar Pradesh. The project implementing agency was selected by State Level Nodal Agency (SLNA) for Integrated Watershed Management Program (IWMP) in BANDA 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)

S. No.	Particulars of PIA	
1	2	3
1	Date of selection of PIA	7-12-2011
2	Type of organization	Govt.
3	Name of organization	Soil Conservation
4	Designation & Address	Bhoomi Sanrakshan Adhikari, BANDA II
5	Telephone	9235629612
6	Fax	05192224698
7	E-mail	

Table 4.1: Details of Staff at PIA

S. No.	Designation	Name	M/F	Qualification	Field of Experience & Period	Remarks
1	2	3		4	5	6
1	B.S.A.	Sri Vijay Singh	M	M.Sc. In Agriculture	G. Ag. & Soil Cons. 29 yrs	
2	S.T.A. G.P. 'A'	Neeraj Ran	M	M.Sc. In Agriculture	Soil Cons. 4 yrs	
3	J.E.	Shyam Lal	M	Engg. Dip.	G. Ag. & Soil Cons. 19 yrs	
4	J.E.	Shivaji Singh	M	Engg. Dip.	G. Ag. & Soil Cons. 21 yrs	
5	S.T.A. G.P. 'B'	Sharma Ram	M	Agriculture Diploma	Soil Cons. 30 yrs	
6	S.T.A. G.P. 'B'	R. R. Shankhwar	M	B.Sc. In Agriculture	Soil Cons. 30 yrs	
7	S.T.A. G.P. 'B'	Ram Nagina Prasad	M	B.Sc. In Agriculture	S.E. 30 Year	
8	S.T.A. G.P. 'B'	Shitalla Prasad Saxena	M	Agriculture Diploma	S.E. 32 Year	
9	T.A. G.P. 'C'	Hari Narain Sachan	M	B.Sc. In Agriculture	Soil Cons. 31 yrs	
10	T.A. G.P. 'C'	Suresh Pal Singh	M	Agriculture Diploma	Soil Cons. 34 yrs	
11	T.A. G.P. 'C'	C. S. Singh	M	M.Sc. In Agriculture	G. Ag. & Soil Cons. 26 yrs	
12	T.A. G.P. 'C'	Raj Bir Singh	M	Agriculture Diploma	Soil Cons. 31 yrs	
13	T.A. G.P. 'C'	Raj Kishore Sharma	M	Agriculture Diploma	Soil Cons. 33 yrs	
14	T.A. G.P. 'C'	Mohan Lal Singh	M	B.Sc. In Agriculture	G. Ag. & Soil Cons. 30 yrs	
15	T.A. G.P. 'C'	Bholla Prasad	M	B.Sc. In Agriculture	S.E. 32 Year	
16	T.A. G.P. 'C'	Lalbrat	M	Agriculture Diploma	S.E. 32 Year	
17	T.A. G.P. 'C'	Subhash Pawar	M	Agriculture Diploma	S.E. 32 Year	
18	T.A. G.P. 'C'	Mahipal Singh	M	Agriculture Diploma	S.E. 33 Year	
19	T.A. G.P. 'C'	Sudama Prasad	M	B.Sc. In Agriculture	S.E. 32 Year	

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 4.2: Details of Watershed Development Team (WDT) in the project area

1	2	3	4	5	6	7	8
S. No.	Name of WDT member	M/F	Age	Qualification / Experience	Description of professional training	Role/ Function	Date of appointment of WDT member
1.	Sharma Ram	M	56	Ag. Dip.	Trained	Team Leader	15.10.2011
2.	Ram Roop Shankhwar	M	53	B.Sc. Ag.	Trained	Team Leader	15.10.2011
3.	Chandra Shekhar Singh	M	53	M.Sc. Ag.	Untrained	Member	15.10.2011

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 Committees 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 4.3: Details of Watershed Committee (WC)

Name of Micro watershed-2C1A7d3a																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
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	Qualification	Function (s) assigned
1	Fatpurwa		Dheeraj Singh	President	M	-	-	-	-	√	-	-	-	-	-	Graduate	
			Prabhat Singh	Secretary	M	-	-	-	√	-	-	-	-	-	-	Graduate	
			Rekha Devi	Member	F	√	-	√	-	-	-	-	-	√	-	Jr. High School	
			Ram sevak	Member	M	√	-	-	-	-	√	-	√	-	-	Primary	
			Nandu	Member	M	√	-	-	-	-	√	-	√	-	-	Primary	
			Manju	Member	F	-	-	√	-	-	-	-	√	-	-	High School	
			Prem Chandra	Member	M	-	-	-	-	√	-	√	-	-	-	Intermediate	
			Narpat Singh	Member	M	-	-	-	-	√	-	√	-	-	-	High School	
			Kamal Singh	Member	M	-	-	-	√	-	-	√	-	-	-	High School	
			C.S Singh	Member	M	-	-	-	-	-	-	-	-	-	-	M.Sc Ag.	
			Sharma Ram	Member	M	√	-	-	-	-	-	-	-	-	-	-	Intermediate Diploma
Name of Micro watershed-2C1A7d2c																	
2	Mahokhar		Anoop Singh	President	M	-	-	-	√	-	-	-	-	-	-	Graduate	
			Prem Chandra	Secretary	M	√	-	√	-	-	-	-	-	-	-	Post Graduate	
			Shakuntala	Member	F	√	-	√	-	-	-	-	-	√	-	Primary	
			Sukh Lal	Member	M	√	-	-	-	-	√	-	√	-	-	Primary	
			Munni Lal	Member	M	√	-	-	-	-	√	-	√	-	-	Jr. High School	
			Bare Lal	Member	M	-	-	√	-	-	-	-	√	-	-	Jr. High School	
			Kuber Singh	Member	M	-	-	-	-	√	-	√	-	-	-	Intermediate	
			Rajendra Singh	Member	M	-	-	-	-	√	-	√	-	-	-	Intermediate	
			Babu Tiwari	Member	M	-	-	-	√	-	-	√	-	-	-	High School	
			C.S. Singh	Member	M	-	-	-	-	-	-	-	-	-	-	M.Sc Ag.	
			Sharma Ram	Member	M	√	-	-	-	-	-	-	-	-	-	-	Intermediate Diploma

Name of Micro watershed-2C1A7d2c																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
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	Qualification	Function (s) assigned
3	Bargahani		Ramesh Chandra	President	M	-	-	-	-	√	-	-	-	-	-	Graduate	
			Kamta	Secretary	M	-	-	-	√	-	-	-	-	-	-	Graduate	
			Keshar Devi	Member	F	√	-	√	-	-	-	-	-	√	-	Primary	
			Chitani	Member	M	√	-	-	-	-	√	-	√	-	-	Primary	
			Gaya	Member	M	-	-	√	-	-	-	-	√	-	-	Jr. High School	
			Ram Sharan	Member	M	-	-	-	-	-	√	-	√	-	-	Jr. High School	
			Ram Kishor	Member	M	-	-	-	√	√	-	√	-	-	-	High School	
			Sudama	Member	M	-	-	-	-	√	-	√	-	-	-	High School	
			Vijay Narayan	Member	M	-	-	-	-	√	-	√	-	-	-	Intermediate	
			C.S. Singh	Member	M	-	-	-	-	-	-	-	-	-	-	M.Sc Ag.	
			Sharma Ram	Member	M	√	-	-	-	-	-	-	-	-	-	Intermediate Diploma	
Name of Micro watershed-2C1A7d3b, 2C1A7d3c																	
4	Jari		Devaki Nandan	President	M	-	-	-	-	√	-	-	-	-	-	Graduate	
			Ram Prakash	Secretary	M	-	-	-	√	-	-	-	-	-	-	Graduate	
			Kushma	Member	F	√	-	√	-	-	-	-	-	√	-	Primary	
			Kuber	Member	M	√	-	-	-	-	√	√	-	-	-	High School	
			Raju	Member	M	-	-	-	-	-	√	√	-	-	-	Intermediate	
			Brijesh	Member	M	-	-	√	-	-	-	√	-	-	-	Graduate	
			Manoj Kumar	Member	M	-	-	-	-	√	-	-	-	-	-	High School	
			Sanjay	Member	M	-	-	-	-	√	-	-	-	-	-	Intermediate	
			Shiv Sharan	Member	M	-	-	-	-	√	-	-	-	-	-	Intermediate	
			Hari Narayan	Member	M	-	-	-	-	-	-	-	-	-	-	Intermediate	
			Sharma Ram	Member	M	√	-	-	-	-	-	-	-	-	-	Intermediate Diploma	

Name of Micro watershed-2C1A7d2c																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
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	Qualification	Function (s) assigned
5	Gureh		Vijay Bahadur	President	M	√	-	√	-	-	-	-	-	-	-	Post Graduate	
			Manoj Singh	Secretary	M	-	-	-	√	-	-	-	-	-	-	Graduate	
			Chunni Devi	Member	F	√	-	-	-	-	√	-	-	√	-	Jr. High School	
			Sushila Devi	Member	F	√	-	-	-	-	√	-	√	-	-	Jr. High School	
			Babita	Member	F	-	-	-	√	-	-	-	√	-	-	High School	
			Govind Singh	Member	M	-	-	√	-	-	-	-	√	-	-	High School	
			Gulab Singh	Member	M	-	-	-	-	√	-	√	-	-	-	Intermediate	
			Ram Kesh	Member	M	-	-	-	√	-	-	√	-	-	-	High School	
			Raj Bahadur	Member	M	-	-	-	-	√	-	√	-	-	-	Intermediate	
			C.S. Singh.	Member	M	-	-	-	-	-	-	-	-	-	-	M.Sc Ag.	
			Sharma Ram.	Member	M	√	-	-	-	-	-	-	-	-	-	-	Intermediate Diploma
Name of Micro watershed-2C1A7d3a																	
6	Saimara		Sandeep	President	M	-	-	-	√	-	-	-	-	-	-	Graduate	
			Brij Kishor	Secretary	M	-	-	√	-	-	-	-	-	-	-	Graduate	
			Munna	Member	M	-	-	-	√	-	-	-	√	-	-	Jr. High School	
			Ram Chandra	Member	M	√	-	√	-	-	√	-	-	-	-	Jr. High School	
			Ram Baran	Member	M	√	-	√	-	-	-	-	-	-	-	Jr. High School	
			Savita Devi	Member	F	-	-	-	√	-	-	-	√	√	-	Jr. High School	
			Jai Singh	Member	M	-	-	-	-	-	√	-	-	-	-	Intermediate	
			Shiv Prasad	Member	M	-	-	-	-	√	-	√	-	-	-	High School	
			Ram Singh	Member	M	-	-	-	-	√	-	√	-	-	-	Intermediate	
			C.S. Singh.	Member	M	-	-	-	-	-	-	-	-	-	-	M.Sc Ag.	
			Sharma Ram.	Member	M	√	-	-	-	-	-	-	-	-	-	-	Intermediate Diploma

Name of Micro watershed-2C1A7n1d																		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
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	Qualification	Function (s) assigned	
7	Chhanehra Lalpur		Irshad Hussain	President	M	-	-	-	-	√	-	√	-	-	-	Jr. High School		
			Anurag Vikram	Secretary	M	√	-	√	-	-	-	√	-	-	-	Graduate		
			Nathu	Member	M	-	-	-	√	-	-	√	-	-	-	Primary		
			Abdul Rasheed	Member	M	-	-	-	√	-	-	√	-	-	-	Illiterate		
			Moh. Haroon	Member	M	-	-	-	√	-	-	√	-	-	-	Jr. High School		
			Islam Hussain	Member	M	-	-	√	-	-	-	-	-	-	-	Jr. High School		
			Maiyadin	Member	M	-	-	√	-	-	-	√	√	-	-	Jr. High School		
			Diya	Member	F	√	-	-	-	-	-	-	√	-	-	Primary		
			Dulua	Member	M	-	-	√	-	-	-	-	√	-	-	Primary		
			Shripal	Member	F	-	-	-	-	-	√	-	√	-	-	Primary		
			Bathiya	Member	M	-	-	-	-	-	√	-	√	-	-	Primary		
			Bhayia lal	Member	M	√	-	-	-	-	√		√	-	-	Primary		
			R.R. Sankhwar	Member	M	√	-	-	-	-	-	-	-	-	-	B.sc. Ag.		
Name of Micro watershed-2C1A7n1e																		
8	Kuroli		S M Tripathi	President	M	-	-	-	-	√	-	√	-	-	-	Intermediate		
			Ram Kaushal	Secretary	M	-	-	√	-	-	-	√	-	-	-	Graduate		
			Ram Roop	Member	M	-	-	√	-	-	-	√	-	-	-	High School		
			Binda Prasad	Member	M	-	-	-	√	-	-	√	-	-	-	Jr. High School		
			Ramdas	Member	M	√	-	√	-	-	-	√	-	-	-	Primary		
			Nathu	Member	M	-	-	-	√	-	-	√	-	-	-	Primary		
			Nathu	Member	M	√	-	√	-	-	-	-	-	-	-	Jr. High School		
			Binda Prasad	Member	M	√	-	√	-	-	-	-	√	-	-	Primary		
			Mahesh Prasad	Member	M	√	-	-	-	-	-	√	-	√	-	-	Primary	
			Arti	Member	F	-	-	-	-	-	√	-	-	√	-	Primary		
			R.R. Sankhwar	Member	M	√	-	-	-	-	-	-	-	-	-	B.sc. Ag.		

Name of Micro watershed-2C1A7d3d																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
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	Qualification	Function (s) assigned
9	Jaurahi		Uday Singh	President	M	-	-	-	-	√	-	√	-	-	-	Graduate	
			Jagdish Prasad	Secretary	M	-	-	√	-	-	-	√	-	-	-	Graduate	
			Sushil Singh	Member	M	-	-	-	√	-	-	√	√	-	-	High School	
			Chunnu Singh	Member	M	-	-	-	-	-	-	√	-	-	-	Jr. High School	
			Ram Milan.	Member	M	-	-	√	-	-	-	√	-	-	-	Primary	
			Ganesh Prasad	Member	M	-	-	-	√	-	-	√	-	-	-	Jr. High School	
			Ashok Kumar	Member	M	-	-	√	-	-	-	√	-	-	-	Jr. High School	
			Ram Shiroman	Member	M	-	-	-	√	-	-	√	-	-	-	Jr. High School	
			Maiku Verma	Member	M	√	-	√	-	-	-	-	-	-	-	Jr. High School	
			Prabha Singh	Member	F	-	-	-	√	-	-	-	-	-	-	Jr. High School	
			Shiv Ram	Member	M	√	-	-	-	-	-	-	-	-	-	Jr. High School	
			Dherendra Singh	Member	M	-	-	-	√	-	-	-	-	-	-	Jr. High School	
R.R. Sankhwar	Member	M	√	-	-	-	-	-	-	-	-	-	-	B.sc. Ag.			
Name of Micro watershed-2C1A7n1c																	
10	Bilbai		Phool Chandra	President	M	-	-	-	√	-	-	-	-	√	-	Jr. High School	
			Ram Bahori	Secretary	M	-	-	-	√	-	-	√	-	-	-	Post Graduate	
			Shivam Lal	Member	M	-	-	-	-	√	-	√	-	-	-	Primary	
			Ramdes	Member	M	-	-	-	√	-	-	√	-	-	-	Jr. High School	
			Bal Kishun	Member	M	-	-	-	√	-	-	√	-	-	-	Primary	
			Radhe Shyam	Member	M	-	-	-	√	-	-	√	-	-	-	Graduate	
			Shiv Gopal	Member	M	-	-	-	√	-	-	√	-	-	-	Jr. High School	
			Basanti	Member	F	-	-	-	-	-	√	-	√	-	-	Jr. High School	
			Manisha	Member	F	-	-	-	-	-	√	-	√	-	-	Jr. High School	
			Ram Swaroop	Member	M	-	-	-	√	-	√	-	√	-	-	Illiterate	
			Vineeta	Member	F	-	-	-	-	-	√	-	√	-	-	Primary	
			Vidya Dhar	Member	M	√	-	-	-	-	√	-	-	-	-	Jr. High School	
			Badri Vishal	Member	M	-	-	-	-	-	-	-	-	-	-	Primary	
			Bhayia Lal	Member	M	-	-	-	-	-	-	-	-	-	-	Primary	
R.R. Sankhwar	Member	M	√	-	-	-	-	-	-	-	-	-	-	B.sc. Ag.			

Name of Micro Watershed - 2C1A7n1d																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
S. No.	Name of Gram Sabha/GP	Date of Constitution/ Registration as a Society (dd/mm/yyyy)	Name of Members	Designation	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educational qualification	Function(s) assigned
11	Hathoda	9/12/2011	Akar Mul Ameen	President	M	-	-	-	-	-	-	√	-	-	-	10th	
			Rajaram	Secretary	M	-	-	-	-	√	-	√	-	-	-	Inter	
			Swamidin	Member	M	√	-	√	-	-	-	√	-	-	-	8th	
			Ramdin	Member	M	√	-	√	-	-	-	√	-	-	-	8th	
			Juggi Lal	Member	M	-	-	-	√	-	-	√	-	-	-	8th	
			Gaya Prasad	Member	M	-	-	-	-	-	√	-	√	-	-	8th	
			Gayasudin	Member	M	-	-	-	-	-	√	-	√	-	-	8th	
			Vajda Khatoon	Member	F	-	-	-	-	-	√	-	√	-	-	8th	
			Maikua	Member	M	-	-	-	-	-	√	-	-	√	-	8th	
			Rahmat	Member	M	-	-	-	-	-	√	-	√	-	-	8th	
			Rajveer Singh	-	M	-	-	-	-	-	-	-	-	-	√	Diploma in Ag.	
Ramroop Sankhwaar	-	M	-	-	-	-	-	-	-	-	-	√	B. Sc. (Ag.)				
Name of Micro Watershed - 2C1A7n1d																	
12	Doha	10/12/2011	Arun Kumar Tiwari	President	M	-	-	-	-	√	-	√	-	-	-	10 th	
			Gyan Babu	Secretary	M	-	-	-	-	√	-	√	-	-	-	B. A.	
			Santosh Kumar	Member	M	-	-	-	√	-	-	√	-	-	-	B. A.	
			Ram Chandra Yadav	Member	M	-	-	-	√	-	-	-	-	-	-	8 th	
			Shyam Lal	Member	M	√	-	-	-	-	√	-	√	-	-	8 th	
			Jageshwar	Member	M	√	-	-	√	-	-	-	-	-	-	8 th	
			Shivcharan Khengar	Member	M	-	-	-	√	-	-	-	-	√	-	8 th	
			Suman Devi	Member	F	-	-	-	-	-	√	-	√	-	-	8 th	
			Renu	Member	F	-	-	-	-	-	√	-	√	-	-	8 th	
			Matola Yadav	Member	M	-	-	-	-	-	√	-	√	-	-	8 th	
			Rajveer Singh	-	M	-	-	-	-	-	-	-	-	-	-	Diploma in Ag.	
			Ramroop Sankhwaar	-	M	-	-	-	-	-	-	-	-	-	-	B. Sc. (Ag.)	

Name of Micro Watershed - 2C1A7n1e																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
S. No.	Name of Gram Sabha/GP	Date of Constitution/ Registration as a Society (dd/mm/yyyy)	Name of Members	Designation	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educational qualification	Function (s) assigned
13	Kul-kumhari	8/12/2011	Ramesh Diwedi	President	M	-	-	-	√	-	-	√	-	-	-	Inter	
			Babloo	Secretary	M	-	-	-	√	-	-	√	-	-	-	B. A.	
			R. M. Diwedi	Member	M	-	-	-	-	√	-	√	-	-	-	B. A.	
			Shyam Sundar	Member	M	-	-	-	-	√	-	√	-	-	-	10th	
			Indra Bahadur	Member	M	-	-	-	√	-	-	√	-	-	-	8th	
			Santosh Kumari	Member	F	-	-	-	-	-	√	-	√	-	-	8th	
			Savitri	Member	F	-	-	-	-	-	√	-	√	-	-	8th	
			Saroj	Member	F	√	-	-	-	-	√	-	-	√	-	Illiterate	
			Shriram	Member	M	√	-	-	-	-	√	-	√	-	-	8th	
			Amit	Member	M	√	-	-	-	-	√	-	√	-	-	8th	
			Rajveer Singh	-	M	-	-	-	-	-	-	-	-	-	√	Diploma in Ag.	
			Ramroop Sankhwaar	-	M	-	-	-	-	-	-	-	-	-	√	B. Sc. (Ag.)	
Name of Micro Watershed - 2c1A7n1e																	
14	Sahewa	7/12/2011	S. Mishra	President	M	-	-	-	-	√	-	√	-	-	-	B. A.	
			Kedar Nath	Secretary	M	-	-	-	-	√	-	√	-	-	-	B. A.	
			C. Bhushan	Member	M	-	-	-	-	√	-	√	-	-	-	8 th	
			Ramsiya	Member	M	√	-	-	-	-	√	-	√	-	-	8 th	
			V. Prajapati	Member	M	-	-	-	-	-	√	-	√	-	-	8 th	
			Shiv Dayal	Member	M	√	-	√	-	-	-	√	-	-	-	8 th	
			Gyan Devi	Member	F	-	-	-	-	-	√	-	√	-	-	8 th	
			Chanda Bai	Member	F	-	-	-	-	-	√	-	-	√	-	8 th	
			Surendra Dixit	Member	M	-	-	-	-	-	√	√	-	-	-	8 th	
			Sunil Dixit	Member	M	-	-	-	-	-	√	√	-	-	-	B. A.	
			Rajveer Singh	-	M	-	-	-	-	-	-	-	-	-	√	Diploma in Ag.	
			Ramroop Sankhwaar	-	M	-	-	-	-	-	-	-	-	-	√	B. Sc. (Ag.)	

Note: WC to be constituted for each GP included in the MWS.

