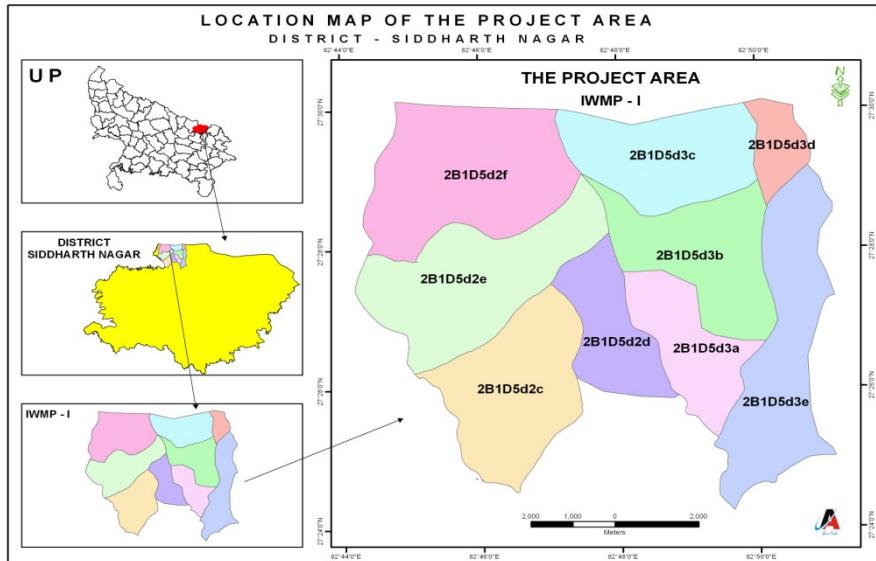


# DETAILED PROJECT REPORT (DPR)

INTEGRATED WATERSHED MANAGEMENT PROGRAMME (IWMP)

IWMP- I<sup>ST</sup> DISTRICT- SIDDHARTHA NAGAR



**SUBMITTED TO: LAND DEVELOPMENT AND WATER  
RESOURCES DEPT. UTTAR PRADESH  
LUCKNOW**



**SUBMITTED BY: BSA LDWR  
DISTRICT- SIDDHARTHA NAGAR  
YEAR- 2009-10**

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## **EXECUTIVE SUMMARY**

The micro-watershed cluster comprises of fifty-five villages in Barhani Block of Siddharthnagar District of Utter Pradesh. All these micro-watersheds have been identified by the Land development and water resources (IWMP) scheme by proper prioritization on different parameters of the selection criteria. The watershed is located in the north part of Siddharth nagar district adjacent to Nepal border. Its geographical extent is between  $27^{\circ} 24' 14.259''$ N to  $27^{\circ} 30' 12.507''$  N latitude and  $84^{\circ} 44' 13.204''$ E to  $84^{\circ} 51' 6.573''$  E longitudes. The selected nine Microwatershed codes area 2B1D5d2f, 2B1D5d2d, 2B1D5d2e, 2B1D5d3a, 2B1D5d3e, 2B1D5d2c, 2B1D5d3b, 2B1D5d3c, 2B1D5d3d. Its altitude 89 to 103 M above the mean sea Level (MSL) The total area of watershed is 8888.50 ha. These entire watersheds are surrounded by the 32 grampanchayat. The microwatershed clusters have a lot of streams. In simple words it can be refused to the divide separating one drainage basin from other.

In general the entire area is an alluvial plain, with a gentle slope, near about 1.5% from north-west to south-east. There are serval natural depressions apart from those formed by the river valleys and drainage lines. Elevated loamy soil ridges are also found especially in the north of the district (near to Nepal border).

Overall, these soils are characterized by their extreme depth, often several hundred feet, and a gray or grayish brown colour. Their texture varies from loamy, sandy loam to clay loam, Their structure is also variable, being loose, open and free draining in case of the sandy soils and compact impervious in case of the clayey soils.

Agriculture is the main occupation of the people of selected watershed project. The crops mainly raised in the district are Bajra, Maize, Mustard, Wheat, Potato, Vegetables, Rose, Moong, Arhar and Sugar cane. However, major area is covered under Paddy, Maize, Wheat & Mustard crops. While the farmers of watershed area are extensively depends on Rice, Wheat and Bajra.

Most of the lands are fallow during the Kharif season because of unavailability of assured irrigation. Only 53% area during Kharif season is cropped under the watershed area. While in Rabi season, it increase over the kharif and reached near about 47%. Thus, it clearly indicate that sustainable development of agriculture needs assured irrigation which managed by formation of watershed.

Natural vegetation of the watershed area is very poor. The vegetation in predomination are Vilayati Babul (*Prosopis juliflora*), Babul (*Acacia nilotica*). Occasional occurrence of Neem, Shisham, Anola etc. There is no grass land in the watershed cluster. The patches of grasses are seen only on the bunds, road side, ridges etc.

The watershed area is greatly affected by the soil erosion. Erosion occurred in this area mainly through Sheet erosion (about 3887 ha.) Rill erosion (about 1395 ha.) and Gully erosion (698ha) of the geographical area. This problem may be corrected by harvesting, which have lost most of their capacity due to siltation which results in creating new water bodies. The stored water in such structures provided supplemental irrigation at critical growth stages of crops as well as fruit, orchards and forest tree. In agricultural land will treat with buding along with minor leveling. Waste land will be treated with the engineering measures like staggered trenches and a forestation etc.

Project is tested and analyzed for its profitability as SWOT, Logical Framework analysis, NPV cost benefit, IRR and also Sensitivity analysis and found highly cost effective and profitable.

The detail of the project are given in the next page under following heads.

Physical and Financial details of project

Physical and Financial details of proposed activities.

Land Use plan (in hect.)

Achievements and performance of water sheds.

Code of micro water sheds of the project.

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## PROJECT AT GLANCE

1.	Name of Project	IWMP-I <sup>st</sup> Siddharthnagar
2.	Name of Block	Barhani
3.	Name of District	Siddharthnagar
4.	Name of State	Uttar Pradesh
5.	Name of Micro Watershed	DHRUGAR, KHAJURIA SARKI, DHAKERI BUJURG, DEHBARUA, MANIKURA, PAKRIHAWA, BHANPUR, BHAWPUR-urf- GULARI BAGAHI
6.	Micro Watershed Code Selected	2B1D5d2f, 2B1D5d2d, 2B1D5d2e, 2B1D5d3a, 2B1D5d3e, 2B1D5d2c, 2B1D5d3b, 2B1D5d3c, 2B1D5d3d
7.	Name of Gram Panchayat	Akrahara, Pakadihawa, Patherdeiya, rekhat, Seora, Khajuriya Sarki, barihawa, Jagdhara, Dhakehri Bujurg, Khurhuriya, Parsa, Dhaaruaw, Dhakehri Khurd, Kalyan nagar Urf hriday nagar, Jiya Bhari, Malgahiya,Aurahawa, Debarua Khas, Talkunda, Bhanpur, Bargadawa, Dudhwaniya Bujurg, Mujhehna, Bhawpur urf Gulari, Dhanaura Bujurg, Jignihawa urf Dhanauri, Redwariya, Manikaura, Ahiraula, Matiyar urf Bhuthawa, Khairi shital Prasad and Basawanpal urf Madrahiya
7.	Name of Village under Micro Watershed	Madhni, Gharuyar, Darul, Gajehari (Madhonagar), Jiyabhari, Kalyan nagar (Hridaynagar), Dudhvaniakhurd, Hasuni, Badhani, Khajuria Sarki, Bharauli, Debaruakhas, Shiswa urf Shivbahari, Barihwa, Shivpurlaguni, Karuva, Khurhuriya, Ramwapur, Shinsari, Semra, Parsoiya, Parsa, Pikaura, Dehbaruakhas, Talkunda, Orihwakhas. Madhawpur, Ahiraula, Manikaura, Tikar, Mohan kothi, Matiyar urf Bhutahwa, Gauradih, Bhanpur, Banawanpur, Madhawa Bujurg, Talkunda, Parsa, Akrahara, Ramnagar, Pathardeiya, Pakrihwa, Khajuria Sarki, Bhujahana, Dudhvania Bujurg, Bargadva, Ghorhi urf Ronihawa, Pipra, Bhanpur, Pikaura, Dhanaura Bujurg, Jignihawa, Semarahwa, Bhawpur urf Gulari, Tisam, Badhni BajarNP, Bargadava, Bagahi, Bhawpur (Gulari), Mahadeva Bujurg
8.	Total Area of the Project	8888.50 ha.
9.	Proposed Area for Treatment	6710.00 ha
10	Cost per hectare	Rs. 12000.00 per ha.

11.	Project Period	2009-10 to 2013-14
12.	Total cost of Project	805.20 lacs
13.	Total Population	54766
i	Male Population	28511
ii	Female Population	26255
iii	Literate Poplutaion	30817
14.	No. of Migration	11857
15.	No. of Farmers	2553
16.	Av. Income	19800
17.	No. of SHG	30
18.	No. UG	55

## **Methodology for the preparation of DPR**

### **I. Use of available of information**

The collection of data and details from following sources

- A. Statistics of state district and Panchayat
- B. Achievements technology from state line departments namely agriculture, horticulture, forestry industries etc.
- C. Satellite images
- D. Thematic Maps
- E. Visit of already developed watershed in the locality.
- F. Study of available watershed proposal and estimates.

### **II. Records at Watershed level**

- A. Available Records
  - 1. Block Development office
  - 2. Village Panchayat
  - 3. Lekhpal (Revenue) and Supervisors of State line Department
- B. Existing developmental activities
  - 1. Pond, irrigation tank, Channel
  - 2. Check Dam, Retentions wall in gully and slide spot area
  - 3. Drinking water structures
  - 4. Agriculture, horticulture, animal husbandry and village industries
  - 5. Forestry, Pasture and staggered trenches and common land
  - 6. Distribution of improved seeds of grain and vegetables
  - 7. SHG, UG, Van Panchayat etc.

### **III. Details of Estimates**

- 1. Estimates Prepared by field worker for the project proposal, to be checked by J.E. and Soil Conservation Officer

### **IV. Meetings**

- 1. Visit of the area and discussion with the formers using PRA and RRA exercises.
- 2. Group discussion-with office bearers of village institutions namely WDT and WC.
- 3. Discussions with district water advisory unit consisting of state line department.
- 4. Training details of PIA, WDT, and Beneficiaries

### **V. Steps of Report Preparation**

#### **A. Study of Maps**

- 1. Village Cadastral map 1:4000
- 2. Toposheet 1:50000/ 1:25000/ 1:250000.
- 3. Micro watershed map of all Prepared by RSAC, UP,
- 4. Satellite Image processing
- 5. Superimpose of sajra map on high resolute satellite image.
- 6. Contouring
- 7. Net planning on maps

#### **B. Baseline Survey with GPS (Orgon 550)**

- 1. Detailed intergraded basic resources/bench mark surveys and demarcating the present and proposed land uses, land treatment etc.

#### **C. PRA**

1. The PRA was Guiding principal and this will empower the farmers in decision making by sharing responsibilities and accountabilities of activities to be carried out by focusing on economic, ecological, equity, efficiency and empowerment
- D. Project Report
1. Need Problems General descriptions of resources, present and proposed land use and treatment, budget, drawing and estimate of work etc.
- E. Editing and improvement of report
- The well qualified consultants of watershed survey, Planning, development, monitoring and evaluation were engaged for editing and improvement of the report.

## **Process step from planning**

The following nine process steps were applied for net planning of watershed as summaries below.

- STEP-1** **Secondary data collection:-** During the five days visit programme in the micro watershed project with of all available documents of village level by approaching the Gram panchayat collected secondary data.
- STEP-2** **Village meeting & conducting PRA exercise:-** Community meeting conducted on fix days for the consultation with villagers for the PRA Exercise. Participatory mode of the villages was positive indicated for the success of programme. With good in testing participation has been drawn social & resource map on ground & paper & discussed unvarious topics of problematic thoughts in the micro watershed.
- STEP-3** **Socio economic survey:** - The resource organization of village label volunteers identified to conduct house hold socio economic survey/states.
- STEP-4** **Probe typology analysis:-** Thoroughly analyzed the data & identified problem type as soil & moisture conservation, crop rotation, crop coverage, productivity, livelihoods, social issues & capacity building gaps etc. Problems discussed with the watershed committee & came up with alternative solution.
- STEP-5** **Conduct of net participatory planning (NPP):-** The planning team visited together in the planning blocks on the scheduled date along with the beneficiaries of the villages & data gathered as for the participatory net planning.
- STEP-6** **Productivity & livelihood planning exercise:** - For the product livelihood exercise, group discussion on various livelihoods as Agriculture, Animal husbandry enterprise development held discussion with the villagers in the micro watershed.
- STEP-7** **Institutional & capacity building:** - This plan is prepared based on the data available in the field and auscultations with the watershed committee.
- STEP-8** **Data consolidation & documentation of DPR:** - After gathering all required information compiled collected data. Thoroughly discussed and finalized the expected outcomes and benefits especially in the respect of livelihood for different segments. These are the target and performers indicators for the micro watershed.
- STEP-9** **Conduct of Gram Sabha obtaining approvals submissions of DPR:-** After preparation of the draft DPR convened to Gram sabha and activities proposed expected outcomes benefits of implementing the programme are explained in case of any changes are proposed in the Gram sabha approval obtained by the Gram sabha and already singed of Siddhartha nagar paper.
- STEP-9A** **Attachment of detail estimate, cost and design:-** Estimating, Costing and design prepared technically According to plan in the micro watershed project and attached with the DPR.
- STEP-9B** **various type of mapping: -**

DPR prepared in the support of micro watershed project using various types of maps is as follows:

1. Cadastral map (Village)
2. Land use map/Land Cover map

3. Drainage/stream order map
4. Contour map
5. Slope map
3. Action Plan map
6. Micro watershed map
7. Digital Elevation Map
8. Satellite Image Map
9. Base map etc.

# **1. INTRODUCTION AND BACKGROUND**

## **1.1 Project Background**

The block Barhani of Siddharthnagar district situated in North-East plain zone of Uttar Pradesh. The block Barhani lies in nothern part of the district and is about 50 km away from district head quarter on 1 km away from State Highway on Siddharthnagar to Gorakhpur road. The block come under agroclimatic zone Eastern Plain The watershed has been identified by the state department under Integrated Watershed Management Project (IWMP) scheme by proper prioritization of different parameter of watershed selection criteria (Annexure VI). The watershed is located in north side of Siddhartnagar district. It lies between  $27^{\circ} 24' 14.259''$ N to  $27^{\circ} 30' 12.507''$  N Latitude and  $84^{\circ} 44' 13.204''$ E to  $84^{\circ} 51' 6.573''$  E longitudes. Altitude range of this watershed is 89 to 103 m from above sea level (MSL). The total area of watershed is 8888.50 ha and treatable area is 6710.00 ha

## **1.2 Basic Project information**

Name of Project	District	Block	No of Village	No of MWS	Geographical Area	Proposed Area	Treatable Area	Cost (Rs in Lacs)
IWMP Ist	Siddharth nagar	Barhani	55	9	8888.5	7455	6710	805.2

## **1.3: Status of watershed programme**

Details	No.	Area (Lac ha.)
1	2	3
Total Micro watersheds in the district	290	289500.00
Workable Micro Watersheds	260	259137.00
Micro Watersheds already treated by DLWR & other agencies	155	155000.00
Balance Micro Watersheds (MWS) for treatment (Before start of IWMP in distt.)	105	104137.00

**1.4: Approved plan (PPRs) by Steering Committee (SC)/Govt. of India**

Year	Project/Phase IWMP	MWS	Area (ha)	Project Cost Rs. lakh	Name of PIA	S.C. Meeting Date
1	2	4	5	6	7	8
2009-10	IWMP 1	9	8888.50	805.20	S.C Unit of LDWR Siddharth nagar	

**1.5: Status of previous DPRs**

S. No.	Approved Project (IWMP-I)	Status of DPR under preparation/ prepared/approved by SLNA with date	Project Area ha	Treatable Area ha	Project cost Rs.(Lakh)	Project period	PIA
1	2	3	4	5	6	7	8
1	IWMP-1	Under preparation	8888.50	6710.00	805.20	2009-10 to 2013-14	

## 1.6: Details of IWMP-I for which this DPR is Prepared

Watershed project IWMP I	Micro Watersheds (MWS) Name	Micro watersheds code	Name of Watershed in which MWS is falling (River / Nala name)
IWMP-1	Pakri hawa Khajuriya Sarki Dhekehari Bujurg Gharuyar Deberua Khas Bhanpur Bhavpur urf Gulri Baghi Manikaura	2B1D5d2f 2B1D5d2d 2B1D5d2e 2B1D5d3a 2B1D5d3e 2B1D5d2c 2B1D5d3b 2B1D5d3c 2B1D5d3d	Burhi Rapti

## 1.7 Need and Scope for Watershed Development

Watershed Development Programme is prioritized on the basis of thirteen parameters namely poverty index, percentage of SC/ST, Actual wages, Percentage of small and marginal farmers, Ground water status, Moisture index , Area under rain fed agriculture, Drinking water situation in the area, Percentage of degraded land, Productivity potential of the land, Continuity of another watershed that has already developed / treated, Cluster approach for plain and hilly terrain, Based on these thirteen parameter a compost ranking was given below table.

**Table no.1.1: Weightage of the project**

Project Name	Project Type	Weightage													Total
IWMP-I	Eastern plain	i 7.5	ii 5	iii 5	iv 10	v 0	vi 0	vii 15	viii 5	ix 10	x 5	xi 5	xii 10	xiii N.A.	77.5

**Table no 1.2 Criteria and weightage for selection of watershed**

S.No.	Criteria	Maximum Score	Ranges and Score			
i	Poverty index (% of poor to population)	10	Above 80% (10)	80-50% (7.5)	50-20% (5)	Below 20% (2.5)
ii	% of SC/ST Population	10	> 40 % (10)	20-40 % (5)	< 20 % (3)	-
iii	Actual wages	5	Actual wages significantly lower than minimum wages (5)	Actual wages significantly higher than minimum wages (0)	-	-
iv	% of small and marginal farmers	10	> 80 % (10)	50-80 % (5)	< 50 % (3)	-
v	Ground water status	5	Over exploitation (5)	Critical (3)	Sub critical (2)	Safe (0)
vi	Moisture index	15	-66.7 & below (15)	-33.3 to-66.6 (10)	0 to -33.3 (0)	-
vii	Area under rainfed agriculture	15	> 90 % (15)	80-90 % (10)	70-80 % (5)	< 70% (Reject)
viii	Drinking water	10	No source (10)	Problematic village (7.5)	Partially recovered (5)	Fully covered(0)
ix	Degraded land	15	High-above 20% (15)	Medium-10-20% (10)	Low less than 10% (5)	-
x	Productivity potential of the land	15	Land with low production & where productivity can be significantly enhanced with reasonable efforts (15)	Land with moderate production & where productivity can be enhanced with reasonable efforts (10)	Land with high production & where productivity can be marginally enhanced with reasonable efforts (5)	-
xi	Contiguity to another watershed that has already been developed/treated	10	Contagious to previously treated watershed & contiguity within the micro watershed in the project (10)	Contiguity within the micro watershed in the project but non contagious to previously treated watershed (5)	Neither contagious to previously treated watershed nor contiguity within the micro watershed in the project(0)	-
xii	Cluster approach in the watershed	15	Above 6 micro watershed in the cluster (15)	4 to 6 micro watershed in the cluster (15)	2 to 6 micro watershed in the cluster (15)	-
Xiii	Cluster approach in the hills	15	Above 5 micro watershed in the cluster (15)	3 to 5 micro watershed in the cluster (15)	2 to 3 micro watershed in the cluster (15)	

### **Objectives and Scope of Project**

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

**Table No.1.3 Watershed Information**

S. No.	Name of the Project	Micro watershed Name	Code	Area (ha)
1	IWMP 1 <sup>st</sup> SIDDHARTH NAGAR	DHRUGAR	2B1D5d2f	1530.80
2		KHAJURIA SARKI	2B1D5d2d	625.75
3		DHAKERI BUJURG	2B1D5d2e	1365.55
4		DEHBARUA	2B1D5d3a	1367.55
5		MANIKAURA	2B1D5d3e	1266.71
6		PAKRIHAWA	2B1D5d2c	1177.79
7		BHANPUR	2B1D5d3b	1009.12
8		BHAWPUR-urf- GULARI	2B1D5d3c	985.37
9		BAGAHI	2B1D5d3d	259.92

Source: secondary data

#### **1.8 Status of previous watershed programmes & other development project/scheme in the watershed area**

The IWMP 1<sup>st</sup> watershed area being very backward has been on top priority of a number of development projects. These programmes are mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS), Swarnjayanti Gram Swarojgar Yojna (SGSY), Indra Awas Yojna etc.

**Table no. 1.4 Developmental Programmes running in the project area**

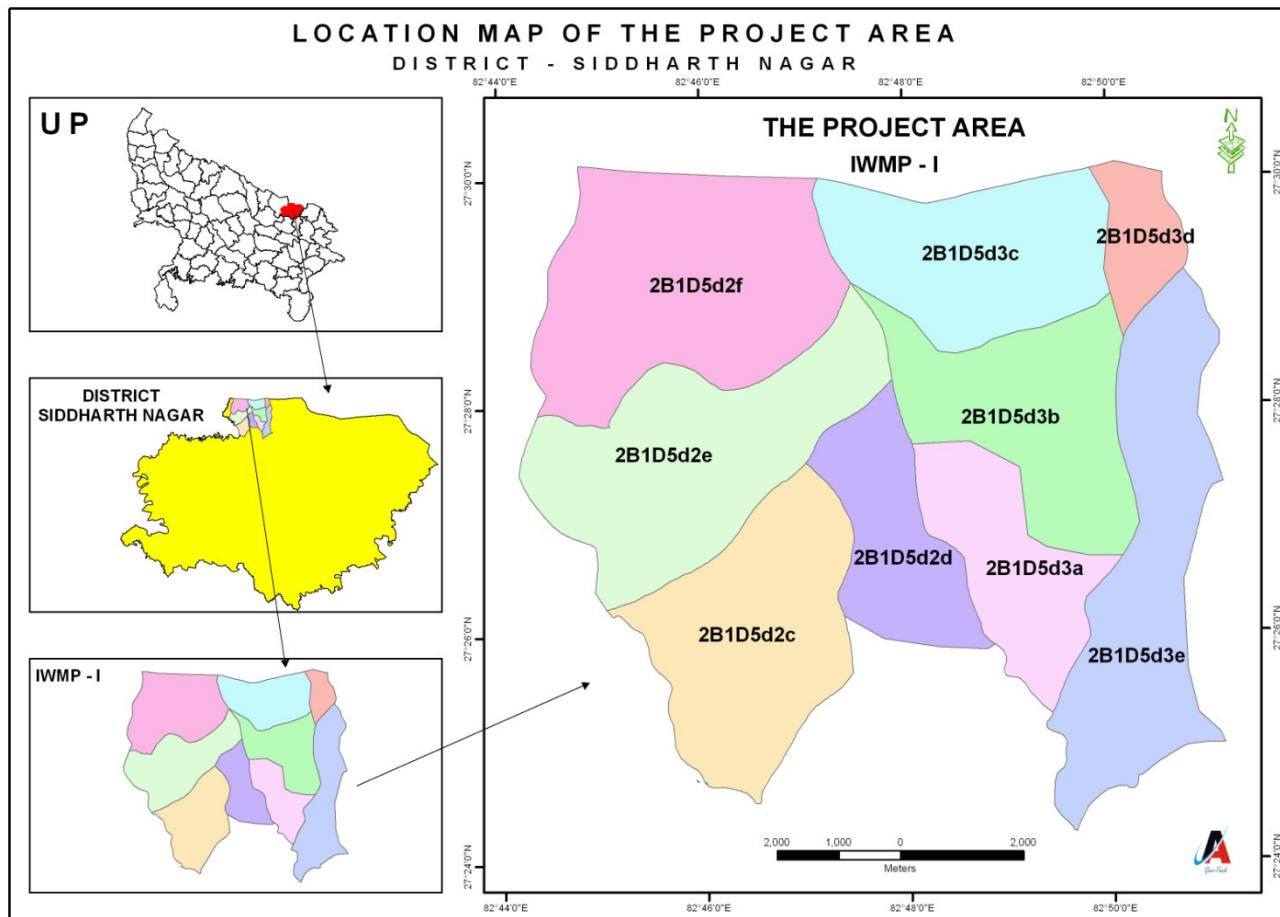
S. No.	Name of Programmes/Scheme	Sponsored Agencies	Objectives	Commencement (year)	Village Covered
1	MGNREGS	Rural Development Dept.	Employment	2009	23
2	IAY	Rural Development Dept.	Housing	2005	18
3	SGSY	Rural Development Dept.	Self employment	1999	16

Source: Primary data

## 2. GENERAL DISCRIPTION OF THE WATERSHED

### 2.1 Location

The nine micro-watersheds in Barhani block of Siddharthnagar District (U.P.) is located 50 Km away from district headquarters and 10 Km away from block headquarter situated between  $27^0 24' 14.259''$ N to  $27^0 30' 12.507''$  N Latitude and  $84^0 44' 13.204''$ E to  $84^0 51' 6.573''$  E longitude. The location of the project area is near to Nepal border.