Formation of Self Help Groups:

The formation of SHGs in all watershed villages is underway. It is proposed to form at least 5 SHGs in each village. Each SHG will consist of 12/15 members. The members would be mainly from landless, SCs and women, small and marginal farmers. Few groups exclusively of unemployed youth have also been identified. These groups will be homogeneous having common goal for increasing their income by establishing micro enterprise. Under the Project, each SHGs would be given a revolving fund up to Rs.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 4.4: Details of Self Help Groups (SHGs) in the project area

1	2	3	4				5				6			7			8
S. NO.	Name of Micro watershed with code	Names 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 SHG
			Men	Women	Both	Total	Categories	M	F	Total	M	F	Total	M	F	Total	
1	2C1A7n1c	Pashupalan	11	-	-	11	(i) Landless										
							(ii) SF										
							(iii) MF	11	-	11	-	-	-	11	-	11	
							(iv) LF										
		Maa Sharda SHG		11	-	11	(i) Landless		11	11					11	11	
							(ii) SF										
							(iii) MF										
							(iv) LF										
		Yashoda SHG		11	-	11	(i) Landless		11	11					11	11	
							(ii) SF										
							(iii) MF										
							(iv) LF										
		Viskarma SHG	11		-	11	(i) Landless										
							(ii) SF										
							(iii) MF	11		11				11		11	
							(iv) LF										

Table 4.5: Details of Formation of Self Help Groups

S. No.	Name of micro watershed	Name of village	Name of group	Date of constitution	Name of Adhyaksh	Name of Sachiv	Total No. of Members				Name of Bank and Address	Account No. & Date	Up to date Saving Rs.	Group activities
							Women	Sc/St	Other	Total				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	2C1A7n1c	Bilbai	Pashupalan	14/9/2011	Awadhesh	Sagar	...		11	11				
			Sharda	14/9/2011	Basanti	Santrani	...		11	11				
			Yashoda	14/9/2011	Minakshi	Vinita	...		11	11				
			Vishwakarma	14/9/2011	Ramroop	Ram Murti	...		11	11				

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 MWS code	Names of Group	Total no. of Beneficiary				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	2C1A7d3b / Jari I	Dalhan Utpadan	10	-	-	10	(i) Landless	-	-	-	-	-	-	-	-	-	14.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	2	-	2	-	-	-	-	-	-	
							(iv) LF	8	-	8	-	-	-	-	-	-	
		Dalhan Utpadan	10	-	-	10	(i) Landless	-	-	-	-	-	-	-	-	-	14.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	10	-	10	-	-	-	-	-	-	
		Khadyaan	10	-	-	10	(i) Landless	-	-	-	-	-	-	-	-	-	14.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	1	-	1	-	-	-	-	-	-	
							(iv) LF	9	-	9	-	-	-	-	-	-	
		Khadyaan	10	-	-	10	(i) Landless	-	-	-	-	-	-	-	-	-	14.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	2	-	2	-	-	-	-	-	-	
							(iv) LF	8	-	8	-	-	-	-	-	-	

1	2	3	4				5				6			7			8
S. No.	Name of MWS code	Names of Group	Total no. of Beneficiary				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	
2	2C1A7d2c / Mahokhar	Dalhan Utpadan	10	-	-	10	(i) Landless	-	-	-	-	-	-	-	-	-	05.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	10		10	-	-	-	-	-	-	
		Dalhan Utpadan	12	-	-	12	(i) Landless	-	-	-	-	-	-	-	-	-	05.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	1	-	1	1	-	1	-	-	-	
							(iv) LF	11		11	-	-	-	-	-	-	
		Khadyaan	12		-	12	(i) Landless	-	-	-	-	-	-	-	-	-	05.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	1		1	1	-	1	-	-	-	
							(iv) LF	11	-	11	-	-	-	-	-	-	
		Khadyaan	12	-	-	12	(i) Landless	-	-	-	-	-	-	-	-	-	05.02.2012
							(ii) SF				-	-	-	-	-	-	
							(iii) MF	4		4	2	-	2	-	-	-	
							(iv) LF	8	-	8	-	-	-	-	-	-	
		Khadyaan	12	-	-	12	(i) Landless	-	-	-	-	-	-	-	-	-	05.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	2	-	2	2	-	2	-	-	-	
							(iv) LF	10		10	-	-	-	-	-	-	
3	2C1A7d3a / Fatpurwa	Dalhan Utpadan	12	-	-	12	(i) Landless	-	-	-	-	-	-	-	-	-	06.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	1	-	1	-	-	-	-	-	-	
							(iv) LF	11		11	-	-	-	-	-	-	
		Dalhan Utpadan	12	-	-	12	(i) Landless	-	-	-	-	-	-	-	-	-	06.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	1	-	1	-	-	-	-	-	-	
							(iv) LF	11		11	-	-	-	-	-	-	
		Khadyaan	12	-	-	12	(i) Landless	-	-	-	-	-	-	-	-	-	06.02.2012
							(ii) SF				-	-	-	-	-	-	
							(iii) MF	2		2	2	-	2	-	-	-	
							(iv) LF	10	-	10	-	-	-	-	-	-	
		Khadyaan	12	-	-	12	(i) Landless	-	-	-	-	-	-	-	-	-	06.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	2	-	2	-	-	-	-	-	-	
							(iv) LF	10		10	-	-	-	-	-	-	

1	2	3	4				5				6			7			8
S. No.	Name of MWS code	Names of Group	Total no. of Beneficiary				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	
4	2C1A7d3c / Jari II	Dalhan Utpadan	12	-	-	12	(i) Landless	-	-	-	-	-	-	-	-	-	10.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	12	-	12	1	-	1	-	-	-	
		Dalhan Utpadan	12	-	-	12	(i) Landless	-	-	-	-	-	-	-	-	-	10.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	12	-	12	1	-	1	-	-	-	
		Khadyaan	10	-	-	10	(i) Landless	-	-	-	-	-	-	-	-	-	10.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	10	-	10	-	-	-	-	-	-	
		Khadyaan	12	-	-	12	(i) Landless	-	-	-	-	-	-	-	-	-	10.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	4	-	4	-	-	-	-	-	-	
							(iv) LF	8	-	8	-	-	-	-	-	-	
5	2C1A7n1c / Bilbai	Dalhan Utpadan	11	-	-	11	(i) Landless	-	-	-	-	-	-	-	-	-	03.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	11	-	11	-	-	-	-	-	-	
		Jaivik Utpadan	11	-	-	11	(i) Landless	-	-	-	-	-	-	-	-	-	03.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	11	-	11	-	-	-	-	-	-	
		Sabji Utpadan	11	-	-	11	(i) Landless	-	-	-	-	-	-	-	-	-	03.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	11	-	11	-	-	-	-	-	-	
		Tilhan Utpadan	12	-	-	12	(i) Landless	-	-	-	-	-	-	-	-	-	03.02.2012
							(ii) SF	4	-	4	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	8	-	8	-	-	-	-	-	-	
		Khadyaan	13	-	-	13	(i) Landless	-	-	-	-	-	-	-	-	-	03.02.2012
							(ii) SF	10	-	10	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	3	-	3	-	-	-	-	-	-	

S. No.	Name of MWS code	Names of Group	Total no. of Beneficiary				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	
6	2C1A7n1d / Hathaura	Dalhan Utpadan	11	-	-	11	(i) Landless	-	-	-	-	-	-	-	-	-	02.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	11	-	11	-	-	-	-	-	-	
		Dugdh Utpadan	11	-	-	11	(i) Landless	-	-	-	-	-	-	-	-	-	02.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	11	-	11	-	-	-	-	-	-	
		Sabji Utpadan	11	-	-	11	(i) Landless	-	-	-	-	-	-	-	-	-	02.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	11	-	11	-	-	-	-	-	-	
		Tilhan Utpadan	11	-	-	11	(i) Landless	-	-	-	-	-	-	-	-	-	02.02.2012
							(ii) SF	4	-	4	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	7	-	7	-	-	-	-	-	-	
		Khadyaan	11	-	-	11	(i) Landless	-	-	-	-	-	-	-	-	-	02.02.2012
							(ii) SF	8	-	8	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	3	-	3	-	-	-	-	-	-	
7	2C1A7d3d / Jorahi	Dalhan Utpadan	11	-	-	11	(i) Landless	-	-	-	-	-	-	-	-	-	18.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	11	-	11	-	-	-	-	-	-	
		Pashupalan	11	-	-	11	(i) Landless	-	-	-	-	-	-	-	-	-	18.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	11	-	11	-	-	-	-	-	-	
		Sabji Utpadan	11	-	-	11	(i) Landless	-	-	-	-	-	-	-	-	-	18.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	11	-	11	-	-	-	-	-	-	
		Tilhan Utpadan	9	2	-	11	(i) Landless	-	-	-	-	-	-	-	-	-	18.02.2012
							(ii) SF	4	-	4	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	7	-	7	-	-	-	-	-	-	
		Khadyaan	11	-	-	11	(i) Landless	-	-	-	-	-	-	-	-	-	18.02.2012
							(ii) SF	8	-	8	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	3	-	3	-	-	-	-	-	-	

1	2	3	4				5				6			7			8
S. No.	Name of MWS code	Names of Group	Total no. of Beneficiary				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	
8	2C1A7n1e / Kulkumhari	Dalhan Utpadan	11	-	-	11	(i) Landless	-	-	-	-	-	-	-	-	-	12.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	11	-	11	-	-	-	-	-	-	
		Pashupalan	11	-	-	11	(i) Landless	-	-	-	-	-	-	-	-	-	12.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	11	-	11	-	-	-	-	-	-	
		Sabji Utpadan	11	-	-	11	(i) Landless	-	-	-	-	-	-	-	-	-	12.02.2012
							(ii) SF	-	-	-	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	11	-	11	-	-	-	-	-	-	
		Tilhan Utpadan	11	-	-	11	(i) Landless	-	-	-	-	-	-	-	-	-	12.02.2012
							(ii) SF	4	-	4	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	7	-	7	-	-	-	-	-	-	
		Khadyaan	11	-	-	11	(i) Landless	-	-	-	-	-	-	-	-	-	12.02.2012
							(ii) SF	8	-	8	-	-	-	-	-	-	
							(iii) MF	-	-	-	-	-	-	-	-	-	
							(iv) LF	3	-	3	-	-	-	-	-	-	

Table 4.7: Details of Formation of User Groups (UGs)

S. No	Name of MWS	Name of Village	Name of Group	Date of Constitution	Name of Adhyaks	Name of Sachiv	Total No. of Members				Name of Bank & Address	Account No. & Date	Up to date Saving	Group Activity	Status of User Agreement
							Women	Sc/ St	Other	Total					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	2C1A7d3b	Jari	Dalhan Utpadan	14.02.2012	Om Prakash	Ram Narayan	-	-	10	10	-	-	-	-	-
			Dalhan Utpadan	14.02.2012	Suresh Pathak	Dharampal	-	-	10	10	-	-	-	-	-
			Khadyamaan Utpadan	14.02.2012	Shiv Sharan	Kamlesh Singh	-	-	10	10	-	-	-	-	-
			Khadyamaan Utpadan	14.02.2012	Prahlad	Brijesh	-	-	10	10	-	-	-	-	-
2	2C1A7d2c	Mahokhar	Dalhan Utpadan	05.02.2012	Kuber Singh	Babu Tewari	-	-	10	10	-	-	-	-	-
			Dalhan Utpadan	05.02.2012	Lamberi	Nekchandra Singh	-	1	11	12	-	-	-	-	-
			Khadyamaan Utpadan	05.02.2012	Rajendra Singh	Pratap Singh		1	11	12	-	-	-	-	-
			Khadyamaan Utpadan	05.02.2012	Lallu	Gaya Parsad	-	-	12	12	-	-	-	-	-
			Khadyamaan Utpadan	05.02.2012	Rampal	Sudama	-	2	10	12	-	-	-	-	-
3	2C1A7d3a	Fatpurwa	Dalhan Utpadan	06.02.2012	Arun Singh	Badka Singh	-	-	12	12	-	-	-	-	-
			Dalhan Utpadan	06.02.2012	Chandra Shekhar	Laxmi Singh	-	-	12	12	-	-	-	-	-
			Khadyamaan Utpadan	06.02.2012	Narpat Singh	Amarnath Singh	-	2	10	12	-	-	-	-	-
			Khadyamaan Utpadan	06.02.2012	Surendra Singh	Ramnaresh Singh	-	-	12	12	-	-	-	-	-

S. No	Name of MWS	Name of Village	Name of Group	Date of Constitution	Name of Adhyaks	Name of Sachiv	Total No. of Members				Name of Bank & Address	Account No. & Date	Up to date Saving	Group Activity	Status of User Agreement
							Women	Sc/ St	Other	Total					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
4	2C1A7d3c	Jari II	Dalhan Utpadan	10.02.2012	Manoj Tewari	Radhey Shyam	-	1	11	12	-	-	-	-	-
			Dalhan Utpadan	10.02.2012	Bhulli	Jageshwar	-	1	11	12	-	-	-	-	-
			Khadyamaan Utpadan	10.02.2012	Raja Bhaiya	Ram Manohar	-	-	10	10	-	-	-	-	-
			Khadyamaan Utpadan	10.02.2012	Mahadev	Banwari	-	-	12	12	-	-	-	-	-
5	2C1A7n1c	Bilbai	Dalhan Utpadan	03.02.2012	Ram Bahori	Tulsi Prasad	-	-	11	11	-	-	-	-	-
			Jaivik Utpadan	03.02.2012	Phool Chandra	Surajbali	-	-	11	11	-	-	-	-	-
			Sabji Utpadan	03.02.2012	Bal Kishun	Uttam Singh		-	11	11	-	-	-	-	-
			Tilahan Utpadan	03.02.2012	Radhe Shyam	Raja Bhayia	-	-	12	12	-	-	-	-	-
			Khadyamaan Utpadan	03.02.2012	Shiv Gopal	Balveer	-	-	13	13	-	-	-	-	-
6	2C1A7n1d	Hatha ura	Dalhan Utpadan	02.02.2012	Abdul Rasheed	Salamat Hussain	-	-	11	11	-	-	-	-	-
			Dugdh Utpadan	02.02.2012	Moh. Haroon	Naushad Hussain	-	-	11	11	-	-	-	-	-
			Sabji Utpadan	02.02.2012	Ishkam	Haider		-	11	11	-	-	-	-	-
			Tilahan Utpadan	02.02.2012	Ikhalakh	Maiyadin	-	-	11	11	-	-	-	-	-
			Khadyamaan Utpadan	02.02.2012	Duluwa	Shripal	-	-	11	11	-	-	-	-	-

S. No	Name of MWS	Name of Village	Name of Group	Date of Constitution	Name of Adhyaks	Name of Sachiv	Total No. of Members				Name of Bank & Address	Account No. & Date	Up to date Saving	Group Activity	Status of User Agreement
							Women	Sc/ St	Other	Total					
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
7	2C1A7d3d	Jorahi	Dalhan Utpadan	18.02.2012	Raj Kishor	Anis Khan	-	-	11	11	-	-	-	-	-
			Pashupalan	18.02.2012	Chota Singh	Chunuwad	-	-	11	11	-	-	-	-	-
			Sabji Utpadan	18.02.2012	Rajendra Prasad	Asha		-	11	11	-	-	-	-	-
			Tilahan Utpadan	18.02.2012	Shailendra Singh	Nafees	-	-	11	11	-	-	-	-	-
			Khadyamaan Utpadan	18.02.2012	Janardan Singh	Munna Singh	-	-	11	11	-	-	-	-	-
8	2C1A7n1e	Kulku mhari	Dalhan Utpadan	12.02.2012	Hira Lal	Sagar Yadav	-	-	11	11	-	-	-	-	-
			Pashupalan	12.02.2012	Binda	Ashok	-	-	11	11	-	-	-	-	-
			Sabji Utpadan	12.02.2012	Chunvadh	Sondev		-	11	11	-	-	-	-	-
			Tilahan Utpadan	12.02.2012	Bhajan	Ram Ratan	-	-	11	11	-	-	-	-	-
			Khadyamaan Utpadan	12.02.2012	Brijmohan	Chote	-	-	11	11	-	-	-	-	-

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

Table 4.9: List of Central/State sponsored schemes

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

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 27.60 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.

Table 5.1: Entry point activities in Progress (EPA)

S. No.	Name of The Project	Amount Earmarked for EPA 4%	Proposed Entry Point Activities	Entry Point Activities	Estimated Cost (Rs. in Lakh)
1	Jari I / 2C1A7d3b	6.96	Well Repair, Hand Pump, Bathroom,	Work in Progress	6.96
2	Fatpurwa / 2C1A7d3a	2.64	Pulliya Bal manch, H Bathroom	Work in Progress	2.64
3	Mahokhar / 2C1A7d2c	1.97	Hand Pump, Bathroom, KBM	Work in Progress	1.97
4	Jari II / 2C1A7d3c	3.12	Drainage Channel, Well Repair,	Work in Progress	3.12
5	Jaurahi / 2C1A7d3d	4.13	Drainage Channel, Well Repair, Road	Work in Progress	4.13
6	Bilbai / 2C1A7n1c	2.88	Kisan vikas manch, Road Crossing,	Work in Progress	2.88
7	Hathuda / 2C1A7n1d	2.88	Bathroom, Kisan vikas manch,	Work in Progress	2.88
8	Kulkumhari / 2C1A7n1e	3.02	Drainage Channel, Well Repair,	Work in Progress	3.02
		27.60			27.60

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.

YEARWISE FINANCIAL BREAK UP OF LIVELIHOOD ACTIVITIES IWMP-XIV, DISTRICT- BANDA

Amount in Lacs

S. No.	Micro watershed	Project Area	Proposed Amount	Livelihood Activities 9% of the Total project Cost					
				2011-12	2012-13	2013-14	2014-15	2015-16	TOTAL
1	Mahokhar	1450	15.66	0.00	1.74	4.35	4.35	5.22	15.66
2	Fatpurwa	550	5.94	0.00	0.66	1.65	1.65	1.98	5.94
3	Jari I	410	4.43	0.00	0.49	1.23	1.23	1.48	4.43
4	Jari II	650	7.02	0.00	0.78	1.95	1.95	2.34	7.02
5	Jaurahi	860	9.29	0.00	1.03	2.58	2.58	3.10	9.29
6	Bilbai	600	6.48	0.00	0.72	1.80	1.80	2.16	6.48
7	Hathuda	600	6.48	0.00	0.72	1.80	1.80	2.16	6.48
8	Kulkumari	630	6.80	0.00	0.76	1.89	1.89	2.27	6.80
	Total	5750	62.10	0.00	6.90	17.25	17.25	20.70	62.10

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

DETAILS OF LIVELIHOOD ACTIVITIES AT GLANCE UNDER IWMP-XIV, DISTRICT-BANDA																							
S. No.	Gram Panchayat	General Merchant Shop						Goat Keeping						Poultry									
		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	Mahokhar		2	1	1	2	6			1	1	1	3		1	1		1	3				
2	Fatpurwa			1	1	1	3		1	1	1	1	4			1	1	1	3				
3	Jari I		1	1	1	2	5		1	1	1	1	4		2	1		1	4				
4	Jari II			1	1	1	3		1	2	1	2	6		1	1	1	2	5				
5	Jaurahi		1	1	1	2	5		1	1	1	1	4		1	1	1	1	4				
6	Bilbai		2	1	1	1	5		2	1	1	1	5		2	1	1	1	5				
7	Hathuda			1	1	2	4		1	1	1	2	5		1	1	1	2	5				
8	Kulkumari		1	1	1	2	5		2	1	1	1	5			1	1	1	3				
	Total	0	7	8	8	13	36	0	9	9	8	10	36	0	8	8	6	10	32				
Diary						Tailoring						Pottery						Weaving					
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	1	1	1	4		1	1	1	1	4			1	1	1	3		1	1	1	1	4
		1	1	1	3		1	1	1	1	4		1	1	1	1	4		1	1	2	1	5
	1	1	1	1	4		1	1	1	2	5		1	1	1	2	5		1	1	1	2	5
	1	1	1	2	5		1	1	1	1	4		1	1	1	1	4		1	1	1	1	4
	1	1	1	1	4		1	1	1	2	5		2	1	1	2	6		1	2	1	2	6
	1	1	1	1	4		1	1	1	1	4		2	1	1	1	5		1	1	2	1	5
	1	1	1	1	4		1	1	1	1	4			1	1	2	4		1	1	1	1	4
	1	1	1	1	4		1	1	1	2	5		1		1	2	4		1	1	2	1	5
0	7	8	8	9	32	0	8	8	8	11	35	0	8	7	8	12	35	0	8	9	11	10	38

Approx Cost

General Merchant Shop @ Rs. 25000/-
Tailoring @ 20000/-

Goat Keeping @ 25000/-
Pottery @ 25000/-

Poultry @ 25000/-
Weaving @25000/-

Diary @ 25000/-

FARM PRODUCTION SYSTEM (10%)

Type	Seed Demonstration Details	
Rabi Season	Wheat	Sorghum
	<ol style="list-style-type: none"> 1. Variety K 8027, NW-1012, 1076, HDR-77, Raj -107 2. Sowing Time: 15 November to 25 December 3- Seed rate – 100 -125 Kg/ hectare 4- Requirement of fertilizers / ha N- 125 Kg , P- 70 -75 Kg, K-70-75 Kg 5. FYM: 60 Ou. 6. Flowering Period: 80 to 85 days. 7. Crop Duration: 120-145 days. 8. Harvesting time: April to May 9. Yield: Irrigated: 50-60 Q/ha Un-irrigated: 30-35 Q/ha <p>Note- Hence demonstration cost of wheat /ha is Rs 13000.00 and the Total cost increases @ 10 % for next year</p>	<ol style="list-style-type: none"> 1. Variety: CSH-16, 9, 14, CSB-13, 15 2. Requirement of Seed /ha - 15 kg 3. Sowing Time - 15 th July to 15 th August 4. Requirement of fertilizers/ha N- 60.0 Kg , P- 40.00Kg, K- 40.00 Kg 5. Fertilizers requirement / ha N- 80.0 Kg , P- 50Kg, K- 40 Kg FYM: 50q 6. Flowering Period: 80-85 days. 7. Crop Duration: 120 to 130 days. 8. Harvesting time : 25 September to 5 October 9. Yield: Grain: 18-20 q/ha Dry Fodder: 200-250q/ha <p>Note- Hence demonstration cost of SORGHUM /ha is Rs 6500.00 and the Total cost increases @ 10 % for next year.</p>
	Gram	Mustard
	<ol style="list-style-type: none"> 1.Variety Irrigated - Udai , KWR – 108 , Pant G 186, Pusa-356 Rainfed - J.G. – 315 , Avrdhi 2. Sowing Time: 20 October to 15 November 3.Seed rate /ha – 75 -80 Kg 4.Fertilizers requirement / ha N- 25.0 Kg , P- 80Kg, K- 30 Kg 5.FYM: 60 q 6. Flowering Period: 60 to 75 days. 7. Crop Duration: 130-145 days. 8.Harvesting time : March To April 9.Harvesting time : February-March <p>Note- Hence demonstration cost of Gram /ha is Rs 16500.00 and the Total cost increases @ 10 % for next year.</p>	<ol style="list-style-type: none"> 1.Variety: Varsha, CSV 13, 15 Late – Vjeta, Bundela 2. Requirement of Seed /ha - 12 kg/ha 3. Sowing Time - June last week 4. Requirement of fertilizers / ha N- 80.0 Kg , P- 40.00Kg, K- 30.00 Kg 5. FYM: 50 q 6. Flowering Period: 60-55 days. 7. Crop Duration: 100 to 110 days. 8. Harvesting time : Last December to January 9. Yield: Grain: 20-25 q/ha <p>Note- Hence demonstration cost of Mustard /ha is Rs 6500.00 and the Total cost increases @ 10 % for next year.</p>

	Arhar	Maize
Kharif Season	<p>1. Variety -Long Durtion: Malviya -13 NA -1, NA-2 Short Duration: UPAS-120, ICPL-151, 8801</p> <p>2- Seed rate /ha – 20 Kg</p> <p>3. Sowing Time: June-July</p> <p>4- Fertilizers requirement / ha N- 20.0 Kg, P- 50Kg, K- 40 Kg</p> <p>4. FYM: 50 q</p> <p>5. Flowering Period: Long Duration: 160 to 175 days. Short Duration: 110-120 days</p> <p>6. Crop Duration: Long Duration: 270-280 days. Short Duration: 130-140 days</p> <p>7. Harvesting time: Long Duration: March To April, Short Duration: November to December</p> <p>8. Yield: Long Duration: 18-20 Q/ha Short Duration: 20-25 Q/ha</p> <p>Note- Hence demonstration cost of Arahar /ha is Rs 3500.00 and the Total cost increases @ 10 % for next year.</p>	<p>1. Variety: Hybrid: Ganga-2, 11,Shaktiman, Dakkan-7, Prakash, Sartaj</p> <p>2. Sankul: Tarun, Naveen, Kanchan, Sweta, Prabhat, Gaurav</p> <p>3. Requirement of Seed /ha - 15 kg I</p> <p>3. Sowing Time - 15 th July to 15 th August</p> <p>4. Requirement of fertilizers / ha N- 60.0 Kg , P- 40.00Kg, K- 40.00 Kg</p> <p>5. Fertilizers requirement / ha N- 80.0 Kg , P- 50Kg, K- 40 Kg FYM: 50 q</p> <p>6. Flowering Period: 80-85 days.</p> <p>7. Crop Duration: 120 to 130 days.</p> <p>8. Harvesting time: 25 September to 5 October</p> <p>9. Yield: Grain: 18-20 Q/ha Dry Fodder: 200-250 Q/ha</p> <p>Note- Hence demonstration cost of SORGHUM /ha is Rs 6500.00 and the Total cost cost increases @ 10 % for next year.</p>
	Seed	Distribution of high yield verity seed of Arhar, Wheat and maize, etc.
	Animal Husbandry	Organize of health camp animals, and feed for animals.
	Agriculture Toolkit	Distribution of agriculture toolkit to the individual.