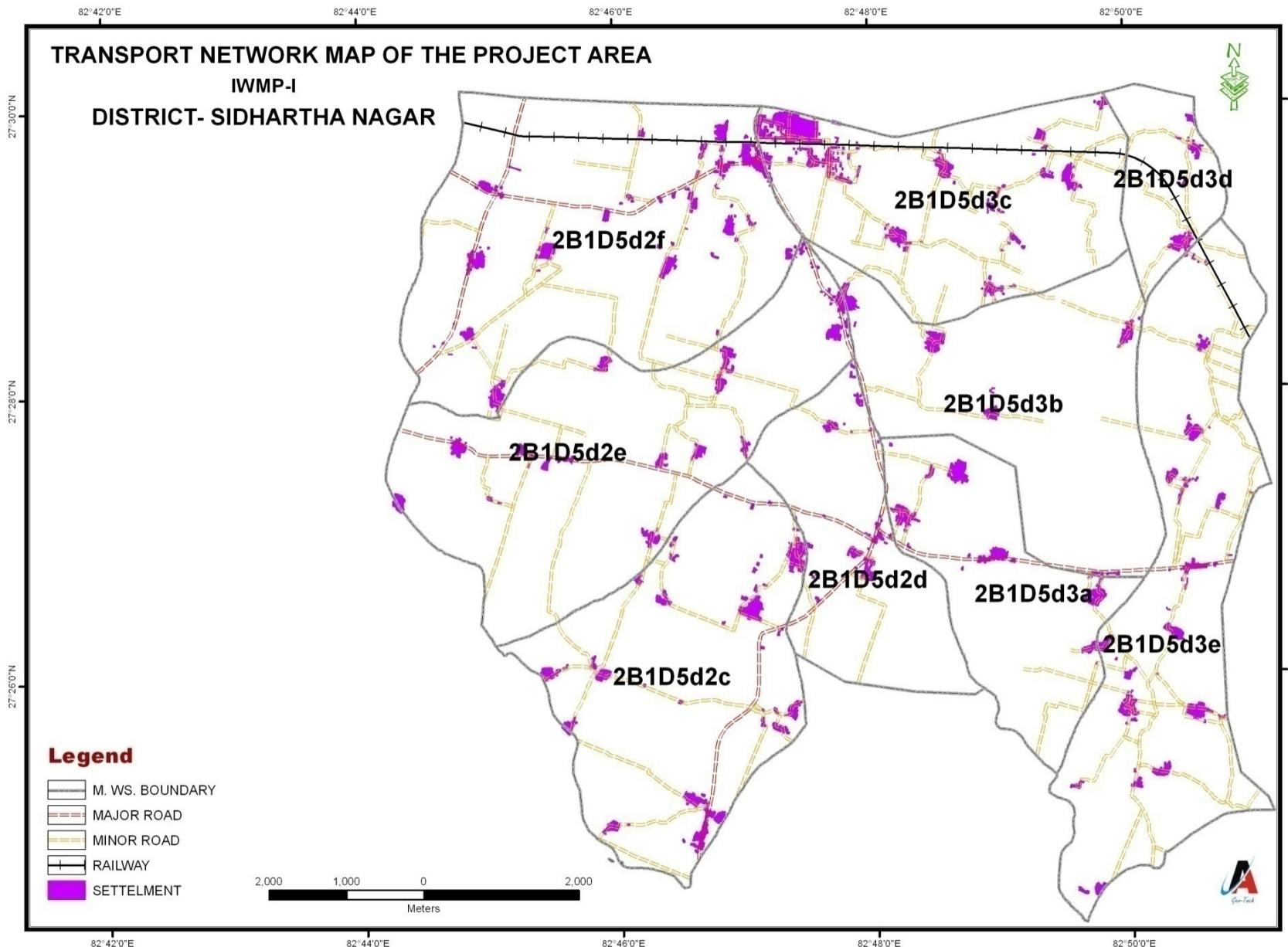


**Table no. 2.1: Micro-watershed wise details of location, Gram Panchayat, villages and geographical area of IWMP- I**

SN	Name of micro watershed with Code	Latitude /Longitude	Name of GP	Names of villages	Name of Block	Area of village included in MWS	Details of important /approach road with distance km
1	<b>Pakri hawa 2B1D5d2c</b>	27° 24' 30.257"N To 27° 27' 31.463"N & 82° 45' 1.936"E To 82° 47' 27.067"E	Akarahara	Akarahara	Barhani	271	2 Km from Itwa to Barhani road
			Pakri hawa	Pakri hawa	Barhani	347	0.5 km from Itwa to Barhani road
			Pathar Deiya	Pathar Deiya	Barhani	184	2 Km from Itwa to Barhani road
			Rekhat	Rekhat	Barhani	61.911	0 Km from Itwa to Barhani road
				Ram Nagar	Barhani	64.089	0 Km from Itwa to Barhani road
				<b>Total</b>		<b>928</b>	
2	<b>Khajuriya Sarki 2B1D5d2d</b>	27° 25' 51.167"N To 27° 28' 14.135"N & 82° 47' 1.41"E To 82° 48' 51.152"E	Sewara	Sewara	Barhani	90.95	1 km from Itwa to Barhani road
				Bharauli	Barhani	142.05	0.200 km from Itwa to Barhani road
			Khajuriya Sarki	Khajuriya Sarki	Barhani	246.22	1 km from Itwa to Barhani road
				Siswa urf Shiv Bhari	Barhani	212.78	0 km from Itwa to Barhani road
				<b>Total</b>		<b>692</b>	
3	<b>Dhekehari Bujurg 2B1D5d2e</b>	27° 24' 14.103"N To 27° 29' 11.694"N & 82° 49' 24.301"E To 82° 51' 6.278"E	Bairihawa	Bairihawa	Barhani	266	1.5 km from Itwa to Barhani road
			Jagdhara	Jagdhara	Barhani	90	3.5 km from Dhiburwa to Swansari road
				Bairiya	Barhani	97.3	5.5 km from Dhiburwa to Swansari road
				Mahadev Khurd	Barhani	48.7	4 km from Dhiburwa to Swansari road
			Dhekehari Bujurg	Dhekehari Bujurg	Barhani	30	5 km from Barhani to Tulsipur road
			Khurhuriya	Khurhuriya	Barhani	91.675	5.5 km from Dhiburwa to Swansari road
				Karuwa	Barhani	65.1	4 km from Dhiburwa to Swansari road
				Semra	Barhani	93.915	3.5 km from Dhiburwa to Swansari road
				Sonsari	Barhani	46.67	0 km from Dhiburwa to Swansari road
				Ramwapur	Barhani	63.64	3 km from Dhiburwa to Swansari road

			Parsa	Parsa	Barhani	214.59	3.5 km from Dhiburwa to Barhani road
				Parsoihia	Barhani	135.79	3 km from Dhiburwa to Barhani road
				Shivpur lagni	Barhani	113.62	3.5 km from Dhiburwa to Barhani road
			<b>Total</b>		<b>1357</b>		
4	Gharuyar 2B1D5d2f	27° 27' 48.633"N To 27° 30' 7.977"N & 82° 44' 19.963"E To 82° 47' 27.425"E	Gharuyar	Gharuyar	Barhani	196.557	0.5 km from Barhani to Tulsipur road
				Darwal	Barhani	192.443	1 km from Barhani to Tulsipur road
			Dhekehari khurd	Dudhwaniya khurd	Barhani	123	3 km from Barhani to Tulsipur road
			Kalyan Nagar urf Hriday Nagar	kalyan Nagar urf Hriday Nagar	Barhani	204.387	1.5 km from Barhani to Tulsipur road
				Hasuni urf Gajehri	Barhani	129.613	2 km from Barhani to Tulsipur road
			jiya Bhari	jiya Bhari	Barhani	116.976	2.5 km from Barhani to Tulsipur road
				Khajuriya Garvi	Barhani	35.024	3 km from Barhani to Tulsipur road
			Malgahiya	Malgahiya	Barhani	46	1 km from Barhani to Tulsipur road
				Madani	Barhani	179	0 km from Barhani to Tulsipur road
				Barhani NP	Barhani NP	167	
			<b>Total</b>		<b>1390</b>		
5	Debarua khas 2B1D5d3a	27° 25' 16.811"N To 27° 27' 41.476"N & 82° 48' 3.94"E To 82° 50' 5.385"E	Aurahawa	Aurahawa	Barhani	218	1.5 km from Itwa to Barhani road
			Debarua khas	Debarua khas	Barhani	161.873	0 km from Dhiburwa to Barhani road
				Pikaura	Barhani	151.127	0 km from Dhiburwa to Sohratgarh road
			Tal kunda	Tal kunda	Barhani	570	2 km from Dhiburwa to Sohratgarh road
			<b>Total</b>		<b>1101</b>		
6	Bhanpur 2B1D5d3b	27° 28' 33.718"N To 27° 30' 7.726"N & 82° 49' 50.229"E To 82° 50' 47.973"E	Bhanpur	Bhanpur	Barhani	275	2 km from Dhiburwa to Sohratgarh road
				Ghorhi urf Rohini khurd	Barhani	248	3.5 km from Dhiburwa to Sohratgarh road
			Bargadna	Bargadwa	Barhani	132	3 km from Barhani to Itwa road
				Pipara	Barhani	199	3.5 km from Barhani to Itwa road
			Dudhwariya Bujurg	Dudhwariya Bujurg	Barhani	140	0 km from Barhani to Itwa road
			Mujehna	Mujehna	Barhani	188	1.5 km from Barhani to Itwa road
			<b>Total</b>		<b>1182</b>		

7	<b>Bhavpur urf Gulari 2B1D5d3c</b>	27° 28' 25.776"N To 27° 30' 5.572"N & 82° 47' 6.651"E To 82° 50' 1.225"E	Bhavpur urf Gulari	Bhavpur urf Gulari	Barhani	175.255	6 km from Dhiburwa to Sohratgarh road
				Chamrahuwa	Barhani	147.745	6.5 km from Dhiburwa to Sohratgarh road
			Dhanaoura Buzurg	Dhanaoura Buzurg	Barhani	175.526	2.5 km from Barhani to Sitwa road
				Gajehri urf Madhav Nagar	Barhani	144.474	3 km from Barhani to Sitwa road
			Jigni hawa urf Dhanaori	Jigni hawa urf Dhanaori	Barhani	105.458	1.5 km from Barhani to Sitwa road
				Tisam	Barhani	150.542	3.5 km from Barhani to Sitwa road
			Badhni Bazar NP	Badhni Bazar NP	Barhani	168	
			<b>Total</b>			<b>1067</b>	
8	<b>Bagahi 2B1D5d3d</b>	27° 28' 33.723"N To 27° 30' 7.421"N & 82° 49' 50.223"E To 82° 50' 47.63"E	Redwariya	Bagahi	Barhani	57	5.5 km from Dhiburwa to Sohratgarh road
				Mahadev Buzurg	Barhani	239	5 km from Dhiburwa to Sohratgarh road
			<b>Total</b>			<b>296</b>	
9	<b>Manikaura 2B1D5d3e</b>	27° 24' 14.269"N To 27° 29' 11.276"N & 82° 44' 13.204"E To 82° 51' 6.573"E	Manikaura	Manikaura	Barhani	118	2 km from Dhiburwa to Sohratgarh road
			Ahiraula	Ahiraula	Barhani	116	1.5 km from Dhiburwa to Sohratgarh road
			Matiyar urf Buthawa	Matiyar urf Buthawa	Barhani	178	1 km from Dhiburwa to Sohratgarh road
			kahairashital Prasd	Tikar	Barhani	155	2.5 km from Dhiburwa to Sohratgarh road
			Basawant Pal urf Madhraiya	Basawant Pal urf Madhraiya	Barhani	204.4	0 km from Dhiburwa to Sohratgarh road
				Madhwapur	Barhani	103.6	2 km from Dhiburwa to Sohratgarh road
			<b>Total</b>			<b>875</b>	
			<b>Grand Total</b>			<b>8888</b>	



## **2.2 Area: Land use Pattern**

The IWMP I<sup>st</sup> watersheds has diversified land uses namely agriculture, waste land (open scrub), seasonal water bodies etc. The varied present land use and area under different categories in watershed is shown in Table 2.2. The mixed land use followed in the watershed is almost similar in other parts of the U.P. During PRA exercise, the villagers prepared land use. One such map of village of IWMP I<sup>st</sup> watershed is shown in table 2.2.

**Table no. 2.2: Details of land resources in IWMP-I**

### **Major Lnad Use**

SN	Name of Code & Microe	Cultivated and wasteland			Area details (ha.) (falling within the projects)									
		area of the village (ha)		Uncultivated wasteland/ fallow	Pvt. Agri. Land					Forest Land	Community land	Others (Pl. specify)	Total area (ha)	
		Cultivated rainfed area	Cultivat. irrigated area		Temp.	Permanent	Gen	SC	ST	OBC	Total			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	16
1	<b>Pakrihawa (2B1D5d2d)</b>	726.35	147.44	8.65	3.5	203.24	150.29	0	520.25	873.79	0	7.5	34.56	<b>928</b>
2	<b>Khajuriya Sarki (2B1D5d2c)</b>	553.5	81.44	5.5	4.6	147.69	109.20	10	368.04	634.94	0	9.4	37.56	<b>692</b>
3	<b>Dekehari Bujurg (2B1D5d2e)</b>	1103	192.75	8	3.8	301.39	222.86	3	769.48	1295.75	0	8.6	40.85	<b>1357</b>
4	<b>Dhrugar (2B1D5d2f)</b>	962.5	366.12	7.5	5.9	309.04	228.52	0	791.06	1328.62	0	8.2	39.78	<b>1390</b>
5	<b>Debarua Khas (2B1D5d3a)</b>	860.58	181.89	6.42	4.2	242.48	179.30	0	620.68	1042.47	0	7.3	40.61	<b>1101</b>
6	<b>Bhanpur (2B1D5d3b)</b>	946.02	177.02	9.98	3.8	261.22	193.16	0	668.6	1123.04	0	8.4	36.78	<b>1182</b>
7	<b>Bhavpur Urf Gulari (2B1D5d3c)</b>	691.48	310.05	13.52	6.6	232.96	172.26	0	596.31	1001.53	0	6.9	38.45	<b>1067</b>

8	<b>Bagahi (Reduvariya (2B1D5d3d)</b>	230.75	45.22	4.25	7.4	64.19	47.46	0	164.3125	275.97	0	1.06	7.32	<b>296</b>
9	<b>Mani Kaura (2B1D5d3e)</b>	565.46	265	6.54	5.5	193.16	142.83	0	494.4559	830.46	0	3.1	29.4	<b>875</b>
	<b>Total</b>	<b>6639.64</b>	<b>1766.93</b>	<b>70.36</b>	<b>45.3</b>	<b>1955.37</b>	<b>1445.93</b>	<b>13</b>	<b>4993.27</b>	<b>8406.57</b>	<b>0</b>	<b>60.46</b>	<b>305.31</b>	<b>8888</b>

Various agricultural land uses in the watershed are extended to diversified land capabilities starting from marginal to good class II lands. The watershed distinctly has three types of lands i.e. leveled, sloping and degraded and undulating. The agriculture is practiced on all these soil types though the productivity considerably varies. The total area under agriculture in the watershed is about 8406.57 ha out of which 1766.93 ha is irrigated while 6639.64 ha are under rain-fed agriculture. The water (both irrigated and drinking) is most scarce natural resource in the watershed. The problem of tube wells for irrigation of agricultural crops frequently leads to the drinking water problem to the farmers of watershed forcing them to carry drinking water from outside the watershed area. The agricultural field bunds are common in the watershed, however, they frequently breach on heavy rains adversely affecting the in situ percolation of rain water in the soils.

### **2.3 Physiography**

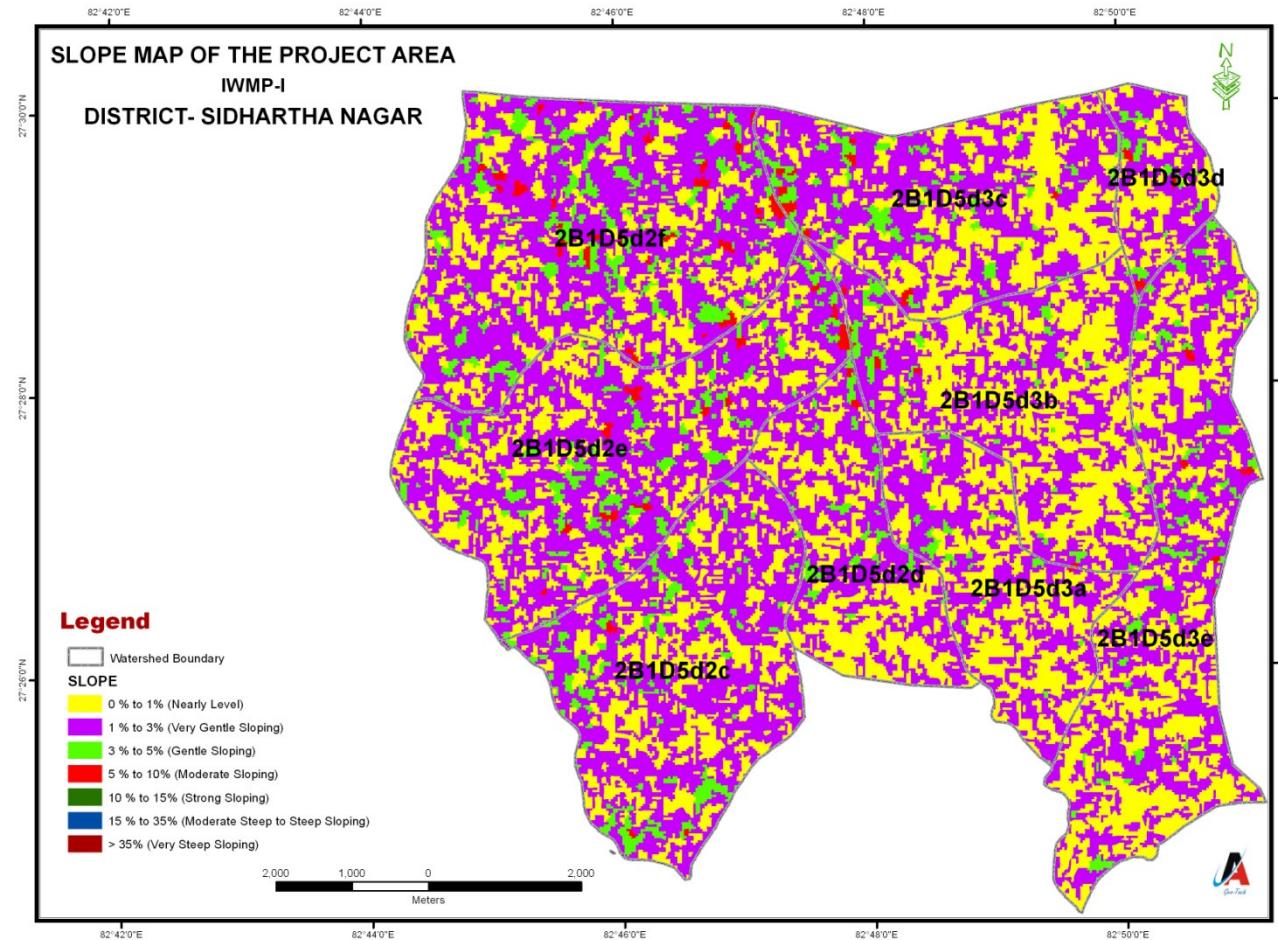
Total area of the IWMP I<sup>st</sup> Siddharthnagar is 8888.50 ha with treatable area 6710.00 ha. Elevation range and location of altogether nine micro watershed shed are given below above

**Table no. 2.4: Elevation range, longitude latitude, relief height difference etc\***

<b>Micro watershed</b>	<b>Elevation of watershed from MSL</b>		
	<b>Maximum</b>	<b>Minimum</b>	<b>Relief height difference</b>
<b>2B1D5d2d (KHAJURIA SARKI)</b>	102	90	12
<b>2B1D5d2e (DHAKERI BUJURG)</b>	103	91	12
<b>2B1D5d3a (DEHBARUA)</b>	97	89	8
<b>2B1D5d3e (MANIKURA)</b>	99	89	10
<b>2B1D5d2c (PAKRIHAWA)</b>	97	90	7
<b>2B1D5d3b (BHANPUR)</b>	103	91	12
<b>2B1D5d3c (BHAWPUR-urf- GULARI )</b>	102	93	9
<b>2B1D5d3d (BAGAHI)</b>	101	93	8

## 2.4 Slope:

Spatial distribution of different slope classes was prepared using Arc GIS. Slope was divided into five classes' viz. 0-0.5, 0.5-1.0, 1-3, 3-5, and more than 5 per cent. Per cent areal extent of different slope classes in IWMP-I micro-watershed is shown in Table 9. The slope category in the micro-watershed was 0-0.5 per cent coverd 1137 ha. 0.5-1.0 per cent 3327 ha. 1-3 percent In 3745 ha, area under more than 3% is 680 ha.



**Table no. 2.5: Areal extent of various slope classes in the Micro-watershed of IWMP-I**

Sl. No.	Name of MWS & code	Slope range wise area (ha)					
		0-0.5%	0.5-1.0%	1-3%	3-5%	>5%	
		Undulating	Terraced				
1	2	3	4	5	6	7	8
01	<b>Pakrihawa (2B1D5d2d)</b>	119	347	391	71	-	-
02	<b>Khajuriya Sarki (2B1D5d2c)</b>	89	259	292	53	-	-
03	<b>Dekehari Bujurg (2B1D5d2e)</b>	174	508	572	104	-	-
04	<b>Dhrugar (2B1D5d2f)</b>	178	520	586	106	-	-
05	<b>Debarua Khas (2B1D5d3a)</b>	141	412	464	84	-	-
06	<b>Bhanpur (2B1D5d3b)</b>	151	442	498	90	-	-
07	<b>Bhavpur Urf Gulari (2B1D5d3c)</b>	136	399	450	82	-	-
08	<b>Bagahi (Reduvariya (2B1D5d3d)</b>	38	111	125	23	-	-
09	<b>Mani Kaura (2B1D5d3e)</b>	112	328	369	67	-	-
<b>Total</b>		<b>1137</b>	<b>3327</b>	<b>3745</b>	<b>680</b>		

## 2.4 Climate

The watershed falls under the semi-arid region of tropical climate. The average annual precipitation is 635.388 mm spreading over 60-80 rainy days. Most of the rainfall (about 80 %) is received during July to September. The rainfall is of moderate to high intensity. The area receives scanty rainfall in the winter season. The temperature variation ranges from as high as 38.1°C in the month of May- June to as low as 5.1°C in December- January.

**Table no. 2.6: Climatic Condition**

Month	Year/Rainfall in mm.						Temperature °C	
	2005	2006	2007	2008	2009	Average	Max.	Min.
<b>January</b>	0	0	0	0	0	0	15.2	5.1
<b>February</b>	0	0	0	29	0	3	26.6	12.2
<b>March</b>	0	0	25	0	9	0	30.5	16.5
<b>April</b>	23.5	0	0	5	0	9.5	33.5	24.2
<b>May</b>	39	0	0	38	7	29.75	38.1	25.5
<b>June</b>	65.7	15	119	30	218.7	84.1	37.5	28.6
<b>July</b>	250	405.57	236	334.5	361.8	229.322	36.6	26.9
<b>August</b>	65.5	150.3	114	159.6	102	165.44	35.4	28.2
<b>September</b>	36	53	70	116	16	86.838	34.2	28.9
<b>October</b>	30.5	147	0	6	5	18.038	31.1	22.9
<b>November</b>	0	0	0	0	0	9.4	23.2	18.4
<b>December</b>	0	0	0	0	0	0	18.4	12.5
	<b>486.7</b>	<b>770.87</b>	<b>564</b>	<b>718.1</b>	<b>710.5</b>	<b>635.388</b>		

Source: Indian Meteorological department (2010)

## 2.5 Flood and Drought Condition:

The open pan evaporation varied in the range of 0.5 to 23 mm/day during the year with average of about 5 mm/day. Average relative humidity varied in the range of 25 to 98 per cent; however the range of wind speed is 0.9 to 16 kmph. The details of flood and drought in the project area are showed in below table.

**Table no. 2.7: Details of flood and drought in the project area Project IWMP- I**

Cause	Type of erosion	Area affected (ha)	Run off (mm/ year)	Average soil loss (Tonnes/ ha/ year)
<b>Water erosion</b>				
A	Sheet	3887.00	254.15	16-20
B	Rill	1395.00		
C	Gully	698.00		
<b>Sub-Total</b>		5980.00		
<b>Wind erosion</b>		-	NA	
<b>Total</b>		<b>5980.00</b>	254.15	16-20

**Table no. 2.8: Length of main stream, drainage density, average slope, watershed relief etc.**

Project Name	Main stream	Drainage Density	Average Slope
IWMP 1 <sup>st</sup> SIDDHARTH NAGAR	I-5800 meter II- 7300 meter III- 13000 meter	0.90-1.20 meter/second	0-4%

## **2.6 Geomorphology and Soils**

### **2.6.1 Geomorphology**

The IWMP I<sup>st</sup> Siddharthnagar watershed is located in North side of the Siddharthnagar district. The entire watershed is topographically divided into three major landforms. Accordingly, the soils of watershed can be grouped into three major categories. Such as

- Plain land
- Sloppy land,
- Ravineous land

### **2.6.2 Sloppy Land-Sandy Loam**

The topmost portion (western & northwest part) of the watershed is slopy land with occasional depressions of flat land. These soils are derived from the Sandy loam and are located at some height of around 10 feet. They have developed from typical alluvial soil slightly alkaline in nature with occasional thin layers of silt in small patches. Near the high level, the soils are coarse and underlying with hard sandstones. The soils of the upper level and very nearby adjoining areas are loamy sand to sand in texture. Depth is the major limitations of these soil groups. As move away upper level, the soil depth gradually increases along with clay content thereby improving the fertility. The soils are alluvial in colour with ferruginous concretions with slightly alkaline in reaction.

### **2.6.3 Fine textured alluvial soils**

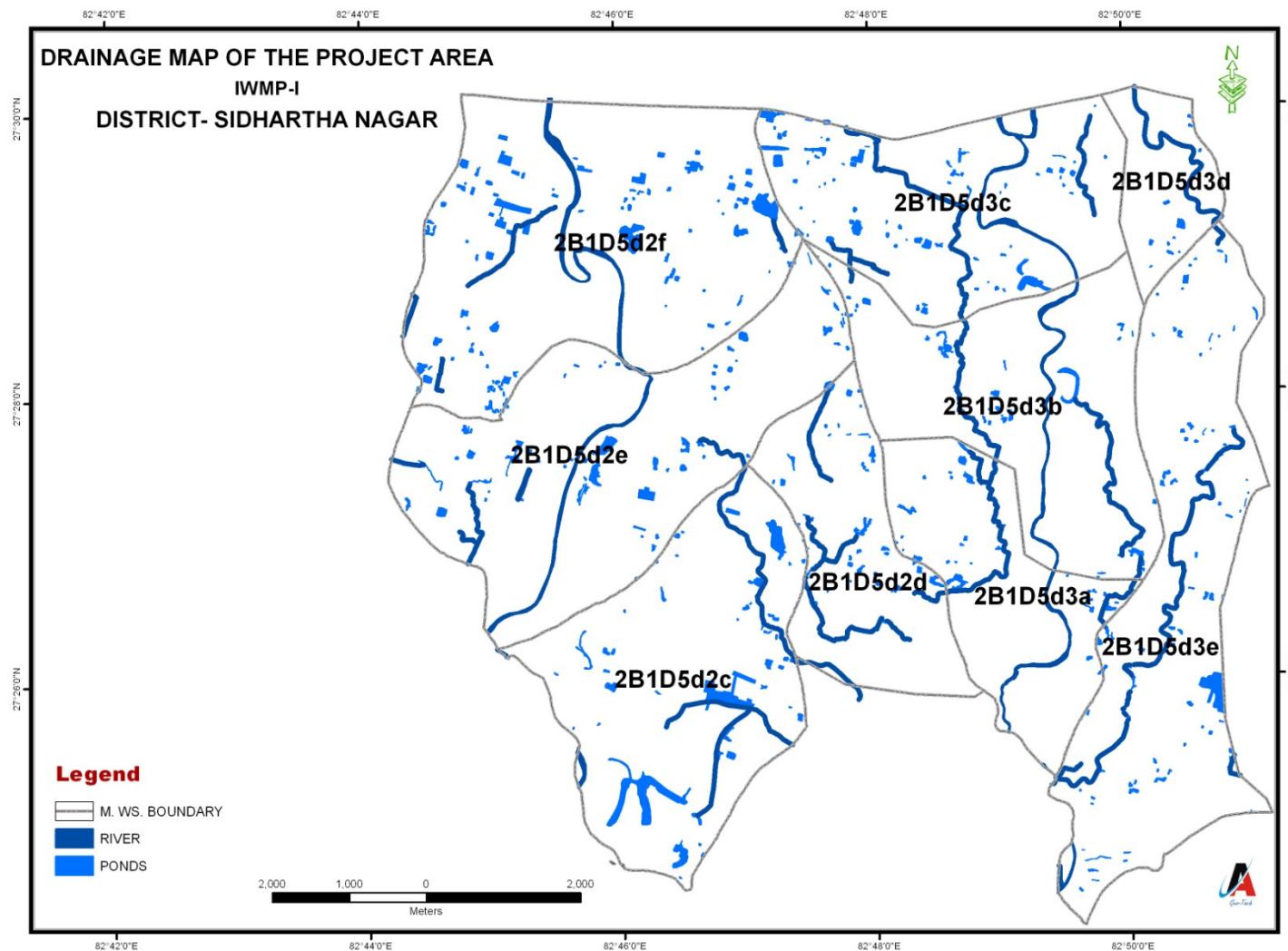
These soils are the most extensive soil group found in the IWMP I<sup>st</sup> Siddharthnagar watershed. The middle portion of watershed is relatively flat land with fine soil texture. These soils are grey in colour and are inherently high in fertility status. These grey soils are sticky with high PH and on drying develop numerous cracks and fissures. Soil texture is silty clay loam particularly in depressions and loam in the elevated portion. The soils of the lower horizon are invariably heavier than the surface, being a zone of compaction and invariably a zone of calcium carbonate accumulation in the form of Kankar nodules. Subsurface has indurate pan of kankar of clay or mixtures of both locally called as Potni soils is prevalent, which impede the downward movement of water thereby creating problems of high runoff.

#### **2.6.4 Coarse textured alluvial soils**

These soils are lying mostly near the adjoining areas of Budhi Rapti River near the outlet and around the lower portion of foot hill of watershed. These soils are coarser in texture and are relatively poor in fertility status. The soils are loamy sand in texture. These soils also occupy significant area of the watershed. The soils are derived from the alluvial deposit and also from residual soils of the hill region. Rill and gully formation in some parts particularly near the outlet of watershed can be seen.

#### **2.7 Drainage System**

Due to prevalence of mild to steep slopes and presence of a number of drainage lines in the watershed, the drainage system is adequate. The watershed forms part of Gandak basin.



## **Objectives and Scope of the Project**

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

### **MAJOR PROBLEMS OF THE WATERSHEDS**

- f. Moisture stress-Drought conditions
- g. Erosion hazard
- h. Excess runoff.
- i. Land degradation
- j. Low fertility of soil
- k. Ground water depletion/Low ground water table, poor quality of groundwater
- l. Low cropping intensity
- m. Lack of technical knowledge
- n. Lack of irrigation facilities
- o. Low productivity of crops
- p. Low availability of drinking water for human as well as animals
- q. Overgrazing
- r. Poor vegetative cover
- s. Poor/low productive breeds of milch animals
- t. Lower milk production
- u. Lack of feed & fodder availability
- v. Non availability of wood/fuel
- w. Lack of proper market facilities
- x. Lack of educational, transportation, medical & health care facilities
- y. Low wages
- z. Small land holdings
- aa. Low income of the households
- bb. Lack of employment opportunity.
- cc. Migration from the project area

### **3.8 PROBLEMS AND NEEDS OF THE AREA**

#### **3.9.1 Problem Identification and prioritization**

Food sufficiency, economic growth and environmental security were identified as the major issues to be addressed in the watershed area. The area has undulating topography, steep unstable slopes, and excessive channel gradient and hence highly prone to soil erosion. Effective soil depth is limited and spatially highly variable hampering good crop growth.