DETAILS OF PRODUCTION SYSTEM & MICRO ENTERPRISES ACTIVITIES AT GLANCE UNDER IWMP-XIV

S. No.	Gram Panchayat	CROP DEMOSTRATION (Area in ha.)																								
		Wheat					Gram					Bajra					Urd					Moong				
		2010-11	2011-12	2012-13	2013-14	Total	2010-11	2011-12	2012-13	2013-14	Total	2010-11	2011-12	2012-13	2013-14	Total	2010-11	2011-12	2012-13	2013-14	Total	2010-11	2011-12	2012-13	2013-14	Total
1	Mahokhar	0	2	2	3	7	0	2	3	2	7	0	3	2	2	7	0	2	2	2	6	0	2	2	1	5
2	Fatpurwa	0	2	2	2	6	0	3	2	2	7	0	2	2	3	7	0	2	3	3	8	0	1	1	2	4
3	Jari I	0	1	2	3	6	0	1	2	2	5	0	2	3	2	7	0	2	2	2	6	0	2	3	1	6
4	Jari II	0	2	3	2	7	0	3	2	3	8	0	3	2	2	7	0	2	3	2	7	0	2	1	2	5
5	Jaurahi	0	2	2	2	6	0	2	2	2	6	0	3	2	3	8	0	2	2	3	7	0	1	2	2	5
6	Bilbai	0	2	2	3	7	0	2	2	2	6	0	2	3	2	7	0	2	3	2	7	0	2	2	1	5
7	Hathuda	0	1	2	2	5	0	1	2	1	4	0	1	2	1	4	0	1	1	2	4	0	1	1	2	4
8	Kulkumari	0	2	1	2	5	0	2	1	2	5	0	1	1	2	4	0	2	1	2	5	0	1	2	1	4
S. No.	Gram Panchayat	ANIMAL HUSBANDRY (in nos.)					HORTICULTURE (Area in ha.)					NURSURY (in nos.)					SEED DISTRIBUTION (in nos.)									
		2010-11	2011-12	2012-13	2013-14	Total	2010-11	2011-12	2012-13	2013-14	Total	2010-11	2011-12	2012-13	2013-14	Total	2010-11	2011-12	2012-13	2013-14	Total					
1	Mahokhar	0	1	1	2	4	0	1	1	2	4	0	2	2	2	6	0	2	2	1	5					
2	Fatpurwa	0	2	2	2	6	0	2	2	1	5	0	1	2	2	5	0	1	2	2	5					
3	Jari I	0	2	2	1	5	0	2	1	2	5	0	3	2	2	7	0	2	1	2	5					
4	Jari II	0	1	3	2	6	0	2	2	2	6	0	2	2	2	6	0	2	2	2	6					
5	Jaurahi	0	2	2	2	6	0	1	2	2	5	0	2	2	2	6	0	1	2	1	4					
6	Bilbai	0	2	2	2	6	0	1	2	2	5	0	2	2	2	6	0	2	1	2	5					
7	Hathuda	0	1	1	2	4	0	1	1	2	4	0	1	2	1	4	0	1	2	1	4					
8	Kulkumari	0	1	2	1	4	0	1	2	1	4	0	1	2	1	4	0	2	1	2	5					

Approx Rate: Crop demonstration is wheat @ Rs. 13000/ha, Gram @ Rs.16800/ha, Pea @ Rs. 7200/ha, Urd @ Rs. 6500/ha, Moong @ Rs. 6500/ha, Seed Distribution @ Rs. 20000/-, Horticulture toolkit @ Rs. 15000/- and Nursery @ Rs. 22000/- , Animal Husbandry @ 20000/-

YEARWISE FINANCIAL BREAK UP OF PRODUCTION & MICRO ENTERPRISES, IWMP-XIV, DISTRICT- BANDA

Amount in Lacs

S. No.	Micro watershed	Project Area	Proposed Amount	Production System & Microenterprises 10% of the Total Project Cost						WDF
				2011-12	2012-13	2013-14	2014-15	2015-16	TOTAL	
1	Mahokhar	1450	17.40	0.00	1.74	4.35	4.35	6.96	17.40	1.74
2	Fatpurwa	550	6.60	0.00	0.66	1.65	1.65	2.64	6.60	0.66
3	Jari I	410	4.92	0.00	0.49	1.23	1.23	1.97	4.92	0.49
4	Jari II	650	7.80	0.00	0.78	1.95	1.95	3.12	7.80	0.78
5	Jaurahi	860	10.32	0.00	1.03	2.58	2.58	4.13	10.32	1.03
6	Bilbai	600	7.20	0.00	0.72	1.80	1.80	2.88	7.20	0.72
7	Hathuda	600	7.20	0.00	0.72	1.80	1.80	2.88	7.20	0.72
8	Kulkumari	630	7.56	0.00	0.76	1.89	1.89	3.02	7.56	0.76
	Total	5750	69.00	0.00	6.90	17.25	17.25	27.60	69.00	6.90

The above action plan has been prepared according to the need and resources available in the project area. According to activity fund distribution has been made the details would be given beneficiary wise in the project file.

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 .

Annual action plan for the entire activity of the project according to availability of budget have been proposed for the annual schedule from 2011 to 2016.The details given below.

MWS CODE WISE ANNUAL ACTION PLAN OF IWMP-XIV, BANDA

Physical and Financial Break up of Watershed Development Works											Fin in lacs, Phy in ha	
MWS Code- 2C1A7n1c						MWS Name- Bilbai						
	Target as AAP											
Activity	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Land Development												
Afforestation												
Horticulture	0.00	0.00	0.00	0.00	0.75	0.14	1.05	0.20	1.20	0.23	3.00	0.57
Agriculture												
SMC												
Contour Bonding												
PB/MB	0.00	0.00	20.00	0.86	25.00	1.08	25.00	1.08	30.00	1.29	100.00	4.30
Bench terracing												
Veg. & Engg. Structures												
Earthen Checks												
Gully Plugs												
Others												
WHS												
SB	0.00	0.00	59.60	2.55	74.50	3.18	74.50	3.18	89.40	3.82	298.00	12.73
CD/ RCD (WHB)	0.00	0.00	39.80	1.54	49.75	1.93	49.75	1.93	59.70	2.32	199.00	7.72
Ground Water Recharge Structures		0.00		3.00		3.75		3.75		4.50		15.00
Others												
Sub Total	0.00	0.00	119.40	7.95	150.00	10.08	150.30	10.14	180.30	12.15	600.00	40.32
Livelihood		0.00		1.30		1.62		1.62		1.94		6.48
Production System		0.00		1.44		1.80		1.80		2.16		7.20
Grand Total	0.00	0.00	119.40	10.69	150.00	13.50	150.30	13.56	180.30	16.26	600.00	54.00

Physical and Financial Break up of Watershed Development Works											Fin in lacs, Phy in ha	
MWS Code- 2C1A7d2c						MWS Name- Mahokhar						
	Target as AAP											
Activity	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Land Development												
Afforestation		0.00		0.17		0.30		0.34		0.26		0.85
Horticulture	0.00	0.00	0.00	0.00	3.00	0.38	4.20	0.53	4.80	0.60	12.00	1.50
Agriculture												
SMC												
Contour Bonding	0.00	0.00	6.76	0.20	8.45	0.26	8.45	0.26	10.14	0.31	33.80	1.02
PB/MB												
Bench terracing												
Veg. & Engg. Structures												
Earthen Checks												
Gully Plugs												
Others												
WHS												
SB	0.00	0.00	252.28	14.21	315.35	17.77	315.35	17.77	378.42	21.32	1261.40	71.06
CD/ RCD (WHB)	0.00	0.00	28.56	1.60	35.70	2.00	35.70	2.00	42.84	2.40	142.80	8.01
Ground Water Recharge Structures		0.00		3.00		3.75		3.75		4.50		15.00
Others												
Sub Total	0.00	0.00	287.60	19.19	362.50	24.45	363.70	24.64	436.20	29.38	1450.00	97.44
Livelihood		0.00		3.13		3.92		3.92		4.70		15.66
Production System		0.00		3.48		4.35		4.35		5.22		17.40
Grand Total	0.00	0.00	287.60	25.80	362.50	32.71	363.70	32.90	436.20	39.30	1450.00	130.50

Physical and Financial Break up of Watershed Development Works											Fin in lacs, Phy in ha	
MWS Code- 2C1A7n1d						MWS Name- Hathaura						
	Target as AAP											
Activity	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Land Development												
Afforestation												
Horticulture	0.00	0.00	0.00	0.00	1.38	0.39	1.93	0.54	2.20	0.62	5.50	1.54
Agriculture												
SMC												
Contour Bonding												
PB/MB	0.00	0.00	25.40	1.61	31.75	2.02	31.75	2.02	38.10	2.42	127.00	8.07
Bench terracing												
Veg. & Engg. Structures												
Earthen Checks												
Gully Plugs												
Others												
WHS												
SB	0.00	0.00	79.00	2.90	98.75	3.63	98.75	3.63	118.50	4.35	395.00	14.50
CD/ RCD (WHB)	0.00	0.00	14.50	0.64	18.13	0.80	18.13	0.80	21.75	0.95	72.50	3.18
Ground Water Recharge Structures		0.00		2.61		3.26		3.26		3.91		13.03
Others												
Sub Total	0.00	0.00	118.90	7.76	150.00	10.08	150.55	10.23	180.55	12.25	600.00	40.32
Livelihood		0.00		1.30		1.62		1.62		1.94		6.48
Production System		0.00		1.44		1.80		1.80		2.16		7.20
Grand Total	0.00	0.00	118.90	10.49	150.00	13.50	150.55	13.65	180.55	16.35	600.00	54.00

Physical and Financial Break up of Watershed Development Works												Fin in lacs, Phy in ha
MWS Code- 2C1A7n1e				MWS Name- Kulkumahari								
	Target as AAP											
Activity	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Land Development												
Afforestation												
Horticulture	0.00	0.00	0.00	0.00	1.30	0.36	1.82	0.51	2.08	0.58	5.20	1.45
Agriculture												
SMC												
Contour Bonding												
PB/MB	0.00	0.00	34.56	1.77	43.20	2.21	43.20	2.21	51.84	2.66	172.80	8.85
Bench terracing												
Veg. & Engg. Structures												
Earthen Checks												
Gully Plugs												
Others												
WHS												
SB	0.00	0.00	71.20	3.03	89.00	3.79	89.00	3.79	106.80	4.55	356.00	15.17
CD/ RCD (WHB)	0.00	0.00	19.20	0.69	24.00	0.87	24.00	0.87	28.80	1.04	96.00	3.46
Ground Water Recharge Structures		0.00		2.68		3.35		3.35		4.02		13.40
Others												
Sub Total	0.00	0.00	124.96	8.18	157.50	10.58	158.02	10.73	189.52	12.84	630.00	42.33
Livelihood		0.00		1.36		1.70		1.70		2.04		6.80
Production System		0.00		1.51		1.89		1.89		2.27		7.56
Grand Total	0.00	0.00	124.96	11.05	157.50	14.17	158.02	14.32	189.52	17.15	630.00	56.69

Physical and Financial Break up of Watershed Development Works												Fin in lacs, Phy in ha
MWS Code- 2C1A7d3d						MWS Name- Jaurahi						
	Target as AAP											
Activity	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Land Development												
Afforestation												
Horticulture	0.00	0.00	0.00	0.00	2.25	0.60	3.15	0.83	3.60	0.95	9.00	2.38
Agriculture												
SMC												
Contour Bonding												
PB/MB	0.00	0.00	61.20	1.99	76.50	2.49	76.50	2.49	91.80	2.99	306.00	9.95
Bench terracing												
Veg. & Engg. Structures												
Earthen Checks												
Gully Plugs												
Others												
WHS												
SB	0.00	0.00	95.40	3.51	119.25	4.39	119.25	4.39	143.10	5.27	477.00	17.57
CD/ RCD (WHB)	0.00	0.00	13.60	0.59	17.00	0.74	17.00	0.74	20.40	0.89	68.00	2.95
Ground Water Recharge Structures		0.00		4.99		6.24		6.24		7.48		24.94
Others												
Sub Total	0.00	0.00	170.20	11.08	215.00	14.45	215.90	14.69	258.90	17.58	860.00	57.79
Livelihood		0.00		1.86		2.32		2.32		2.79		9.29
Production System		0.00		2.06		2.58		2.58		3.10		10.32
Grand Total	0.00	0.00	170.20	15.00	215.00	19.35	215.90	19.59	258.90	23.46	860.00	77.40

Physical and Financial Break up of Watershed Development Works											Fin in lacs, Phy in ha	
MWS Code- 2C1A7d3a					MWS Name- Fathpurwa							
	Target as AAP											
Activity	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Land Development												
Afforestation	0.00	0.00	0.00	0.06	0.00	0.11	0.00	0.13	0.00	0.10	0.00	0.32
Horticulture	0.00	0.00	0.00	0.00	1.75	0.18	2.45	0.25	2.80	0.28	7.00	0.70
Agriculture												
SMC												
Contour Bonding												
PB/MB												
Bench terracing												
Veg. & Engg. Structures												
Earthen Checks												
Gully Plugs												
Others												
WHS												
SB	0.00	0.00	69.33	2.96	86.67	3.71	86.67	3.71	104.00	4.45	346.66	14.82
CD/ RCD (WHB)	0.00	0.00	39.27	2.19	49.09	2.74	49.09	2.74	58.90	3.29	196.34	10.95
Ground Water Recharge Structures		0.00		2.03		2.54		2.54		3.05		10.17
Others												
Sub Total	0.00	0.00	108.60	7.25	137.50	9.27	138.20	9.36	165.70	11.16	550.00	36.96
Livelihood		0.00		1.19		1.49		1.49		1.78		5.94
Production System		0.00		1.32		1.65		1.65		1.98		6.60
Grand Total	0.00	0.00	108.60	9.76	137.50	12.41	138.20	12.49	165.70	14.92	550.00	49.50

Physical and Financial Break up of Watershed Development Works											Fin in lacs, Phy in ha	
MWS Code- 2C1A7d3b					MWS Name- Jari 1st							
	Target as AAP											
Activity	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Land Development												
Afforestation	0.00	0.00	0.00	0.08	0.00	0.14	0.00	0.16	0.00	0.12	0.00	0.40
Horticulture	0.00	0.00	0.00	0.00	1.38	0.24	1.93	0.34	2.20	0.38	5.50	0.96
Agriculture												
SMC												
Contour Bonding	0.00	0.00	8.10	0.23	10.13	0.29	10.13	0.29	12.15	0.35	40.50	1.16
PB/MB												
Bench terracing												
Veg. & Engg. Structures												
Earthen Checks												
Gully Plugs												
Others												
WHS												
SB	0.00	0.00	72.80	3.59	91.00	4.49	91.00	4.49	109.20	5.38	364.00	17.94
CD/ RCD (WHB)												
Ground Water Recharge Structures		0.00		1.42		1.77		1.77		2.13		7.09
Others												
Sub Total	0.00	0.00	80.90	5.32	102.50	6.93	103.05	7.04	123.55	8.36	410.00	27.55
Livelihood		0.00		0.89		1.11		1.11		1.33		4.43
Production System		0.00		0.98		1.23		1.23		1.48		4.92
Grand Total	0.00	0.00	80.90	7.19	102.50	9.27	103.05	9.38	123.55	11.17	410.00	36.90

Physical and Financial Break up of Watershed Development Works											Fin in lacs, Phy in ha	
MWS Code- 2C1A7d3c						MWS Name- Jari 2nd						
	Target as AAP											
Activity	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Land Development												
Afforestation	0.00	0.00	0.00	0.06	0.00	0.11	0.00	0.13	0.00	0.10	0.00	0.32
Horticulture	0.00	0.00	0.00	0.00	1.50	0.30	2.10	0.42	2.40	0.48	6.00	1.20
Agriculture												
SMC												
Contour Bonding	0.00	0.00	1.00	0.04	1.25	0.05	1.25	0.05	1.50	0.06	5.00	0.20
PB/MB												
Bench terracing												
Veg. & Engg. Structures												
Earthen Checks												
Gully Plugs												
Others												
WHS												
SB	0.00	0.00	91.80	4.50	114.75	5.63	114.75	5.63	137.70	6.76	459.00	22.52
CD/ RCD (WHB)	0.00	0.00	36.00	3.10	45.00	3.88	45.00	3.88	54.00	4.65	180.00	15.50
Ground Water Recharge Structures		0.00		0.79		0.99		0.99		1.18		3.94
Others												
Sub Total	0.00	0.00	128.80	8.50	162.50	10.95	163.10	11.09	195.60	13.22	650.00	43.68
Livelihood		0.00		1.40		1.76		1.76		2.11		7.02
Production System		0.00		1.56		1.95		1.95		2.34		7.80
Grand Total	0.00	0.00	128.80	11.46	162.50	14.66	163.10	14.79	195.60	17.67	650.00	58.50

GRAM PANCHAYAT WISE ANNUAL ACTION PLAN OF IWMP-XIV, BANDA

MWS Code- 2C1A7d2c						GP Name-Gureh							
Activity	Target as AAP												
	2011-12		2012-13		2013-14		2014-15		2015-16		Total		
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Land Development													
Afforestation	0.00	0.00	0.00	0.03	0.00	0.05	0.00	0.06	0.00	0.05	0.00	0.15	
Horticulture													
Agriculture													
SMC													
Contour Bonding													
PB/MB													
Bench terracing													
Veg. & Engg. Structures													
Earthen Checks													
Gully Plugs													
Others													
WHS													
SB	0.00	0.00	36.00	2.29	45.00	2.86	45.00	2.86	54.00	3.44	180.00	11.45	
CD/ RCD (WHB)													
Ground Water Recharge Structures		0.00		0.10		0.12		0.12		0.15		0.49	
Others													
Sub Total	0.00	0.00	36.00	2.42	45.00	3.04	45.00	3.05	54.00	3.63	180.00	12.09	
Livelihood		0.00		0.39		0.49		0.49		0.58		1.94	
Production System		0.00		0.43		0.54		0.54		0.65		2.17	
Total	0.00	0.00	36.00	3.24	45.00	4.07	45.00	4.07	54.00	4.86	180.00	16.20	

MWS Code- 2C1A7d2c						GP Name-Bargahani						
Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Land Development												
Afforestation												
Horticulture												
Agriculture												
SMC												
Contour Bonding												
PB/MB												
Bench terracing												
Veg. & Engg. Structures												
Earthen Checks												
Gully Plugs												
Others												
WHS												
SB	0.00	0.00	17.24	1.03	21.55	1.29	21.55	1.29	25.86	1.55	86.20	5.17
CD/ RCD (WHB)	0.00	0.00	2.76	0.08	3.45	0.10	3.45	0.10	4.14	0.12	13.80	0.40
Ground Water Recharge Structures		0.00		0.23		0.29		0.29		0.35		1.15
Others												
Sub Total	0.00	0.00	20.00	1.34	25.00	1.68	25.00	1.68	30.00	2.02	100.00	6.72
Livelihood		0.00		0.22		0.27		0.27		0.32		1.08
Production System		0.00		0.24		0.30		0.30		0.36		1.20
Total	0.00	0.00	20.00	1.80	25.00	2.25	25.00	2.25	30.00	2.70	100.00	9.00

MWS Code- 2C1A7d2c							GP Name-Mahokhar					
Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Land Development												
Afforestation	0.00	0.00	0.00	0.06	0.00	0.11	0.00	0.12	0.00	0.09	0.00	0.30
Horticulture	0.00	0.00	0.00	0.00	1.25	0.18	1.75	0.25	2.00	0.28	5.00	0.70
Agriculture												
SMC												
Contour Bonding												
PB/MB												
Bench terracing												
Veg. & Engg. Structures												
Earthen Checks												
Gully Plugs												
Others												
WHS												
SB	0.00	0.00	97.00	5.34	121.25	6.68	121.25	6.68	145.50	8.02	485.00	26.72
CD/ RCD (WHB)												
Ground Water Recharge Structures		0.00		1.04		1.30		1.30		1.56		5.21
Others												
Sub Total	0.00	0.00	97.00	6.45	122.50	8.26	123.00	8.35	147.50	9.95	490.00	32.93
Livelihood		0.00		1.06		1.32		1.32		1.59		5.29
Production System		0.00		1.18		1.47		1.47		1.76		5.88
Total	0.00	0.00	97.00	8.68	122.50	11.06	123.00	11.14	147.50	13.30	490.00	44.10