Problems identified and prioritized during the transect walk and PRA exercises in all the villages of this IWMP I<sup>st</sup> watershed were pooled and a list of nine problems representing the whole watershed was prepared. Problems were ranked as per their total weight age in the three villages. Lack of irrigation water was the greatest problem experienced by the people followed by low production of field crops, lack of fodder availability and low animal productivity.

Strength, weakness, opportunity and threat (SWOT) analysis is a useful decision support tool, A SWOT analysis of the Micro watersheds.

**Table no. 3.21: Problem identification and prioritization for Micro Watersheds**

S. No.	Problem	Rank
1	Low production of field crops	2
2	Lack of drinking water	3
3	Lack of irrigation water	1
4	Low production of fish	5
5	Non-availability of fuel wood	7
6	Lack of inputs like quality seeds, fertilizer, pesticides etc.	9
7	Lack of market facility	8
8	Lack of medical, educational and transportation facilities	4
9	Medical and Health care facilities for milching animals and low productivity.	6

**Table no. 3.22: SWOT analysis of the Micro Watersheds**

Strengths (S)		Weakness (W)	
1	Cooperative work culture in traditional activities.	1	Poor water management
2	Close ethic ties	2	Resource poor farmers
3	Road at the top as well as outlet of the watershed	3	Out migration of youth
4	Hard working	4	Low and erratic rainfall
5	Resource pool of crop genetics diversity	5	Fragile geology
6	Awareness of farmers about watershed management programme	6	Fragmented land holding
7	Well established CPR maintaining and sharing system	7	Heavy infestation of wild animals
8	Stall feeding of animals	8	Problem of fuel and fodder
9	Well maintained seasonal water bodies	9	Shallow soil depth and with high percentage of gravel
10	Social outlook of the community towards land less		
Opportunities (O)		Threats (T)	
1	Wide range of annual and perennial crops	1	Prone to adverse climate like drought
2	Scope of regular employment opportunities to check out migration	2	High market risk
3	Strengthening of existing irrigation system	3	Social conflicts owing to PRI and WSM policies and local politics
4	Conducive climate for rainfed crop diversification	4	Weak coordination among line departments
5	Good scope for Agro forestry and dry land horticulture	5	Lack of expertise of implementing agency in different aspects of WSM
6	Potential for collective action and management of CPR		

### 3. BASELINE SURVEY

#### 3.1. Socio Economic Condition

##### 3.1.1 Demographic pattern

The total population of nine micro watershed are 54766 and 2553 house holds is with average family size is 6.73 person s.

**Table No. 3.1: Demographic pattern detail**

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	<b>Pakrihawa 2B1D5d2c</b>	Akhrara	1535	818	717	193	117	76
		Pakrihawa	2683	1391	1292	453	239	214
		Patthar Deiya	1134	539	595	337	173	164
		Rekhat	1451	779	672	128	68	60
		Ram Nagar	986	525	461	384	203	181
			<b>Total</b>	<b>7789</b>	<b>4052</b>	<b>3737</b>	<b>1495</b>	<b>800</b>
2	<b>Khajuria Sarki 2B1D5d2d</b>	Sevara	735	396	339	158	86	72
		Bhrauli	597	324	273	252	133	119
		Khajuria Sarki	1587	795	792	209	111	98
		Siswa urf Shivbhari	1052	572	480	206	117	89
			<b>Total</b>	<b>3971</b>	<b>2087</b>	<b>1884</b>	<b>825</b>	<b>447</b>
3	<b>Dhekahri Bujurg 2B1D5d2e</b>	Bairihawa	1671	871	800	326	165	161
		Jagdhara	740	391	349	167	92	75
		Bairiya	523	277	246	77	45	32
		Mahadev Khurd	477	266	211	130	70	60
		Dhekahri Bujurg	1596	843	753	182	94	88
		Khurhuriya	947	496	451	201	103	98
		Karuwa	184	103	81	0	0	0
		Chamra	154	86	68	0	0	0
		Swansari	386	200	186	71	40	31

		Ramwapur Gairabad	0	0	0	0	0	0
		Parsa	1371	683	688	123	62	61
		Parsohiya	823	422	401	2	1	1
		Sheopur Lagni	10	5	5	0	0	0
		<b>Total</b>	<b>8882</b>	<b>4643</b>	<b>4239</b>	<b>1279</b>	<b>672</b>	<b>607</b>
4	<b>Gharuyar 2B1D5d2f</b>	Gharuyar	674	379	295	319	173	146
		Daraul	704	399	305	114	58	56
		Dudhawniya Khurd	371	192	179	150	77	73
		Kalyan Nagar urf Hriday Nagar	839	430	409	213	113	100
		Hsuni urf Gajehri	523	267	256	38	17	21
		Jiya Bhari	821	431	390	141	68	73
		Khajuria Garvi	452	223	229	66	34	32
		Malgahiya	980	474	506	134	74	60
		Madni	983	511	472	250	124	126
		<b>Total</b>	<b>6347</b>	<b>3306</b>	<b>3041</b>	<b>1425</b>	<b>738</b>	<b>687</b>
5	<b>Dearuwa Khas 2B1D5d3a</b>	Aurahawa	1540	796	744	55	26	29
		Debaruwa Khas	980	506	474	258	140	118
		Pikaura	910	478	432	91	41	50
		Talkunda	2779	1454	1325	343	172	171
		<b>Total</b>	<b>6209</b>	<b>3234</b>	<b>2975</b>	<b>747</b>	<b>379</b>	<b>368</b>
6	<b>Bhanpur 2B1B5d3b</b>	Bhanpur	1363	721	642	106	51	55
		Ghorhi urf Rohinihawa	896	450	446	147	77	70
		Bargadwa	918	483	435	25	9	16
		Pipra	679	334	345	26	12	14
		Dudhwaniya Bujurg	2031	1070	961	167	87	80
		Mujehana	1222	665	557	189	103	86
		<b>Total</b>	<b>7109</b>	<b>3723</b>	<b>3386</b>	<b>660</b>	<b>339</b>	<b>321</b>
7	<b>Bhavhpur urf Gulri</b>	Bhavhpur urf Gulri	1105	579	526	132	75	57
		Semrahuwa	744	381	363	179	90	89

	<b>2B1D5d3c</b>	dhanaura Bujurg	1365	691	674	398	204	194
		Gajehri urf MadhavNagar	796	439	357	137	76	61
		Jignahuwa urf Dhanauri	1153	585	568	16	8	8
		Tisam	729	369	360	72	37	35
		<b>Total</b>	<b>5892</b>	<b>3044</b>	<b>2848</b>	<b>934</b>	<b>490</b>	<b>444</b>
8	<b>Bagahi 2B1D5d3d</b>	Bagahi	582	294	288	115	65	50
		Mahadev Bujurg	939	462	477	132	69	63
		<b>Total</b>	<b>1521</b>	<b>756</b>	<b>765</b>	<b>247</b>	<b>134</b>	<b>113</b>
9	<b>Manikaura 2B1D5d3e</b>	Manikaura	1488	790	698	388	205	183
		Ahiraula	1637	850	787	465	226	239
		Matiyar urf Bhuthawa	2003	1045	958	496	244	252
		Tikar	208	104	104	100	47	53
		Basawanpal urf Madarhiya	1431	726	705	41	22	19
		Madhwapur	279	151	128	65	34	31
		<b>Total</b>	<b>7046</b>	<b>3666</b>	<b>3380</b>	<b>1555</b>	<b>778</b>	<b>777</b>
		<b>Grand Total</b>	<b>54766</b>	<b>28511</b>	<b>26255</b>	<b>9167</b>	<b>4777</b>	<b>4390</b>

Source: District statistic magazine

**Table no. 3.2: Literacy rate detail**

S. No.	Name of Micro Watershed	Name of Villages	Total population	No. of Literacy		
				Male	Female	Total
1	<b>PAKRIHAWA 2B1D5d2d</b>	Parsa, Akrahara, Ramnagar, Pathardeiya, Pakrihwa, Khajuria Sarki	7789	2748	1614	4362
2	<b>KHAJURIA SARKI 2B1D5d2c</b>	Khajuria Sarki, Bharauli, Debaruakhas, Shiswa urf Shivbahari, Barihwa	3971	1211	774	1986
3	<b>DHAKERI BUJURG 2B1D5d2e</b>	Barihawa, Shivpurlaguni, Karuva, Khurhuriya, Ramwapur, Shinsari, Semra, Parsoiya, Parsa	8882	3576	1842	5418
4	<b>DHRUGAR 2B1D5d2f</b>	Madhni, Gharuyar, Darul, Gajehari (Madhonagar), Jiyabhari, Kalyan nagar (Hridaynagar), Dudhvaniakhurd, Hasuni, Badhani	6347	2417	1137	3554
5	<b>DEHBARUA 2B1D5d3a</b>	Pikaura, Dehbaruakhas, Talkunda, Orihwakhas	6209	2561	854	3415
6	<b>BHANPUR 2B1D5d3b</b>	Bhujahana, Dudhvania Bujurg, Bargadva, Ghorhi urf Ronihawa, Pipra, Bhanpur, Pikaura	7109	2140	917	3057
7	<b>BHAWPUR-urf- GULARI 2B1D5d3c</b>	Dhanaura Bujurg, Jignihawa, Semarahwa, Bhawpur urf Gulari, Tisam, Badhni BajarNP, Bargadava	5892	2878	1011	3889
8	<b>BAGAHI 2B1D5d3d</b>	Bagahi, Bhawpur (Gulari), Mahadeva Bujurg	1521	724	325	1049
9	<b>MANIKAURA 2B1D5d3e</b>	Madhawpur, Ahiraula, Manikaura, Tikar, Mohan kothi, Matiyar urf Bhutahwa, Gauradih, Bhanpur, Banawanpur, Madhawa Bujurg, Talkunda	7046	2942	1144	4087
		<b>Total</b>	<b>54766</b>	<b>21197</b>	<b>9618</b>	<b>30817</b>

Source: District statistic magazine

**Table no. 3.3: Migration detail**

S. No.	Name of Micro Watershed	No. of Villages	Total population	Migration			Migration by Month			Main reason for migration	Income during migration
				Total	Male	Female	<3Month	3-6 Month	>6 month		
1	PAKRIHAWA 2B1D5d2d	5	7789	1686	1521	165	678	600	408	Poverty & Employment	Rs 3500/ month
2	KHAJURIA SARKI 2B1D5d2c	4	3971	860	698	162	346	306	208	Poverty & Employment	Rs 4500/ month
3	DHAKERI BUJURG 2B1D5d2e	13	8882	1923	1864	59	774	684	466	Poverty & Employment	Rs 4500/ month
4	DHRUGAR 2B1D5d2f	9	6347	1374	1263	111	553	489	333	Poverty & Employment	Rs4000/ month
5	DEHBARUA 2B1D5d3a	4	6209	1344	1297	47	541	478	325	Poverty & Employment	Rs 4500/ month
6	BHANPUR 2B1D5d3b	6	7109	1539	1436	103	619	547	373	Poverty & Employment	Rs4000/ month
7	BHAWPUR- ur- GULARI 2B1D5d3c	6	5892	1276	1163	113	513	454	309	Poverty & Employment	Rs 4500/ month
8	BAGAHI 2B1D5d3d	2	1521	329	196	133	132	117	80	Poverty & Employment	Rs 3500/ month
9	MANIKAURA 2B1D5d3e	6	7046	1525	1387	138	614	542	369	Poverty & Employment	Rs 3500/ month
			54766	11857	10825	1032	4770	4216	2871		

Source : Secondary data

**Table no.3.4: Details of infrastructure in the project area**

S.No.	Name of Micro Watershed	Name of Village	Parameters				Status						
1	<b>DHRUGAR 2B1D5d2f</b>	<b>Gharuyar Daraul Dudhawniya Khurd Kalyan Nagar urf Hriday Nagar Hsuni urf Gajehri Jiya Bhari Khajuria Garvi Malgahiya Madni</b>	(i)	Name of villages connected to the main road by an all-weather road				All Villages					
			(ii)	Village's Name provided with electricity				All Villages					
			(iii)	No. of households without access to drinking water				31					
			(iv)	No. of educational institutions :		Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)		(P) 11	(S) 4	(HS) 1	(VI) -		
			(v)	Names of villages with access to Primary Health Centre				All Villages					
			(vi)	Names of villages with access to Veterinary Dispensary				All Villages					
			(vii)	Names of villages with access to Post Office				All Villages					
			(viii)	Names of villages with access to Banks				All Villages					
			(ix)	Names of villages with access to Markets/ mandis				All Villages					
			(x)	Names of villages with access to Agro-industries				All Villages					
			(xi)	Total quantity of surplus milk deficit				261/ day					
			(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))		(U) 3	(S) 1	(PA) -	(O) 3				
			(xiii)	Name of villages with access to Anganwadi Centre				All Villages					
			(xiv)	Any other facilities with names of villages (please specify)				---					
2	<b>KHAJURIA SARKI 2B1D5d2d</b>	<b>Sevara Bhrauli Khajuria Sarki Siswa urf Shivbhari</b>	(i)	Name of villages connected to the main road by an all-weather road				All Villages					
			(ii)	Village's Name provided with electricity				All Villages					
			(iii)	No. of households without access to drinking water				39					
			(iv)	No. of educational institutions :		(P) 5	(S) 2	(HS) -	(VI) -				
				Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)									
			(v)	Names of villages with access to Primary Health Centre				All Villages					
			(vi)	Names of villages with access to Veterinary Dispensary				All Villages					
			(vii)	Names of villages with access to Post Office				All Villages					

			(viii)	Names of villages with access to Banks	All Villages
			(ix)	Names of villages with access to Markets/ mandis	All Villages
			(x)	Names of villages with access to Agro-industries	---
			(xi)	Total quantity of surplus milk deficit	300 Lt./ day
			(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) - (S) 1 (PA) - (O) 3
			(xiii)	Name of villages with access to Anganwadi Centre	All Villages
			(xiv)	Any other facilities with names of villages (please specify)	---
3	<b>DHAKERI BUJURG 2B1D5d2e</b>	<b>Bairihawa Jagdhara Bairiya Mahadev Khurd Dhekahri Bujurg Khurhuriya Karuwa Chamra Swansari Ramwapur Gairabad Parsa Parsohiya Sheopur Lagni</b>	(i)	Name of villages connected to the main road by an all-weather road	All Villages
			(ii)	Village's Name provided with electricity	All Villages
			(iii)	No. of households without access to drinking water	12
			(iv)	No. of educational institutions :	(P) 14 (S) 3 (HS) 2 (VI) -
				Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	
			(v)	Names of villages with access to Primary Health Centre	All Villages
			(vi)	Names of villages with access to Veterinary Dispensary	All Villages
			(vii)	Names of villages with access to Post Office	All Villages
			(viii)	Names of villages with access to Banks	All Villages
			(ix)	Names of villages with access to Markets/ mandis	All Villages
			(x)	Names of villages with access to Agro-industries	All Villages
			(xi)	Total quantity of surplus milk deficit	270 Lt/ day
			(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) 2 (S) 1 (PA) - (O) -
			(xiii)	Name of villages with access to Anganwadi Centre	All Villages
			(xiv)	Any other facilities with names of villages (please specify)	---
4	<b>DEHBARUA 2B1D5d3a</b>	<b>Aurahawa Debaruwa Khas Pikaura Talkunda</b>	(i)	Name of villages connected to the main road by an all-weather road	All Villages
			(ii)	Village's Name provided with electricity	All Villages
			(iii)	No. of households without access to drinking water	14

		(iv) No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 4	(S) 1	(HS) -	(VI) -	
		(v) Names of villages with access to Primary Health Centre	All Villages				
		(vi) Names of villages with access to Veterinary Dispensary	All Villages				
		(vii) Names of villages with access to Post Office	All Villages				
		(viii) Names of villages with access to Banks	All Villages				
		(ix) Names of villages with access to Markets/ mandis	All Villages				
		(x) Names of villages with access to Agro-industries	All Villages				
		(xi) Total quantity of surplus milk deficit	350 Lt/day				
		(xii) No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) -	(S) 1	(PA) 1	(O) 2	
		(xiii) Name of villages with access to Anganwadi Centre	All Villages				
		(xiv) Any other facilities with names of villages (please specify)	---				
5	<b>MANIKURA 2B1D5d3e</b>	<b>Manikaura Ahiraula Matiyar urf Bhuthawa Tikar Basawanpal urf Madarhiya Madhwapur</b>	(i) Name of villages connected to the main road by an all-weather road	All Villages			
			(ii) Village's Name provided with electricity	All Villages			
			(iii) No. of households without access to drinking water	20			
			(iv) No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 6	(S) 4	(HS) -	(VI) -
			(v) Names of villages with access to Primary Health Centre	All Villages			
			(vi) Names of villages with access to Veterinary Dispensary	All Villages			
			(vii) Names of villages with access to Post Office	All Villages			
			(viii) Names of villages with access to Banks	All Villages			
			(ix) Names of villages with access to Markets/ mandis	All Villages			
			(x) Names of villages with access to Agro-industries	---			
			(xi) Total quantity of surplus milk deficit	All Villages			
			(xii) No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U)	(S)	(PA)	(O)
			(xiii) Name of villages with access to Anganwadi Centre	All Villages			
			(xiv) Any other facilities with names of villages (please specify)	---			

6	PAKRIHAWA 2B1D5d2c	Akhrara Pakrihawa Patthar Deiya Rekhatar Ram Nagar	(i)	Name of villages connected to the main road by an all-weather road	All Villages			
			(ii)	Village's Name provided with electricity	All Villages			
			(iii)	No. of households without access to drinking water	25			
			(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 5	(S) -	(HS) 2	(VI) -
			(v)	Names of villages with access to Primary Health Centre	All Villages			
			(vi)	Names of villages with access to Veterinary Dispensary	All Villages			
			(vii)	Names of villages with access to Post Office	All Villages			
			(viii)	Names of villages with access to Banks	All Villages			
			(ix)	Names of villages with access to Markets/ mandis	All Villages			
			(x)	Names of villages with access to Agro-industries	All Villages			
			(xi)	Total quantity of surplus milk deficit	400 Lt/day			
			(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) -	(S) -	(PA) 1	(O) 1
			(xiii)	Name of villages with access to Anganwadi Centre	All Villages			
			(xiv)	Any other facilities with names of villages (please specify)	---			
7	BHANPUR 2B1D5d3b	Bhanpur Bargadwa Pipra Dudhwaniya Bujurg Mujehana Ghorhi urf Rohinihawa	(i)	Name of villages connected to the main road by an all-weather road	All Villages			
			(ii)	Village's Name provided with electricity	All Villages			
			(iii)	No. of households without access to drinking water	30			
			(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 7	(S) 5	(HS) 1	(VI) -
			(v)	Names of villages with access to Primary Health Centre	All Villages			
			(vi)	Names of villages with access to Veterinary Dispensary	All Villages			
			(vii)	Names of villages with access to Post Office	All Villages			
			(viii)	Names of villages with access to Banks	All Villages			
			(ix)	Names of villages with access to Markets/ mandis	All Villages			
			(x)	Names of villages with access to Agro-industries	---			
			(xi)	Total quantity of surplus milk deficit	160 Lt./ Day			

			(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) 5	(S) 1	(PA) -	(O) -
			(xiii)	Name of villages with access to Anganwadi Centre		All Villages		
			(xiv)	Any other facilities with names of villages (please specify)		---		
8	<b>BHAWPUR-urf- GULARI 2B1D5d3c</b>	<b>Bhavhpur urf Gulri Semrahuwa dhanaura Bujurg Gajehri urf MadhavNagar Jignahuwa urf Dhanauri Tisam</b>	(i)	Name of villages connected to the main road by an all-weather road		All Villages		
			(ii)	Village's Name provided with electricity		All Villages		
			(iii)	No. of households without access to drinking water		24		
			(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 6	(S) 3	(HS) 2	(VI) -
			(v)	Names of villages with access to Primary Health Centre		All Villages		
			(vi)	Names of villages with access to Veterinary Dispensary		All Villages		
			(vii)	Names of villages with access to Post Office		All Villages		
			(viii)	Names of villages with access to Banks		All Villages		
			(ix)	Names of villages with access to Markets/ mandis		All Villages		
			(x)	Names of villages with access to Agro-industries		All Villages		
			(xi)	Total quantity of surplus milk deficit		130 Lt./ Day		
			(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) -	(S) -	(PA) -	(O) 2
			(xiii)	Name of villages with access to Anganwadi Centre		All Villages		
			(xiv)	Any other facilities with names of villages (please specify)		---		
9	<b>BAGAHI 2B1D5d3d</b>	<b>Bagahi Mahadev Bujurg</b>	(i)	Name of villages connected to the main road by an all-weather road		All Villages		
			(ii)	Village's Name provided with electricity		All Villages		
			(iii)	No. of households without access to drinking water		15		
			(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		All Villages		
			(vi)	Names of villages with access to Veterinary Dispensary		All Villages		
			(vii)	Names of villages with access to Post Office		All Villages		
			(viii)	Names of villages with access to Banks		All Villages		

		(ix)	Names of villages with access to Markets/ mandis	All Villages
		(x)	Names of villages with access to Agro-industries	---
		(xi)	Total quantity of surplus milk deficit	220 Lt./day
		(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) - (S) 1 (PA) - (O) 2
		(xiii)	Name of villages with access to Anganwadi Centre	All Villages
		(xiv)	Any other facilities with names of villages (please specify)	---

### 3.2 Soil and Land holdings:

Table no. 3.5: Soil Texture in IWMP-I

Project	Light textured soil (Sandy, Loamy sand)	Medium textured soil (Sandy loam, loam, silt loam)	Heavy textured soil (Clayey)
IWMP-I	550	7738	600
Total	<b>550</b>	<b>7738</b>	<b>600</b>

### Soil types:

S.No	Soil type	Characteristics
1	Clay loam	Irrigated, rainfall
2	Sandy loam	Irrigated, rainfall
3	Sandy clay	Irrigated
4	Diara	Irrigated

### **3. Land Use Pattern**

#### **3.3.1 Land holding**

Majority of the farmers are in the category of marginal (< 1 ha) and small (1-2 ha) with average land holding of about 2.2 ha. These small land holding are further scattered at different places, which makes cultivation very difficult. Distribution of farm families according to the size of the land holdings are given in the table.

**Table no. 3.6: Details of land holding pattern in the project areas**

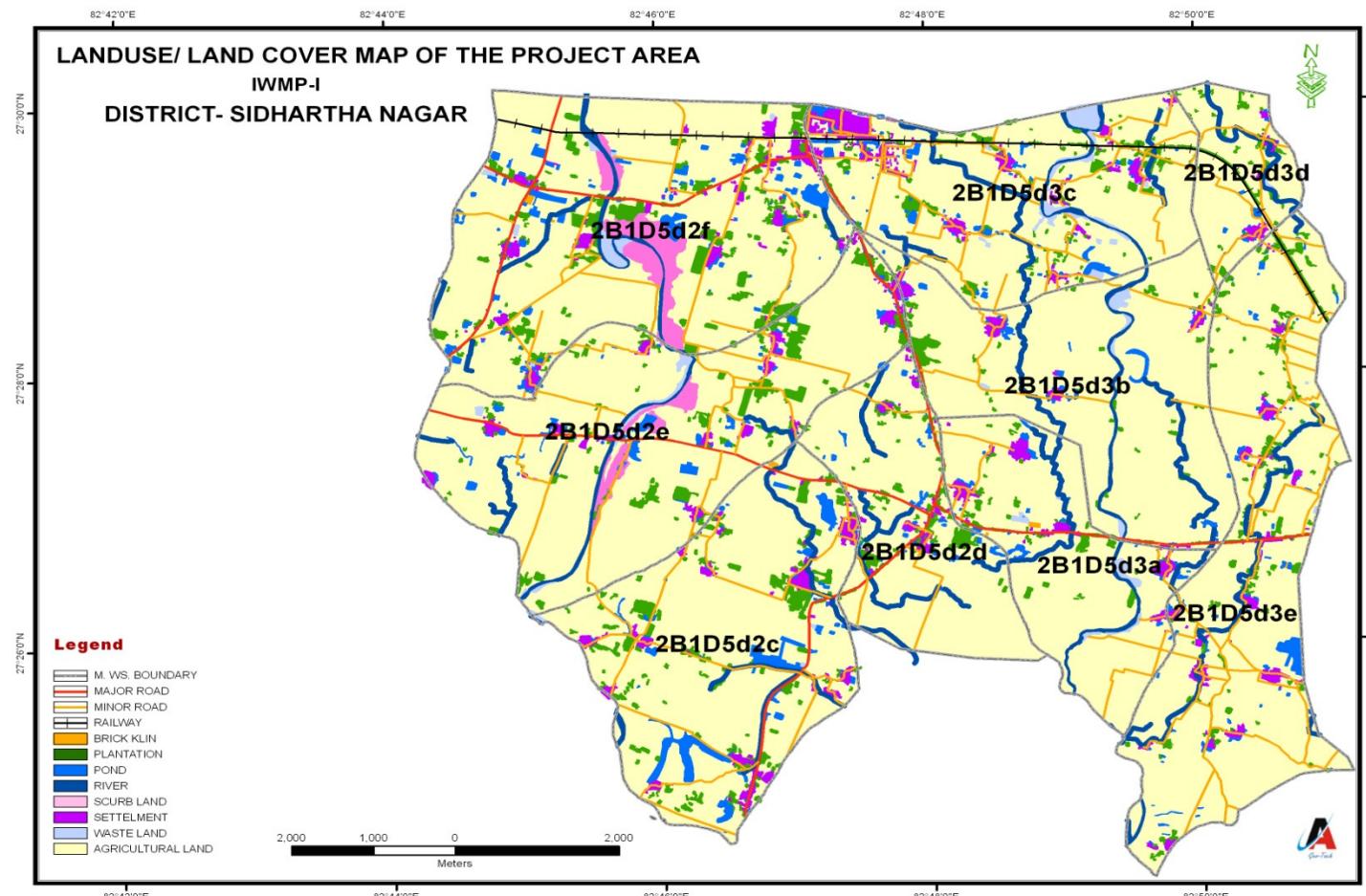
S. No.	Names MWS with code	Name of Village	Type of Farmer	No. of households	No. of BPL households	Land holding (ha)		
						Irrigated	Rainfed	Total
1	2	3	4	5	6	7	8	9
01	<b>DHRUGAR</b> <b>2B1D5d2f</b>	Dhrugar	1 Large farmer	23	23	39.78	116.89	156.67
			2 Medium farmer	41	41	90.54	160.48	251.02
			3 Small farmer	58	58	116.35	286.48	402.83
			4 Marginal farmer	97	97	119.45	398.65	518.1
			5 Landless person	12	20	---	---	---
			<b>Sub-Total</b>	<b>231</b>	<b>239</b>	<b>366.12</b>	<b>962.5</b>	<b>1328.62</b>
02	<b>PAKRIHAWA</b> <b>2B1D5d2d</b>	Pakrihawa	1 Large farmer	30	---	14.44	98.64	113.08
			2 Medium farmer	144	---	36.30	108.24	144.54
			3 Small farmer	200	---	41.2	165.25	206.45
			4 Marginal farmer	336	251	55.5	354.22	409.72
			5 Landless person	40	40	---	---	---
			<b>Sub-Total</b>	<b>800</b>	<b>291</b>	<b>147.44</b>	<b>726.35</b>	<b>873.79</b>
03	<b>DHAKERI</b> <b>BUJURG</b> <b>2B1D5d2e</b>	Dhakeri Bujurg	1 Large farmer	21	---	37.38	109.94	147.32
			2 Medium farmer	39	---	39.5	246.8	286.3
			3 Small farmer	54	---	48.67	415.66	464.33
			4 Marginal farmer	90	35	66.9	530.6	597.5
			5 Landless person	11	11	---	---	---
			<b>Sub-Total</b>	<b>215</b>	<b>46</b>	<b>192.75</b>	<b>1103</b>	<b>1295.75</b>

1	2	3	4	5	6	7	8	9
04	<b>DEHBARUA</b> <b>2B1D5d3a</b>	Dehbarua	1 Large farmer	25	25	32.56	143.95	176.51
			2 Medium farmer	39	39	39.73	165.89	205.62
			3 Small farmer	62	62	50.63	248.44	299.07
			4 Marginal farmer	90	90	58.97	302.3	361.27
			5 Landless person	14	14/7ex.	---	---	---
			<b>Sub-Total</b>	<b>230</b>	<b>237</b>	<b>181.89</b>	<b>860.58</b>	<b>1042.47</b>
05	<b>MANIKAURA</b> <b>2B1D5d3e</b>	Manikaura	1 Large farmer	21	---	46.89	95.01	141.9
			2 Medium farmer	32	---	62.62	120.65	183.27
			3 Small farmer	35	21	65.84	160.5	226.34
			4 Marginal farmer	95	95	89.65	189.30	278.95
			5 Landless person	12	12	---	---	---
			<b>Sub-Total</b>	<b>198</b>	<b>128</b>	<b>265</b>	<b>565.46</b>	<b>830.46</b>
06	<b>KHAJURIYA</b> <b>SARKI</b> <b>2B1D5d2c</b>	Khajuriya Sarki	1 Large farmer	38	---	11.91	88.97	100.88
			2 Medium farmer	65	---	16.41	97.65	114.06
			3 Small farmer	97	---	19.54	168.25	187.79
			4 Marginal farmer	152	116	33.58	198.63	232.21
			5 Landless person	12	12	---	---	---
			<b>Sub-Total</b>	<b>364</b>	<b>128</b>	<b>81.44</b>	<b>553.5</b>	<b>634.94</b>
07	<b>BHANPUR</b> <b>2B1D5d3b</b>	Bhanpur	1 Large farmer	13	---	38.72	154.63	193.35
			2 Medium farmer	15	---	39.65	269.62	309.27
			3 Small farmer	28	---	45.02	202.65	247.67
			4 Marginal farmer	38	5	53.63	319.12	372.75
			5 Landless person	16	16	---	---	---
			<b>Sub-Total</b>	<b>110</b>	<b>21</b>	<b>177.02</b>	<b>946.02</b>	<b>1123.04</b>
08	<b>BHAWPUR-urf-</b>	BHAWPUR-urf-	1 Large farmer	25	---	52.55	99.87	152.42

	<b>GULARI</b> <b>2B1D5d3c</b>	<b>GULARI</b>	2 Medium farmer	46	---	69.64	116.54	186.18
			3 Small farmer	52	35	89.56	249.87	339.43
			4 Marginal farmer	39	68	98.3	225.2	323.5
			5 Landless person	10	10	---	---	---
			<b>Sub-Total</b>	<b>172</b>	<b>113</b>	<b>310.05</b>	<b>691.48</b>	<b>1001.53</b>
<hr/>								
09	<b>BAGAHI</b> <b>2B1D5d3d</b>	Bagahi	1 Large farmer	22	----	6.85	37.51	44.36
			2 Medium farmer	40	---	11.54	46.2	57.74
			3 Small farmer	64	---	12.66	58.62	71.28
			4 Marginal farmer	92	43	14.17	88.42	102.59
			5 Landless person	15	15	---	---	---
			<b>Sub-Total</b>	<b>233</b>	<b>58</b>	<b>45.22</b>	<b>230.75</b>	<b>275.97</b>
			<b>Grand Total</b>	<b>2553</b>	<b>1261</b>	<b>1766.93</b>	<b>6639.64</b>	<b>8406.57</b>

### **3.4. Land Use**

The IWMP I<sup>st</sup> watersheds has diversified land uses namely agriculture, waste land (open scrub), seasonal water bodies etc. The varied present land use and area under different categories in watershed. The mixed land use followed in the watershed is almost similar in other parts of the U.P. During PRA exercise, the villagers prepared land use. One such map of village of IWMP I<sup>st</sup> watershed is shown in below map table-



**Table no 3.7: Land use pattern**

S.N.	Name of Project	No of Micro Watershed	Geographical area	Forest Area	Agriculture land	Rain fed Area	Pasture land	Wastelands		Treatable Area
								Cultivated	Uncultivable	
1	IWMP I <sup>st</sup>	9	8888.00	0	8406.57	6639.64	0.0	70.36	45.3	6710.00

Source : District statistic magazine

### **3.5 Agriculture**

Various agricultural land uses in the watershed are extended to diversified land capabilities starting from marginal to good class II lands. The watershed distinctly has three types of lands i.e. leveled, sloping and degraded and undulating. The agriculture is practiced on all these soil types though the productivity considerably varies. The total area under agriculture in the watershed is about 8406.57 ha out of which 1766.93 ha is irrigated while 6639.64 ha is under rain-fed agriculture. The water (both irrigated and drinking) is most scarce natural resource in the watershed. The problem of tube wells for irrigation of agricultural crops frequently leads to the drinking water problem to the farmers of watershed forcing them to carry drinking water from outside the watershed area. The agricultural field bunds are common in the watershed, however, they frequently breach on heavy rains adversely affecting the in situ percolation of rain water in the soils.

The agriculture soils in the watershed have diversified texture i.e. loam sand, silty clay loam and boulder mixed textures which are located in patches throughout the watershed. The heavy soils are almost kept fallow during rainy season. The agricultural soils also have hard calcium pan at variable depths. The irrigation water is conveyed in earthen channels and surface irrigation methods following mainly border method or flood method of irrigation by the farmers in the watershed. These factors substantially reduce the Water use efficiency of limited available and valuable irrigation water in the watershed. The quality of irrigation water needs to be tested for assessing fitness of the quality for irrigation and other purposes.

Rehabilitation of waste lands with appropriate drought hardy species like *Prosopis juliflora*, introduction of suitable multi-purpose trees, promoting agro-forestry on agricultural lands with appropriate fruit and forest species, suitable vegetative barriers on sloping lands can of high future value in meeting out not only fire wood and fodder demands in the watershed but also for soil and water conservation, rehabilitation of wasteland and substantial income generation for socio-economic up-liftmen of farmers in the watershed.

#### **One year rotation**

#### **Single cropping**

Fallow- mustard/wheat/gram/lentil/winter vegetables, Paddy/ bajra/jowar/sesame/black gram/ green gram,- fallow.

#### **Double cropping**

Paddy/ Bajra/ jowar/ sesame/black gram/gram gram- mustard/wheat/gram/lentil/winter vegetables

#### **Irrigated agriculture**

#### **One year rotation**

Paddy/Bajra/jowar/sesame/black gram/ green gram- mustard/wheat/winter vegetables

**1. Major farming systems/enterprises (based on the analysis made by the KVK)**

S.No	Farming system/enterprise
1.	<b>Paddy-Wheat</b>
2.	<b>Paddy-Wheat-Sugarcane</b>
3.	<b>Kharif Maize – Wheat</b>
4.	<b>Kharif Maize – Potato – Sugarcane</b>
5.	<b>Paddy – Lentil</b>
6.	<b>Paddy – Field pea</b>

**Table 3.8: Micro-watershed wise details of Crops, their Productivity and Production in IWMP-I**

Name of MWS: Pakrihawa 2B1D5d2d

S.No	Crop.	Area in		Productivity		Production (Qtl.)			
		(Ha.)		Qtl./Ha		Grain/Main product		Fodder/Fuel/ other Product.	
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	<b>Kharif</b>								
1	Rice	50.3	405.9	20	12	1006	4870.8	-	-
2	Maze	0.0	87.2	0	14	0	1220.8	-	-
3	Arhar/Jwar	0.0	130.7	0	6	0	784.2	-	-
4	Urd/Mung	32.4	94.4	5	3	162	283.2	-	-
5	Vegetables (Crop wise)	64.7	8.1	48	23	3105.6	186.3	-	-
6	Other Specify							-	-
	<b>Total</b>	<b>147.44</b>	<b>726.35</b>			<b>4273.6</b>	<b>7345.3</b>		
B	<b>Rabi</b>								
1	Wheat	96.2	217.9	25	12	2405	2614.8	-	-
2	Barley	19.2	363.2	21	15	403.2	5448	-	-
3	Masoor	0	14.5	0	4	0	58	-	-
4	Gram	0.0	50.8	0	6	0	304.8	-	-
5	Mustard	8.5	36.3	12	8	102	290	-	-
6	Potato	14.7	0	215	0	3160.5	0	-	-
7	Vegetables (Crop wise)	5.9	14.5	55	32	324.5	464	-	-
8	Fodder	2.9	29.15	52	22	150.8	641.3	-	-
9	Other Specify							-	-
	<b>Total</b>	<b>147.44</b>	<b>726.35</b>			<b>6546</b>	<b>11600.8</b>		
C	<b>Zaid</b>								
.1.	Vegetables (Crop wise)	28.1	-	42	0	1180.2	0		
2	Fodder	42.1	-	20	0	842	0		
3	Urd Mung	157.9	-	7	0	1105.3	0		
4	Suger Cane	122.8	-	390	0	47892	0		
5	Other Specify		-						
	<b>Total</b>	<b>350.9</b>				<b>51019.5</b>	<b>0</b>		
	<b>Grand Total</b>	<b>645.78</b>	<b>1452.7</b>			<b>61839.1</b>	<b>18946.1</b>		

**Name of MWS:- KHAJURIA SARKI 2B1D5d2c**

S.No	Crop.	Area in		Productivity		Production (Qty.)			
		(Ha.)		Qty./Ha		Grain/Main product		Fodder/Fuel/	
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	<b>Kharif</b>								
1	Rice	55.4	321.2	20	12	1108	3854.4	-	-
2	Maze	0.0	66.4	0	14	0	929.6	-	-
3	Arhar/Jwar	0.0	99.6	0	6	0	597.6	-	-
4	Urd/Mung	17.9	22.0	5	3	89.5	66	-	-
5	Vegetables (Crop wise)	8.1	44.3	48	23	388.8	1018.9	-	-
6	Other Specify							-	-
	<b>Total</b>	<b>81.4</b>	<b>553.5</b>			<b>1586.3</b>	<b>6466.5</b>		
B	<b>Rabi</b>								
1	Wheat	47.6	182.6	25	15	1190	2739	-	-
2	Barley	9.2	276.8	21	15	193.2	4152	-	-
3	Masoor	0	11.1	0	4	0	44.4	-	-
4	Gram	0	38.7	0	6	0	232.2	-	-
5	Mustard	0	27.7	0	9	0	249.3	-	-
6	Potato	9.6	0	215	0	2064	0	-	-
7	Vegetables (Crop wise)	13.4	0	55	32	737	0	-	-
8	Fodder	1.6	16.6	52	22	83.2	365.2	-	-
9	Other Specify	0				0	0	-	-
	<b>Total</b>	<b>81.44</b>	<b>553.5</b>			<b>4267.4</b>	<b>8695.1</b>		
C	<b>Zaid</b>								
.1.	Vegetables (Crop wise)	3.84	-	42	-	161.28	-		
2	Fodder	5.76	-	20	-	115.2	-		
3	Urd Mung	21.6	-	8	-	172.8	-		
4	Suger Cane	16.8	-	390	-	6552	-		
5	Other Specify	0	-				-		
	<b>Total</b>	<b>48</b>				<b>7238.88</b>			
	<b>Grand Total</b>	<b>210.84</b>	<b>1107</b>			<b>13092.58</b>	<b>15161.6</b>		

**Name of MWS:- DHAKERI BUJURG 2B1D5d2e**

S.No	Crop.	Area in		Productivity		Production (Qtl.)			
		(Ha.)		Qty/Ha		Grain/Main product		Fodder/Fuel/	
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	<b>Kharif</b>								
1	Rice	131.1	761.1	22	15	2884.2	11416.5	-	-
2	Maze	0	132.4	0	15	0	1986	-	-
3	Arhar/Jwar	0	198.5	0	6	0	1191	-	-
4	Urd/Mung	42.4	5	5	3	212	15	-	-
5	Vegetables (Crop wise)	19.3	6	47	23	907.1	138	-	-
6	Other Specify							-	-
	<b>Total</b>	<b>192.75</b>	<b>1103</b>			<b>4003.3</b>	<b>14746.5</b>		
B	<b>Rabi</b>								
1	Wheat	121.75	384.1	27	12	3287.25	4609.2	-	-
2	Barley	5.7	551.5	19	15	108.3	8272.5	-	-
3	Masoor	0	22.1	0	8	0	176.8	-	-
4	Gram	0	77.2	0	6	0	463.2	-	-
5	Mustard	12	35	12	7	144	245	-	-
6	Potato	19.6	0	215	0	4214	0	-	-
7	Vegetables (Crop wise)	29.8	0	55	32	1639	0	-	-
8	Fodder	3.9	33.1	52	28	202.8	926.8	-	-
9	Other Specify	0				0	0	-	-
	<b>Total</b>	<b>192.75</b>	<b>1103</b>			<b>9595.35</b>	<b>17836.3</b>		
C	<b>Zaid</b>					0	0		
.1.	Vegetables (Crop wise)	5.76	-	41	0	236.16	0		
2	Fodder	8.64	-	20	0	172.8	0		
3	Urd Mung	32.4	-	8	0	259.2	0		
4	Suger Cane	25.2	-	410	0	10332	0		
5	Other Specify	0	-			0	0		
	<b>Total</b>	<b>72</b>				<b>11000.16</b>	<b>0</b>		
	<b>Grand Total</b>	<b>457.5</b>	<b>2206</b>			<b>24598.81</b>	<b>32582.8</b>		

**Name of MWS:- DEHBARUA 2B1D5d3a**

S.No	Crop.	Area in		Productivity		Production (Qtl.)			
		(Ha.)		Qtl./Ha		Grain/Main product		Fodder/Fuel/	
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	<b>Kharif</b>								
1	Rice	139.9	659.1	20	15	2798	9886.5	-	-
2	Maze	0.0	115.9	0	13	0	1506.7	-	-
3	Arhar/Jwar	0.0	172.6	0	6	0	1035.6	-	-
4	Urd/Mung	19.0	9.0	5	3	95	27	-	-
5	Vegetables (Crop wise)	23.0	4.0	47	23	1081	92	-	-
6	Other Specify							-	-
	<b>Total</b>	<b>181.89</b>	<b>960.58</b>			<b>4183.434</b>	<b>11306.89</b>		
B	<b>Rabi</b>								
1	Wheat	122.8	663.38	26	15	3192.8	9950.7	-	-
2	Barley	6.5	134	19	16	123.5	2144	-	-
3	Masoor	0	19.2	0	8	0	153.6	-	-
4	Gram	0	67.2	0	6	0	403.2	-	-
5	Mustard	5	48	17	8	85	384	-	-
6	Potato	36.69	0	215	0	7888.35	0	-	-
7	Vegetables (Crop wise)	7.3	0	54	33	394.2	0	-	-
8	Fodder	3.6	28.8	52	28	187.2	806.4	-	-
9	Other Specify	0				0	0	-	-
	<b>Total</b>	<b>181.89</b>	<b>960.58</b>			<b>11871.05</b>	<b>17206.8</b>		
C	<b>Zaid</b>					0	0		
.1.	Vegetables (Crop wise)	5.76	-	38	0	218.88	0		
2	Fodder	8.64	-	20	0	172.8	0		
3	Urd Mung	34.4	-	8	0	275.2	0		
4	Suger Cane	29.2	-	395	0	11534	0		
5	Other Specify	0	-			0	0		
	<b>Total</b>	<b>33</b>				<b>12200.88</b>	<b>0</b>		
	<b>Grand Total</b>	<b>396.78</b>	<b>1921.16</b>			<b>28255.36</b>	<b>28513.69</b>		

**Name of MWS:- MANIKAURA 2B1D5d3e**

		Area in		Productivity		Production (Qtl.)			
S.No	Crop.	(Ha.)		Qtl./Ha		Grain/Main product		Fodder/Fuel/other Product.	
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	<b>Kharif</b>								
1	Rice	180.2	372.8	20	15	3604	5592	-	-
2	Maze	0	65.5	0	13	0	851.5	-	-
3	Arhar/Jwar	0	98.2	0	6	0	589.2	-	-
4	Urd/Mung	58.3	6.0	5	3	291.5	18	-	-
5	Vegetables (Crop wise)	26.5	3.0	47	23	1245.5	69	-	-
6	Other Specify							-	-
	<b>Total</b>	<b>265</b>	<b>545.46</b>			<b>5141</b>	<b>7119.7</b>		
B	<b>Rabi</b>								
1	Wheat	209	212	28	16	5852	3392	-	-
2	Barley	18	273	19	18	342	4914	-	-
3	Masoor	0	11	0	8	0	88	-	-
4	Gram	0	6	0	6	0	36	-	-
5	Mustard	0	27	0	8	0	216	-	-
6	Potato	22	0	213	0	4686	0	-	-
7	Vegetables (Crop wise)	11	0	51	35	561	0	-	-
8	Fodder	5	16	52	28	260	448	-	-
9	Other Specify	0				0	0	-	-
	<b>Total</b>	<b>265</b>	<b>545.46</b>			<b>11701</b>	<b>9969</b>		
C	<b>Zaid</b>					0	0		
1.	Vegetables (Crop wise)	6	-	38	0	228	0		
2	Fodder	9	-	25	0	225	0		
3	Urd Mung	37	-	8	0	296	0		
4	Suger Cane	31	-	400	0	12400	0		
5	Other Specify	0	-				0		
	<b>Total</b>	<b>83</b>				<b>13149</b>	<b>0</b>		
	<b>Grand Total</b>	<b>613</b>	<b>1090.92</b>			<b>29991</b>	<b>17088.7</b>		

**Name of MWS:- BHANPUR 2B1D5d3b**

S.No	Crop.	Area in		Productivity		Production (Qtl.)			
		(Ha.)		Qtl./Ha		Grain/Main product		Fodder/Fuel/	
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	<b>Kharif</b>								
1	Rice	111.0	563.5	20	15	2220	8452.5	-	-
2	Maze	0.0	201.2	0	13	0	2615.6	-	-
3	Arhar/Jwar	0.0	170.3	0	6	0	1021.8	-	-
4	Urd/Mung	42.0	5.0	5	3	210	15	-	-
5	Vegetables (Crop wise)	24.0	6.0	47	23	1128	138	-	-
6	Other Specify							-	-
	<b>Total</b>	<b>177.02</b>	<b>946.02</b>			<b>3558</b>	<b>12242.9</b>		
B	<b>Rabi</b>								
1	Wheat	125.7	516.82	28	16	3519.6	8269.12	-	-
2	Barley	31.9	340.3	19	18	606.1	6125.4	-	-
3	Masoor	0	19	0	8	0	152	-	-
4	Gram	0	9	0	6	0	54	-	-
5	Mustard	0	47.3	0	9	0	425.7	-	-
6	Potato	8.9	0	213	0	1895.7	0	-	-
7	Vegetables (Crop wise)	7.1	0	51	35	362.1	0	-	-
8	Fodder	3.5	13.6	52	28	182	380.8	-	-
9	Other Specify	0				0	0	-	-
	<b>Total</b>	<b>177.02</b>	<b>946.02</b>			<b>6565.5</b>	<b>17474.3</b>		
C	<b>Zaid</b>					0	0		
.1.	Vegetables (Crop wise)	8	-	38	0	304	0		
2	Fodder	6	-	26	0	156	0		
3	Urd Mung	35	-	8	0	280	0		
4	Suger Cane	29	-	410	0	11890	0		
5	Other Specify	0	-			0	0		
	<b>Total</b>	<b>78</b>				<b>12630</b>	<b>0</b>		
	<b>Grand Total</b>	<b>432.04</b>	<b>1892.04</b>			<b>22753.5</b>	<b>29717.2</b>		

Name of MWS:- BHAWPUR-urf- GULARI 2B1D5d3c

		Area in		Productivity		Production (Qtl.)			
S.No	Crop.	(Ha.)		Qtl./Ha		Grain/Main product		Fodder/Fuel/other Product.	
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	<b>Kharif</b>								
1	Rice	226.7	438.8	22	17	4987.4	7459.6	-	-
2	Maze	0.0	112.2	0	12	0	1346.4	-	-
3	Arhar/Jwar	0.0	124.5	0	6	0	747	-	-
4	Urd/Mung	55.4	7.0	6	5	332.4	35	-	-
5	Vegetables (Crop wise)	28.0	9.0	47	23	1316	207	-	-
6	Other Specify					0	0	-	-
	<b>Total</b>	<b>310.05</b>	<b>691.48</b>			<b>6635.8</b>	<b>9795</b>		
B	<b>Rabi</b>								
1	Wheat	218.5	227.36	28	16	6118	3637.76	-	-
2	Barley	50.35	346.62	19	18	956.65	6239.16	-	-
3	Masoor	0	13.8	0	8	0	110.4	-	-
4	Gram	0	48.4	0	6	0	290.4	-	-
5	Mustard	0	34.6	0	8	0	276.8	-	-
6	Potato	20	0	213	0	4260	0	-	-
7	Vegetables (Crop wise)	15	0	51	35	765	0	-	-
8	Fodder	6.2	20.7	52	28	322.4	579.6	-	-
9	Other Specify	0				0	0	-	-
	<b>Total</b>	<b>310.05</b>	<b>691.48</b>			<b>12422.05</b>	<b>12078.16</b>		
C	<b>Zaid</b>					0	0		
1.	Vegetables (Crop wise)	6	-	38	0	228	0		
2	Fodder	9	-	25	0	225	0		
3	Urd Mung	37	-	8	0	296	0		
4	Suger Cane	31	-	395	0	12245	0		
5	Other Specify	0	-			0	0		
	<b>Total</b>	<b>83</b>				<b>12994</b>	<b>0</b>		
	<b>Grand Total</b>	<b>703.1</b>	<b>1382.96</b>			<b>32051.85</b>	<b>21873.16</b>		

**Name of MWS:- BAGAHI (2B1D5d3d)**

		Area in		Productivity		Production (Qtl.)			
S.No	Crop.	(Ha.)		Qtl./Ha		Grain/Main product		Fodder/Fuel/other Product.	
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	<b>Kharif</b>								
1	Rice	30.7	140.5	22	17	675.4	2388.5	-	-
2	Maze	0.0	37.7	0	12	0	452.4	-	-
3	Arhar/Jwar	0.0	41.5	0	6	0	249	-	-
4	Urd/Mung	9.9	6.0	6	5	59.4	30	-	-
5	Vegetables (Crop wise)	4.5	5.0	47	23	211.5	115	-	-
6	Other Specify					0	0	-	-
	<b>Total</b>	<b>45.22</b>	<b>230.75</b>			<b>946.3</b>	<b>3234.9</b>		
B	<b>Rabi</b>								
1	Wheat	14.53	76.15	28	15	406.84	1142.25	-	-
2	Barley	8.19	115.4	19	18	155.61	2077.2	-	-
3	Masoor	0	4.6	0	8	0	36.8	-	-
4	Gram	0	16.2	0	6	0	97.2	-	-
5	Mustard	0	11.5	0	8	0	93.5	-	-
6	Potato	12.5	0	213	0	2662.5	0	-	-
7	Vegetables (Crop wise)	9.1	0	51	35	464.1	0	-	-
8	Fodder	0.9	6.9	52	28	46.8	193.2	-	-
9	Other Specify	0				0	0	-	-
	<b>Total</b>	<b>45.22</b>	<b>230.75</b>			<b>3735.85</b>	<b>4030.9</b>		
C	<b>Zaid</b>					0	0		
.1.	Vegetables (Crop wise)	9	-	38	0	342	0		
2	Fodder	12	-	27	0	324	0		
3	Urd Mung	37	-	8	0	296	0		
4	Suger Cane	29	-	420	0	12180	0		
5	Other Specify	0	-			0	0		
	<b>Total</b>	<b>12</b>	<b>-</b>			<b>13142</b>	<b>0</b>		
	<b>Grand Total</b>	<b>102.44</b>	<b>461.5</b>			<b>17824.15</b>	<b>7265.8</b>		

**Name of MWS:- Gharuyar 2B1D5d2f**

S.No	Crop.	Area in		Productivity		Production (Qtl.)			
		(Ha.)		Qtl./Ha		Grain/Main product		Fodder/Fuel/ other Product.	
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	<b>Kharif</b>								
1	Rice	249	662	20	17	4980	11254	-	-
2	Maze	0	116	0	12	0	1392	-	-
3	Arhar/Jwar	0	173	0	6	0	1038	-	-
4	Urd/Mung	81	7	7	4	567	28	-	-
5	Vegetables (Crop wise)	37	5	47	23	1739	115	-	-
6	Other Specify					0	0	-	-
	<b>Total</b>	<b>366</b>	<b>962</b>			<b>7286</b>	<b>13827</b>		
B	<b>Rabi</b>								
1	Wheat	260	318	28	18	7280	5724	-	-
2	Barley	66	481	19	18	1254	8658	-	-
3	Masoor	0	19	0	8	0	152	-	-
4	Gram	0	67	0	6	0	402	-	-
5	Mustard	0	48	0	9	0	432	-	-
6	Potato	18	0	213	0	3834	0	-	-
7	Vegetables (Crop wise)	15	0	51	35	765	0	-	-
8	Fodder	7	29	52	28	364	812	-	-
9	Other Specify							-	-
	<b>Total</b>	<b>366</b>	<b>962</b>			<b>13497</b>	<b>16816</b>		
C	<b>Zaid</b>					0	0		
1.	Vegetables (Crop wise)	2	-	38	0	76	0		
2	Fodder	3	-	27	0	81	0		
3	Urd Mung	13	-	8	0	104	0		
4	Suger Cane	10	-	420	0	4200	0		
5	Other Specify	0	-			0	0		
	<b>Total</b>	<b>28</b>	<b>-</b>			<b>4461</b>	<b>0</b>		
	<b>Grand Total</b>	<b>760</b>	<b>1924</b>			<b>25244</b>	<b>30643</b>		

The agricultural productivity is primarily driven by the amount and distribution of rain water specifically during two cropping seasons i.e. rabi and kharif. Productivity of kharif crops is also affected by the late onset or early withdrawal of monsoon as well as intermittent droughts of variable duration and intensity. The farmers also do not have suitable cropping systems to deal aberrant weather. Weeds impose considerable constraint in productivity of both kharif and rabi crops under irrigated as well as rain-fed production system. Farmers undertake normally one manual weeding in mustard and other valuable crops however, practice is energy and time consuming. Use of weedicide is rare in the watershed.

The mixed cropping is in practice in limited area with kharif crops like bajra and jowar but it is not only irrational but also unscientific and beset with low productivity. Subsequent rabi crops in general and mustard crop in particular are raised on residual soil moisture under rain-fed production system during post monsoon season. Imbalanced use of fertilizers is common in not only rabi and kharif crops but also in rain-fed and irrigated production system. The recommended deep plowing for enhanced in situ residual soil moisture conservation and higher production is also not followed in the watershed. The shallow ploughing tractor drawn tillage implements are available with the farmers in the watershed but deep ploughing implements yet need to be introduced.

The soil fertility/health restoration practices like green manuring, crop rotations and intercropping specifically with legumes, use of FYM/compost, Vermicompost, bio fertilizers, soil and water conservation measures, use of brought up or in situ mulches are widely lacking in the watershed. The soil and water conservation measures are limited to mechanical/earthen measures created by the state Govt. agencies. Conservation agronomical measures like seeding and plowing across the slope, weed mulching, agro-forestry, vegetative barriers etc also completely lack in the watershed.

### **3.6 Indigenous technological knowledge (ITK)**

The agriculture is an old traditional practice of farmers in the watershed who have improved themselves with passage of the time according to their domestic need and technological reforms in the nearby areas. The villagers have their traditional village ponds, practice of field bunding which typically constitute agriculture related ITKs in the watershed. The mustard being a cash/fire wood crop of the watershed is being cultivated in self designed manner by the farmers. However, limited fertilizer application specifically the DAP came in to practice since about 20 years.

### 3.7 **Horticulture**

The subtropical fruits and vegetables have very good potential in the watershed. The fruit trees are limited in number like mango, guava, papaya, lemon, lime, ber, aonal, bael as vegetables like cucurbits, okra, radish, tomato, cauliflower cabbage, garlic, onion, brinjal, chilly, but they are found surviving well in the watershed villages. Organized orchards, commercial vegetable cultivation, horti-agri and other systems of agro-forestry etc are lacking but have good potential in the water shed.