MWS Code- 2C1A7d3a, 2C1A7d3b							GP Name-Fathpurwa					
Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Land Development												
Afforestation	0.00	0.00	0.00	0.06	0.00	0.11	0.00	0.13	0.00	0.09	0.00	0.32
Horticulture	0.00	0.00	0.00	0.00	1.63	0.17	2.28	0.23	2.60	0.26	6.50	0.66
Agriculture												
SMC												
Contour Bonding	0.00	0.00	2.00	0.06	2.50	0.08	2.50	0.08	3.00	0.09	10.00	0.30
PB/MB												
Bench terracing												
Veg. & Engg. Structures												
Earthen Checks												
Gully Plugs												
Others												
WHS												
SB	0.00	0.00	49.30	2.91	61.63	3.63	61.63	3.63	73.95	4.36	246.50	14.53
CD/ RCD (WHB)	0.00	0.00	16.00	1.13	20.00	1.41	20.00	1.41	24.00	1.70	80.00	5.65
Ground Water Recharge Structures		0.00		0.32		0.40		0.40		0.48		1.60
Others												
Sub Total	0.00	0.00	67.30	4.48	85.75	5.80	86.40	5.88	103.55	6.98	343.00	23.06
Livelihood		0.00		0.74		0.93		0.93		1.11		3.70
Production System		0.00		0.82		1.03		1.03		1.24		4.12
Total	0.00	0.00	67.30	6.04	85.75	7.75	86.40	7.83	103.55	9.33	343.00	30.88

MWS Code- 2C1A7d3a						GP Name-Saimara						
Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Land Development												
Afforestation	0.00	0.00	0.00	0.02	0.00	0.04	0.00	0.04	0.00	0.03	0.00	0.11
Horticulture	0.00	0.00	0.00	0.00	0.50	0.05	0.70	0.07	0.80	0.08	2.00	0.20
Agriculture												
SMC												
Contour Bonding												
PB/MB												
Bench terracing												
Veg. & Engg. Structures												
Earthen Checks												
Gully Plugs												
Others												
WHS												
SB	0.00	0.00	27.40	1.16	34.25	1.45	34.25	1.45	41.10	1.73	137.00	5.78
CD/ RCD (WHB)	0.00	0.00	23.20	1.06	29.00	1.33	29.00	1.33	34.80	1.59	116.00	5.30
Ground Water Recharge Structures		0.00		1.15		1.44		1.44		1.73		5.75
Others												
Sub Total	0.00	0.00	50.60	3.39	63.75	4.30	63.95	4.32	76.70	5.16	255.00	17.14
Livelihood		0.00		0.55		0.69		0.69		0.83		2.75
Production System		0.00		0.61		0.77		0.77		0.92		3.06
Total	0.00	0.00	50.60	4.55	63.75	5.75	63.95	5.77	76.70	6.91	255.00	22.95

MWS Code- 2C1A7d3a, 2C1A7d3b, 2C1A7d3c, 2C1A7d3d											GP Name-Jari	
Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Land Development												
Afforestation	0.00	0.00	0.00	0.19	0.00	0.33	0.00	0.38	0.00	0.29	0.00	0.95
Horticulture	0.00	0.00	0.00	0.00	4.25	0.77	5.95	1.07	6.80	1.22	17.00	3.06
Agriculture												
SMC												
Contour Bonding	0.00	0.00	12.76	0.39	15.95	0.48	15.95	0.48	19.14	0.58	63.80	1.93
PB/MB	0.00	0.00	7.60	0.16	9.50	0.20	9.50	0.20	11.40	0.23	38.00	0.78
Bench terracing												
Veg. & Engg. Structures												
Earthen Checks												
Gully Plugs												
Others												
WHS												
SB	0.00	0.00	254.44	12.71	318.05	15.89	318.05	15.89	381.66	19.07	1272.20	63.56
CD/ RCD (WHB)	0.00	0.00	61.80	4.64	77.25	5.80	77.25	5.80	92.70	6.96	309.00	23.21
Ground Water Recharge Structures		0.00		4.15		5.19		5.19		6.23		20.75
Others												
Sub Total	0.00	0.00	336.60	22.24	425.00	28.66	426.70	29.01	511.70	34.58	1700.00	114.24
Livelihood		0.00		3.67		4.59		4.59		5.51		18.36
Production System		0.00		4.08		5.10		5.10		6.12		20.40
Total	0.00	0.00	336.60	29.99	425.00	38.35	426.70	38.70	511.70	46.21	1700.00	153.00

MWS Code- 2C1A7d3b, 2C1A7d3c, 2C1A7n1c								GP Name-Bilbai				
Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Land Development												
Afforestation												
Horticulture	0.00	0.00	0.00	0.00	0.50	0.07	0.70	0.09	0.80	0.11	2.00	0.27
Agriculture												
SMC												
Contour Bonding	0.00	0.00	1.10	0.03	1.38	0.04	1.38	0.04	1.65	0.05	5.50	0.15
PB/MB	0.00	0.00	20.00	0.86	25.00	1.08	25.00	1.08	30.00	1.29	100.00	4.30
Bench terracing												
Veg. & Engg. Structures												
Earthen Checks												
Gully Plugs												
Others												
WHS												
SB	0.00	0.00	74.70	3.40	93.38	4.25	93.38	4.25	112.05	5.10	373.50	16.99
CD/ RCD (WHB)	0.00	0.00	39.80	1.54	49.75	1.93	49.75	1.93	59.70	2.31	199.00	7.71
Ground Water Recharge Structures		0.00		3.26		4.07		4.07		4.88		16.28
Others												
Sub Total	0.00	0.00	135.60	9.09	170.00	11.43	170.20	11.45	204.20	13.74	680.00	45.70
Livelihood		0.00		1.47		1.84		1.84		2.20		7.34
Production System		0.00		1.63		2.04		2.04		2.45		8.16
Total	0.00	0.00	135.60	12.19	170.00	15.30	170.20	15.33	204.20	18.39	680.00	61.20

MWS Code- 2C1A7n1d, 2C1A7n1e, 2C1A7d3d							GP Name-Hathaura					
Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Land Development												
Afforestation												
Horticulture	0.00	0.00	0.00	0.00	0.93	0.24	1.30	0.33	1.48	0.38	3.70	0.95
Agriculture												
SMC												
Contour Bonding												
PB/MB	0.00	0.00	9.76	0.60	12.20	0.75	12.20	0.75	14.64	0.90	48.80	2.99
Bench terracing												
Veg. & Engg. Structures												
Earthen Checks												
Gully Plugs												
Others												
WHS												
SB	0.00	0.00	46.50	1.31	58.13	1.64	58.13	1.64	69.75	1.97	232.50	6.56
CD/ RCD (WHB)												
Ground Water Recharge Structures		0.00		1.73		2.16		2.16		2.60		8.65
Others												
Sub Total	0.00	0.00	56.26	3.64	71.25	4.79	71.62	4.88	85.87	5.84	285.00	19.15
Livelihood		0.00		0.62		0.77		0.77		0.92		3.08
Production System		0.00		0.68		0.86		0.86		1.03		3.42
Total	0.00	0.00	56.26	4.94	71.25	6.41	71.62	6.51	85.87	7.79	285.00	25.65

MWS Code- 2C1A7n1d, 2C1A7n1c, 2C1A7n3d							GP Name-Doha					
Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Land Development												
Afforestation												
Horticulture	0.00	0.00	0.00	0.00	1.25	0.31	1.75	0.43	2.00	0.50	5.00	1.24
Agriculture												
SMC												
Contour Bonding												
PB/MB	0.00	0.00	12.80	0.54	16.00	0.67	16.00	0.67	19.20	0.80	64.00	2.68
Bench terracing												
Veg. & Engg. Structures												
Earthen Checks												
Gully Plugs												
Others												
WHS												
SB	0.00	0.00	31.20	1.20	39.00	1.50	39.00	1.50	46.80	1.79	156.00	5.98
CD/ RCD (WHB)	0.00	0.00	13.00	0.49	16.25	0.61	16.25	0.61	19.50	0.73	65.00	2.44
Ground Water Recharge Structures		0.00		1.43		1.79		1.79		2.14		7.14
Others												
Sub Total	0.00	0.00	57.00	3.65	72.50	4.87	73.00	4.99	87.50	5.97	290.00	19.48
Livelihood		0.00		0.63		0.78		0.78		0.94		3.13
Production System		0.00		0.70		0.87		0.87		1.05		3.49
Total	0.00	0.00	57.00	4.97	72.50	6.53	73.00	6.65	87.50	7.95	290.00	26.10

MWS Code- 2C1A7n1d, 2C1A7n1e							GP Name-Chhanera Lalpur					
Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Land Development												
Afforestation												
Horticulture	0.00	0.00	0.00	0.00	1.13	0.32	1.58	0.44	1.80	0.50	4.50	1.26
Agriculture												
SMC												
Contour Bonding												
PB/MB	0.00	0.00	19.60	1.29	24.50	1.62	24.50	1.62	29.40	1.94	98.00	6.47
Bench terracing												
Veg. & Engg. Structures												
Earthen Checks												
Gully Plugs												
Others												
WHS												
SB	0.00	0.00	26.40	1.39	33.00	1.74	33.00	1.74	39.60	2.09	132.00	6.97
CD/ RCD (WHB)	0.00	0.00	7.10	0.39	8.88	0.48	8.88	0.48	10.65	0.58	35.50	1.93
Ground Water Recharge Structures		0.00		0.30		0.38		0.38		0.45		1.51
Others												
Sub Total	0.00	0.00	53.10	3.38	67.50	4.54	67.95	4.66	81.45	5.57	270.00	18.14
Livelihood		0.00		0.58		0.73		0.73		0.87		2.91
Production System		0.00		0.65		0.81		0.81		0.98		3.25
Total	0.00	0.00	53.10	4.61	67.50	6.08	67.95	6.20	81.45	7.42	270.00	24.30

MWS Code- 2C1A7n1c						GP Name-Kulkumahari							
Activity	Target as AAP												
	2011-12		2012-13		2013-14		2014-15		2015-16		Total		
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Land Development													
Afforestation													
Horticulture	0.00	0.00	0.00	0.00	0.25	0.07	0.35	0.10	0.40	0.11	1.00	0.28	
Agriculture													
SMC													
Contour Bonding													
PB/MB	0.00	0.00	15.80	0.92	19.75	1.15	19.75	1.15	23.70	1.37	79.00	4.58	
Bench terracing													
Veg. & Engg. Structures													
Earthen Checks													
Gully Plugs													
Others													
WHS													
SB	0.00	0.00	22.40	1.00	28.00	1.25	28.00	1.25	33.60	1.50	112.00	4.99	
CD/ RCD (WHB)	0.00	0.00	13.60	0.45	17.00	0.57	17.00	0.57	20.40	0.68	68.00	2.26	
Ground Water Recharge Structures		0.00		1.07		1.34		1.34		1.61		5.36	
Others													
Sub Total	0.00	0.00	51.80	3.44	65.00	4.37	65.10	4.40	78.10	5.27	260.00	17.47	
Livelihood		0.00		0.56		0.70		0.70		0.84		2.80	
Production System		0.00		0.63		0.78		0.78		0.94		3.13	
Total	0.00	0.00	51.80	4.62	65.00	5.85	65.10	5.88	78.10	7.05	260.00	23.40	

MWS Code- 2C1A7n1e						GP Name-Kurauli							
Activity	Target as AAP												
	2011-12		2012-13		2013-14		2014-15		2015-16		Total		
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Land Development													
Afforestation													
Horticulture													
Agriculture													
SMC													
Contour Bonding													
PB/MB													
Bench terracing													
Veg. & Engg. Structures													
Earthen Checks													
Gully Plugs													
Others													
WHS													
SB	0.00	0.00	5.00	0.22	6.25	0.28	6.25	0.28	7.50	0.33	25.00	1.10	
CD/ RCD (WHB)													
Ground Water Recharge Structures		0.00		0.12		0.15		0.15		0.17		0.58	
Others													
Sub Total	0.00	0.00	5.00	0.34	6.25	0.42	6.25	0.42	7.50	0.50	25.00	1.68	
Livelihood		0.00		0.05		0.07		0.07		0.08		0.27	
Production System		0.00		0.06		0.08		0.08		0.09		0.30	
Total	0.00	0.00	5.00	0.45	6.25	0.56	6.25	0.56	7.50	0.68	25.00	2.25	

MWS Code- 2C1A7n1e							GP Name-Saheva					
Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Land Development												
Afforestation												
Horticulture	0.00	0.00	0.00	0.00	0.50	0.14	0.70	0.20	0.80	0.22	2.00	0.56
Agriculture												
SMC												
Contour Bonding												
PB/MB	0.00	0.00	13.60	0.51	17.00	0.64	17.00	0.64	20.40	0.76	68.00	2.54
Bench terracing												
Veg. & Engg. Structures												
Earthen Checks												
Gully Plugs												
Others												
WHS												
SB	0.00	0.00	28.00	1.01	35.00	1.27	35.00	1.27	42.00	1.52	140.00	5.06
CD/ RCD (WHB)												
Ground Water Recharge Structures		0.00		1.19		1.49		1.49		1.79		5.95
Others												
Sub Total	0.00	0.00	41.60	2.71	52.50	3.53	52.70	3.58	63.20	4.29	210.00	14.11
Livelihood		0.00		0.65		0.82		0.82		0.98		3.27
Production System		0.00		0.50		0.63		0.63		0.76		2.52
Total	0.00	0.00	41.60	3.87	52.50	4.98	52.70	5.03	63.20	6.03	210.00	19.90

MWS Code- 2C1A7d3d, 2C1A7d2c, 2C1A7d3c								GP Name-Jaurahi				
Activity	Target as AAP											
	2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Land Development												
Afforestation	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.03	0.00	0.02	0.00	0.07
Horticulture	0.00	0.00	0.00	0.00	1.25	0.28	1.75	0.39	2.00	0.44	5.00	1.11
Agriculture												
SMC												
Contour Bonding												
PB/MB	0.00	0.00	42.00	1.37	52.50	1.71	52.50	1.71	63.00	2.05	210.00	6.83
Bench terracing												
Veg. & Engg. Structures												
Earthen Checks												
Gully Plugs												
Others												
WHS												
SB	0.00	0.00	75.80	3.41	94.75	4.26	94.75	4.26	113.70	5.12	379.00	17.05
CD/ RCD (WHB)	0.00	0.00	13.60	0.59	17.00	0.74	17.00	0.74	20.40	0.89	68.00	2.95
Ground Water Recharge Structures		0.00		3.29		4.11		4.11		4.93		16.44
Others												
Sub Total	0.00	0.00	131.40	8.67	165.50	11.12	166.00	11.23	199.10	13.45	662.00	44.45
Livelihood		0.00		1.43		1.79		1.79		2.14		7.14
Production System		0.00		1.59		1.99		1.99		2.39		7.95
Total	0.00	0.00	131.40	11.69	165.50	14.89	166.00	15.01	199.10	17.97	662.00	59.54
Grand Total	0.00	0.00	1139.26	101.64	1437.50	129.81	1442.87	130.93	1730.37	156.57	5750.00	517.50

CHAPTER – 6

CAPACITY BUILDING PLAN

The total amount in this activity is Rs 34.50 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.

			First Year				Second Year				Third Year				Fourth 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	No of person to be trained	No of training to be conduct	Training day	Total Cost
1	SLNA					0.83				0.55				0.69				0.00
2	WCDC	21	21	2	3	2.07	15	2	3	1.38	12	2	4	1.73	0	0	0	1.04
3	PIA	19	19	3	4	1.90	14	3	4	1.27	12	2	4	1.59	10	2	4	0.48
4	WDT	3	3	3	3	0.95	3	2	4	0.63	3	2	6	0.79	3	2	6	0.24
5	SHG	160	160	1	2	2.38	125	1	3	1.59	90	1	3	1.98	50	1	1	0.60
6	UG	240	240	1	2	3.33	190	1	2	2.22	175	1	2	2.78	125	1	1	0.85
7	WC	170	170	1	2	0.95	115	1	2	0.63	95	1	2	0.79	65	2	1	0.24
	TOTAL					12.42				8.28				10.35				3.45

CHAPTER -7

PHASING OF PROGRAMME & BUDGETING

FINANCIAL BREAKUP OF VARIOUS COMPONENT IN TERMS OF % OF IWMP-XIV, DISTRICT-BANDA

Amount in Lacs

S. No.	Micro Watershed	Project Area	Proposed Amount	Administrative 10%	EPA 4%	Institution and CB 5%	DPR 1%	Watershed development work 56%	Livelihood for asset less 9%	Production system and Microenterprises 10%	Monitoring 1%	Evaluation 1%	Consolidation 3%	Total 100%
1	Mahokhar	1450	174.00	17.40	6.96	8.70	1.74	97.44	15.66	17.40	1.74	1.74	5.22	174.00
2	Fatpurwa	550	66.00	6.60	2.64	3.30	0.66	36.96	5.94	6.60	0.66	0.66	1.98	66.00
3	Jari I	410	49.20	4.92	1.97	2.46	0.49	27.55	4.43	4.92	0.49	0.49	1.48	49.20
4	Jari II	650	78.00	7.80	3.12	3.90	0.78	43.68	7.02	7.80	0.78	0.78	2.34	78.00
5	Jaurahi	860	103.20	10.32	4.13	5.16	1.03	57.79	9.29	10.32	1.03	1.03	3.10	103.20
6	Bilbai	600	72.00	7.20	2.88	3.60	0.72	40.32	6.48	7.20	0.72	0.72	2.16	72.00
7	Hathuda	600	72.00	7.20	2.88	3.60	0.72	40.32	6.48	7.20	0.72	0.72	2.16	72.00
8	Kulkumari	630	75.60	7.56	3.02	3.78	0.76	42.34	6.80	7.56	0.76	0.76	2.27	75.60
	Total	5750	690.00	69.00	27.60	34.50	6.90	386.40	62.10	69.00	6.90	6.90	20.70	690.00

**YEARWISE PHYSICAL AND FINANCIAL BREAK UP OF WORK COMPONENT OF IWMP-XIV,
DISTRICT - BANDA**

Watershed Development Works 56% of the Project Cost

Phy. in ha, Fin. In lacs

S. No.	Micro Watershed	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	Mahokhar	1450	97.44	0.00	0.00	194.18	13.05	418.82	28.14	418.82	28.14	418.18	28.10	1450.00	97.44
2	Fatpurwa	550	36.96	0.00	0.00	73.66	4.95	158.86	10.68	158.86	10.68	158.62	10.66	550.00	36.96
3	Jari I	410	27.55	0.00	0.00	54.91	3.69	118.42	7.96	118.42	7.96	118.24	7.95	410.00	27.55
4	Jari II	650	43.68	0.00	0.00	87.05	5.85	187.75	12.62	187.75	12.62	187.46	12.60	650.00	43.68
5	Jaurahi	860	57.79	0.00	0.00	115.17	7.74	248.40	16.69	248.40	16.69	248.02	16.67	860.00	57.79
6	Bilbai	600	40.32	0.00	0.00	80.35	5.40	173.30	11.65	173.30	11.65	173.04	11.63	600.00	40.32
7	Hathuda	600	40.32	0.00	0.00	80.35	5.40	173.30	11.65	173.30	11.65	173.04	11.63	600.00	40.32
8	Kulkumari	630	42.34	0.00	0.00	84.37	5.67	181.97	12.23	181.97	12.23	181.69	12.21	630.00	42.34
	Total	5750	386.40	0.00	0.00	770.04	51.75	1660.83	111.61	1660.83	111.61	1658.30	111.44	5750.00	386.40

CHAPTER -8

QUALITATIVE ISSUES

PLAN FOR MONITORING OF THE PROJECT

The above project would be monitored regularly by the Watershed Development Team as per the norms of common guideline 2008. There will be every fortnight monitoring schedule have been proposed by the PIA of the project. A Web-based GIS system is being developed for monitoring and evaluating the project in its planning & implementation phases. The system would be available on a public domain and can be accessed by all the stakeholder of the project. The system shows the entire state of Uttar Pradesh and all of those areas selected over the next 18 years. Filtering allows the user to zoom onto one particular project. Details related to soil type, Land-use classification, inhabitation etc., can be obtained village-wise. Furthermore, survey-number wise details related to ownership, irrigation source, yield etc., can also be accessed by the users of the system. This system is being used for pooling up the details obtained from the DPR. In other words, the DPR is made available online in the form of a database which will help the stakeholders know areas of importance viz., already treated areas/historical works in the area, proposed areas for treatment etc., for further treatment and planning. The system would also show the satellite imageries of various years from the project inception stage to the project closing stages. This allows the user to evaluate the effectiveness of the treatment and thereby plan corrective measures for the project area. The system would serve as an aiding tool to the planners and evaluate the effectiveness of the treatment and thereby plan corrective measures for the project area. The system would serve as an aiding tool to the planners and evaluators for judging the efficacy of the project.

PLAN FOR EVALUATION OF THE PROJECT

The evaluation of the project would be done by the state and central agency as proposed by the SLNA of the state. The evaluation of the project would also be done by the expert of the respective field like Water Management and Land Resources Management after the completion of the project.

PLAN FOR PROJECT MANAGEMENT

The project management of a watershed programme is very important. It mainly depends upon the community organization and the village level institutes. In watershed committee and various user groups have been formulated for post project operation and maintenance of assets created during project period. Major emphasis will on equity and sustainable benefit of the project even after implementation stage. A proper linkup will be built during project period with various institutes and capacity building organization. They will act as a major kingpin during post implementation for scaling up the successful experience during project.

CHAPTER -9

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

ECONOMIC ANALYSIS

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

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

AGRICULTURE

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

CHAPTER -10

EXPECTED OUTCOME

EMPLOYMENT

Employment has always been a problem in the village. The principal occupations of the people are dry land agriculture, animal husbandry and casual labour work. Animal husbandry does not keep them engaged full time, thus the people mainly depend upon casual labour, either in the village itself or outside it.

The project plans for creation of both wage employment and self employment opportunities. Wage employment would be created by engaging people in watershed physical works like construction of earthen bunds, farm bunds, village pond, plantation, etc. Self employment would be created by providing the people with cash support in the form of direct livelihood activities like agriculture, animal husbandry and other enterprise development.

Labour migration in search of gainful employment is one of the major problems in the remote watershed in particular. Casual employment opportunities will be generated during the implementation of the project activities. However, the changes in land use pattern and adoption of other subsidiary enterprises will generate employment opportunities for persons in the watershed.