**Table no. 3.9: Horticulture Status**

S. N.	Name of micro watershed with code	Name of village	Name of Important horticultural crop						
			Whole Fruit Crop				Scattered Fruit Crop		
			Name	Area ha.	Productivity qtl/ha	Production qtls	No . .	Productivity qtl/No.	Production qtls
1	2	3	4	5	6		7	8	
01	<b>DHRUGAR 2B1D5d2f</b>	Madhn, Gharuyar, Darul, Gajehari (Madhonagar), Jiyabhari, Kalyan nagar (Hridaynagar), Dudhvaniakhurd, Hasuni, Badhani	Nil	Nil	Nil	Nil	10	3.00	30.00
02	<b>KHAJURIA SARKI 2B1D5d2d</b>	Khajuria Sarki, Bharauli, Debaruakhas, Shiswa urf Shivbahari, Barihwa	Nil	Nil	Nil	Nil	12	2.75	33.00
03	<b>DHAKERI BUJURG 2B1D5d2e</b>	Barihawa, Shivpurlaguni, Karuva, Khurhuriya, Ramwapur, Shinsari, Semra, Parsoiya, Parsa	Nil	Nil	Nil	Nil	11	3.10	34.10
04	<b>DEHBARUA 2B1D5d3a</b>	Pikaura, Dehbaruakhas, Talkunda, Orihwakhas	Nil	Nil	Nil	Nil	15	2.80	48.00
05	<b>MANIKAURA 2B1D5d3e</b>	Madhawpur, Ahiraula, Manikaura, Tikar, Mohan kothi, Matiyar urf Bhutahwa, Gauradih, Bhanpur, Banawanpur, Madhawa Bujurg, Talkunda	Nil	Nil	Nil	Nil	12	3.15	37.80
06	<b>PAKRIHAWA 2B1D5d2c</b>	Parsa, Akrahara, Ramnagar, Pathardeiya, Pakrihwa, Khajuria Sarki	Nil	Nil	Nil	Nil	13	2.80	36.40
07	<b>BHANPUR 2B1D5d3b</b>	Mhujahana, Dudhvania Bujurg, Bargadva, Ghorhi urf Ronihawa, Pipra, Bhanpur, Pikaura	Nil	Nil	Nil	Nil	10	3.10	31.00
08	<b>BHAWPUR-urf- GULARI 2B1D5d3c</b>	Dhanaura Bujurg, Jignihawa, Semarahwa, Bhawpur urf Gulari, Tisam, Badhni BajarNP, Bargadava	Nil	Nil	Nil	Nil	14	2.85	39.90
09	<b>BAGAHI 2B1D5d3d</b>	Bagahi, Bhawpur (Gulari), Mahadeva Bujurg	Nil	Nil	Nil	Nil	08	2.90	23.20
	<b>Total of project</b>						<b>10 5</b>	---	<b>313.40</b>

**Table 3.10: Livestock Population in IWMP- I**

All Figure in No.

S. N.	Name of Micro watershed with code.	Name of Village	Cow		Buffalow		Ox /Bul 1	Goat	Sheep	Piggeri es	Poultry			Othe r Spec ify	
			Desi	Crossed	Desi	Murrah					Broiler	Layer s	Total		
1	2	3			5	6	7	7	8	9	10	11	12	13	
01	<b>DHRUGAR 2B1D5d2f</b>	Madhni, Gharuyar, Darul, Gajehari (Madhonagar), Jiyabhari, Kalyan nagar (Hridaynagar), Dudhvaniakhurd, Hasuni, Badhani	260	13	360	20	65	676	74	20	96	32	<b>128</b>		
02	<b>KHAJURIA SARKI 2B1D5d2d</b>	Khajuria Sarki, Bharauli, Debaruakhas, Shiswa urf Shivbahari, Barihwa	975	26	720	38	125	3326	174	25	85	25	<b>110</b>		
03	<b>DHAKERI BUJURG 2B1D5d2e</b>	Barihawa, Shivpurlaguni, Karuva, Khurhuriya, Ramwapur, Shinsari, Semra, Parsoiya, Parsa	136	8	39	9	26	136	Nil	Nil	46	Nil	<b>46</b>		
04	<b>DEHBARUA 2B1D5d3a</b>	Pikaura, Dehbaruakhas, Talkunda, Orihwakhas	302	31	150	18	100/ 1	495	55	Nil	18	37	<b>55</b>		
05	<b>MANIKAUR A 2B1D5d3e</b>	Madhawpur, Ahiraula, Manikaura, Tikar, Mohan kothi, Matiyar urf Bhutahwa, Gauradih, Bhanpur, Banawanpur, Madhawa Bujurg, Talkunda	275	19	108	19	43	210	Nil	Nil	52	Nil	<b>52</b>		
06	<b>PAKRIHAW A 2B1D5d2c</b>	Parsa, Akrahara, Ramnagar, Pathardeiya, Pakrihwa, Khajuria Sarki	250 270	48	320 300	38	50 46	645 931	105 49	2 6	46	43 17	<b>89</b>		
07	<b>BHANPUR 2B1D5d3b</b>	Bhujahana, Dudhvania Bujurg, Bargadva, Ghorhi urf Ronihawa, Pipra, Bhanpur, Pikaura	125	12	217	42	55/2	410	16	10	85	16	<b>17</b>		
08	<b>BHAWPUR- urf- GULARI 2B1D5d3c</b>	Dhanaura Bujurg, Jignihawa, Semarahwa, Bhawpur urf Gulari, Tisam, Badhni BajarNP, Bargadava	107 98	60	170 150	66	11 13	374 325	46 55	12 08	36	46	<b>85</b>		
09	<b>BAGAHI 2B1D5d3d</b>	Bagahi, Bhawpur (Gulari), Mahadeva Bujurg	306	36	158	36	103	498	57	Nil	46	39	<b>16</b>		
	<b>Total of Project</b>			<b>3104</b>	<b>253</b>	<b>2692</b>	<b>286</b>	<b>482</b>	<b>8026</b>	<b>631</b>	<b>83</b>	<b>510</b>	<b>255</b>	<b>765</b>	

**Table no. 3.11: Livestock Productivity in IWMP- I**

SN	Name of Micro watershed with code	Name of Village	Average Milk Production (Liter Per day)				Goatry	Poultry		Piggeries weight Kg/Pig		
			Cows		Buffalos			Weight in Kg/goat	Broiler Weight in Kg/ Brl	Layers No. of eggs/month		
			Desi	Crossed	Desi	Murrah						
1	2	3	4	5	6	7		9	10	11		
01	<b>DHRUGAR 2B1D5d2f</b>	Madhn, Gharuyar, Darul, Gajehari (Madhonagar), Jiyabhari, Kalyan nagar (Hridaynagar), Dudhvaniakhurd, Hasuni, Badhani	2.000	3.5	3.500	Nil	10-16	1.5-2.5	20.-25	25-60		
02	<b>KHAJURIA SARKI 2B1D5d2d</b>	Khajuria Sarki, Bharauli, Debaruakhas, Shiswa urf Shivbahari, Barihwa	1.5000	3.5	4.000	Nil	10-16	1.5-2.5	20-25	25-60		
03	<b>DHAKERI BUJURG 2B1D5d2e</b>	Barihawa, Shivpurlaguni, Karuva, Khurhuriya, Ramwapur, Shinsari, Semra, Parsoiya, Parsa	1.750	3.5	3.250	Nil	10-16	1.5-2.5	20.-25	25-60		
04	<b>DEHBARUA 2B1D5d3a</b>	Pikaura, Dehbaruakhas, Talkunda, Orihwakhas	1.800	3.5	4.000	Nil	10-16	1.5-2.5	20-25	25-60		
05	<b>MANIKAURA 2B1D5d3e</b>	Madhawpur, Ahiraula, Manikaura, Tikar, Mohan kothi, Matiyar urf Bhutahwa, Gauradih, Bhanpur, Banawanpur, Madhawa Bujurg, Talkunda	2.00	3.5	3.750	Nil	10-16	1.5-2.5	20.-25	25-60		
06	<b>PAKRIHAWA 2B1D5d2c</b>	Parsa, Akrahaha, Ramnagar, Pathardeiya, Pakrihwa, Khajuria Sarki	1.250	3.5	4.000	Nil	10-16	1.5-2.5	20-25	25-60		
07	<b>BHANPUR 2B1D5d3b</b>	Bhujahana, Dudhvania Bujurg, Bargadva, Ghorhi urf Ronihawa, Pipra, Bhanpur, Pikaura	1.500	3.5	3.800	Nil	10-16	1.5-2.5	20.-25	25-60		
08	<b>BHAWPUR-urf-GULARI 2B1D5d3c</b>	Dhanaura Bujurg, Jignihawa, Semarahwa, Bhawpur urf Gulari, Tisam, Badhni BajarNP, Bargadava	1.750	3.5	3.750	Nil	10-16	1.5-2.5	20-25	25-60		
09	<b>BAGAHI 2B1D5d3d</b>	Bagahi, Bhawpur (Gulari), Mahadeva Bujurg	2.250	3.5	3.500	Nil	10-14	1.5-2.5	20.-25	25-60		

### **3.8 Fisheries**

Commercial fish farming is not being done by the farmers of in IWMP 1<sup>st</sup>, but there is a big scope for fish farming in this area.

**Table 3.12: Forest, vegetative cover/grassland in IWMP-I**

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
01	<b>DHRUGAR 2B1D5d2f</b>	Madhni, Gharuyar, Darul, Gajehari (Madhonagar), Jiyabhari, Kalyan nagar (Hridaynagar), Dudhvaniakhurd, Hasuni, Badhani	Nil	Nil	Nil	Nil	Nil	Nil	Nil
02	<b>KHAJURIA SARKI 2B1D5d2d</b>	Khajuria Sarki, Bharauli, Debaruakhas, Shiswa urf Shivbahari, Barihwa	Nil	Nil	Nil	1.000	Nil	Nil	Nil
03	<b>DHAKERI BUJURG 2B1D5d2e</b>	Barihwa, Shivpurlaguni, Karuva, Khurhuriya, Ramwapur, Shinsari, Semra, Parsoiya, Parsa	Nil	Nil	Nil	1.000	Nil	Nil	Nil
04	<b>DEHBARUA 2B1D5d3a</b>	Pikaura, Dehbaruakhas, Talkunda, Orihwakhas	Nil	Nil	Nil	Nil	Nil	Nil	Nil
05	<b>MANIKAUR A 2B1D5d3e</b>	Madhawpur, Ahiraula, Manikaura, Tikar, Mohan kothi, Matiyar urf Bhutahwa, Gauradih, Bhanpur, Banawanpur, Madhawa Bujurg, Talkunda	Nil	Nil	Nil	1.000	Nil	Nil	Nil
06	<b>PAKRIHAW A 2B1D5d2c</b>	Parsa, Akrahara, Ramnagar, Pathardeiya, Pakrihwa, Khajuria Sarki	Nil	Nil	Nil	1.000	Nil	Nil	Nil
07	<b>BHANPUR 2B1D5d3b</b>	Bhujahana, Dudhvania Bujurg, Bargadva, Ghorhi urf Ronihawa, Pipra, Bhanpur, Pikaura	Nil	Nil	Nil	Nil	Nil	Nil	Nil
08	<b>BHAWPUR- urf- GULARI 2B1D5d3c</b>	Dhanaura Bujurg, Jignihawa, Semarahwa, Bhawpur urf Gulari, Tisam, Badhni BajarNP, Bargadava	Nil	Nil	Nil	Nil	Nil	Nil	Nil
09	<b>BAGAHI 2B1D5d3d</b>	Bagahi, Bhawpur (Gulari), Mahadeva Bujurg	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Total					<b>4.000</b>			

### **3.9 Agro-forestry**

The agro-forestry practices are highly lacking in the watershed though it has good potential under existing dispositions and may play a vital role particularly with respect to minimization of cropping risk, build up soil fertility and productivity, soil conservation, partly meeting out the fire wood demand of rural community and moreover, optimizing the economical return from system as a whole under typical semi arid climate in the watershed. The other agro-forestry systems like agri-silvi, silvi-pastoral, bund and boundary plantations also have good potential to cater the fire wood and fodder demands of the rural community in the watershed. The existing area under agro-forestry is almost negligible. *Prosopis juliflora* may be planted as block or sole plantation specifically on marginal and degraded lands in the watershed. The agro-forestry interventions comprising of ber, bel, aonla, guava, popular etc may be applied to benefit of the farmers under rain-fed to irrigated production systems on leveled to sloping and marginal agricultural using proper planting techniques and termite control measures. The multipurpose trees may also help in supplementing fire wood and fodder demands of the rural community in the watershed and may be planted as hedge rows on rain-fed, marginal and degraded lands.

### **Conclusions**

The land capability classification of IWMP I<sup>st</sup> watershed provides reasonable good information with regard to capability of soil, that could be used for agriculture, agri-horticulture, silviculture and pasture development. The majority of land form is coming under class II, which give an insight of good agriculture production potential of this watershed. The productivity of these lands could be further enhanced by adoption of simple soil & water conservation measures like mild leveling, bunding, diversion drain and in-situ moisture conservation practices. The reasonable area is under class III indicating greater potential of this watershed for forestry and pasture development. The major physical limitations in case of agriculture soils are the sub soil hardness, low water infiltrability and slope. In case of area under topes of watershed, the most pronounced limitation of soil depth was noticed followed by severe erosion hazard and coarse soil texture. A small portion of watershed is under seasonally waterlogged. The soils under waterlogged area could be used for some other beneficial farming activities during the kharif season also.

### **3.9 Livelihood Status**

Assetless/landless people earn their livelihood mainly from labour and *batai*. They were earning about Rs. 18000 to 335000/per annum. It is expected that their income will enhance due to watershed management as it will generate sustained employment opportunity. Intervention based on piggeries, fisheries, black smithy and carpentry was not in practice. Livelihood status of landless, farmers and interventions based livelihood status are shown in Table 21, 22 and 23, respectively

**Table no. 3.13: Livelihood Status of Landless People**

S. N.	Name & Code of micro watershed	No. of Villag e	Name of Livelihood Activity	No. of house hold engaged					Pre project Average Income Annual	Desired Activities	Expected Income from desired activities Annual	Remarks
				Sc	St	Othe r	Wome n	Total				
1	2	3	4	5	6	7	8	9	10	11	12	13
01	<b>PAKRIHAWA 2B1D5d2d</b>	5	Wages	04		07	01	12	135600.00	Goatry / Poultry	300000.00	
02	<b>KHAJURIA SARKI 2B1D5d2c</b>	4	Wages	12		20	08	40	490000.00	Goatry / Poultry	1250000.00	
03	<b>DHAKERI BUJURG 2B1D5d2e</b>	10	Wages	NA		NA	NA	NA	NA	Dairy / Goatry	NA	
04	<b>DHRUGAR 2B1D5d2f</b>	4	Wages	06		05	03	14	197000.00	Goatry / Poultry	580000.00	
05	<b>DEHBARUA 2B1D5d3a</b>	6	Wages	NA		NA	NA	NA	NA	Dairy / Goatry	NA	
06	<b>BHANPUR 2B1D5d3b</b>	5	Wages	08		11	04	23	350000.00	Goatary / Poultry	1100000.00	
07	<b>BHAWPUR-urf- GULARI 2B1D5d3c</b>	6	Wages	05		08	03	16	198000.00	Dairy / Goatry	800000.00	
08	<b>BAGAHI 2B1D5d3d</b>	6	Wages	07		12	03	22	250000.00	Dairy / Goatry	800000.00	
09	<b>MANIKAURA 2B1D5d3e</b>	2	Wages	05		08	02	15	136400.00	Dairy / Goatry	450000.00	
				47		71	24	142				

**Table 3.14: Details of Livelihood Status of the Farmers**

S. No.	Name & Code of micro watershed	Name of Village	Name of Livelihood Activity	No. of Persons engaged					Pre project Average Income	Desired Activities	Expected Income from desired activities	Remarks
				Sc	St	Other	Wome n	Total				
1	2	3	4	5	6	7	8	9	10	11	12	13
01	PAKRIHAWA 2B1D5d2d	5	Farming/ Animal Hus.	22		123	4	145	261000	Farming & Goatary	543750	
02	KHAJURIA SARKI 2B1D5d2c	4	Farming/ Animal Hus.	27		151	6	178	284800	Farming & Poultry	712000	
03	DHAKERI BUJURG 2B1D5d2e	10	Farming/ Animal Hus.	35		207	10	242	484000	Farming & Dairy	907500	
04	DHRUGAR 2B1D5d2f	4	Farming/ Animal Hus.	23		127	6	150	270000	Farming & Kuteer Udyog	525000	
05	DEHBARUA 2B1D5d3a	6	Farming/ Animal Hus.	33		182	8	215	387000	Farming & Goatary	806250	
06	BHANPUR 2B1D5d3b	5	Farming/ Animal Hus.	39		204	12	243	437400	Farming & Poultry	911250	
07	BHAWPUR- urf- GULARI 2B1D5d3c	6	Farming/ Animal Hus.	38		202	15	240	432000	Farming & Dairy	900000	
08	BAGAHI 2B1D5d3d	6	Farming/ Animal Hus.	23		141	7	164	295200	Farming & Kuteer Udyog	615000	
09	MANIKURA 2B1D5d3e	2	Farming/ Animal Hus.	28		147	6	175	315000	Farming & Goatery	656250	
	Total			268		1484	74	1752	----	----	----	

**Table no. 3.15: Present Livelihood Status (No. of households/Income per year) in IWMP-I**

Income in Rs.

S. N o	Name of MWS with code	N o of vi ll a g e	Activities																		
			Dairy		Poultry		Goatry		Piggeries		Fisheries		Black Smithy		Carpentry		Stitching/ knitting		Wages		
			No	Av. income	No	Av. income	No	Av. income	No	Av. incom e	N o	Av. inc om e	N o	Av. income	N o	Av. incom e	N o	Av. inco me	No	Av. income	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
01	PAKRIHA WA 2B1D5d2d	5	219	4080408	12	1504 80	42	61530 0	08	9921 6			01	2250 0	02	5000 0			199	24954 60	
02	KHAJURIA SARKI 2B1D5d2c	4	760	1483748 0	40	5400 00	98	12106 92	14	0			02	4280 0	06	1446 00			184	27600 00	
03	DHAKERI BUJURG 2B1D5d2e	1 0	---	-	---	0	---		----	1434 30			---	-	0	---	0	---	0		
04	DHRUGAR 2B1D5d2f	4	216	4320000	14	1755 60	44	64460 0	09	0			02	4500 0	04	1000 00			203	25456 20	
05	DEHBARU A 2B1D5d3a	6	----	-	0	---		----	1116 18			---	-	0	---	-	0	----	0		
06	BHANPUR 2B1D5d3b	5	352 204	7040000	12 11	1504 80	42 10	61530 0	11 04	0			01	2250 0	02 01	5000 0			104 53	13041 60	
07	BHAWPUR -urf- GULARI 2B1D5d3c	6	94	4080000	16	1379 40	28	14650 0	07	1364 22			01	2250 0	02	2500 0			82	66462 0	
08	BAGAHI 2B1D5d3d	6	162 186	1880000	10 12	2006 40	23 27	41020 0	06 08	4960 8			01 01	2250 0	02	5000 0			51 38	10282 80	
09	MANIKAU RA 2B1D5d3e	2	218	3240000	15	1254 00	40	33695 0	08	8681 4			01	2250 0	02	5000 0			41	63954 0	
	Total		2411	3720000	14 2	1504 80	354	39555 0	75	7441 2			10	2250 0	21	5000 0			955	47652 0	

**Table no 3.16: Hydrology status**

S.No.	Name of Project	Item	Unit of measurement	Status
1	IWMP 1 <sup>st</sup> Siddharthnagar	Status of water table	Meters	6-7
2		Ground water structures repaired/ rejuvenated	No.	-
3		Quality of drinking water	Quality	Poor
4		Availability of drinking water	Days	300
5		Irrigation potential	%	4

**Table 3.17: Source wise Area Irrigated in IWMP-I**

S.No.	Name & code MWS	No. of Village	Gross Cultivated Area				Net Cultivat. Area	Gross Irrigated Area				Rainfed Area	
			Kharif	Rabi	Zaid	Total		Kharif	Rabi	Zaid	Total		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	PAKRIHAWA 2B1D5d2d	5	624.4	598.8	71.9	1295.1	873.79	136.1	13210.6	67.2	13413.9	147.44	726.35
2	KHAJURIA SARKI 2B1D5d2c	4	453.7	435.1	52.3	941.1	634.94	75.2	7297.0	37.1	7409.3	81.44	553.5
3	DHAKERI BUJURG 2B1D5d2e	10	925.9	888.0	106.6	1920.6	1295.75	177.9	17270.4	87.9	17536.2	192.75	1103
4	DHRUGAR 2B1D5d2f	4	949.4	910.5	109.3	1969.3	1328.62	337.9	32804.4	167.0	33309.2	366.12	962.5
5	DEHBARUA 2B1D5d3a	6	744.9	714.4	85.8	1545.1	1042.47	167.9	16297.3	82.9	16548.2	181.89	860.58
6	BHANPUR 2B1D5d3b	5	802.5	769.6	92.4	1664.6	1123.04	163.4	15861.0	80.7	16105.1	177.02	946.02
7	BHAWPUR-urf- GULARI 2B1D5d3c	6	715.7	686.3	82.4	1484.5	1001.53	286.2	27780.5	141.4	28208.0	310.05	691.48
8	BAGAHI 2B1D5d3d	6	197.2	189.1	22.7	409.0	275.97	41.7	4051.7	20.6	4114.1	45.22	230.75
9	MANIKURA 2B1D5d3e	2	593.4	569.1	68.3	1230.9	830.46	244.6	23744.0	120.8	24109.4	265	565.46
	<b>Total</b>		<b>6007.3</b>	<b>5761.0</b>	<b>691.7</b>	<b>12460.2</b>	<b>8406.57</b>	<b>1630.9</b>	<b>158316.9</b>	<b>805.7</b>	<b>160753.5</b>	<b>1766.93</b>	<b>6639.64</b>

**Table 3.18: Irrigation Status in IWMP-I**

S.No.	Name &Micro watershed with code	Name of Village	Canal Area	State Tube wells		Tanks		Open well		Bore wells		Lift irrigation		Others (Specify)		Total Irrig ated Area	Remarks
				No.	Area	No.	Area	No.	Area	No.	Area	No.	Area	No.	Area		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
01	DHRUGAR 2B1D5d2f	5	---	4	15.400	---	---	---	---	11	14.600	---	---	---	---	30.00	---
02	KHAJURIA SARKI 2B1D5d2d	4	---	3	85.170	---	---	---	---	8	14.830	---	---	---	---	100.00	---
03	DHAKERI BUJURG 2B1D5d2e	10	---	6	86.160	---	---	---	---	14	51.840	---	---	---	---	138.00	---
04	DEHBARUA 2B1D5d3a	4	---	1	26.160	---	---	---	---	10	18.840	---	---	---	---	45.00	---
05	MANIKAURA 2B1D5d3e	6	---	6	68.690	---	---	---	---	15	37.310	---	---	---	---	106.00	---
06	PAKRIHAWA 2B1D5d2c	5	---	6	84.260	---	---	---	---	16	31.740	---	---	---	---	116.00	---
07	BHANPUR 2B1D5d3b	6	---	2	56.200	---	---	---	---	08	11.800	---	---	---	---	68.00	---
08	BHAWPUR- urf- GULARI 2B1D5d3c	6	---	1	31.120	---	---	---	---	08	60880	---	---	---	---	38.00	---
09	BAGAHI 2B1D5d3d	2	---	--	--	---	---	---	---	14	52.000	---	---	---	---	52.00	---
		Total		29	453.16					104	239.84					693.0	

**Table 3.19: Ground Water Status in IWMP-I**

S. No.	Name & Code of Micro watershed	No. 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
01	DHRUGAR 2B1D5d2f	5	6.5	6	05	
02	KHAJURIA SARKI 2B1D5d2d	4	6.2	5.6	10	
03	DHAKERI BUJURG 2B1D5d2e	10	5.9	5	3	
04	DEHBARUA 2B1D5d3a	4	5.8	5	08	
05	MANIKAURA 2B1D5d3e	6	6.0	5.6	4	
06	PAKRIHAWA 2B1D5d2c	5	6.5	6	07	
07	BHANPUR 2B1D5d3b	6	6.8	6	2	
08	BHAWPUR-urf- GULARI 2B1D5d3c	6	7	6.23	05	
09	BAGAHI 2B1D5d3d	2	6.3	6	04	

### 3.7 Common property resources

Table 3.20: Details of common property resources In IWMP-I

S. No.	Names of MWS with code	Village	CPR Particulars	Total Area (ha) Area owned/ In possession of				Area available for treatment (ha)			
				Pvt. persons	Govt. (specify deptt.)	PRI	Any other (Pl. Specify)	Pvt. persons	Govt. (specify deptt.)	PRI	Any other (Pl. Specify)
1	2	3	4	5	6	7	8	9	10	11	12
01	DHRUGAR 2B1D5d2f	Madhni, Gharuyar, Darul, Gajehari (Madhonagar), Jiyabhari, Kalyan nagar (Hridaynagar), Dudhvanikhurd, Hasuni, Badhani	Wasteland/ degraded land	17.000	-	23.000	-	17.000	-	23.000	-
			Pastures	---	-	-	-	-	-	-	-
			Orchards	---	-	-	-	-	-	-	-
			Village Woodlot	---	-	1.218	-	-	-	-	-
			Forest	-	50.000	-	-	-	-	-	-
			Village Ponds/ Tanks	-	-	1.246	-	-	-	1.224	-
			Community Buildings	-	-	2.112	-	-	-	-	-
			Weekly Markets	-	-	-	-	-	-	-	-
			Permanent markets	-	-	-	-	-	-	-	-
			Temples/ Places of worship	-	-	0.549	-	-	-	-	-
			Others (Pl. specify) Chauk Marg, Sector, Road Etc	-	9.875	-	-	-	-	-	-
		Total		17	59.875	15.000	-	17.000	-	24.224	-
02	KHAJURIA SARKI 2B1D5d2d	Khajuria Sarki, Bharauli, Debaruakhas, Shiswa urf Shivbahari, Barihwa	Wasteland/ degraded land	59.000	-	9.000	-	59.000	-	9.000	-
			Pastures	01	-	-	-	-	-	-	-
			Orchards	-	-	-	-	-	-	-	-
			Village Woodlot	-	-	0.965	-	-	-	-	-
			Forest	-	-	-	-	-	-	-	-

			Village Ponds/ Tanks	-	-	1.232	-	-	-	1.232	-
			Community Buildings	-	-	1.932	-	-	-	-	-
			Weekly Markets	-	0.120	-	-	-	-	-	-
			Permanent markets	-	-	-	-	-	-	-	-
			Temples/ Places of worship	-	-	0.754	-	-	-	-	-
			Others (Pl. specify) Chok mrag Sector, Road etc	-	4.117	-	-	-	-	-	-
	<b>Total</b>			<b>60.000</b>	<b>4.237</b>	<b>13.883</b>		<b>59.000</b>		<b>10.232</b>	
03	<b>DHAKERI BUJURG 2B1D5d2e</b>	Barihawa, Shivpurlaguni, Karuva, Khurhuriya, Ramwapur, Shinsari, Semra, Parsoiya, Parsa	Wasteland/ degraded land	80.000	-	10.000	-	80.000	-	10.000	-
			Pastures	01.000	-	-	-	-	-	-	-
			Orchards	-	-	-	-	-	-	-	-
			Village Woodlot	-	-	1.110	-	-	-	-	-
			Forest	-	-	-	-	-	-	-	-
			Village Ponds/ Tanks	-	-	1.426	-	-	-	-	-
			Community Buildings	-	-	1.921	-	-	-	-	-
			Weekly Markets	-	-	-	-	-	-	-	-
			Permanent markets	-	-	-	-	-	-	-	-
			Temples/ Places of worship	-	-	0.542	-	-	-	-	-
			Others (Pl. specify) Chok mrag Sector, Road etc	-	6.001	-	-	-	-	-	-
	<b>Total</b>			<b>81.000</b>	<b>6.001</b>	<b>14.999</b>		<b>80.000</b>		<b>10.000</b>	
04	<b>DEHBARUA 2B1D5d3a</b>	Pikaura, Dehbaruakhas, Talkunda, Orihwakhas	Wasteland/ degraded land	33.000	-	17.000	-	33.000	-	17.000	-
			Pastures	-	-	-	-	-	-	-	-
			Orchards	-	-	-	-	-	-	-	-