MIGRATION

On account of agriculture and animal husbandry providing only part time employment for some part of the year, the people migrate for a better half of the year for wage labour. Employment opportunities in the local area as mentioned above will ensure lessening seasonal migration from the area.

DRINKING WATER

As a result of the watershed activities, it is expected that the quantity and quality of drinking water would be improve. The ground water quality of the project area is normal to good, the average Ph value is 6.7 to 7.8, the Electric conductivity of the ground water is about 957 to 1125 μ . The overall analysis of the ground water shows that the water is good for the drinking purpose. The water level in the project area ranges from 7.5 to 8.5 meters.

VEGETATIVE COVER

There is negligible area under tree cover. The village has a negligible forest area which consists of only Prosopis Juliflora (babool). Trees like Neem and Alianthus are seen just here and there, not concentrated in any area.

AGRICULTURE

Food crop production is a major land based activity in the watershed. Traditional cultivation practices, coupled with poor quality seeds and long duration crops varieties result in low crop yields. Crops are taken under rainfed as well as irrigated conditions. The yield levels of rainfed crops are particularly very poor. Large variation has been noticed in productivity of wheat and Jowar under rainfed and irrigation, condition respectively. At present level of rainfed farming, the total produce from Rabi and Kharif crops obtained by a medium size of holding owning family can meet food requirements for up to 6 to 7 months only.

The farmers also do not have suitable cropping systems to deal aberrant weather. Weeds impose considerable constraints in producing of both Kharif and rabi crops under irrigation as well as rain-fed production system. Use of weedicide is rare in the watershed. It is expected that the post project period would see a substantial increase in agriculture production and yield from them.

LIVESTOCK

The village has quite a good of livestock population. These include cows, bullocks, buffaloes, goats. The interventions like provision of good quality cows and buffaloes, the establishment of a fodder bank and other such related activities would spur up the dairy development in the village. It is expected that the post project period would see a substantial increase in livestock population and yield from them.

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 have been analysed after the completion of the project.

Ratio of Cost and Profit

S. No.	Name of Cereal	Area in ha	Production/ha q	Invest Cost/ha	Rate/q	Net profit/ha	Total Net profit
1	Paddy	2505.80	16.50	4000	1000	12500	31322500.00
2	Arhar	520.60	7.50	2300	4500	31450	16372870.00
3	Urd/Moong	241.30	5.50	3300	800	1100	265430.00
4	Wheat	1435.00	22.00	4200	1000	17800	25543000.00
5	Mustard	510.23	5.25	2600	2000	7900	4030817.00
	Total	5212.93					77534617.00

Status After Work:

S. No.	Name of Cereal	Area in hectare	Production/ha in q	Invest Cost/ha	Rate/q	Net profit/ha	Total Net profit
1	Paddy	2610.50	20.00	4000	1000	16000	41768000.00
2	Arhar	584.60	8.50	2300	4500	35950	21016370.00
3	Urd/Moong	252.90	7.50	3600	800	2400	606960.00
4	Wheat	1595.80	26.05	4200	1000	21850	34868230.00
5	Mustard	595.20	7.50	2600	2000	12400	7380480.00
	Total	5639.00					105640040.00

After the treatment of Land **105640040.00**

Before the treatment of Land **77534617.00**

Net Profit **28105423.00**

Ratio of cost and profit **1.36**

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

SUMMARY OF EXPECTED /ESTIMATED OUTCOMES OF IWMP-XIV of District- BANDA (2011-2012)

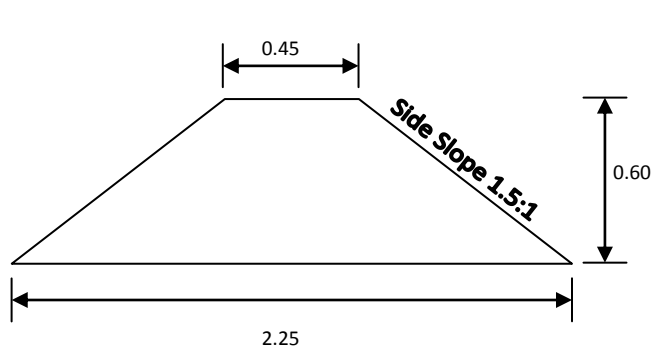
S. No.	Name of the District	Item	Unit of Measurement	Pre-project Status	Expected Post-project Status
1	2	3	4	5	6
1	Banda	Status of water table	Meter	7.5 to 8.5	6.5 to 7.5
2		Grand water structure repaired/ rejuvenated	-	-	-
3		Quality of drinking water	Good	Good	Good
4		Availability of drinking water	Meter	09 months	12 Months
5		Increase in irrigation potential			
6		Change in cropping/land use pattern	-	Jowar, Til	Double Cropping
7		Area under agriculture crop	ha	5984.82	6100.00
8		i- Area under single crop	ha	1820.20	1635.50
9		ii- Area under double crop	ha	2030.90	2500.50
10		iii- Area under multiple crop	ha	-	50.00
11		iv-Cropping Intensity	%	128.91	134.20
12		Increase in area under vegetation	ha	175	250
13		Increase in area under horticulture	ha	165	300
14		Increase in area under fuel & fodder	ha	3.5	9
15		Increase in milk production	%	3	4
16		No. of SHGs	No.	40	150
17		Increase in no. of livelihoods	No.	-	54
18		Migration	No.	260	150
19		SHG Federation formed	No.	-	-
20		Credit Linkage with banks	-	-	-

Chapter-11

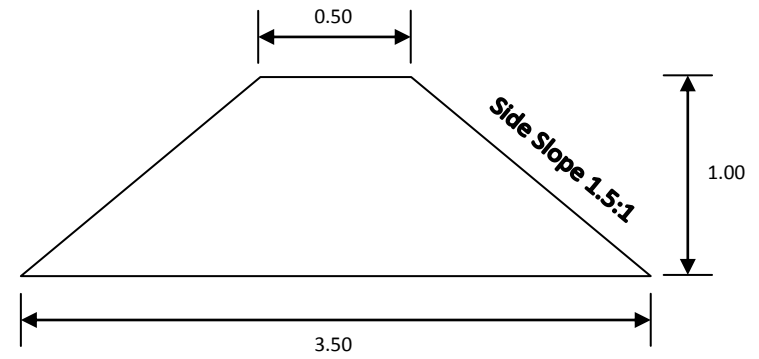
COST NORMS & DESIGN OF STRUCTURE PROPOSED

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

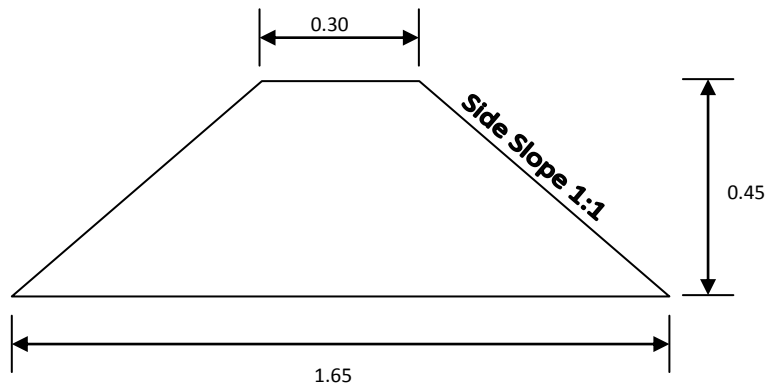
(Not to Scale)



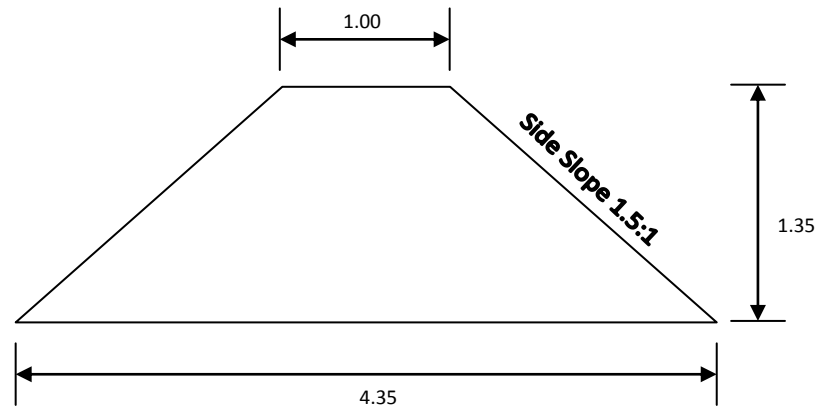
(C.B., Cross-Section – 1.081 m²)



(S.B., Cross-Section – 2.00m²)



(Field Bund, Cross-Section – 0.438 m²)

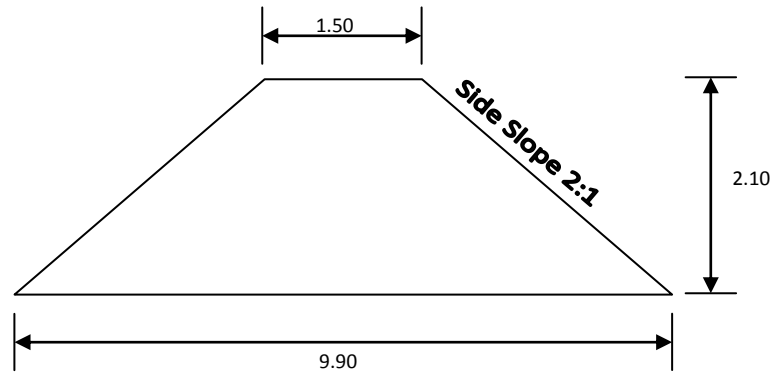


(P.B. /M.B., Cross-Section – 3.60 m²)

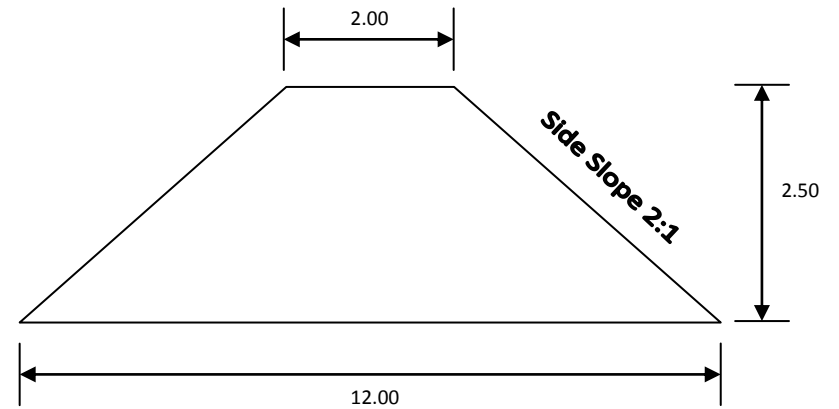
(All dimensions in Meter)

DRAWING OF EARTHEN CHEKDAM / GULLY PLUG

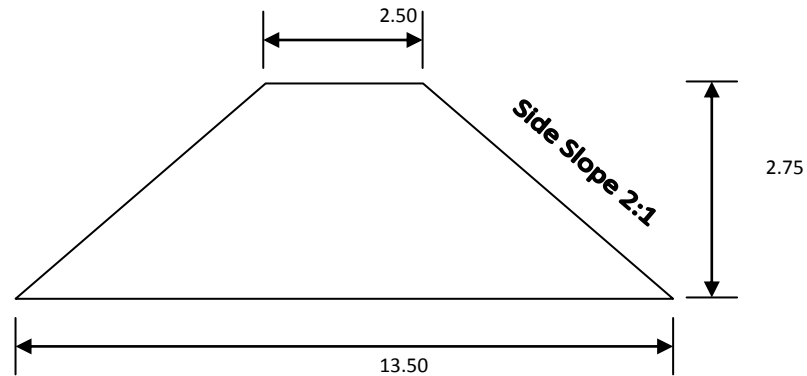
(Not to Scale)



(C.D. /G.P., Cross-Section – 11.97 m²)



(C.D. /G.P., Cross-Section – 17.50 m²)



(W.H.B., Cross-Section – 22.00 m²)

(All dimensions in Meter)

DESIGN OF CONTOUR BUND

Type of Soil	-Loam, Sandy Loam
Rain fall	-24 hr in cm -10 cm
Field -1%	
Vertical Interval (VI)	$= [s/3+2] \times 0.3$ $= [1/3+2] \times 0.3$ $= 0.70 \text{ m}$
Horizontal Interval (HI)	$= 100 \times V.I/s$ $= 100 \times 0.7/1$
Height of bund h	$= \sqrt{(Re \times VI)/50}$ Re=maximum rainfall in cm $= \sqrt{(10 \times 0.7)/50}$ $= \sqrt{0.37}$ $= 0.40$ Say 0.60 m
Free board	=15% of height minimum -20 cm
Height	$= 0.60 + 0.10$ $= 0.60 \text{ m}$
Taking top width of bund 0.50 m and side slope 1.5:1	
Then base of Bund	$= 0.45 + (1.50 d) \times 2$ $= 2.60 \text{ m}$
Cross-Section of bund	$= (0.50 + 2.60) \times 0.70 / 2$ $= 1.085 \text{ m}^2$
Length of bund	$= 100 s / V.I.$ $= 100 \times 1 / 0.70$ $= 142.85 \text{ m/ha}$ Say 150 m/ha
Earth work/ha	$= 150 \times 1.085$ $= 162.75 \text{ cum}$
Cost Rs. / ha	$= 162.75 \times 39.16 = 6373.29$ Say 6375.00

DESIGN OF SUBMERGENCE BUND

Types of soil – -Loam, Sandy Loam

Rainfall intensity for 24 hrs – 10cm

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 $h = \sqrt{(Re \times V.I.) / 50}$

$$= \sqrt{(10 \times 0.90) / 50} = \sqrt{0.18} = 0.42 \text{ m. Say } 0.4 \text{ m}$$

Free board 20% of height minimum 20cm

Total Height

$$= 0.90 \text{ m}$$

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

Bottom of bund

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

$$= 0.70 + 2.70$$

$$= 3.40$$

Cross Section of Submergence Bund

$$= (0.50 + 3.40) \times 1.00 / 2$$

$$= 2.00 \text{ m}^2$$

Length of bund

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

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

$$= 333 \text{ m}$$

Feasible length

$$100 + 25 + 25$$

$$= 150 \text{ m}$$

Earth work/ha

$$= 150 \times 1.845$$

$$= 276.75$$

Cost per ha

$$= 276.75 \times 39.16$$

$$= 10,837.53$$

$$\text{Say } 10,850.00$$

TYPICAL SECTION OF FIELD BUND

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

TYPICAL SECTION OF P.B., M.B.

Top width	= 0.70 m
Side slope	= 1.5:1
Height	= 1.30 m
Bottom	= 4.60 m
Cross section	= $(0.70+4.60) \times 1.30 / 2$ = 3.60 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 ²
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 ²
Cost /meter	= Rs. 839.12

TYPICAL SECTION OF W.H.B

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

Chapter-12

MAPS

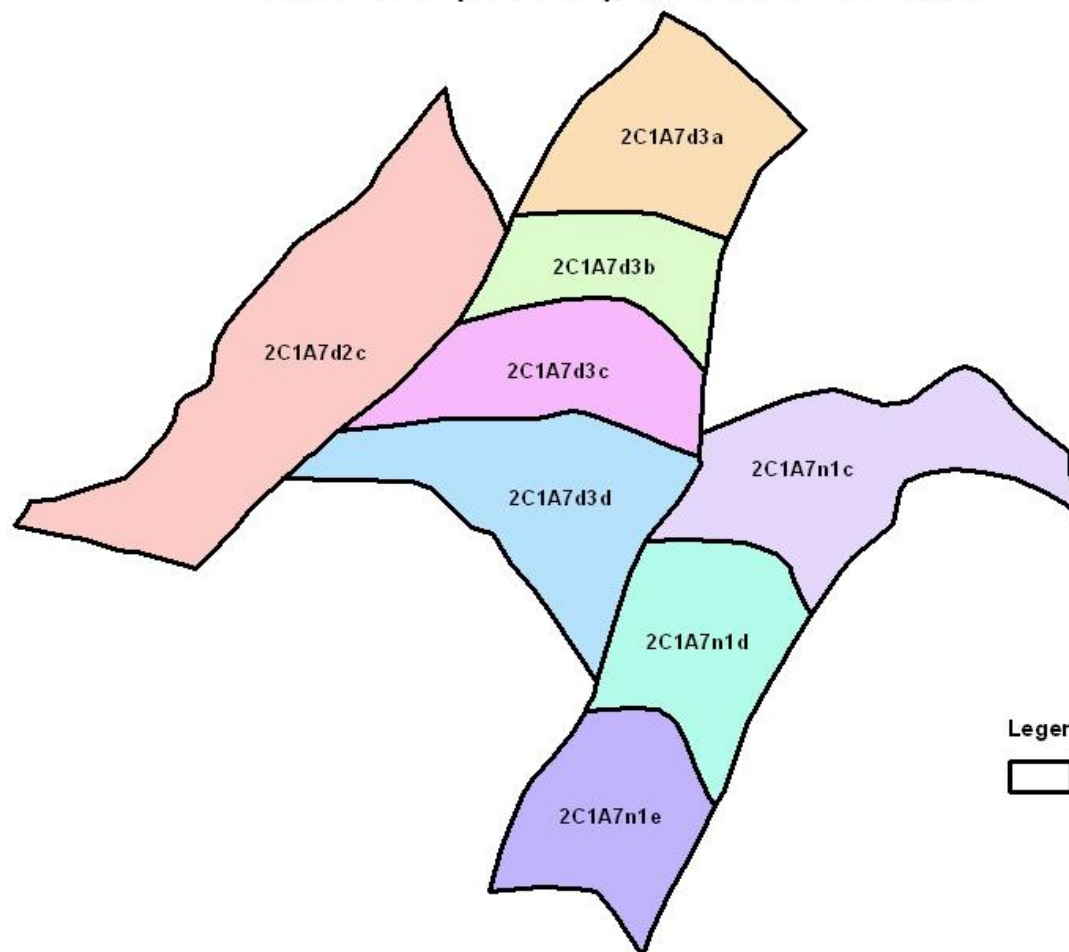
MAPS

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- Cadastral Map
- 3- Drainage map
- 4- Land use/ Land cover map
- 5- Contour map
- 6- Land Capability Class Map
- 7- Slope map
- 8- Action Plan Map (2C1A7d2c/ Mahokhar, 2C1A7d3a/Fatpurwa, 2C1A7d3b /Jari I, 2C1A7d3c/Jari II, 2C1A7d3d/Jaurahi, 2C1A7n1c/ Bilbai, 2C1A7n1d/Hathuda, 2C1A7n1e/Kulkumhari)