		Village Woodlot	-	-	-	-	-	-	-	-
		Forest	-	46.000	-	-	-	-	-	-
		Village Ponds/ Tanks	-	-	0.976	-	-	-	-	-
		Community Buildings	-	-	0.875	-	-	-	-	-
		Weekly Markets	-	-	-	-	-	-	-	-
		Permanent markets	-	-	-	-	-	-	-	-
		Temples/ Places of worship	-	-	-	-	-	-	-	-
		Others (Pl. specify) Chok mrag Sector, Road etc	-	4.607	0.542	-	-	-	-	-
	<b>Total</b>			<b>33.000</b>	<b>50.607</b>	<b>19.393</b>	-	<b>33.000</b>	-	<b>17.000</b>
5	<b>MANIKAURA 2B1D5d3e</b>	Madhawpur, Ahiraula, Manikaura, Tikar, Mohan kothi, Matiyar urf Bhutahwa, Gauradih, Bhanpur, Banawanpur, Madhawa Bujurg, Talkunda	Wasteland/ degraded land	67.000	-	11.000	-	67.000	-	11.000
			Pastures	01.000	-	-	-	-	-	-
			Orchards	-	-	-	-	-	-	-
			Village Woodlot	-	-	1.245	-	-	-	-
			Forest	-	-	-	-	-	-	-
			Village Ponds/ Tanks	-	-	2.942	-	-	-	-
			Community Buildings	-	-	2.425	-	-	-	-
			Weekly Markets	-	-	-	-	-	-	-
			Permanent markets	-	-	-	-	-	-	-
			Temples/ Places of worship	-	-	1.524	-	-	-	-
	<b>Total</b>			<b>68.000</b>	<b>23.109</b>	<b>19.136</b>	-	<b>67.000</b>	-	<b>11.000</b>
06	<b>PAKRIHAWA 2B1D5d2c</b>	Parsa, Akrahara, Rammagar, Pathardeiya, Pakrihwa, Khajuria Sarki	Wasteland/ degraded land	71.000	-	19.000	-	71.000	-	19.000
			Pastures	-	-	-	-	-	-	-
			Orchards	-	-	-	-	-	-	-
			Village Woodlot	-	-	2.432	-	-	-	-

			Forest	-	-	-	-	-	-	-	-
			Village Ponds/ Tanks	-	-	3.242	-	-	-	-	-
			Community Buildings	-	-	2.421	-	-	-	-	-
			Weekly Markets	-	-	-	-	-	-	-	-
			Permanent markets	-	-	-	-	-	-	-	-
			Temples/ Places of worship	-	-	1.945	-	-	-	-	-
			Others (Pl. specify) Chok mrag Sector, Road etc	-	20.960	-	-	-	-	-	-
	<b>Total</b>			<b>71.000</b>	<b>20.960</b>	<b>29.040</b>	-	<b>71.000</b>	-	<b>19.000</b>	-
07	<b>BHANPUR 2B1D5d3b</b>	Bhujahana, Dudhvania Bujurg, Bargadva, Ghorhi urf Ronihawa, Pipra, Bhanpur, Pikaura	Wasteland/ degraded land	49.000	-	21.000	-	71.000	-	19.000	-
			Pastures	-	-	-	-	-	-	-	--
			Orchards	-	-	-	-	-	-	-	-
			Village Woodlot	-	-	1.214	-	-	-	-	-
			Forest	-	72.000	-	-	-	-	-	-
			Village Ponds/ Tanks	-	-	2.432	-	-	-	-	-
			Community Buildings	-	-	1.124	-	-	-	-	-
			Weekly Markets	-	-	-	-	-	-	-	-
			Permanent markets	-	-	-	-	-	-	-	-
			Temples/ Places of worship	-	-	0.845	-	-	-	-	-
	<b>Total</b>			<b>49.000</b>	<b>8.230</b>	<b>26.615</b>	-	<b>71.000</b>	-	<b>19.000</b>	-
08	<b>BHAWPUR- urf- GULARI 2B1D5d3c</b>	Dhanaura Bujurg, Jignihawa, Semarahwa, Bhawpur urf Gulari, Tisam, Badhni BajarNP, Bargadava	Wasteland/ degraded land	67.000	-	23.000	-	67.000	-	23.000	-
			Pastures	-	-	-	-	-	-	-	-
			Orchards	-	-	-	-	-	-	-	-
			Village Woodlot	-	-	1.213	-	-	-	-	-
			Forest	-	226.00	-	-	-	-	-	-
			Village Ponds/ Tanks	-	-	2.794	-	-	-	-	-

			Community Buildings	-	-	1.947	-	-	-	-	-
			Weekly Markets	-	-	-	-	-	-	-	-
			Permanent markets	-	-	-	-	-	-	-	-
			Temples/ Places of worship	-	-	1.542	-	-	-	-	-
			Others (Pl. specify) Chok mrag Sector, Road etc	-	11.504	-	-	-	-	-	-
	<b>Total</b>			<b>67.000</b>	<b>237.504</b>	<b>30.496</b>	-	<b>67.000</b>	-	<b>23.000</b>	-
09	<b>BAGAHI 2B1D5d3d</b>	Bagahi, Bhawpur (Gulari), Mahadeva Bujurg	Wasteland/ degraded land	63.000	-	24.000	-	63.000	-	24.000	-
			Pastures	-	-	-	-	-	-	-	-
			Orchards	-	-	-	-	-	-	-	-
			Village Woodlot	-	-	-	-	-	-	-	-
			Forest	-	48.000	-	-	-	-	-	-
			Village Ponds/ Tanks	-	-	2.432	-	-	-	-	-
			Community Buildings	-	-	2.532	-	-	-	-	-
			Weekly Markets	-	-	-	-	-	-	-	-
			Permanent markets	-	-	-	-	-	-	-	-
			Temples/ Places of worship	-	-	1.243	-	-	-	-	-
	<b>Total</b>			<b>63.000</b>	<b>59.793</b>	<b>30.207</b>	-	<b>63.000</b>	-	<b>24.000</b>	-

## **4. INSTITUTION BUILDING AND PROJECT MANAGEMENT**

### **4.1 Participatory Rural Appraisal (PRA)**

The past experience of watershed has given tremendous input to focus on creating accountability of the stakeholders towards the programme. This has created an emphasis to include the all stakeholders' communities and their local indigenous technological knowledge while planning for any activity. Participatory approach provides a new path for planning, implementing, monitoring and post withdrawal activities with a complete accountability of the stakeholders. Various PRA techniques like resource mapping, social mapping, matrix ranking and season calendar were used to understand the physical and social orientation of the village in general and watershed specific. These tools put the villagers in ease than the complicated questionnaires. Various tool like matrix ranking, Venn diagramme were used to identify various local vegetation (apt for afforestation), fodder crops, various institution and their significance in the life of the farmers.

### **4.2 Social Mobilization and Community Organization**

**Table no. 4.1: Physical outlays oh PIA,U.G., S.H.G., W.D.T. and W.C.**

<b>S. No.</b>	<b>Name of watershed</b>	<b>Code No.</b>	<b>U.G. (No.)</b>	<b>SHG (No.)</b>	<b>WDT (No.)</b>	<b>PIA</b>	<b>WC (No.)</b>
1	<b>DHARUGAR</b>	<b>2B1D5d2f</b>	7	3	1	1	5
2	<b>KHAJURIA SARKI</b>	<b>2B1D5d2d</b>	3	2			2
3	<b>DHAKERI BUJURG</b>	<b>2B1D5d2e</b>	7	5			5
4	<b>DEHBARUA KHAS</b>	<b>2B1D5d3a</b>	4	3			3
5	<b>MANIKAURA</b>	<b>2B1D5d3e</b>	3	4			5
6	<b>PAKRIHAWA</b>	<b>2B1D5d2c</b>	12	4			4
7	<b>BHANPUR</b>	<b>2B1D5d3b</b>	4	2			4
8	<b>BHAWPUR-urf- GULARI</b>	<b>2B1D5d3c</b>	13	3			3
9	<b>BAGAHI</b>	<b>2B1D5d3d</b>	2	4			1

**Table no. 4.2: Details of Watershed Committees (WC)**

Sl. No.	Name of Gram Sabha/ GP	Date of Constitution/ Registration as a Society (dd/mm/yyyy)	Designation	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educa-tional qualifi-cation	Function(s) assigned#
1	Akrahra	5/3/2011	President	M	-		Y	-	-	-	Y	-	-	-	10 <sup>th</sup>	
			Secretary	M		-	Y	-	-	-	Y	-	-	-	10 <sup>th</sup>	
			Member	M		-	Y	-	-	-	Y	-	-	-	Iliterate	
			Member	F	Y	-	-	-	-	-	-	Y	-	-	Iliterate	
			Member	F		-	-	-	-	-	-	-	-	-	Iliterate	
			Member	M	Y	-	-	-	-	Y	Y	Y	-	-	Iliterate	
			Member	M	-	-	-	-	-	-	-	-	-	-	10 <sup>th</sup>	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Literate	
2	Pakrihawa	5/3/2011	President	M	-	-	-	Y	-	-	-	-	Y		8th	
			Secretary	M	-	-	-		Y	-	Y		-	-	B.A.	
			Member	M	Y	-	-	Y		-	Y	Y	-	-	Iliterate	
			Member	F	Y	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	F	Y	-	-	Y	-	-	Y	Y	-	-	Iliterate	
			Member	M	Y	-	-	Y	-	-	Y	Y	-	-	Iliterate	
			Member	M	-	-	Y		-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	Y	-	-	Literate	
			Member	M	Y	-	-	Y	-	-	Y	Y	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	F	-	-	-	Y	-	-	-	-	Y	-	-	
3	Pathardaiya	5/3/2011	President	M		-	-	-	-	-	Y	-	-	-	8th	

			Secretary	M	Y	-	Y	-	-	-	Y	Y	-	-	10th	
			Member	M	Y	-	Y	-	-	-	Y	Y	-	-	8th	
			Member	F	-	-	Y	-	-	-	Y		-	-	Iliterate	
			Member	M	-	-	-	-	-	-	Y	-	-	-	B.A.	
			Member	M	-	-	-	-	Y		-	Y	-	-	Literate	
			Member	M	-	-	-	-	-	Y	-	-	-	-	Literate	
			Member	M	-	-	-	-	-	Y	-	-	-	-	Literate	
			Member	M	Y		Y	-	-	-	Y	Y	Y		Literate	
			Member	F	-	-	Y	-	-	-	-	-	Y	-	Iliterate	
			Member	M	-	-	Y	-	-	-	Y	-	Y	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	-	Y	-	Literate	
			Member	M	Y	-	-	-	-	-	Y	Y	Y	-	Literate	
			Member	F	-	-	Y	-	-	-	Y	-	Y	-	Iliterate	
4	Rekhat	5/3/2011	President	M	-	-	-	Y	-	-	Y	-	-	-	10th	
			Secretary	M	-	-	-	Y	-	-	Y	Y	-	-	12th	
			Member	M	Y		Y		-	-	Y	Y	-	-	Iliterate	
			Member	M	-	-	Y		-	-	Y		-	-	Iliterate	
			Member	F	-	-		Y	-	-	-	-	-	-	Iliterate	
			Member	M	Y	-	-	-	-	Y	Y	-	-	-	Iliterate	
			Member	M	-	-	-		Y	-	Y	-	-	-	Literate	
			Member	M	-	-	-	Y		-	Y	-	-	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	Y	-	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Iliterate	
5	Sewra	23/8/2010	President	M	-	-	Y	-	-		Y	-	-	-	Literate	
			Secretary	M		-	Y	-	-	-	Y	-	-	-	12th	
			Member	M	Y	-		Y	-	-	Y	Y	-	-	Iliterate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Iliterate	
			Member	F	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	-	Y	-	Y	-	-	-	Literate	
			Member	M	-	-	-	-	-	Y	Y	-	-	-	Literate	
			Member	M	-	-	-	-	-	Y	-	Y	-	-	Literate	

			Member	M	Y	-	-	-	-	Y		Y	-	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	-	Y	-	Literate	
			Member	M	Y	-	-	Y	-	-	Y	Y	-	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
6	Khajuriya Saki	10/8/2010	President	M	-	-	-	-	Y	-	Y	-	Y	-	Literate	
			Secretary	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	M	-	-	Y		-	-	Y	-	-	-	Literate	
			Member	M	-	-	Y		-	-	Y	-	-	-	Literate	
			Member	M	Y	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	Y	-	-	-	-	Y	Y	Y	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	-	-	Y	Y	-	-	-	Literate	
			Member	F	Y	-	-	-	-	Y	Y	-	-	-	Iliterate	
			Member	M	-	-	-	-	-	Y	Y	-	-	-	Literate	
			Member	M	-	-	-	-	-	Y	Y	-	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
7	Barihawa	18/08/2010	President	M	-	-	Y	-	-	-	Y	-	-	-	Literate	
			Secretary	M	Y	-	-	Y	-	-	Y		-	-	10th	
			Member	M	Y	-	-	Y	-	-	Y	Y	-	-	Literate	
			Member	M	-	-	Y	-	Y	-	Y		-	-	Literate	
			Member	F	-	-	Y	-	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	Y	-	-	Y	Y	-	-	-	Iliterate	
			Member	M	-	-	Y	-	-	-	Y	Y	-	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
8	Jamdhara	08/08/2010	President	M	Y	-	Y	-	-	-	Y	-	-	-	Literate	
			Secretary	M	Y	-	Y	-	-	-	Y	-	-	-	10th	
			Member	M	Y	-	-	Y	-	-	Y	-	-	-	Literate	

			Member	M	-	-	-	Y	-	-	Y	-	Y	-	Literate	
			Member	F	-	-	Y	-	-	-	Y	-	-	-	Iliterate	
			Member	M	Y	-	-	-	-	Y	-	-	-	-	Iliterate	
			Member	M	-	-	-	-	Y	-	Y	-	-	-	Literate	
			Member	M	Y	-	Y	-	-	-	Y	-	-	-	Iliterate	
			Member	M	Y	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	Y	-	-	-	Y	Y	-	-	Iliterate	
			Member	M	-	-	-	-	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	-	-	Y	-	-	-	-	Literate	
9	Dhekhari Bujurg	06/08/2010	President	M	-	-	Y	-	-	-	Y	-	-	-	12 <sup>th</sup>	
			Secretary	M	-	-	Y	-	-	-	Y	-	-	-	12th	
			Member	M	Y	-	-	-	-	-	-	-	-	-	Literate	
			Member	M	Y	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	F	-	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	-	Y	Y	Y	-	-	-	Literate	
			Member	M	-	-	-	-	Y	-	Y	-	-	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
10	Khurhuriya	10/08/2010	President	M	-	-	Y	-	-	-	Y	-	-	-	10th	
			Secretary	M	-	-	Y	-	-	-	Y	-	-	-	12th	
			Member	M	Y	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	Y	-	-	Literate	
			Member	F	-	-	-	-	-	-	Y	-	-	-	Iliterate	
			Member	M	Y	-	-	-	-	Y	Y	-	-	-	Literate	
			Member	M	-	-	-	-	Y	-	Y	-	-	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	Y	-	-	Literate	

			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
11	Parsadiwan	05/08/2010	President	M	-	-	Y	-	-	-	Y	Y	-	-	10th	
			Secretary	M	-	-	Y	-	-	-	Y	Y	-	-	10th	
			Member	M	Y		Y	-	-	-	Y		Y	-	Literate	
			Member	F	-	-	Y	-	-	-	Y		-	-	Iliterate	
			Member	M	-	-	-	-	Y	-	Y	-	-	-	Literate	
			Member	M	-	-	-	-	-	Y	-	-	-	-	Literate	
			Member	M	-	-	-	-	-	Y	-	-	-	-	Literate	
			Member	M	-	-	-	-	-	Y	Y	-	-	-	Literate	
			Member	M	Y	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	M	Y	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	M	Y	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	M	Y	-	Y	Y	-	-	Y	-	-	-	Literate	
12	Dharuar	01/03/2011	President	M	-	-	-	-	Y	-	Y	-	Y	-	12 <sup>th</sup>	
			Secretary	M	-	-	-	Y	-	-	-	-	-	-	10 <sup>th</sup>	
			Member	M	Y	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	F	-	-	-	-	-	Y	Y	Y	-	-	Literate	
			Member	M	Y	-	Y	-	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	-	-	Y	Y	Y	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
13	Dekhari khurd	18/08/2010	President	M	-	-	Y	-	-	-	Y	-	-	-	12 <sup>th</sup>	
			Secretary	M	-	-	Y	-	-	-	Y	-	-	-	10 <sup>th</sup>	
			Member	M	Y	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	F	-	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	F	-	-	-	-	-	Y	Y	-	-	-	Literate	
			Member	M	-	-	-	-	-	Y	Y	Y	-	-	Literate	

			Member	M	-	-	-	-	Y	-	Y		-	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	Y	-	-	Iliterate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	Y	-	-	-	Y	-	Y	-	Iliterate	
			Member	M	Y	-	-	-	-	-	Y	-	-	-	Iliterate	
			Member	M	Y	-	-	Y	-	-	Y		Y	-	Iliterate	
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14	Hriday Nagar	26/08/2011	President	F	-	-	-	-	-	-	Y		Y	-	Literate	
			Secretary	M	-	-	-	-	-	-	Y	-	-	-	12th	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	12th	
			Member	M	-	-	Y	Y	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	Y	Y	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	Y		-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	-	-	-	Y	-	-	-	Literate	
			Member	M	Y	-	-	Y		Y	Y	Y	-	-	Literate	
			Member	M	-	-	Y	-	-	-	Y		-	-	Literate	
			Member	M	Y			-	-	-	Y	Y	-	-	12th	
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15	Jiyabhari	03/03/2011	President	M	-	-	-	-	Y	-	Y	-	-	-	12th	
			Secretary	M	-	-	-	Y	-	-	Y	-	-	-	10th	
			Member	M	Y	-	Y	-	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	Y	-	Literate	
			Member	M	-	-	-	-	Y	-	Y	-	-	-	Literate	
			Member	M	Y	-	-	-	-	Y	Y	-	-	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	Y		-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y		Y	-	Literate	
			Member	M	-	-	Y	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	-	-	-	Y	-	-	-	Literate	
16	Malgahiya	07/03/2011	President	M	-	-	-	-	Y	-	Y	-	-	-	Literate	

			Secretary	M	-	-	Y	-	-	-	Y	-	-	-	10 <sup>th</sup>	
			Member	M	-	-	-	-	Y	-	Y	-	-	-	B.A.	
			Member	M	-	-	-	-	Y	-	Y	-	-	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	-	Y	-	Y	-	-	-	10th	
			Member	M	Y	-	-	-	-	Y	Y	Y	-	-	Iliterate	
			Member	F	Y	-	-	-	-	Y	Y	-	Y	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	Y	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Literate	
			President	M	Y	-	Y	-	-	-	Y	-	-	-	12 <sup>th</sup>	
17	Debarua	03/10/2010	Secretary	M	Y	-	Y	-	-	-	Y	Y	-	-	10 <sup>th</sup>	
			Member	M	Y	-	Y	-	-	-	Y	Y	-	-	Literate	
			Member	F	Y	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	-	Y	-	Y	Y	-	-	Literate	
			Member	M	-	-	-	-	-	Y	-	-	-	-	Iliterate	
			Member	M	-	-	-	-	-	Y	-	-	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	Y	Y	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	Y	-	Y	-	-	-	Y	Y	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	Y	-	-	Literate	
			Member	M	Y	-	Y	-	-	-	Y	-	-	-	Literate	
18	Aurhawa	28/08/2010	President	M	-	-	Y	-	-	-	Y	-	-	-	Literate	
			Secretary	M	-	-	-	Y	-	-	Y	-	-	-	10 <sup>th</sup>	
			Member	M	Y	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	F	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	Y	Y	-	Y	-	-	-	Literate	
			Member	M	-	-	-	-	-	Y	-	-	-	-	Iliterate	
			Member	M	-	-	Y	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	Y	-	-	-	Y	Y	Y	-	Iliterate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Iliterate	

			Member	M	-	-	Y	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Iliterate	
19	Talkunda	03/10/2010	President	M	-	-	Y	-	-	-	Y	Y	-	-	5th	
			Secretary	M	-	-	Y	-	-	-	Y	Y	-	-	12th	
			Member	M	Y	-	-	Y	-	-	Y	-	-	-	12th	
			Member	F	-	-	-	Y		-	-	-	-	-	Iliterate	
			Member	M	-	-	-		Y	-	Y	-	Y		5th	
			Member	M	-	-	-	Y	-	-	Y	Y	-	-	5th	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	5th	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	5th	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	5th	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	12th	
20	Manikaura	01/03/2011	President	M	-	-	-	-	Y	-	Y	-	Y	-	12 <sup>th</sup>	
			Secretary	M	-	-	-	-	-	Y	Y	Y	-	-	10 <sup>th</sup>	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	Y	-	-	-	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	-	-	-	Y	-	-	-	Literate	
			Member	F	-	-	-	Y		Y	Y	-	-	-	Iliterate	
			Member	F	-	-	-	-	-	Y	-	-	-	-	Iliterate	
			Member	F	-	-	-	-	-	Y	Y	-	Y	-	Iliterate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	-	-	Y	-	-	-	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	Y		-	Literate	
21	Ahiraula	30/10/2010	President	M	-	-	-	-	Y	-	Y	-	-	-	Iliterate	
			Secretary	M	-	-	-	-	Y	-	Y	-	-	-	12 <sup>th</sup>	
			Member	M	Y	-	-	Y	-	-	Y	Y	-	-	Iliterate	
			Member	F	Y	-	-	Y	-	-	Y	-	-	-	Iliterate	

			Member	F	-	-	-	Y	-	-	Y	Y	-	-	Iliterate	
			Member	F	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	M	Y	-	Y	-	-	-	Y	Y	-	-	Iliterate	
			Member	M	-	-	Y	-	-	-	Y	Y	-	-	Iliterate	
			Member	M	-	-	-	-	-	-	-	-	-	-	10 <sup>th</sup>	

			President	F	-	-	-	-	Y	-	Y	Y	-	-	Literate	
			Secretary	F	-		Y	-	-	-	Y	-	-	-	12 <sup>th</sup>	
			Member	M	-	-	-	Y	-	-	Y	Y	-	-	Iliterate	
			Member	M	Y	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	Y	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	Y	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	Y	-	-	Y	-	-	Y	Y	-	-	Iliterate	
			Member	F	-	-	-	-	-	Y	Y	-	-	-	Iliterate	
			Member	M	-	Y	Y	-	-		Y	-	-	-	Iliterate	
			Member	M	-	-	-	-	-	-	-	-	-	-	10 <sup>th</sup>	

			President	M	-	-	Y	-	-	-	Y	-	-	-	12 <sup>th</sup>	
			Secretary	M	-	-	Y	-	-	-	Y	Y	-	-	10 <sup>th</sup>	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	10 <sup>th</sup>	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	10 <sup>th</sup>	
			Member	M	-	-	Y	-	-	-	Y	Y	-	-	10 <sup>th</sup>	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	10 <sup>th</sup>	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	10 <sup>th</sup>	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	10 <sup>th</sup>	
			Member	M	-	-	Y	-	-	-	Y	Y	-	-	10 <sup>th</sup>	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	10 <sup>th</sup>	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	10 <sup>th</sup>	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	10 <sup>th</sup>	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	10 <sup>th</sup>	

24	Khairi Shital Parsad	03/10/2010	President	M	-	-		Y	-	-	-	-	-	10 <sup>th</sup>
			Secretary	M	-	-		Y	-	-	-	-	-	10 <sup>th</sup>
			Member	M		-	-	-	-	Y	-	-	-	8th
			Member	F		-	-	Y	-	-	-	-	Y	Iliterate
			Member	F	Y	-	-	-	-	-	-	-	Y	Iliterate
			Member	M	Y	-	-	Y	-	-	-	-	-	Iliterate
			Member	M	Y	-	-	Y	-	-	Y	-	-	5th
			Member	M	Y	-	-	Y	-	-	-	-	-	12th
			Member	M		-	-	Y	-	-	-	-	-	Iliterate
			Member	M		-	-	Y	-	-	-	-	-	Iliterate
			Member	M	Y	-	-	-	-	Y	-	-	-	Iliterate
			Member	M		-	-	Y	-	-	-	-	-	5th
25	Manpur	30/9/2010	President	M	Y	-	Y	-	-	-	Y	-	-	B.A.
			Secretary	M	-	-	Y	-	-	-	Y	-	-	12 <sup>th</sup>
			Member	M	-	-	Y	-	-	-	Y	Y	-	Iliterate
			Member	M	-	-	Y	-	-	-	Y	Y	-	Iliterate
			Member	M	-	-	Y	-	-	-	Y	-	-	5th
			Member	M	-	-	Y	-	-	-	Y	-	-	5th
			Member	M	-	-	Y	-	-	-	Y	-	-	Iliterate
			Member	M	-	-	Y	-	-	-	Y	-	-	6th
			Member	M	-	-	Y	-	-	-	Y	-	-	Iliterate
			Member	M	-	-	Y	-	-	-	Y	-	-	5th
			Member	M	-	-	Y	-	-	-	Y	Y	-	5th
			Member	M	-	-	Y	-	-	-	Y	Y	-	Iliterate
26	Bargadwa	30/9/2011	President	M	-	-	Y	-	-	-	Y	Y	-	12 <sup>th</sup>
			Secretary	M	-	-	Y	-	-	-	Y	-	-	M.A.
			Member	M	-	-	Y	-	-	-	Y	Y	-	Iliterate
			Member	F	-	-	Y	-	-	-	Y	Y	-	5th
			Member	M	-	-	Y	-	-	-	Y	Y	-	5 <sup>th</sup>
			Member	M	-	-	Y	-	-	-	Y	-	-	12 <sup>th</sup>
			Member	M	-	-	Y	-	-	-	Y	-	-	8 <sup>th</sup>

			Member	M	-	-	Y	-	-	-	Y	Y	-	-	5 <sup>th</sup>	
			Member	M	Y	-	Y	-	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	Y	-	-	-	Y	Y	-	-	Iliterate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	6th	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Iliterate	
27	Mujehna	3/10/2011	President	M	Y	-	Y	-	-	-	Y	-	-	-	8th	
			Secretary	M	Y	-	Y	-	-	-	Y	-	-	-	8th	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	5th	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	5th	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	5th	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	5th	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	5th	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	5th	
			Member	F	-	-	Y	-	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	5th	
			Member	F	Y	-	Y	-	-	-	Y	-	-	-	Iliterate	
28	Bhavpur urf Gulri	20/08/2010	President	M	-	-	-	Y	-	-	Y	-	-	-	10th	
			Secretary	M	-	-	Y	-	-	-	Y	-	-	-	12 <sup>th</sup>	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	Y	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	F	Y	-	-	-	-	-	Y	-	Y	-	Iliterate	
			Member	M	-	-	-	-	-	-	Y	-	Y	-	literate	
			Member	M	-	-	-	Y	-	-	Y	-	Y	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
			Member	M	-	-	-	-	-	-	Y	Y	-	-	Iliterate	
			Member	M	-	-	-	Y	-	-	Y	Y	-	-	literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Iliterate	
29	Dhanaura Bujurg	03/04/2011	President	M	-	-	-	Y		-	Y	-	Y	-	Literate	
			Secretary	M	-	-	Y		-	-	Y	-	-	-	8 <sup>th</sup>	

			Member	F	-	-	-	Y	-	-	Y	Y	Y	-	Literate	
			Member	M	-	-	-		-	-	Y	-	Y	-	literate	
			Member	M	-	-	-		-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	Y	-	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-		-	-	Y	-	-	-	literate	
			Member	M	-	-	-		-	-	Y	-	-	-	Literate	
			Member	M	-	-	-		-	-	Y	-	-	-	Literate	
			Member	M	-	-	-		-	-	Y	-	-	-	literate	
			Member	F	-	-	-	-	-	-	Y	-	-	-	literate	
<hr/>																
30	Jiganihawa	04/04/2011	President	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
			Secretary	M	-	-	Y	-	-	-	Y	-	-	-	B.A.	
			Member	F	-	-	-	Y	-	-	Y	-	Y	-	literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	-	-	-	Y	Y	-	-	Literate	
			Member	M	-	-	-	-	-	-	Y	Y	Y	-	Literate	
			Member	M	-	-	-	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	-	-	-	Y	Y	Y	-	Literate	
			Member	M	-	-	-	-	-	-	Y	-	-	-	literate	
			Member	M	-	-	-	-	-	-	Y	-	-	-	literate	
			Member	M	-	-	-	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	-	-	-	Y	-	-	-	Literate	
<hr/>																
31	Dudhvaniya Bujurg	01/04/2011	President	M	-	-	Y	-	-	-	Y	-	-	-	M.A.	
			Secretary	M	-	-	Y	-	-	-	Y	-	-	-	10 <sup>th</sup>	
			Member	F	-	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	M	Y	-	-	-	-	-	Y	-	-	-	10 <sup>th</sup>	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	Literate	
			Member	M	-	-	Y	-	-	-	Y	-	-	-	12th	
			Member	M	-	-	Y	-	-	-	Y	-	Y	-	10 <sup>th</sup>	

			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	-	Y	-	Y	-	-	-	Literate	
32	Redvariya	26/08/2010	President	M	-	-	-	Y	-	-	-	Y	-	-	12th	
			Secretary	M	-	-	-	Y	-	-	Y	-	-	-	10 <sup>th</sup>	
			Member	F	Y	-	-	-	-	Y	-	-	Y	-	literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	Literate	
			Member	M	-	-	-	-	-	-	Y	-	-	-	literate	
			Member	M	-	-	-	Y	Y	-	-	-	-	-	literate	
			Member	M	-	-	-	-	-	-	Y	Y	-	-	Literate	
			Member	M	-	-	-	Y	Y	-	-	Y	Y	-	Literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	literate	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	12th	
			Member	M	-	-	-	-	-	-	-	-	-	-	literate	

#### **4.3 Watershed Development Team**

As per as common guide line direction/ instruction given in para 5.3 point 40 P.I.A. has been constitute watershed development team as given below

**Table no4.3: Details of Watershed Development Teams (WDTs) in the project area**

S. No.	Name of the PIA	Name of the water shed	Names of WDT members	M/F	Age	Qualification/ Experience	Description of professional training	Role/ Function##	Date of appointment of WDT member
1	2	3	4	5	6	7	8	9	10
1	<b>Bhomni Sanrakshan Adhikari</b> <b>Land development and water resources Department Siddhartha nagar (U.P.)</b>	<b>DHRUGAR 2B1D5d2f</b>	N K Gupta	M	63	Ag Diploma	Agriculture	A, B, E	June, 2011
			Miss Manisha Divedi	F	24	BA Sociology	Social Moblizer	H, J G	

# M – Male, F- Female

# # In column 8, only the letter, assigned as below, needs to be typed, except for '3', where the type may be specifically mentioned.