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

THE PROJECT AREA
IWMP- XIV (2011-12), DISTRICT - BANDA



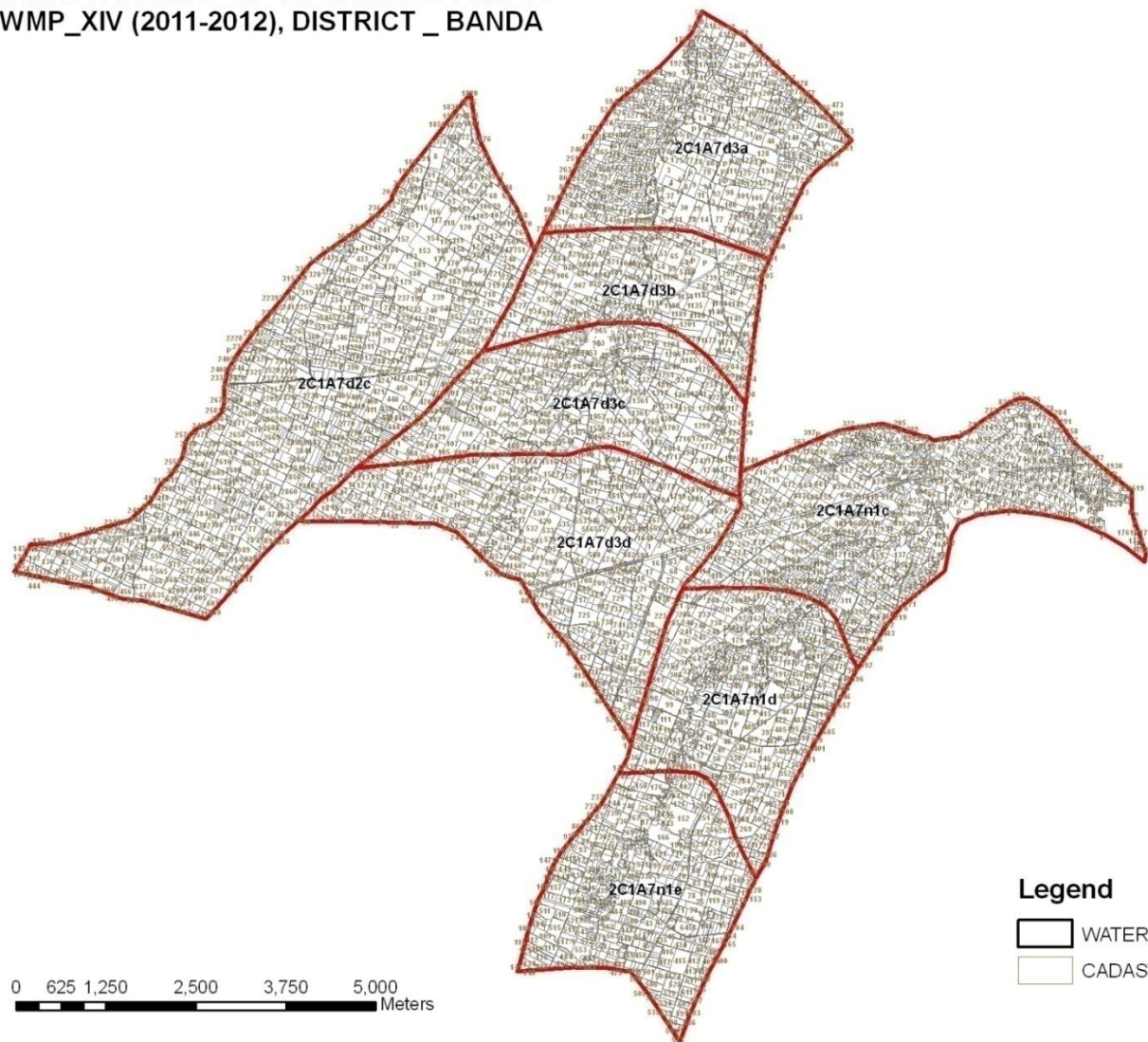
Legend

 WATERSHED BOUNDARY

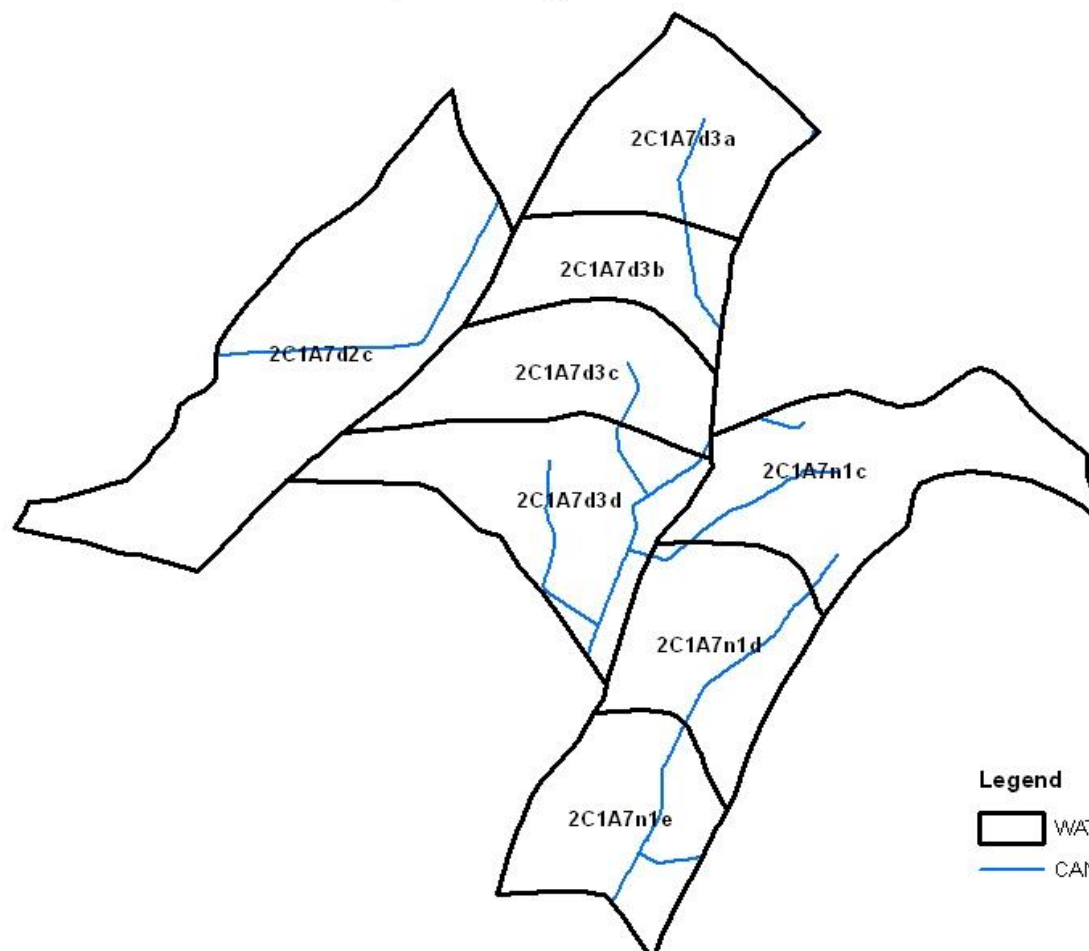
0 875 1,750 3,500 5,250 7,000 Meters





**CADASTRAL MAP OF THE PROJECT AREA
IWMP_XIV (2011-2012), DISTRICT _ BANDA**



**DRAINAGE MAP OF THE PROJECT AREA
IWMP- XIV (2011-12), DISTRICT - BANDA**

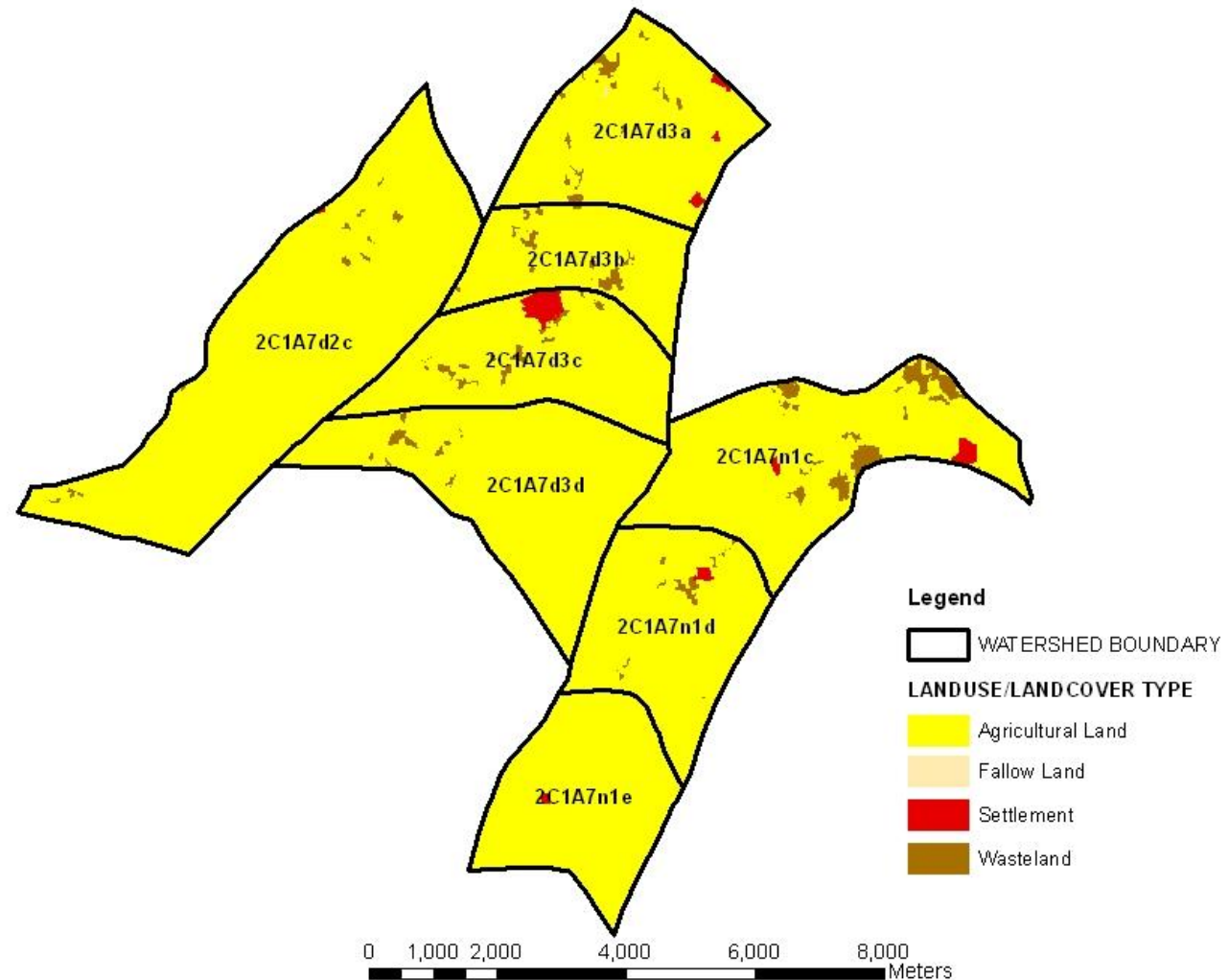


Legend

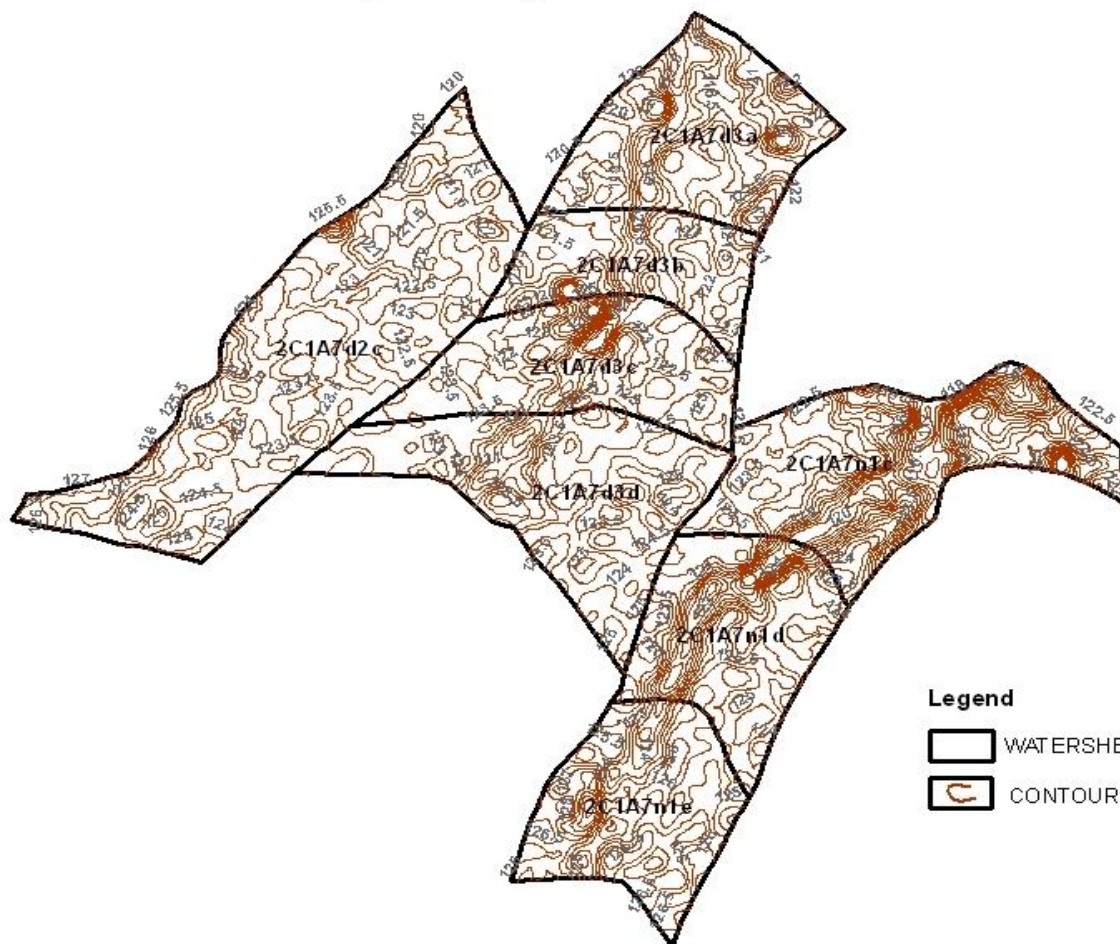
-  WATERSHED BOUNDARY
-  CANAL/DRAIN

0 1,000 2,000 4,000 6,000 8,000 Meters

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



CONTOUR MAP OF THE PROJECT AREA IWMP- XIV (2011-12), DISTRICT - BANDA

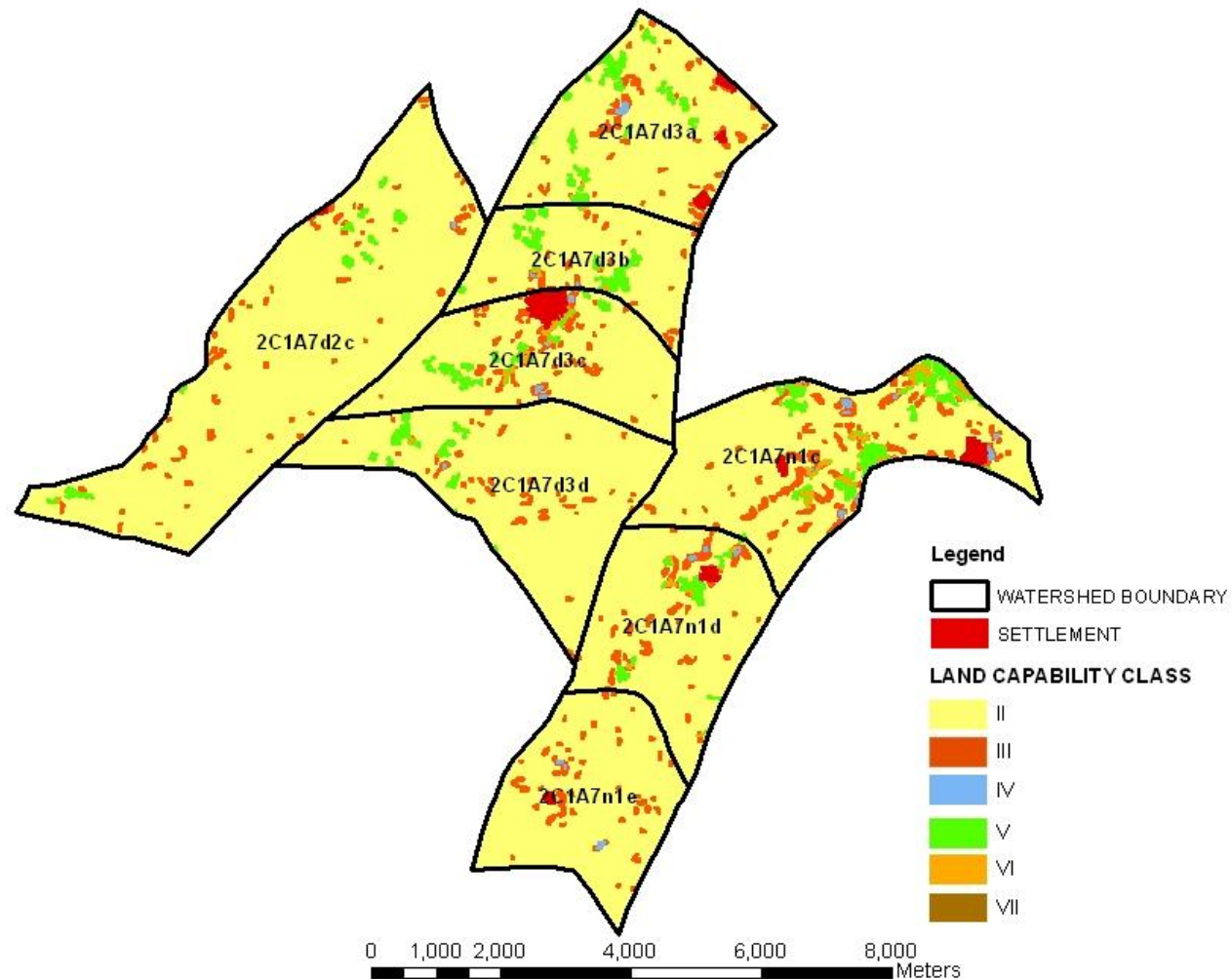


Legend

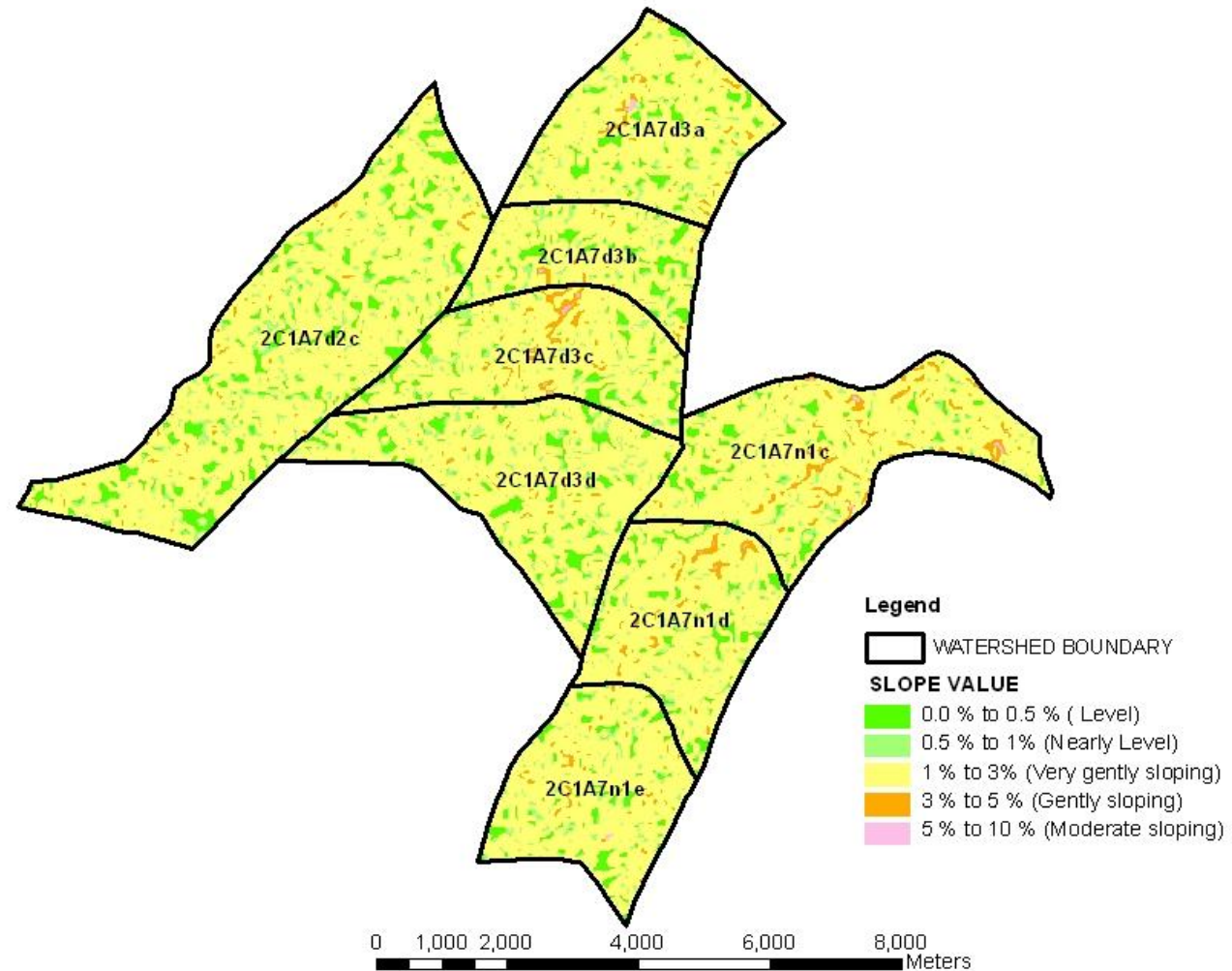
- WATERSHED BOUNDARY
- CONTOUR AT 5m INTERVAL

0 950 1,900 3,800 5,700 7,600 Meters

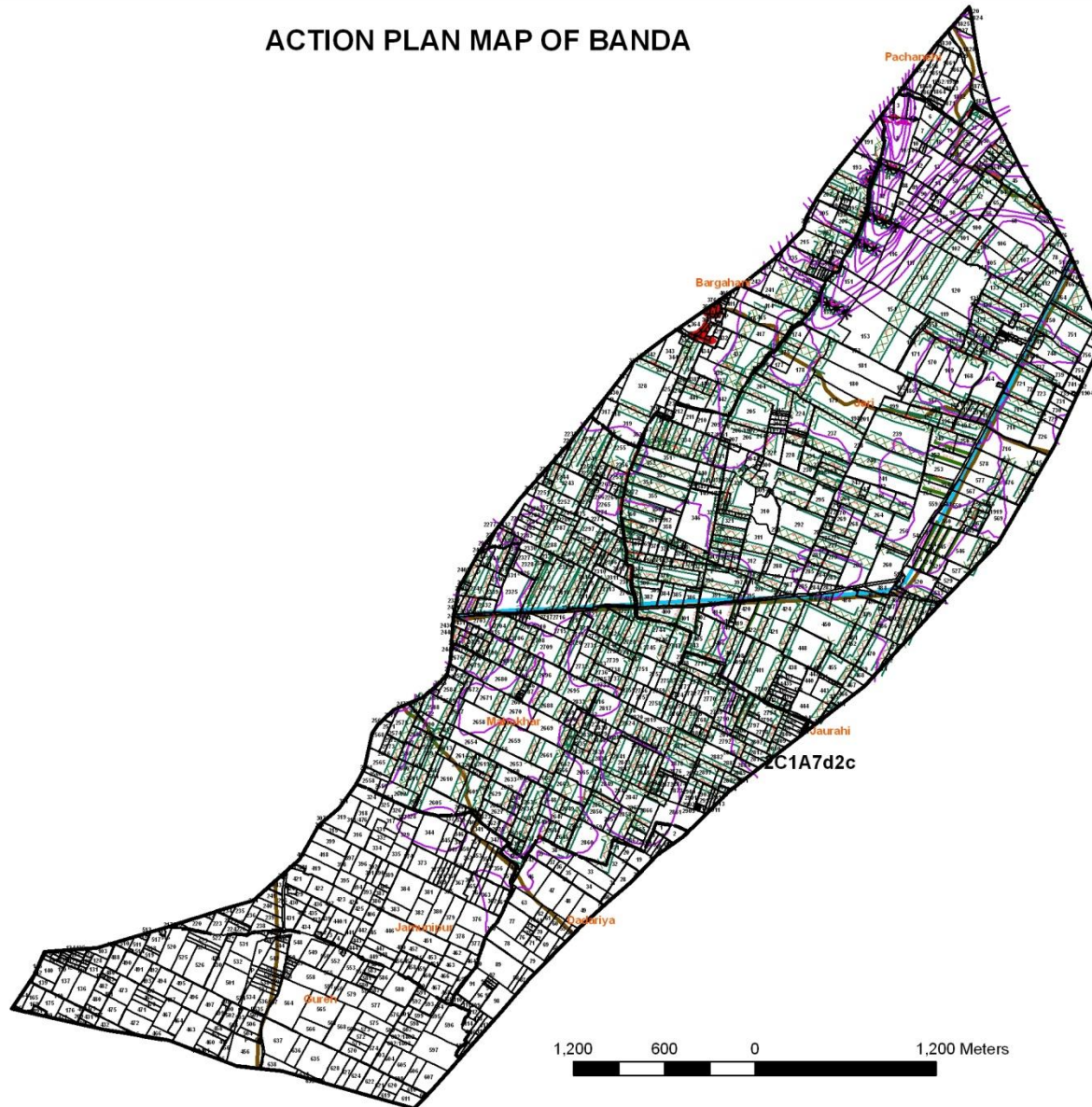
LAND CAPABILITY CLASS MAP OF THE PROJECT AREA IWMP- XIV (2011-12), DISTRICT - BANDA



SLOPE MAP OF THE PROJECT AREA **IWMP- XIV (2011-12), DISTRICT - BANDA**



ACTION PLAN MAP OF BANDA



ACTION PLAN MAP OF BANDA

Project Name: XIV (2011-12)

District Name: Banda (UP)

Code:- 2C1A7d2c

Total Area:- 1703.236 ha.