A	Participatory Net Planning (PNP) and Participatory Rural Approach (PRA), Training and Capacity Building	
B	Planning	C Maintenance of Accounts
D	Signing of cheques and making payments	E Social audit
F	Engineering surveys, drawings and cost estimations	G Physical verification & measurement
H	Record of labour employed	I Livelihood opportunities for landless
J	Post project operation, maintenance of assets	K any other (please specify)

#### 4.4 Self Help Group

The constitution of Self Help Groups have been constituted by W.C. in all micro watershed for generating income & improved their social status with the help and financial support through scheme by technical support of P.I.A., detail of 24 SHGs is given below

**Table no. 4.4 SHG detail**

S.N.	Name of MWS	Names of villages	Total no. of Constituted/registered SHGs				No. of members				No. of SC/ST in each category			No. of BPL in each category			Date of formation of SHGs					
			With only Men	With only Women	With both	Total	Categories	M	F	Total	M	F	Total	M	F	Total						
1	Pakrihawa 2B1D5d2c	Pakrihawa	1	-	1	2	(i) Landless	-	-	-	-	-	-	-	-	-						
							(ii) SF	-	-	-	-	-	-	-	-	-						
							(iii) MF	22	2	24	10	2	12	22	2	24	7/9/2011					
							(iv) LF	-	-	-	-	-	-	-	-	-	25/1/2012					
		Pathre deiya					Total	1	-	1	2	22	2	24	10	2	12	22	2	24	-	
							(i) Landless	-	12	12	-	4	4	-	4	4	-	-	-	-		
							(ii) SF	-	-	-	-	-	-	-	-	-	-	-	-	-		
							(iii) MF	12	-	12	2	-	2	12	8	20	14/2/2012					
							(iv) LF	-	-	-	-	-	-	-	-	-	22/2/2012					
<b>TOTAL</b>			<b>1</b>	<b>1</b>	<b>-</b>	<b>2</b>				<b>12</b>	<b>-</b>	<b>24</b>	<b>2</b>	<b>4</b>	<b>6</b>	<b>12</b>	<b>12</b>	<b>24</b>		<b>-</b>		
<b>MWS TOTAL</b>			<b>2</b>	<b>1</b>	<b>1</b>	<b>4</b>				<b>34</b>	<b>14</b>	<b>48</b>	<b>12</b>	<b>6</b>	<b>18</b>	<b>34</b>	<b>14</b>	<b>48</b>				
2	Khajuriya Sarki 2B1D5d2d	Khajuriya Sarki	1	-	1	2	(i) Landless	-	-	-	-	-	-	-	-	-	-	-	-			
							(ii) SF	-	-	-	-	-	-	-	-	-	-	-	-	-		
							(iii) MF	19	4	23	8	-	8	19	4	23	20/12/2011					
							(iv) LF	-	-	-	-	-	-	-	-	-	25/12/2011					
							Total	<b>1</b>	<b>-</b>	<b>1</b>	<b>2</b>		<b>19</b>	<b>4</b>	<b>23</b>	<b>8</b>	<b>-</b>	<b>8</b>	<b>19</b>	<b>4</b>	<b>23</b>	<b>-</b>

	MWS TOTAL		1	-	1	2		19	4	23	8	-	8	19	4	23	-	
3	<b>Dhelahri Bujurg 2B1D5d2e</b>	Barihawa	1	-	1	2	(i) Landless	-	-	-	-	-	-	-	-	-	-	
							(ii) SF	-	-	-	-	-	-	-	-	-	-	
							(iii) MF	22	2	24	7	-	7	22	2	24	01/01/2012	
							(iv) LF	-	-	-	-	-	-	-	-	-	02/02/2012	
		<b>Total</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>2</b>		<b>22</b>	<b>2</b>	<b>24</b>	<b>7</b>	<b>-</b>	<b>7</b>	<b>22</b>	<b>2</b>	<b>24</b>	<b>-</b>	
		Parsha	3	-	-	3	(i) Landless	-	-	-	-	-	-	-	-	-	-	
							(ii) SF	-	-	-	-	-	-	-	-	-	-	
							(iii) MF	36	-	36	2	-	2	36	-	36	05/01/2012	
							(iv) LF	-	-	-	-	-	-	-	-	-	01/10/2011	
		<b>Total</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>3</b>		<b>36</b>	<b>-</b>	<b>36</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>36</b>	<b>-</b>	<b>36</b>	<b>02/12/2011</b>	
	<b>MWS TOTAL</b>		<b>4</b>	<b>-</b>	<b>1</b>	<b>5</b>		<b>58</b>	<b>2</b>	<b>60</b>	<b>9</b>	<b>-</b>	<b>9</b>	<b>58</b>	<b>2</b>	<b>60</b>	<b>-</b>	
4	<b>Gharuyar 2B1D5d2f</b>	Gharuyar			1	1	(i) Landless	-	1	1	-	1	1	-	1	1	-	
							(ii) SF	-	-	-	-	-	-	-	-	-	-	
							(iii) MF	9	2	11	2	-	2	9	2	11	01/9/2011	
							(iv) LF	-	-	-	-	-	-	-	-	-	-	
		<b>Total</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>		<b>9</b>	<b>3</b>	<b>12</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>9</b>	<b>3</b>	<b>12</b>	<b>-</b>	
		Jiyabhari			-	1	(i) Landless	-	-	-	-	-	-	-	-	-	-	
							(ii) SF	-	-	-	-	-	-	-	-	-	-	
							(iii) MF	12	-	12	-	-	-	12	-	12	05/11/2011	
							(iv) LF	-	-	-	-	-	-	-	-	-	-	
		<b>Total</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>		<b>12</b>	<b>-</b>	<b>12</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>12</b>	<b>-</b>	<b>12</b>	<b>-</b>	
		Kalyan Nagar Urf Hriday Nagar		1		-	1	(i) Landless	-	-	-	-	-	-	-	-	-	
								(ii) SF	-	-	-	-	-	-	-	-	-	
								(iii) MF	10	-	10	2	-	2	10	-	10	08/11/2011
								(iv) LF	-	-	-	-	-	-	-	-	-	
	<b>Total</b>		<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>		<b>10</b>	<b>-</b>	<b>10</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>10</b>	<b>-</b>	<b>10</b>	<b>-</b>	
	<b>MWS TOTAL</b>		<b>2</b>	<b>-</b>	<b>1</b>	<b>3</b>		<b>31</b>	<b>3</b>	<b>34</b>	<b>4</b>	<b>1</b>	<b>5</b>	<b>31</b>	<b>3</b>	<b>34</b>	<b>-</b>	
5	<b>Debarua Khas 2B1D5d3a</b>	Pikaura			1	1	(i) Landless	-	1	1	-	-	-	-	1	1	01/02/2012	
							(ii) SF	-	-	-	-	-	-	-	-	-	-	
							(iii) MF	11	-	11	4	-	4	11	-	11	-	
							(iv) LF	-	-	-	-	-	-	-	-	-	-	

		<b>Total</b>	-	-	<b>1</b>	<b>1</b>		<b>11</b>	<b>1</b>	<b>12</b>	<b>4</b>	-	<b>4</b>	<b>11</b>	<b>1</b>	<b>12</b>	-
		Debarua	1	-	-	1	(i) Landless	-	-	-	-	-	-	-	-	-	-
							(ii) SF	-	-	-	-	-	-	-	-	-	-
							(iii) MF	11	-	11	4	-	4	11	-	11	02/10/2011
							(iv) LF	-	-	-	-	-	-	-	-	-	-
		<b>Total</b>	<b>1</b>	-	-	<b>1</b>		<b>11</b>	-	<b>11</b>	<b>4</b>	-	<b>4</b>	<b>11</b>	-	<b>11</b>	-
		Aurahawa					(i) Landless	-	5	5	-	-	-	-	5	5	-
							(ii) SF	-	-	-	-	-	-	-	-	-	-
							(iii) MF	3	3	6	-	-	-	3	3	6	03/2/2012
							(iv) LF	-	-	-	-	-	-	-	-	-	-
		<b>Total</b>	-	-	<b>1</b>	<b>1</b>		<b>3</b>	<b>8</b>	<b>11</b>	-	-	-	<b>3</b>	<b>8</b>	<b>11</b>	-
		<b>MWS TOTAL</b>	<b>1</b>	-	<b>2</b>	<b>3</b>		<b>25</b>	<b>9</b>	<b>34</b>	<b>8</b>	-	<b>8</b>	<b>25</b>	<b>9</b>	<b>34</b>	-
6	<b>Bhanpur 2B1D5d3b</b>	Bhanpur	1	-	-	1											
							(i) Landless	11	-	11	1	-	1	11	-	11	15/11/2011
							(ii) SF	-	-	-	-	-	-	-	-	-	-
							(iii) MF	-	-	-	-	-	-	-	-	-	-
							(iv) LF	-	-	-	-	-	-	-	-	-	-
		<b>Total</b>	<b>1</b>	-	-	<b>1</b>		<b>11</b>	-	<b>11</b>	<b>1</b>	-	<b>1</b>	<b>11</b>	-	<b>11</b>	
		Bargadwa	-	-	1	1	(i) Landless	11	1	12	-	-	-	11	1	12	28/12/2011
							(ii) SF	-	-	-	-	-	-	-	-	-	-
							(iii) MF	-	-	-	-	-	-	-	-	-	-
							(iv) LF	-	-	-	-	-	-	-	-	-	-
		<b>Total</b>	-	-	<b>1</b>	<b>1</b>		<b>11</b>	<b>1</b>	<b>12</b>	-	-	-	<b>11</b>	<b>1</b>	<b>12</b>	-
		<b>MWS TOTAL</b>	<b>1</b>	-	<b>1</b>	<b>2</b>		<b>22</b>	<b>1</b>	<b>23</b>	<b>1</b>	-	<b>1</b>	<b>22</b>	<b>1</b>	<b>23</b>	-
7	<b>Bhavpur urf Gulri 2B1D5d3c</b>	Dhnaura Bujurg	-	-	1	1	(i) Landless	-	1	1	-	-	-	-	1	1	25/11/2011
							(ii) SF	-	-	-	-	-	-	-	-	-	-
							(iii) MF	10	2	12	4	-	4	10	2	12	-
							(iv) LF	-	-	-	-	-	-	-	-	-	-
		<b>Total</b>	-	-	<b>1</b>	<b>1</b>		<b>10</b>	<b>3</b>	<b>13</b>	<b>4</b>	-	<b>4</b>	<b>10</b>	<b>3</b>	<b>13</b>	-
		Semrahw a	1	-	-	1	(i) Landless	-	-	-	-	-	-	-	-	-	-
							(ii) SF	-	-	-	-	-	-	-	-	-	-
							(iii) MF	11	-	11	-	-	-	11	-	11	5/12/2011
							(iv) LF	-	-	-	-	-	-	-	-	-	-
		<b>Total</b>	<b>1</b>	-	-	<b>1</b>		<b>11</b>	-	<b>11</b>	-	-	-	<b>11</b>	-	<b>11</b>	-

		Jignihwa urf Dhanauri	1	-	-	1	(i) Landless	-	-	-	-	-	-	-	-	-	-
							(ii) SF	-	-	-	-	-	-	-	-	-	-
							(iii) MF	12	-	12	-	-	-	12	-	12	5/2/2012
							(iv) LF	-	-	-	-	-	-	-	-	-	-
		<b>Total</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>			<b>12</b>	<b>-</b>	<b>12</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>12</b>	<b>-</b>	<b>12</b>
		<b>MWS TOTAL</b>	<b>2</b>	<b>-</b>	<b>1</b>	<b>3</b>			<b>33</b>	<b>3</b>	<b>36</b>	<b>4</b>	<b>-</b>	<b>4</b>	<b>33</b>	<b>3</b>	<b>36</b>
8	Redwariya 2B1D5d3d	Baghi	-	-	2	2	(i) Landless	10	1	11	4	-	4	10	1	11	22/8/2011
							(ii) SF	-	-	-	-	-	-	-	-	-	-
							(iii) MF	9	1	10	3	-	3	9	1	10	27/9/2011
							(iv) LF	-	-	-	-	-	-	-	-	-	-
		<b>Total</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>2</b>			<b>19</b>	<b>2</b>	<b>21</b>	<b>7</b>	<b>-</b>	<b>7</b>	<b>19</b>	<b>2</b>	<b>21</b>
		Mahadev Bujurg	1	-	1	2	(i) Landless	-	-	-	-	-	-	-	-	-	-
							(ii) SF	-	-	-	-	-	-	-	-	-	-
							(iii) MF	20	1	21	7	-	7	20	1	21	7/12/2011
							(iv) LF	-	-	-	-	-	-	-	-	-	15/12/2011
		<b>Total</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>2</b>			<b>20</b>	<b>1</b>	<b>21</b>	<b>7</b>	<b>-</b>	<b>7</b>	<b>20</b>	<b>1</b>	<b>21</b>
		<b>MWS TOTAL</b>	<b>1</b>	<b>-</b>	<b>3</b>	<b>4</b>			<b>39</b>	<b>3</b>	<b>42</b>	<b>14</b>	<b>-</b>	<b>14</b>	<b>39</b>	<b>3</b>	<b>42</b>
9	Manikaur a 2B1D5d3e	Manikaur a	1	-	-	1	(i) Landless	-	-	-	-	-	-	-	-	-	-
							(ii) SF	-	-	-	-	-	-	-	-	-	-
							(iii) MF	10	-	10	-	-	-	10	-	10	7/1/2012
							(iv) LF	-	-	-	-	-	-	-	-	-	-
		<b>Total</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>			<b>10</b>	<b>-</b>	<b>10</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>10</b>	<b>-</b>	<b>10</b>
		Matiyar urf Bhuthawa	-	-	1	1	(i) Landless	-	1	1	-	1	1	-	1	1	11/11/2011
							(ii) SF	-	-	-	-	-	-	-	-	-	-
							(iii) MF	11	-	11	-	-	-	11	-	11	-
							(iv) LF	-	-	-	-	-	-	-	-	-	-
		<b>Total</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>			<b>11</b>	<b>1</b>	<b>12</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>11</b>	<b>1</b>	<b>12</b>
		Ahiraula	1	-	-	1	(i) Landless	-	-	-	-	-	-	-	-	-	-
							(ii) SF	-	-	-	-	-	-	-	-	-	-
							(iii) MF	12	-	12	2	-	2	12	-	12	3/2/2012
							(iv) LF	-	-	-	-	-	-	-	-	-	-
		<b>Total</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>1</b>			<b>12</b>	<b>-</b>	<b>12</b>	<b>2</b>	<b>-</b>	<b>2</b>	<b>12</b>	<b>-</b>	<b>12</b>
		Basawan pal urf Madrahiy	-	-	1	1	(i) Landless	9	2	11	-	-	-	9	2	11	30/12/2011
							(ii) SF	-	-	-	-	-	-	-	-	-	-
							(iii) MF	-	-	-	-	-	-	-	-	-	-

	a					(iv) LF	-	-	-	-	-	-	-	-	-
	<b>Total</b>	-	-	1	1		9	2	11	-	-	-	9	2	11
	<b>MWS TOTAL</b>	2	-	2	4		42	3	45	2	1	3	42	3	45
	<b>Grand Total</b>	16	1	13	30	0	303	42	345	62	8	70	303	42	345

(M- Male, F- Female)

**Table No.4.5: Details of Formation of Self Help Groups**

S. N.	Name of micro watershed	Name of village	Name of group	Date of constitution	Name of Adhyaksh	Name of Sachiv	Total No. of Members				Name of Bank and Address	Account No. & Date	Up to date Saving	Group activities
							Wo-men	Sc/St	Other	Total				
1	2	3	4		5	6	7	8	9	10	11	12		13
1	Pakrihawa 2B1D5d2c	Pakrihawa	Arawat	7/9/2011	Sant Ram	Jagdish	-	8	4	12	-	-	1800	Goatry
			Laxmi	25/1/2012	Garib	Pujari	2	4	8	12	-	-	600	Goatry
		Total	-	-	-	-	2	12	12	24	-	-	2400	-
		Pathardaiya	Laxmi	22/2/2012	Dularmati	Sunita	12	4	8	12	-	-	300	Shwing
			Peer Baba	14/2/2012	Mo.Shaleem	Warish Ali	-	2	10	12	-	-	300	Poultry
		<b>Total</b>	-	-	-	-	<b>12</b>	<b>6</b>	<b>18</b>	<b>24</b>	-	-	<b>600</b>	-
	<b>Total for MWS</b>	-	-	-	-	-	<b>14</b>	<b>18</b>	<b>30</b>	<b>48</b>	-	-	<b>3000</b>	-
2	Khajuriya Sarki 2B1D5d2d	Khajuriya Sarki	Pal	20/12/2011	Ram Pal	Vijay Bhan	4	8	-	12	-	-	1800	Goatry
			Pasupati Nath	25/10/2011	Satya Parkash	Kanhaya Lal	-	-	11	11	-	-	1650	Goatry
		<b>Total</b>	-	-	-	-	<b>4</b>	<b>8</b>	<b>11</b>	<b>23</b>	-	-	<b>3450</b>	-
	<b>Total for MWS</b>	-	-	-	-	-	<b>4</b>	<b>8</b>	<b>11</b>	<b>23</b>	-	-	<b>3450</b>	-
3	Dekahari Bujurg 2B1D5d2e	Bairihawa	Reliance	1/1/2012	Asfak Ahmad	Jamil Ahmad	-	3	9	12	-	-	2400	Goatry
			Jay Durga	2/2/2012	Jagai	Ram Sumiran	2	7	5	12	-	-	600	Goatry

		<b>Total</b>	-	-	-	-	<b>2</b>	<b>10</b>	<b>14</b>	<b>24</b>	-	-	<b>3000</b>	-
		Parsa	Jay Ma Ambe	5/1/2012	Ram Sajivan	Ashok	-	-	12	12	-	-	1200	Goatry
			Satguru Deway Namah	1/10/2011	Ram Jeet	Kedar	-	2	10	12	-	-	1500	Goatry
			Bhole Baba	2/12/2011	Jay Lal	Raju	-	-	12	12	-	-	1800	Goatry
		<b>Total</b>	-	-	-	-	-	<b>2</b>	<b>34</b>	<b>36</b>	-	-	<b>4500</b>	-
	<b>Total for MWS</b>	-	-	-	-	-	<b>2</b>	<b>12</b>	<b>48</b>	<b>60</b>	-	-	<b>7500</b>	-
4	<b>Gharuyar 2B1D5d2f</b>	Gharuyar	Radhe	1/9/2011	Molhu	Sambhu	3	3	9	12	-	-	2600	Goatry
		Jiya Bhari	Subhas	5/11/2011	Sasi Kumar	Ram Lagan	-	-	12	12	-	-	2400	Goatry
		Hriday Nagar urf Kalyan Nagar	Siddha rth	8/11/2011	Madanlal	Ram Chandra	-	2	8	10	-	-	2000	Goatry
		<b>MWS Total</b>					<b>3</b>	<b>5</b>	<b>29</b>	<b>34</b>	-	-	<b>7000</b>	
5	<b>Deberua Khass 2B1D5d3a</b>	Pikaura	Jai Bajrang	1/2/2012	Pattu	Gafoor	1	4	8	12	-	-	240	Goatry
		Debarua	Buddha	2/10/2011	Sant Nivas	Rajendra	-	4	7	11	-	-	1100	Goatry
		Aurahawa	Laxmi	3/2/2012	Ram Vriksha	Ramseh	8	-	11	11	-	-	660	Sewing
		<b>MWS Total</b>					<b>9</b>	<b>8</b>	<b>26</b>	<b>34</b>	-	-	<b>2000</b>	
6	<b>Bhanpur 2B1D5d3b</b>	Bhanpur	Vikas	15/11/2011	Jai Sam Prasad	Shiv Prasad	-	1	10	11	-	-	2200	Goatry
		Bargadwa	Durga	28/12/2011	Umesh Chandra	Rajesh	1	-	12	12	-	-	1650	Goatry

		<b>MWS Total</b>					<b>1</b>	<b>1</b>	<b>22</b>	<b>23</b>	-	-	<b>3850</b>	
7	<b>Bhaupur urf Gulari 2B1D5d3c</b>	Simrahwaa	Kisan	5/12/2011	Md. Safi	Ikbal Ahmed	-	-	11	11	-	-	1650	Poultry
		Dhanaura Bujurg	Azad	25/11/201	Haneef	Aisha Khatoo n	3	4	9	13	-	-	2550	Poultry
		Jignihuwa urf Dhanauri	Navi	5/2/2012	Kifayat Ullah	Karam Husseen	-	-	12	12	-	-	600	Goatry
		<b>MWS Total</b>					<b>3</b>	<b>4</b>	<b>32</b>	<b>36</b>	-	-	<b>4800</b>	
8	<b>Redwariya 2B1D5d3d</b>	Baghi	Asha	22/8/2011	Ganga Ram	Subhash	1	5	7	11	-	-	3850	Goatry
			Abhila sha	27/9/2011	RamJan Ali	Sakir Ali	1	3	7	10	-	-	3000	Poultry
		<b>Total</b>	-	-	-	-	<b>2</b>	<b>8</b>	<b>13</b>	<b>21</b>	-	-	<b>6850</b>	-
		Mahadev Bujurg	Akanc ha	7/12/2011	Ram Parsad	Guru Parsad	1	5	6	11	-	-	1650	Goatry
			Jahida	15/12/2011	Suleman	Abu harera	-	2	8	10	-	-	1650	Poultry
		<b>Total</b>	-	-	-	-	<b>1</b>	<b>7</b>	<b>14</b>	<b>21</b>	-	-	<b>3300</b>	-
		<b>MWS Total</b>	-	-	-	-	<b>3</b>	<b>15</b>	<b>27</b>	<b>42</b>	-	-	<b>10150</b>	-
9	<b>Manikaura 2B1D5d3e</b>	Manikaura	Akta	7/1/2012	Riyaz Ahmad	Raheem	-	-	10	10	-	-	1000	Poultry
		Matiyar urf Bhuthawa	Sharda	11/11/2011	Ram Kishor	Ram Dev	1	-	12	12	-	-	2200	Fishrise
		Ahiraula	Vikash	3/2/2012	Satya Narayan	Chail Bihari	-	2	12	12	-	-	600	Goatry
		Basawanpal urf madraiya	Shakti	20/12/2011	Ram Prakash	Bajrang i	2	-	11	11	-	-	1650	Goatry
		<b>MWS Total</b>	-	-	-	-	<b>3</b>	<b>2</b>	<b>43</b>	<b>43</b>	-	-	<b>5450</b>	-
		<b>Grand Total</b>					<b>42</b>	<b>73</b>	<b>268</b>	<b>343</b>			<b>47200</b>	

#### **4.6 User Group**

The following user's group are identified and constituted in all micro watershed committee in presence of Watershed Development Team for implementation of watershed work proper use and management of all engineering and vegetative measure to be creating/ constructing under watershed through scheme. Detail of user's group are given below-

**Table no. 4.6: UGs detail**

S.No.	Names of Watershed	Total no. of registered UGs				No. of Members				No. of SC/ST in each category			No. of BPL in each category			Date of formation of UGs
		With only Men	With only Women	With Both	Total	Categories	M	F	Total	M	F	Total	M	F	Total	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1.	DHRUGAR 2B1D5d2f	0	1	2	3	(i) Landless	5	11	16	8	9	3	5	2	7	UNDER PROCESS
						(ii) SF	12	3	15	4	1	5	3	1	4	
						(iii) MF	7	-	7	2	-	2	3	-	3	
						(iv) LF	3	-	4	-	-	-	-	-	-	
		<b>Total</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>3</b>		<b>27</b>	<b>19</b>	<b>46</b>	<b>14</b>	<b>11</b>	<b>10</b>	<b>11</b>	<b>3</b>	<b>14</b>
2	KHAJURIA SARKI 2B1D5d2d	0	0	3	3	(i) Landless	5	2	7	2	1	3	5	2	7	
						(ii) SF	12	3	15	4	1	5	3	1	4	
						(iii) MF	7	-	7	2	-	2	3	-	3	
						(iv) LF	3	-	4	-	-	-	-	-	-	
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>		<b>27</b>	<b>5</b>	<b>32</b>	<b>8</b>	<b>2</b>	<b>10</b>	<b>11</b>	<b>3</b>	<b>14</b>
3	DHAKERI BUJURG 2B1D5d2e	0	0	3	3	(i) Landless	7	3	10	3	2	5	5	2	7	
						(ii) SF	11	5	16	4	2	6	3	2	5	
						(iii) MF	5	-	5	3	-	3	2	-	2	
						(iv) LF	3	1	4	-	-	-	-	-	-	
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>		<b>26</b>	<b>9</b>	<b>35</b>	<b>10</b>	<b>4</b>	<b>14</b>	<b>10</b>	<b>4</b>	<b>14</b>
4	DEHBARUA 2B1D5d3a	0	0	3	3	(i) Landless	5	2	7	2	1	3	5	2	7	
						(ii) SF	12	3	15	4	1	5	3	1	4	
						(iii) MF	7	-	7	2	-	2	3	-	3	
						(iv) LF	3	-	4	-	-	-	-	-	-	
		<b>Total</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>		<b>27</b>	<b>5</b>	<b>32</b>	<b>8</b>	<b>2</b>	<b>10</b>	<b>11</b>	<b>3</b>	<b>14</b>
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
5	MANIKAURA 2B1D5d3e	0	0	3	3	(i) Landless	5	2	7	2	1	3	5	2	7	UNDER PROCESS
						(ii) SF	12	3	15	4	1	5	3	1	4	
						(iii) MF	7	-	7	2	-	2	3	-	3	