S.No.	Village Name	Area (ha.)
1	Bargahani	108.798
2	Dadariya	70.851
3	Gureh	213.052
4	Jamunipur	153.254
5	Jari	716.822
6	Jaurahi	0.263
7	Kamnaudi	0.007
8	Mahokhar	416.795
9	Pachanehi	23.394
TOTAL		1703.236

S.No.	Feature	No of Feature
1	Contour Bund	12
2	Check Dam	5
3	Sub Marginal Bund	234
4	Water Harvasting Bund	1

Legend

	Watershed_Boundary
	Village_Boundary
	Cadastral_Plot
	Contour-1M
	Contour Bund
	Check Dam
	Sub Marginal Bund
	Water Harvasting Bund
	Settlement
	Canal
	Road



ACTION PLAN MAP OF BANDA



ACTION PLAN MAP OF BANDA

Project Name: XIV (2011-12)

District Name: Banda (UP)

Code:- 2C1A7d3a

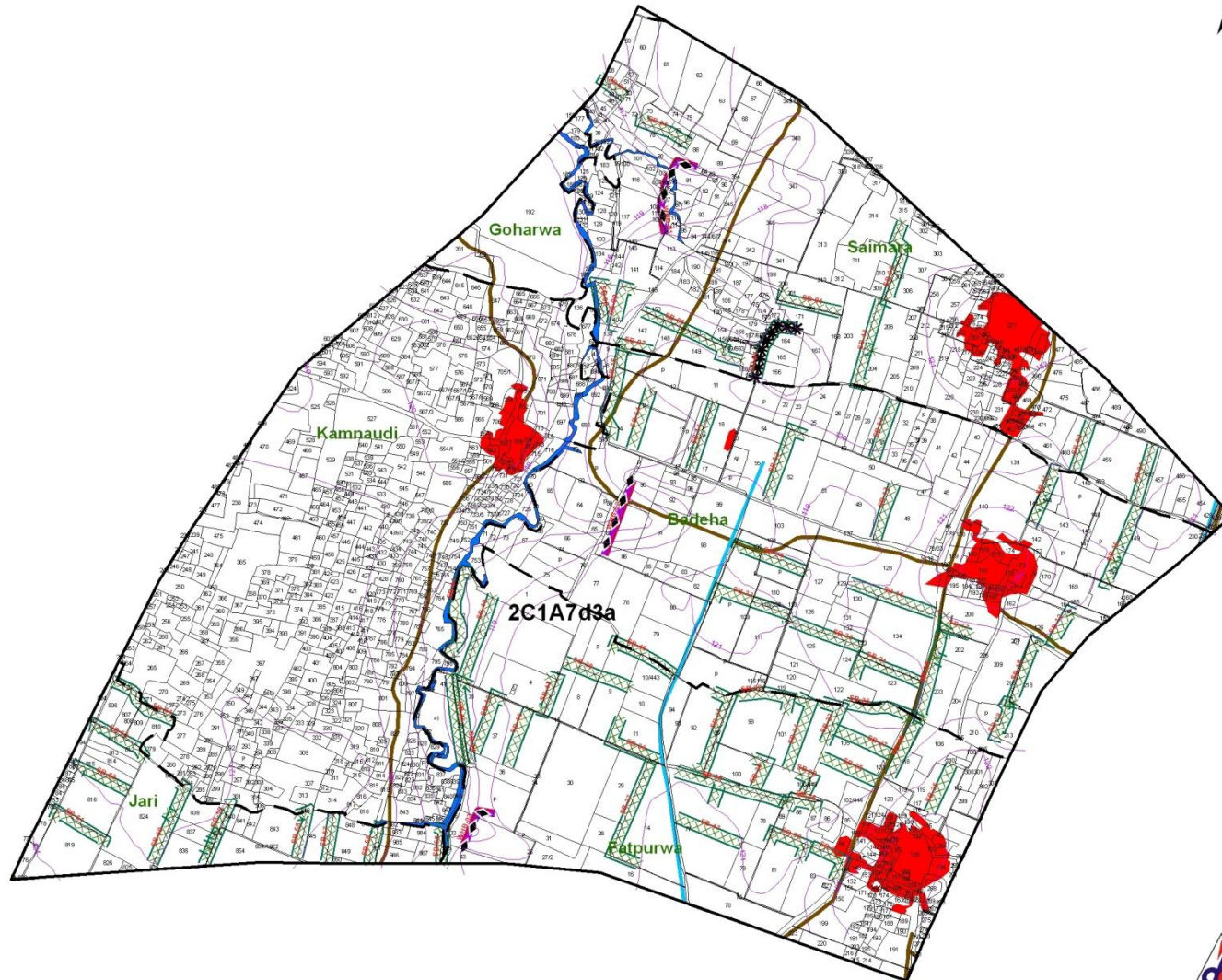
Total Area:- 788.858 ha.

S.No.	Village Boundary	Area (ha.)
1	Badeha	207.260
2	Fatpurwa	164.117
3	Goharwa	19.700
4	Jari	41.898
5	Kamnaudi	193.751
6	Saimara	161.954
TOTAL		788.680

S.No.	Feature	No of Feature
1	Check Dam	1
2	Sub Marginal Bund	66
3	Water Harvasting Bund	3

Legend

- Watershed_Boundary
- Village_Boundary
- Cadastral_Plot
- Contour
- Check Dam
- Sub Marginal Bund
- Water Harvasting Bund
- Settlement
- Drainage
- Canal
- Road



800 400 0 800 Meters



ACTION PLAN MAP OF BANDA



ACTION PLAN MAP OF BANDA

Project Name: XIV (2011-12)

District Name: Banda (UP)

Code:- 2C1A7d3b

Total Area:- 501.763 ha.

S.No.	Village Name	Area (ha.)
1	Bilbai	27.834
2	Fatpurwa	113.694
3	Jari	360.235
TOTAL		501.763

S.No.	Feature	No of Feature
1	Check Dam	13
2	Sub Marginal Bund	87

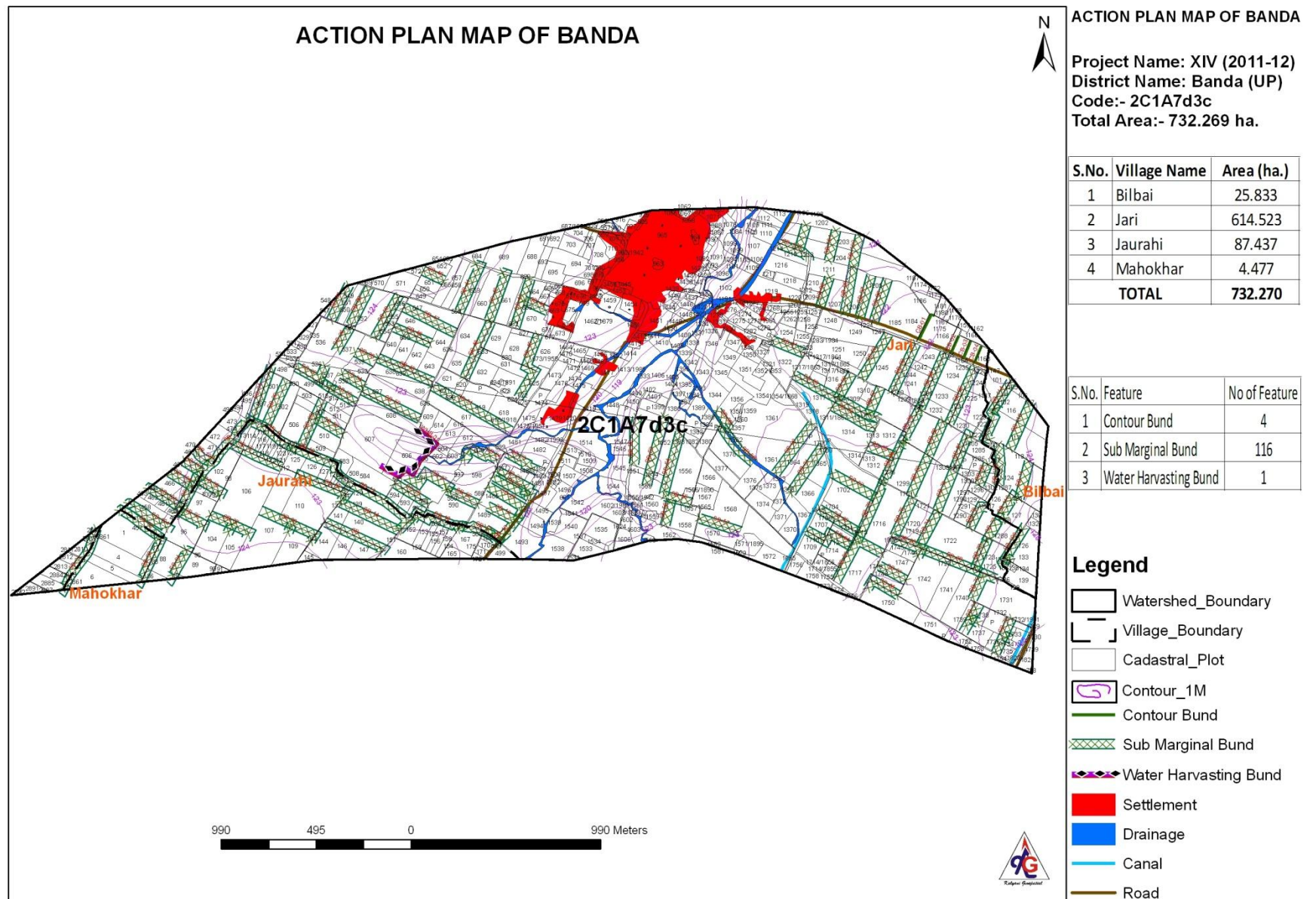
Legend

	Watershed_Boundary
	Village_Boundary
	Cadastral_Plot
	Contour
	Contour_Bund
	Sub Marginal Bund
	Settlement
	Drainage1
	Canal
	Road



1,100 550 0 1,100 Meters





ACTION PLAN MAP OF BANDA



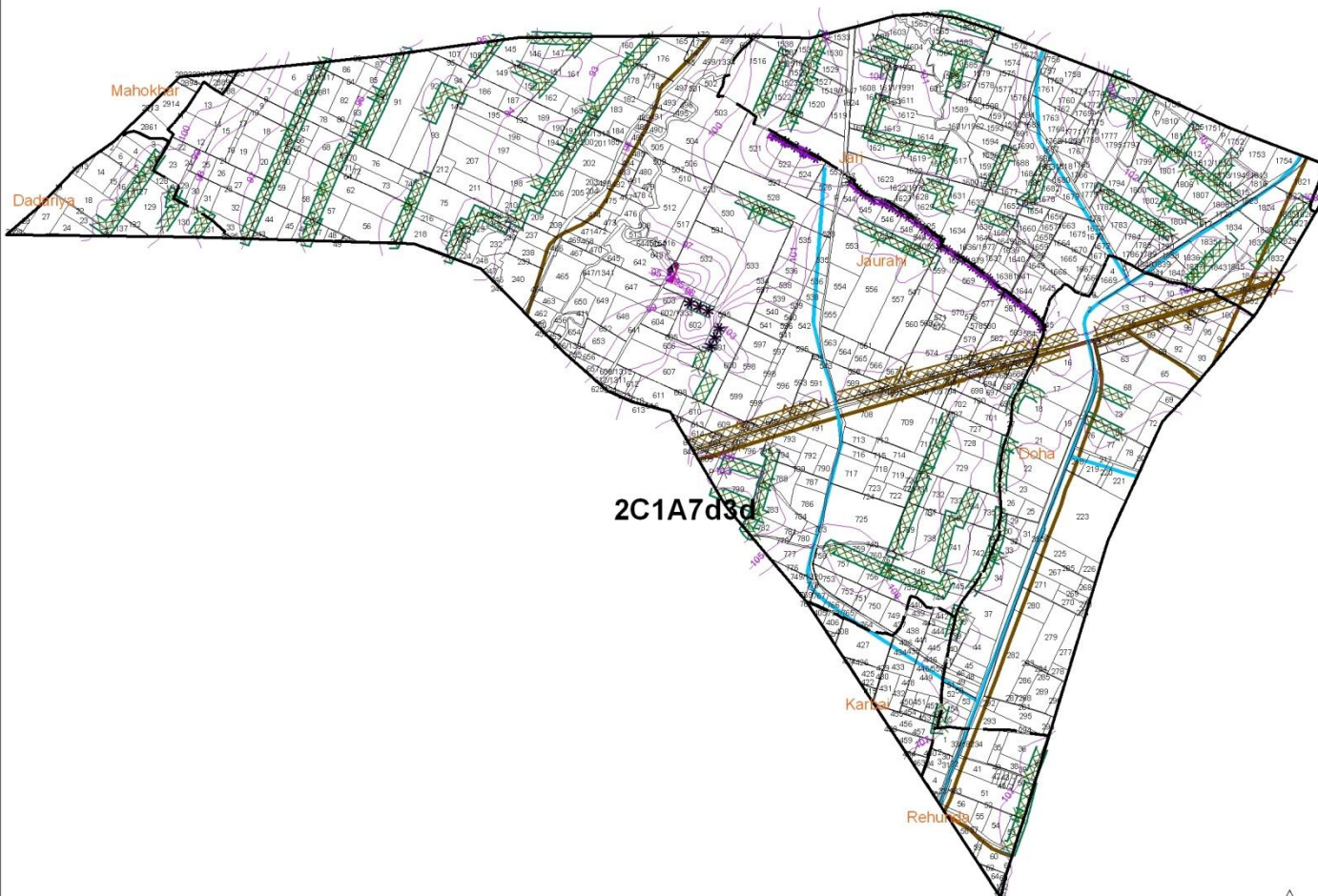
ACTION PLAN MAP OF BANDA

Project Name: XIV (2011-12)

District Name: Banda (UP)

Code:- 2C1A7d3d

Total Area:- 993.234 ha.



1,000 500 0 1,000 Meters

S.No.	Village Name	Area (ha.)
1	Bilbai	0.900
2	Dadariya	26.034
3	Doha	139.324
4	Jari	223.714
5	Jaurahi	546.365
6	Karbai	24.696
7	Mahokhar	5.777
8	Rehunda	26.424
TOTAL		993.234

S.No.	Feature	No of Feature
1	Check Dam	2
2	Marginal Bund	4
3	Peripheral Bund	12
4	Water Harvasting Bund	1
5	Sub Marginal Bund	63

Legend

	Watershed_Boundary
	Village_Boundary
	Cadastral_Plot
	Contour_1M
	Check Dam
	Marginal Bund
	Peripheral Bund
	Sub Marginal Bund
	Water Harvasting Bund
	Canal
	Road

ACTION PLAN MAP OF BANDA



ACTION PLAN MAP OF BANDA

Project Name: XIV (2011-12)

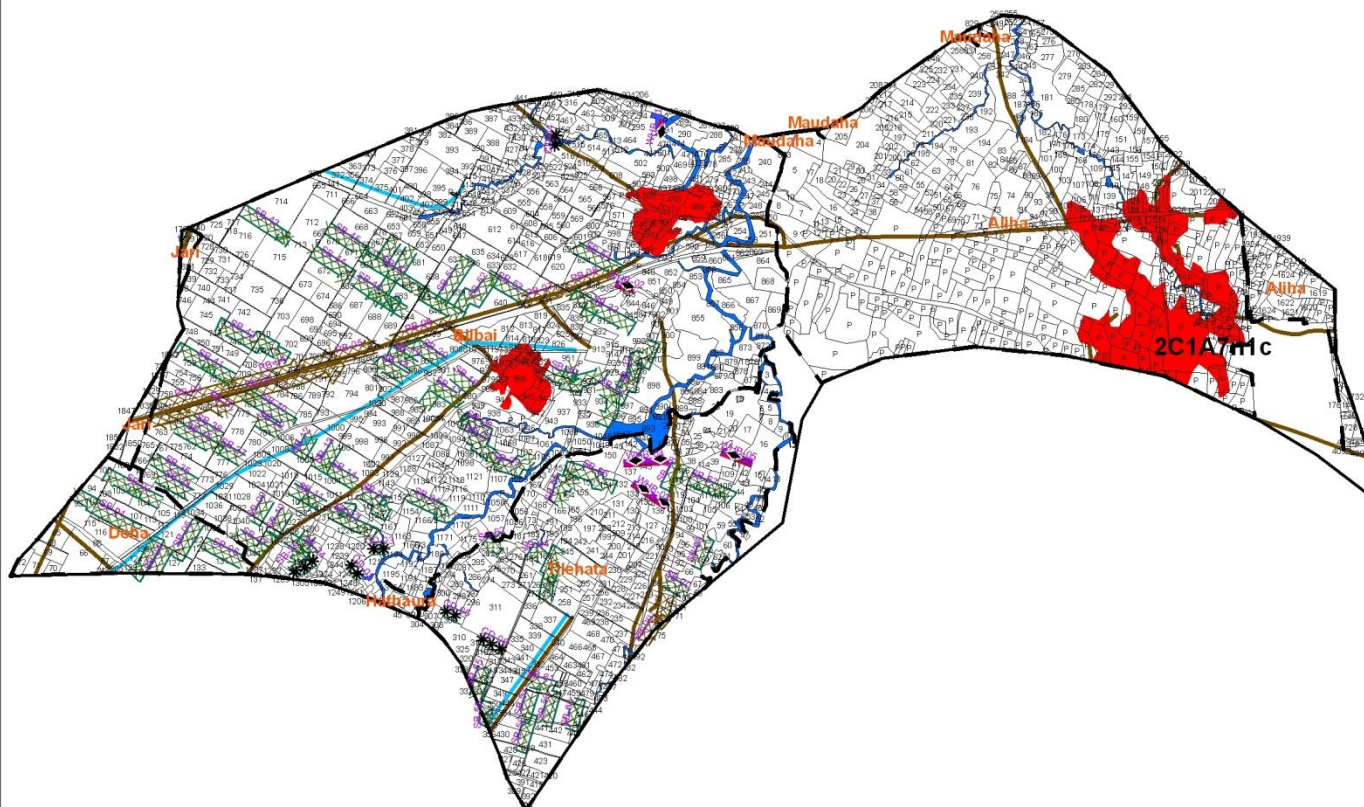
District Name: Banda (UP)

Code:- 2C1A7n1c

Total Area:- 1036.023 ha.

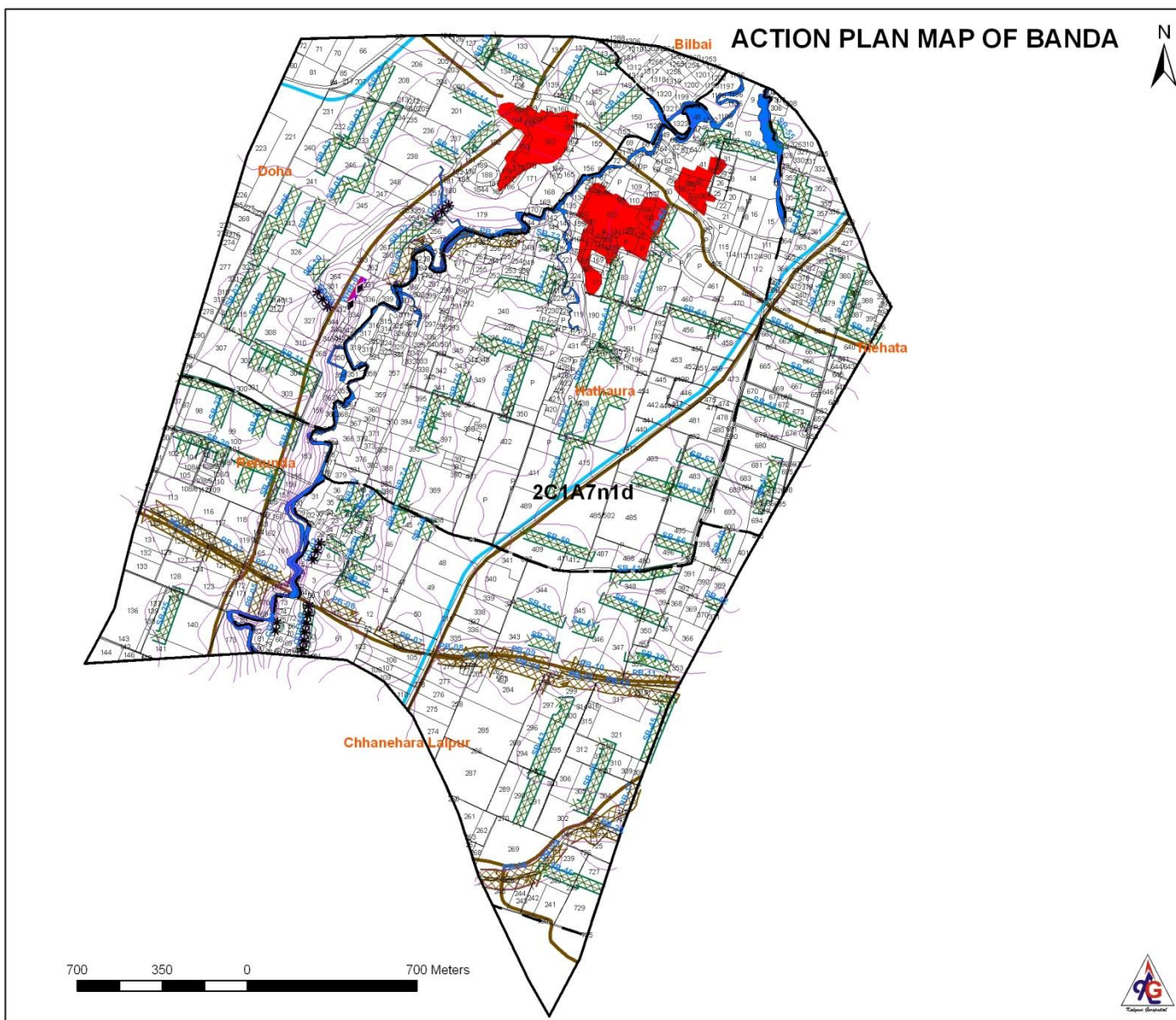
S.No.	Village Name	Area (ha.)
1	Aliha	298.146
2	Bilbai	496.148
3	Doha	35.562
4	Hathaura	1.937
5	Jari	5.149
6	Maudaha	1.987
7	Tilehata	157.272
TOTAL		996.201

S.No.	Feature	No of Feature
1	Check Dam	6
2	Sub Marginal Bund	70
3	Peripheral Bund	10
4	Water Harvasting Bund	5



Legend

- Watershed_Boundary
- Village_Boundary
- Cadastral_Plot
- Contour_1M
- Check Dam
- Peripheral Bund
- Sub Marginal Bund
- Water Harvasting Bund
- Settlement
- Drainage
- Canal
- Road



ACTION PLAN MAP OF BANDA

Project Name: XIV (2011-12)

District Name: Banda (UP)

Code:- 2C1A7n1d

Total Area:- 738.668 ha.

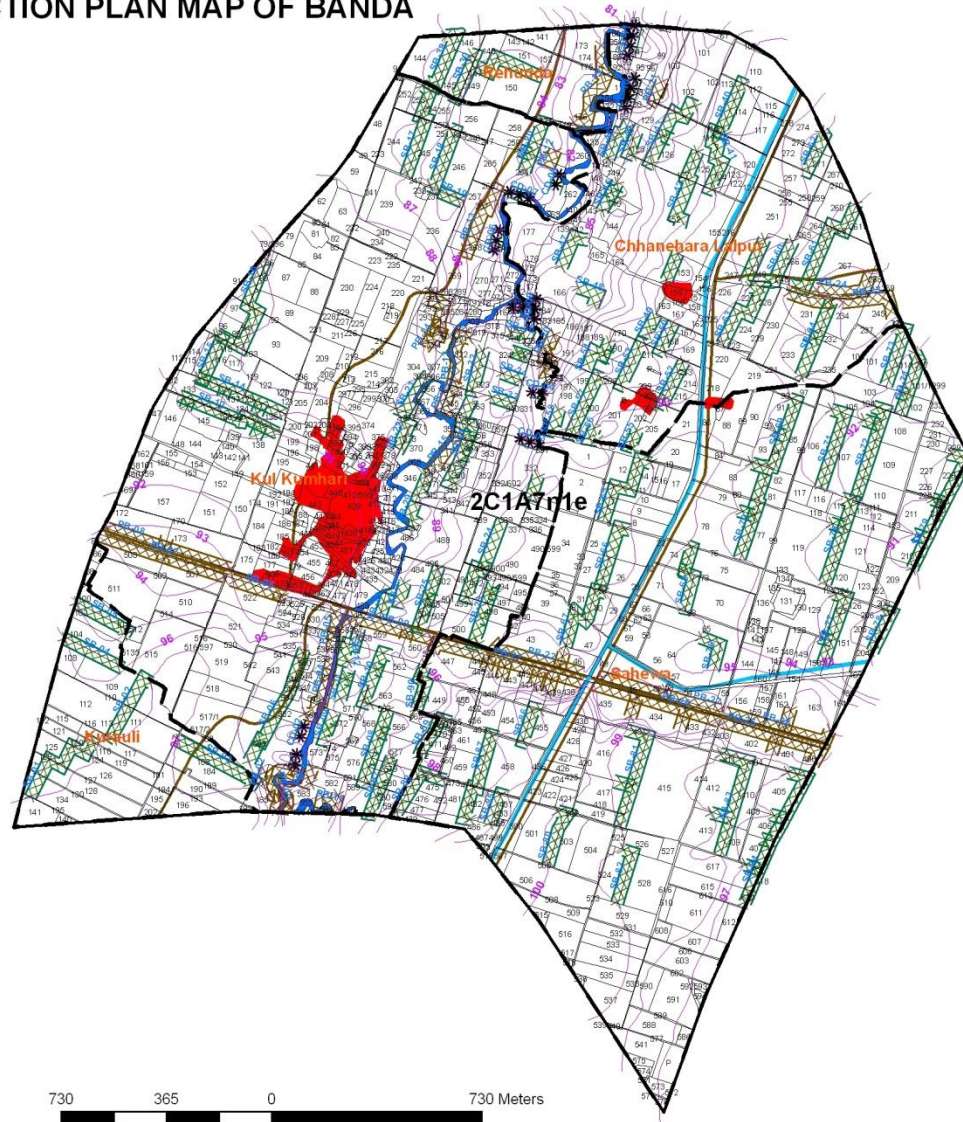
S.No.	Village Name	Area (ha.)
1	Bilbai	8.664
2	Chhanehara Lalpur	179.672
3	Doha	170.229
4	Hathaura	241.601
5	Rehunda	72.002
6	Tilehata	58.630
TOTAL		730.798

S.No.	Feature	No of Feature
1	Check Dam	5
2	Sub Marginal Bund	75
3	Peripheral Bund	21
4	Water Harvasting Bund	1

Legend

	Watershed_Boundary
	Village_Boundary
	Cadastral_Plot
	Contour_1M
	Check Dam
	Peripheral Bund
	Sub Marginal Bund
	Water Harvasting Bund
	Settlement
	Drainage
	Canal
	Road

ACTION PLAN MAP OF BANDA



ACTION PLAN MAP OF BANDA

Project Name: XIV (2011-12)
District Name: Banda (UP)
Code:- 2C1A7n1e
Total Area:- 713.210 ha.

S.No	Village Name	Area (ha.)
1	Chhanehara Lalpur	128.858
2	Kul Kumhari	270.745
3	Kurauli	36.272
4	Rehunda	20.068
5	Sahewa	257.268
TOTAL		713.210

S.No.	Feature	No of Feature
1	Check Dam	11
2	Sub Marginal Bund	90
3	Peripheral Bund	30

Legend

	Watershed_Boundary
	Village_Boundary
	Cadastral_Plot
	Contour_1M
	Check Dam
	Peripheral Bund
	Sub Marginal Bund
	Settlement
	Drainage
	Canal
	Road



Details Cost Estimate of MWS 2C1A7n1d (Hathuda)

Village Name- Doha												
S. B.												
S. No.	Activity	Area	Khasra No.	Length	Top	Base	Height	C. S.	E. W.	Rate	Amount	Beneficiary List
1	SB-1	2.60	207	150	3.50	0.50	1.00	2.00	300	39.15	11745	Sant Saren
2	SB-2	4.15	232	240	3.50	0.50	1.00	2.00	480	39.15	18792	Lalman
3	SB-3	2.59	240	150	3.50	0.50	1.00	2.00	300	39.15	11745	Kuwariya, Thakuriya
4	SB-4	4.49	233	260	3.50	0.50	1.00	2.00	520	39.15	20358	Hari kishor
5	SB-5	4.49	246, 241	260	3.50	0.50	1.00	2.00	520	39.15	20358	Naval kishor
6	SB-6	6.91	221, 223, 242	400	3.50	0.50	1.00	2.00	800	39.15	31320	Manoj kumar, Mukesh
7	SB-7	6.91	317 To 322	400	3.50	0.50	1.00	2.00	800	39.15	31320	Tulaiya, Bala prasad
8	SB-8	3.45	242	200	3.50	0.50	1.00	2.00	400	39.15	15660	Jhunki, Desh Raj
9	SB-9	6.05	315	350	3.50	0.50	1.00	2.00	700	39.15	27405	Babu lal
10	SB-10	1.72	326	100	3.50	0.50	1.00	2.00	200	39.15	7830	Meva lal, Ranjeet
11	SB-11	8.64	302,303,304,305	500	3.50	0.50	1.00	2.00	1000	39.15	39150	Vinod kumar, Ram bharose
12	SB-12	3.97	261,254	230	3.50	0.50	1.00	2.00	460	39.15	18009	Jageshwer, Lakshman singh
13	SB-13	1.90	236,237	110	3.50	0.50	1.00	2.00	220	39.15	8613	Daya sanker
14	SB-14	2.76	200	160	3.50	0.50	1.00	2.00	320	39.15	12528	Daya sanker
15	SB-15	2.59	192	150	3.50	0.50	1.00	2.00	300	39.15	11745	Suresha nand
16	SB-16	1.90	127	110	3.50	0.50	1.00	2.00	220	39.15	8613	Satendra kumar, Shyama bai
17	SB-17	4.15	133	240	3.50	0.50	1.00	2.00	480	39.15	18792	Arun kumar, Sakuntla
18	SB-18	5.28	137, 143	300	3.50	0.50	1.00	2.00	600	39.15	23490	Mohan lal
19	SB-19	3.45	147, 149	200	3.50	0.50	1.00	2.00	400	39.15	15660	-
Sub Total		78.00		4510							353133	
P. B.												
1	PB-1	6.00	259,258	240	5.40	0.60	1.20	3.60	864	39.15	33826	Ramavtar, Jafarali
Sub Total											33826	
C. D.												
1	CD-1	9.12	327	100	10.00	2.00	3.00	15.00	1500	44.34	66510	Madna, Ramabai
2	CD-2	35.88	180,181, 179	60	10.00	2.00	3.00	15.00	900	44.34	39906	Raj karan, Sumesh anand
Sub Total											106416	

W. H. B.												
S. No.	Activity	Area	Khasra No.	Length	Top	Base	Height	C. S.	E. W.	Rate	Amount	Beneficiary List
1	WHB-1	30.00	231, 233, 264, 263	90	18.00	2.00	2.50	30.00	2700	51.08	137916	Sadashiv, Lalman
Sub Total										137916.00	137916	
HORTICULTURE												
	Hort.	1.00	-	-	-	-	-	-	-	-	28000	
Grand Total											659291	

Village Name- Rehunda

S. B.												
S. No.	Activity	Area	Khasra No.	Length	Top	Base	Height	C. S.	E. W.	Rate	Amount	Beneficiary List
1	SB-20	5.30	102,103,104,107, 108	400	3.50	0.50	1.20	2.00	800	39.15	31320	Nathu prasad, Naval singh
2	SB-21	4.64	111	350	3.50	0.50	1.20	2.00	700	39.15	27405	Shyamlal, Rampal
3	SB-22	4.24	37, 97,98	320	3.50	0.50	1.20	2.00	640	39.15	25056	Chunalal, Rajabhaiya
4	SB-23	3.18	99	240	3.50	0.50	1.20	2.00	480	39.15	18792	Devideen
5	SB-24	3.18	99	240	3.50	0.50	1.20	2.00	480	39.15	18792	Devideen
6	SB-25	3.46	139	260	3.50	0.50	1.20	2.00	520	39.15	20358	Devideen
Sub Total		24.00		1810							141723	
P. B.												
S. No.	Activity	Area	Khasra No.	Length	Top	Base	Height	C. S.	E. W.	Rate	Amount	Beneficiary List
1	PB-2	9.43	113, 116,.118,119,114, 115	500	5.40	0.60	1.20	3.60	1800	39.15	70470	Ekram
2	PB-3	3.77	165	200	5.40	0.60	1.20	3.60	720	39.15	28188	Jamiya, Arviya, Habeeb
3	PB-4	7.54	121, 125, 126, 130	400	5.40	0.60	1.20	3.60	1440	39.15	56376	Ramprasad, Chotelal
4	PB-5	5.26	171, 172	278	5.40	0.60	1.20	3.60	1001	39.15	39181	Najiya Begum
Sub Total				1378							194215	
Grand Total											335938	

Village Name- Chinehra Ialpur

S. B.												
S. No.	Activity	Area	Khasra No.	Length	Top	Base	Height	C. S.	E. W.	Rate	Amount	Beneficiary List
1	SB-26	1.37	45	120	3.50	0.50	1.00	2.00	240	39.15	9396	Asfak Husain
2	SB-27	1.37	45	100	3.50	0.50	1.00	2.00	200	39.15	7830	Asfak Husain
3	SB-28	1.64	45	120	3.50	0.50	1.00	2.00	240	39.15	9396	Asfak Husain
4	SB-29	1.64	15, 46	120	3.50	0.50	1.00	2.00	240	39.15	9396	Ramasre, Aabda Khatun
5	SB-30	1.78	12	150	3.50	0.50	1.00	2.00	300	39.15	11745	Isha Khusain
6	SB-31	2.05	14	150	3.50	0.50	1.00	2.00	300	39.15	11745	Irshad Husain
7	SB-32	0.96	39	120	3.50	0.50	1.00	2.00	240	39.15	9396	Unusali
8	SB-33	3.02	43, 38	220	3.50	0.50	1.00	2.00	440	39.15	17226	Sadabudnisha, Mahmud Husain
9	SB-34	0.96	18	220	3.50	0.50	1.00	2.00	440	39.15	17226	Maktab Sidiiki
10	SB-35	3.30	344	240	3.50	0.50	1.00	2.00	480	39.15	18792	Munir Ahmed
11	SB-36	4.11	348, 396	300	3.50	0.50	1.00	2.00	600	39.15	23490	Majharul Hasan
12	SB-37	1.37	345	110	3.50	0.50	1.00	2.00	220	39.15	8613	Mahboob Husain
13	SB-38	1.37	343	100	3.50	0.50	1.00	2.00	200	39.15	7830	Abdul Husain
14	SB-39	2.74	352	200	3.50	0.50	1.00	2.00	400	39.15	15660	Abdul Hafeez
15	SB-40	1.64	398	120	3.50	0.50	1.00	2.00	240	39.15	9396	Ramadhar, Heeralal
16	SB-41	4.11	348, 396	300	3.50	0.50	1.00	2.00	600	39.15	23490	Munir Ahmed, Khaleel Ahmed
17	SB-42	0.96	389	120	3.50	0.50	1.00	2.00	240	39.15	9396	Sevak
18	SB-43	8.23	290, 294, 296, 297	600	3.50	0.50	1.00	2.00	1200	39.15	46980	Mohd.Mueed
19	SB-44	4.95	311, 312, 305, 306	360	3.50	0.50	1.00	2.00	720	39.15	28188	Rehana
20	SB-45	4.11	320, 331	300	3.50	0.50	1.00	2.00	600	39.15	23490	Mohd.Husain
21	SB-46	8.32	729, 240	300	3.50	0.50	1.00	2.00	600	39.15	23490	Husain
Sub Total		60.00		4370							342171	

P. B.												
S. No.	Activity	Area	Khasra No.	Length	Top	Base	Height	C. S.	E. W.	Rate	Amount	Beneficiary List
1	PB-6	3.23	10, 12	150	5.40	0.60	1.20	3.60	540	39.15	21141	Maktab Sidiiki
2	PB-7	4.31	52, 50	200	5.40	0.60	1.20	3.60	720	39.15	28188	Raja Lal, Munna Lal
3	PB-8	4.31	335	200	5.40	0.60	1.20	3.60	720	39.15	28188	Asfak Husain
4	PB-9	5.17	343	240	5.40	0.60	1.20	3.60	864	39.15	33826	Mahbub Husain
5	PB-10	6.46	345, 346, 347	300	5.40	0.60	1.20	3.60	1080	39.15	42282	Majharul Husain
6	PB-11	5.17	352, 353	240	5.40	0.60	1.20	3.60	864	39.15	33826	Abdul Hafeez
7	PB-12	8.62	317, 319, 320	400	5.40	0.60	1.20	3.60	1440	39.15	56376	Mohd. Hafeez
8	PB-13	4.31	299	200	5.40	0.60	1.20	3.60	720	39.15	28188	Usafa Biwi
9	PB-14	5.39	284	250	5.40	0.60	1.20	3.60	900	39.15	35235	Ais Ali
10	PB-15	4.31	279, 281	200	5.40	0.60	1.20	3.60	720	39.15	28188	Munir Ahmed
11	PB-16	9.48	268, 269	440	5.40	0.60	1.20	3.60	1584	39.15	62014	Sonwa, Genda Bai
12	PB-17	5.39	303, 304	250	5.40	0.60	1.20	3.60	900	39.15	35235	Gopal, Azaj Ahmed
13	PB-18	5.17	245, 244	240	5.40	0.60	1.20	3.60	864	39.15	33826	Sermaniya
14	PB-19	2.15	239	100	5.40	0.60	1.20	3.60	360	39.15	14094	Munna Dev Kumar
15	PB-20	6.53	725	300	5.40	0.60	1.20	3.60	1080	39.15	42282	Ram Vishal
Sub Total		80.00		3710							522887	
C. D.												
1	CD-3	5.50	7, 6, 8	80	10.00	2.00	3.00	15.00	1200	44.34	53208	Mahmood Ahsen
2	CD-4	2.00	70, 71, 72	30	10.00	2.00	3.00	15.00	450	45.34	20403	
Sub Total		7.50		110							73611	
HORTICULTURE												
	Hort.	2.50	-	-	-	-	-	-	-	-	69781	
Grand Total											1008450	

Village Name- Tilhata

S. B.												
S. No.	Activity	Area	Khasra No.	Length	Top	Base	Height	C. S.	E. W.	Rate	Amount	Beneficiary List
1	SB-47	2.79	681, 683, 688	240	3.50	0.50	1.00	2.00	480	39.15	18792	Mohd. Anus, Mohd. Asayed, Molana Habib Ahmed
2	SB-48	4.07	677, 676	350	3.50	0.50	1.00	2.00	700	39.15	27405	Mohd. Anus, Mohd. Asayed, Molana Habib Ahmed
3	SB-49	2.33	667	200	3.50	0.50	1.00	2.00	400	39.15	15660	
4	SB-50	3.49	663, 662, 661	300	3.50	0.50	1.00	2.00	600	39.15	23490	
5	SB-51	3.49	383, 381, 378	300	3.50	0.50	1.00	2.00	600	39.15	23490	Tiyav Ali
6	SB-52	3.49	379	300	3.50	0.50	1.00	2.00	600	39.15	23490	
7	SB-53	9.32	387	150	3.50	0.50	1.00	2.00	300	39.15	11745	Wakarud Deen
8	SB-54	11.65	361, 355, 357, 352	350	3.50	0.50	1.00	2.00	700	39.15	27405	
9	SB-55	9.37	310	150	3.50	0.50	1.00	2.00	300	39.15	11745	
Sub Total		50.00		2340							183222	

Village Name- Hathoda

S. B.												
S. No.	Activity	Area	Khasra No.	Length	Top	Base	Height	C. S.	E. W.	Rate	Amount	Beneficiary List
1	SB-56	1.83	496	150	3.50	0.50	1.00	2.00	300	39.15	11745	Juned Ahmed
2	SB-57	2.69	483	220	3.50	0.50	1.00	2.00	440	39.15	17226	Kareem Ulla
3	SB-58	5.63	483	460	3.50	0.50	1.00	2.00	920	39.15	36018	Kareem Ulla
4	SB-59	3.67	415	300	3.50	0.50	1.00	2.00	600	39.15	23490	Ram Chandra
5	SB-60	4.55	456, 458	380	3.50	0.50	1.00	2.00	760	39.15	29754	Mustari Katun, Ikbal Husain
6	SB-61	14.50	11, 14, 31, 32	240	3.50	0.50	1.00	2.00	480	39.15	18792	Jagmohan
7	SB-62	13.40	108	150	3.50	0.50	1.00	2.00	300	39.15	11745	Madersa Islamiya, Mohd. Siddiki
8	SB-63	14.62	184	250	3.50	0.50	1.00	2.00	500	39.15	19575	Mohd. Idroua
9	SB-64	17.44	183, 191	480	3.50	0.50	1.00	2.00	960	39.15	37584	Ibad Ulla
10	SB-65	15.23	436	300	3.50	0.50	1.00	2.00	600	39.15	23490	Taiyav Husain
11	SB-66	14.95	437	280	3.50	0.50	1.00	2.00	560	39.15	21924	Taiyav Husain
12	SB-67	13.40	436	150	3.50	0.50	1.00	2.00	300	39.15	11745	Taiyav Husain
13	SB-68	15.23	415	300	3.50	0.50	1.00	2.00	600	39.15	23490	Ram Lal, Marilal
14	SB-69	14.99	350	280	3.50	0.50	1.00	2.00	560	39.15	21924	Maimuna Khatun
15	SB-70	4.89	235, 2329, 240, 229	400	3.50	0.50	1.00	2.00	800	39.15	31320	Barket Ulla
16	SB-71	3.97	240, 242	300	3.50	0.50	1.00	2.00	600	39.15	23490	Gandhi
17	SB-72	12.79	246	100	3.50	0.50	1.00	2.00	200	39.15	7830	Ikbal Husain
18	SB-73	4.89	396, 397	400	3.50	0.50	1.00	2.00	800	39.15	31320	Gaya Prasad
19	SB-74	2.93	389	240	3.50	0.50	1.00	2.00	480	39.15	18792	Mahmooda Khatun
20	SB-75	1.40	349	120	3.50	0.50	1.00	2.00	240	39.15	9396	Jamiludeen
Sub Total		183.00		5500							262305	

P. B.												
S. No.	Activity	Area	Khasra No.	Length	Top	Base	Height	C. S.	E. W.	Rate	Amount	Beneficiary List
1	PB-21	15.00	272, 273, 261, 256, 255, 247, 248	400	5.40	0.60	1.20	3.60	1440	39.15	56376	Sahid
Sub Total											56376	
HORTICULTURE												
	Hort.	0.20	-	-	-	-	-	-	-	-	56000	
Grand Total											1344000	

CHAPTER -13

ABBREVIATIONS / REFERENCES

LIST OF ABBRIVIATIONS/REFERENCES

DOLR	Department of Land Resources
IWMP	Integrated Watershed Management Programme
SLNA	State Level Nodal Agency
RS	Remote Sensing
GIS	Geographical Information System
GPS	Global Positioning System
CGL	Common Guidelines
PIA	Project Implementing Agency
BSA	Bhoomi Sanrakshan Adhikari
WDT	Watershed Development Team
WC	Watershed Committee
UC	User Group
SHG	Self Help Group
CB	Contour Bund
CD	Check Dam
PB	Peripheral Bund
MB	Marginal Bund
PFB	Peripheral Bund

REFERENCES

- Common Guideline of watershed development-2008.
- Jila Sankhikiya Patrika
- Census 2001
- www.banda.nic.in

Preparation of DPR

Detail Project Report of Integrated Watershed Management Programme IWMP-XIV 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 Banda, Toposheet (1 : 50000) survey of India- Deheradoon and technical & specific input for preparation and drafting of detail project report.

S. No.	Name	Designation
1	3	2
1	Sri Vijay Singh	B. S. A.
2	Neeraj Ran	S.T.A. G.P. 'A'
3	Shyam Lal	J. E.
4	Shivaji Singh	J. E.
5	Sharma Ram	S.T.A. G.P. 'B'
6	R. R. Shankhwar	S.T.A. G.P. 'B'
7	Ram Nagina Prasad	S.T.A. G.P. 'B'
8	Shitalla Prasad Saxena	S.T.A. G.P. 'B'
9	Hari Narain Sachan	T.A. G.P. 'C'
3	Sri A. K. Srivastava	MD, Kalyani Geospatial, Lucknow
4	Dr. A. K. Kulshestra	Consultant, Kalyani Geospatial, Lucknow
5	Sri Sandeep Kumar Singh	Consultant (RS & GIS), Kalyani Geospatial, Lucknow
6	Sri Dipendra Kumar Sharma	Statistical Analyst, Kalyani Geospatial, Lucknow
7	Sri Raj Kishor Pal	Cad Expert, Kalyani Geospatial, Lucknow