					(iv) LF	3	-	4	-	-	-	-	-	-	-	
	<b>Total</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>3</b>		<b>27</b>	<b>5</b>	<b>32</b>	<b>8</b>	<b>2</b>	<b>10</b>	<b>11</b>	<b>3</b>	<b>14</b>	
6	<b>PAKRIHAWA 2B1D5d2c</b>	0	0	1	1	(i) Landless	2	2	4	1	1	2	1	1	2	
						(ii) SF	3	-	3	-	-	-	-	-	-	
						(iii) MF	2	-	2	-	-	-	-	-	-	
						(iv) LF	1	-	1	-	-	-	-	-	-	
							<b>27</b>	<b>5</b>	<b>32</b>	<b>8</b>	<b>2</b>	<b>10</b>	<b>11</b>	<b>3</b>	<b>14</b>	
7	<b>BHANPUR 2B1D5d3b</b>	0	0	3	3	(i) Landless	6	2	8	2	1	3	5	2	7	
						(ii) SF	11	4	15	4	1	5	3	1	4	
						(iii) MF	7	-	7	2	-	2	3	-	3	
						(iv) LF	3	-	4	-	-	-	-	-	-	
							<b>28</b>	<b>5</b>	<b>33</b>	<b>8</b>	<b>2</b>	<b>10</b>	<b>11</b>	<b>3</b>	<b>14</b>	
8	<b>BHAWPUR- urf- GULARI 2B1D5d3c</b>	0	1	2	3	(i) Landless	5	11	16	8	9	3	5	2	7	
						(ii) SF	12	3	15	4	1	5	3	1	4	
						(iii) MF	7	-	7	2	-	2	3	-	3	
						(iv) LF	3	-	4	-	-	-	-	-	-	
							<b>27</b>	<b>19</b>	<b>46</b>	<b>14</b>	<b>11</b>	<b>10</b>	<b>11</b>	<b>3</b>	<b>14</b>	
9	<b>BAGAHI 2B1D5d3d</b>	0	0	2	2	(i) Landless	4	1	5	1	1	2	1	1	2	
						(ii) SF	9	1	10	4	1	5	2	1	3	
						(iii) MF	5	-	5	2	-	2	3	-	3	
						(iv) LF	2	-	2	-	-	-	-	-	-	
							<b>20</b>	<b>2</b>	<b>22</b>	<b>7</b>	<b>2</b>	<b>9</b>	<b>6</b>	<b>2</b>	<b>8</b>	

#### **4.7 PROJECT IMPLEMENTING AGENCIES (PIA)**

U.P. Government, Land Development Water Resources Department Section-1 Lucknow has nominated as PIA to Bhoomi Sanrakshhan Unit, Land Development Water Resources Department Siddharthnagar for IWMP 1<sup>st</sup> vide letter no-666(10)/54-1-10-1(9)02008 dated 25-05-2010

**Table no. 4.7: Project Implementing Agency (PIA)**

S.No.	Particulars of PIA	
(i)	Date of selection of PIA	25.05.2010
(ii)	Type of organization	Govt. organization
(iii)	Name of organization #	DoLR
(iv)	Designation & Address	BSA, IWDP, Siddharthnagar
(v)	Telephone	09838827439
(vi)	Fax	
(vii)	E-Mail	iwmp_siddharthnagarup@rediffmail.com

# Only the letter assigned to each type, as given below, needs to be typed.

- |   |                         |   |                             |
|---|-------------------------|---|-----------------------------|
| A | Line Dept.              | B | Autonomous organization     |
| C | Govt. Institute         | D | Research Bodies             |
| E | Zila Parishad           | F | Intermediate Panchayat      |
| G | Voluntary Organisations | H | Any other (please specify). |

**Table no 4.8: Staff at PIA level**

S.N.	Name	Designation	Qualification
1	Sri Hari Ram	BSA, IWDP,Siddharthnagar	Inter, Civil Engineering Diploma
2	Sri Indrajit Singh	JE IWDP, Siddharthnagar	Inter, Civil Diploma
3	Sri Sanjay awasthi	JE IWDP, Siddharthnagar	Agril Engineering Diploma
4	Sri Anil Kumar Gupta	Accountant IWDP, Siddharthnagar	B. Com.
5	Sri Dilip Kumar Srivastava	Accountant IWDP, Siddharthnagar	B. Com.
6	Sri Rangnath Tiwari	Jiledar, IWDP, Siddharthnagar	B.A.
7	Sri Sarvesh Kumar	Jr. Clerk IWDP, Siddharthnagar	M.A.
8	Sri Nem Singh	Tracer, IWDP, Siddharthnagar	Inter
9	Sri Sambhu Yadava	ASCI, IWDP, Siddharthnagar	B.Sc.Ag
10	Sri Jhhingur Ram	ASCI, IWDP, Siddharthnagar	Iner, Agril. Diploma
11	Sri Hriday Nath Kushwaha	SP, IWDP, Siddharthnagar	Inter
12	Sri Ramesh	SP, IWDP, Siddharthnagar	Inter
13	Sri Anil Kumar	SP, IWDP, Siddharthnagar	Inter
14	Sri Ram Nayan maurya	Munshi, IWDP, Siddharthnagar	Inter
15	Sri Rajendra Prashad Chaudhri	SP, IWDP, Siddharthnagar	Inter
16	Sri Kalpnath shukla	SP, IWDP, Siddharthnagar	High School
17	Sri swami Nath Upadhyay	SP, IWDP, Siddharthnagar	B.A.
18	Sri Dharmraj Singh	SP, IWDP, Siddharthnagar	Inter
19	Sri Ram Poojan Singh	SP, IWDP, Siddharthnagar	Inter
20	Sri kashi Ram Yadava	IV <sup>th</sup> Class IWDP, Siddharthnagar	Class 8
21	Sri S. P. Mishra	IV <sup>th</sup> Class IWDP, Siddharthnagar	Class 8
22	Sri Bal Ram Pal	IV <sup>th</sup> Class IWDP, Siddharthnagar	Inter
23	Sri Parash Nath Yadava	IV <sup>th</sup> Class IWDP, Siddharthnagar	B. A.

## **4.8 Project Implementation Strategy**

Watershed management as a strategy has been adopted by Government of India especially in the rainfed region of semi arid tropics. These regions are characterized by low and unpredictable rain, low soil fertility, poor infrastructure development, low literacy and high incidence of migration. Several studies have identified that there is a dire need of a systematic and scientific approach to deal with the watershed development. The common guideline generates a fresh and flexible framework for the next generation watershed development.

### **4.8.1 Scientific Planning**

#### **i) Cluster Approach**

This envisages a broader vision of Geo-hydrological unit which involves treating a cluster of micro watershed. The IWMP 1<sup>st</sup> Siddharthnagar watershed project consists of nine micro watershed

#### **ii) Base line Survey**

To access the impact of any watershed development programme a detailed baseline survey has to be conducted. This acts as a benchmark for any intervention during and post implementation of any development programme. A detailed baseline survey was undertaken which involved household census survey, Bio-physical survey and Village level data collection from PIA. Household census survey includes a detailed questionnaire which was 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, net consumption rate in the IWMP-1<sup>st</sup>, average milk production of the cattle and various schemes running and their benefits. Bio-physical survey was undertaken to identify various natural resources available in the village. It included the soil typology, well in the area, crop taken in the field, Cropping pattern, fertilizer used and various sources of irrigation in the field.

#### **iii) Participatory Rural Appraisal (PRA)**

The past experience of watershed has given tremendous input to focus on creating accountability of the stakeholders towards the programme. This has created an emphasis to include all the stakeholder communities and their local and indigenous Technological Knowledge (ITK) while planning for any activity. Participatory approach provides a new path for planning, implementing, and monitoring

and post- withdrawal activities with a complete accountability of the stakeholders. Various PRA techniques like resource mapping, social mapping, and season calendars were used to understand the physical and social orientation of the village in general and watershed in specific. These tools put the villagers in ease than the complicated questionnaires. Various tools like Matrix ranking, Venn diagram were used to identify various local vegetations (apt for afforestation) , Fodders crops , various institution and their significance in the life of the farmers

**iv) Use of GIS and Remote sensing for planning**

Use of various high science tools has been promoted at various stages of watershed development.

**a) Prioritization**

Geographical Information System (GIS) has been used for prioritization process. Various layer maps were created like Geomorphological, Soil, BPL Population, SC/ST population, Ground water Status, Drinking water situation Slope percent. These were all given proper weight age according to the DoLR specification. This helped in prioritization of various watershed areas.

**b) Planning**

A action plan matrix was formulated by State Level Nodal Agency (SLNA) taking into account various features like the slope percent, soil Depth, Soil Texture, Soil erosion in the area for wasteland, forest land and agricultural land. Global positioning System (GPS) was used to identify each and every water conservation structures available in the project area. This was used to create a map. Contour Map of vertical interval of 1 meter at a scale of 1:8000 was used for identifying various locations for soil and water conservation structures.

**c) Hydrological modelling**

Hydrology modelling technique was used for locating drainage, stream length, flow direction, sink, and flow accumulation. This model overlaid over cadastral map to calculate the catchments area of each structures like the gully plug etc. This has helped to remove the human error which generally occurs while calculating the catchments area of a check dam.

**Table no. 4.9: Details of Scientific Planning and Inputs in IWMP projects**

Scientific criteria/ inputs used	Whether scientific criteria was used
1	2
<b>(A) Planning</b>	
Cluster approach	Yes
Whether technical back-stopping for the project has been arranged? If yes, mention the name of the Institute	
Baseline survey	Yes
Hydro-geological survey	Yes
Contour mapping	Yes
Participatory Net Planning (PNP)	Yes
Remote sensing data-especially soil/ crop/ run-off cover	
Ridge to Valley treatment	
Online IT connectivity between	
(1) Project and DRDA cell/ZP	Yes
(2) DRDA and SLNA	Yes
(3) SLNA and DoLR	Yes
Availability of GIS layers	
1. Cadastral map	Yes
2. Village boundaries	Yes
3. Drainage	Yes
4. Soil (Soil nutrient status)	Yes
5. Land use	Yes
6. Ground water status	Yes
1	2

7. Watershed boundaries	Yes
8. Activity	Yes
Crop simulation models#	No
Integrated coupled analyzer/ near infrared visible spectroscopy/ medium spectroscopy for high speed soil nutrient analysis	No
Normalized difference vegetation index (NDVI)#	No
Weather Station	
<b>(B) Inputs</b>	No
1. Bio-pesticides	No
2. Organic manures	Yes
3. Vermicompost	Yes
4. Bio-fertilizer	Yes
5. Water saving devices	Yes
6. Mechanized tools/ implements	Yes
7. Bio-fencing	Yes
8. Nutrient budgeting	No
9. Automatic water level recorders & sediment samplers	No

### **Convergence of watershed programmes**

- 4.8.2 Earthen bund, contour bund, percolation tank, injection well will be made in watershed area convergence with MNREGS
- 4.8.3 Soil health card, crop demonstration, kisan gosthi, kisan mela, farmer's school also organized in watershed area under many scheme of department of Agriculture.
- 4.8.4 Composite fish farming or mixed fish farming popularized in this area with Department of fisheries.
- 4.8.5 Animal health camp, fodder development, vaccination work also made through Veterinary Department.
- 4.8.6 Aforestation in project area also done with Forest Department.
- 4.8.7 Dry land horticulture also convergence with department of horticulture.

**Table no. 4.10 : Details of Convergence of other Schemes in the Project area with IWMP Project**

S.No.	Name of the MW	Names of Departments with Schemes converging with IWMP*	Fund made available to IWMP project due to convergence (Rs. In lakh)	Was this fund included in Rs. 12,000/15,000 Per ha		Name of activity/task/structure undertaken with converged funds (a) Structures (b) Livelihoods (c) Production System	Reference no. of activity/task/structure in DPR	Level at which decision for convergence was taken \$
				Yes	No			
1	2	3	4	5	6	7	8	9
1	DHRUGAR 2B1D5d2f	MNREGS	NIL			NIL	NIL	NIL
		DA	NIL			NIL	NIL	NIL
		DHO	NIL			NIL	NIL	NIL
		DF	NIL			NIL	NIL	NIL
		F	NIL			NIL	NIL	NIL
		<b>Total</b>						
2	KHAJURIA SARKI 2B1D5d2d	MNREGS	NIL			NIL	NIL	NIL
		DA	NIL			NIL	NIL	NIL
		DHO	NIL			NIL	NIL	NIL
		DF	NIL			NIL	NIL	NIL
		F	NIL			NIL	NIL	NIL
		<b>Total</b>						
3	DHAKERI BUJURG 2B1D5d2e	MNREGS	NIL			NIL	NIL	NIL
		DA	NIL			NIL	NIL	NIL
		DHO	NIL			NIL	NIL	NIL
		DF	NIL			NIL	NIL	NIL
		F	NIL			NIL	NIL	NIL
		<b>Total</b>						
4	DEHBARUA 2B1D5d3a	MNREGS	NIL					DRDA
		DA	NIL	NIL	NIL	NIL		PIA
		DHO	NIL	NIL	NIL	NIL		PIA
		DF	NIL	NIL	NIL	NIL		PIA
		F	NIL	NIL	NIL	NIL		PIA
		<b>Total</b>						
5	MANIKAURA 2B1D5d3e	MNREGS	NIL	NIL	NIL	NIL		DRDA
		DA	NIL	NIL	NIL	NIL		PIA
		DHO	NIL	NIL	NIL	NIL		PIA
		DF	NIL	NIL	NIL	NIL		PIA
		F	NIL	NIL	NIL	NIL		PIA
		<b>Total</b>						

6	PAKRIHAWA 2B1D5d2c	MNREGS	NIL	NIL	NIL	NIL	DRDA
		DA	NIL	NIL	NIL	NIL	PIA
		DHO	NIL	NIL	NIL	NIL	PIA
		DF	NIL	NIL	NIL	NIL	PIA
		F	NIL	NIL	NIL	NIL	PIA
		<b>Total</b>					
7	BHANPUR 2B1D5d3b	MNREGS	NIL	NIL	NIL	NIL	DRDA
		DA	NIL	NIL	NIL	NIL	PIA
		DHO	NIL	NIL	NIL	NIL	PIA
		DF	NIL	NIL	NIL	NIL	PIA
		F	NIL	NIL	NIL	NIL	PIA
		<b>Total</b>					
8	BHAWPUR-urf- GULARI 2B1D5d3c	MNREGS	NIL	NIL	NIL	NIL	DRDA
		DA	NIL	NIL	NIL	NIL	PIA
		DHO	NIL	NIL	NIL	NIL	PIA
		DF	NIL	NIL	NIL	NIL	PIA
		F	NIL	NIL	NIL	NIL	PIA
		<b>Total</b>					
9	BAGAHY 2B1D5d3d	MNREGS	NIL	NIL	NIL	NIL	DRDA
		DA	NIL	NIL	NIL	NIL	PIA
		DHO	NIL	NIL	NIL	NIL	PIA
		DF	NIL	NIL	NIL	NIL	PIA
		F	NIL	NIL	NIL	NIL	PIA
		<b>Total</b>			NIL	NIL	
		<b>Grand Total</b>					

# only letter (a) or (b) or (c) needs to be filled. In case more than one activity has been undertaken all the concerned letters may be indicated e.g. (a) + (b)

\$ WC/GP/WDT/PIA/DRDA cell/ZP/DPC/SLNA / DoLR- only initials as indicated here need to be entered.

\* DA= Department of Agriculture, DHO= Department of Horticulture, VO= Department of Veterinary, DF= Department of Fisheries, F= Forest

## 5. MANAGEMENT /ACTION PLAN

### 5.1 Entry Point Activities

Integrated Watershed Development Programme 1<sup>st</sup> is aimed at the socio economic upliftments of the dweller of watershed area and to create trust about the programme to be implemented so that they can coordinate in participatory mode for the success of the programme. As per the new common guidelines total financial outlay for the entry point activities is 4 % of the total project cost. To increase the per capita availability of drinking water older wells of the village will be renovated as well as pacca jagat will be constructed, to increase the irrigation water availability older bundhies which are already existed but not functioning will be reconstructed/ renovated. Repairing and maintenance of water bodies have been proposed on priority basis. School lies in the watershed areas will be equipped with drinking water facility and extracurricular activities will be promoted among the children in the watershed area by supplying sport goods to the school. To approach watershed village construction and repairing of damaged pulia has also been proposed and construction of women bathrooms besides hand pump or wells. Total estimated cost for these activities is Rs 32.208 Lacs.

**Table no. 5.1:** **Entry point activities (EPA)**

(All financial figures in lacs Rs.)

S.no.	Names of the Villages	Amount earmarked for EPA	Entry point Activities planned	Estimated cost	Expected outcome	Name of agency which selected the EPA#	Expected month & year of completion (mm/yyyy)
1	2	3	4	5	6	7	8
1	<b>Dhrugar (with 9 village)</b>	5.54592	Repair of well/ Vikash Munch	1.000	-	WC, PIA, WDT	March, 2011
			Repairing of damaged Pulia-3	0.900	-	WC, PIA, WDT	March, 2011
			Providing Bathroomto school	0.54592	-	WC, PIA, WDT	March, 2011
			School boundry wall	3.100	-	WC, PIA, WDT	March, 2011
2	<b>Khajuria Sarki (with 5 village)</b>	2.26704	Repair of well/ Vikash Munch	1.000	-	WC, PIA, WDT	March, 2011
			Repairing of damaged Pulia-3	0.900	-	WC, PIA, WDT	March, 2011
			Providing Bathroomto school	0.26704	-	WC, PIA, WDT	March, 2011
3	<b>Dhakeri Bujurg (with 9 village)</b>	4.95456	Repair of well/ Vikash Munch	1.000	-	WC, PIA, WDT	March, 2011
			Repairing of damaged Pulia-5	1.500	-	WC, PIA, WDT	March, 2011
			Providing Bathroomto school	0.45456	-	WC, PIA, WDT	March, 2011
			Traveler Tin shed-1	1.000	-	WC, PIA, WDT	March, 2011
			Vikash Manch-1	1.000	-	WC, PIA, WDT	March, 2011

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
4	<b>Dehbarua (with 4 village)</b>	2.4108	Repair of well/ Vikash Munch	1.000	-	WC, PIA, WDT	March, 2011
			Repairing of damaged Pulia-3	0.900	-	WC, PIA, WDT	March, 2011
			Providing Bathroomto school	0.4108	-	WC, PIA, WDT	March, 2011
5	<b>Manikaura (with 10 village)</b>	4.58928	Repair of well/ Vikash Munch	1.000	-	WC, PIA, WDT	March, 2011
			Repairing of damaged Pulia-4	1.200	-	WC, PIA, WDT	March, 2011
			Providing Bathroomto school	0.38928	-	WC, PIA, WDT	March, 2011
			Traveler Tin shed-1	1.000	-	WC, PIA, WDT	March, 2011
			Vikash Manch-1	1.000	-	WC, PIA, WDT	March, 2011
6	<b>Pakrihawa (with 6 village)</b>	4.2672	Repair of well/ Vikash Munch	1.000	-	WC, PIA, WDT	March, 2011
			Repairing of damaged Pulia-4	1.200	-	WC, PIA, WDT	March, 2011
			Providing Bathroomto school	0.2672	-	WC, PIA, WDT	March, 2011
			Traveler Tin shed-1	1.000	-	WC, PIA, WDT	March, 2011
			Vikash Manch-1	1.000	-	WC, PIA, WDT	March, 2011
7	<b>Bhanpur (with 8 village)</b>	3.65568	Repair of well/ Vikash Munch	1.000	-	WC, PIA, WDT	March, 2011
			Repairing of damaged Pulia-4	1.200		WC, PIA, WDT	March, 2011
			Providing Bathroomto school	0.45568		WC, PIA, WDT	March, 2011
			Traveler Tin shed-1	1.000	-	WC, PIA, WDT	March, 2011
8	<b>Bhawpur-urf- Gulari (with 7 village)</b>	3.570	Repair of well/ Vikash Munch	1.000	-	WC, PIA, WDT	March, 2011
			Repairing of damaged Pulia-4	1.200	-	WC, PIA, WDT	March, 2011
			Providing Bathroomto school	0.370	-	WC, PIA, WDT	March, 2011
			Traveler Tin shed-1	1.000	-	WC, PIA, WDT	March, 2011
9	<b>Bagahi (with 3 village)</b>	0.94752	Repair of well/ Vikash Munch	0.500	-	WC, PIA, WDT	March, 2011
			Repairing of damaged Pulia-1	0.300	-	WC, PIA, WDT	March, 2011
			Providing Bathroomto school	0.14752	-	WC, PIA, WDT	March, 2011

# was the EPA selected by Gram Panchayat/WC/PIA/WDT/Any other (please specify)

**Table no. 5.2: Other activities of preparatory phase**

S. No	Item	Initiation of village level institution	Capacity building	IEC activities	Baseline survey	Hydro-geological survey	Identifying technical support agencies	Resource agreements	Preparation of DPR	Evaluation of DPR	Any other (please specify)
1	Estimated cost	6.26	30.00	4.00	4.026	1.6104	8.052	-	1.6104	0.8052	-
2	Status of the activity #	Under Complete	Under Complete	Under Complete	Complete	Complete	Complete		Complete	-	
3	Expected month & year of completion (mm/yyyy)	March, 2011	March, 2011	March, 2011	March, 2010	March, 2010	March, 2010	-	March, 2010	-	

**Table no. 5.3: List of approved Training Institutes for capacity Building in the project area**

Sr. No.	Name of the Training Institute	Full Address with contact no, website & e-mail	Designation of the Head of Institute	Type of Institute	Area(s) of specialization	No. of training assigned	No. of persons to be trained	Allocation to be made to the institute
1	2	3	4	5	6	7	8	9
1	Water and Land Management Institute Walmi Bhawan, Utrethia, Lucknow	0522-2240309	Nodal officer training	Water Management	Soil conservation and Water management	1	100	300 km from Siddhartha nagar
2	District Rural Development Training Institute, Basti		Asst. Director	Training Institute	Rural Development	2	200	70km from Siddhartha nagar

3	KVK, Siddhartha nagar	<i>KVK, Bhanwapur, Sidd.</i>	Asst. Director	Training Institute	Rural Development	1	50	70 km from Siddhartha nagar
4	Chandra Shekhar Azad University of Agriculture & Technology, Kanpur	0512-2534156	V.C	University	All	-	-	380 km from Siddhartha nagar
5	Narendra Deo Agriculture University, Faizabad		V.C	University	All	-	-	250 km from Siddhartha nagar
6	Central, Soil and Water Conservation research institute, Chalesar, Agra	0562-6544599	Director	Training Institute	IWMP	-	-	550 km from Siddhartha nagar
7	Pt. Deen Dayal Upadhyay Rajya Gram Vikas training intitute, BKT, Lucknow	0521-229829	Director	Training Institute	All Agriculture Topic	-	-	320 km from Siddhartha nagar
8	Institue of Land development and Water resource training centre, Belikala, Lucknow	0522-2238425	D.D.	Training Institute	Land Development and Water Management	-	-	300 km from Siddhartha nagar

## **5.2 Capacity Building**

Capacity building and training are the most important components of watershed management programme both for the field level project staff/ officers and functionaries of people institutions i.e. watershed community. Apart from enhancing technical skill of the project staff, this would also provide opportunities to community members to develop their capacity as the feature custodians of the programmes after project's withdrawal. IWMP 1<sup>st</sup> Siddharthnagar financial outlay for capacity buildings is 5% (Rs. 40.26) of the total project cost, out of which Rs 5.26 will be expanded for initiation of village level institution.

**Table no 5.4 : Capacity Building activities in the project**

S.No.	Project Stakeholders	Total no. of persons	No. of persons trained so far	No. of persons of be trained during current financial year	Sources of funding for training		Name and Address of the Institute where Trained
					a) DoLR	b) any other (pl. specify)	
1	PIAs	8	2	8	<b>DoLR</b>		KVK, GSP,GKSS
2	WDTs	32	12	32	<b>DoLR</b>		KVK, GSP,GKSS
3	UGs	155	52	155	<b>DoLR</b>		KVK, GSP,GKSS
4	SHGs	180	42	180	<b>DoLR</b>		KVK, GSP,GKSS
5	WCs	17	5	17	<b>DoLR</b>		KVK, GSP,GKSS
6	GPs	22	-	22	<b>DoLR</b>		KVK, GSP,GKSS
7	Community	1200	-	1200	<b>DoLR</b>		KVK, GSP,GKSS
8	Others (pl. specify)						

**Table no 5.5: Detail of activities undertaken**

<b>Strategy</b>	<b>Proposed activity</b>	<b>No. of Units</b>	<b>Unit cost</b>	<b>Total Cost</b>
Capacity building Activities	Stakeholders - Scientists Interaction,	15	0.10	1.00
	Training (2 days)	100	0.05	5.00
	Vocational/employment Generation Training (5-10 days)	100	0.10	10.00
	In-service Training. (3 days)	20	0.10	2.00
	Exposure visit within State	5	0.20	1.00
	Exposure visit out of State	6	0.50	3.00
	Field days	25	0.20	5.00
	Workshop	5	0.60	3.00
	<b>Total</b>			<b>30.00</b>

**Table no 5.6 : Information, Education & Communication (IEC) activities in the project area**

<b>S.no.</b>	<b>Activity</b>	<b>Executing agency</b>	<b>Estimated expenditure (Rs.)</b>	<b>Expected Outcome (may quantify wherever possible)</b>
1	Street plays	Local Drama Groups	100000.00	Awareness about importance of watershed project
2	Video Shows	IWMP, Siddharthnagar	100000.00	
3	Pamphlets and Poster	IWMP, Siddharthnagar	100000.00	
4	Banners and Hoardings	IWMP, Siddharthnagar	100000.00	
		<b>Total</b>	<b>400000.00</b>	

## **5.3 WORK PHASE**

### **5.3.1 Soil and moisture conservation**

For soil and moisture conservation, water resource development, horticulture, besides agro forestry vegetation / plantation work, engineering structure have also been proposed under the project. Engineering structure are important components of soil and water conservation that can play a vital role in erosion control on arable land. Engineering measure usually involves in creating mechanical barriers across the direction of flow of water and thus retards or retains runoff on the following principles:

- Increase the time of concentration.
- Break a long slope into short ones.
- Protection of drainage channel against damage.
- Prevent excessive soil and water losses.

### **5.3.2 PROPOSED LAND USE**

Watershed management plan for IWMP-I<sup>st</sup> Siddharthnagar watershed was prepared with specific objectives of food sufficiency and income and employment generation with environment security. In plan preparation due importance was given to topographic, land suitability, irrigation potentially, prevailing farming systems, micro farming situation, farming, farmers preferences and priorities along with economic and environment securities. Crop and tree selection and area distribution was done as per farmers priorities revealed through PRA exercise.

Technological options were blended with the ITK based on the latest available research/ experiment findings for this region. Due attention was given to the resource of the farmers and adjustments were made in capital intensive/high resource demanding technological outputs while making them adoptable to the resource poor farmers. Emphasis was given on maximum use of farm yard manure. The proposed land use plan of the watershed is shown in table.

**Table no. 5.7: Present and proposed land use plan of the IWMP-I<sup>st</sup> watershed**

<b>Table no. 50:</b>			
<b>S.No.</b>	<b>Land use</b>	<b>Present (ha)</b>	<b>Proposed area (ha)</b>
1	Agriculture	8406.57	8476.93
	a. Rain fed	6639.93	6179.92
	i. Crops	6639.93	6179.92
	b. Irrigated	1766.93	2297.01
	i. Assured	653.76	1378.21
	ii. Partial	1113.17	918.80
3	Horticulture (Scattered)	4.65	28.19
4	Agro-forestry	Nil	20.00
5	Waste Land	115.66	195.00
	a. Temporry	70.36	Nil
	c. Untreatable	45.30	45.30
6	b. Pasture	Nil	4.20
7	Forest Land	Nil	123.41
8	Community Land	60.46	60.46
9	Others	300.37	181.90
	<b>Total</b>	<b>8888.00</b>	<b>8888.00</b>

## **5.4 WATER RESOURCE DEVELOPMENT AND SOIL CONSERVATION MEASURES**

### **Status of Present Water Resources Utilization**

The micro watersheds are having four seasonal water bodies on private as well as on community land. Management and maintenance of these water bodies is still in the hand of minor irrigation department. During good rainfall year these water bodies having full of water during kharif season. Before sowing of rabi season crops water from these water bodies is either used for supplementary irrigation for kharif crops or irrigating fields for rabi sowing or allowed to go as waste. After releasing water from bodies, submergence area also put under cultivation for rabi crops.

### **Proposed plan for Irrigation Development of existing water resources**

For efficient utilization of available water resources in the IWMP-I<sup>st</sup> watersheds, present system of irrigation and wastage of water during October-November need to be made more efficient from water management point of view by minimizing conveyance losses in the existing water courses. The up gradation of the existing system of irrigation will result in:

- a. Minimization of conveyance losses
- b. Increase in frequency of irrigation
- c. Adoption of high yielding varieties of crops, and
- d. Assured cultivation of cash Crops
- e. Drinking water problem will also solved
- f. Local eco system will also improved

## 5.2.4 PRODUCTION SYSTEM AND MICRO ENTERPRISES (Financial outlays 10% i.e., Rs. 80.52 lacs)

### **PROPOSED EXTENSION STRATEGIES**

The following feasible extension strategies have been proposed based on the analysis of data collected through PRA & related issues/problems in IWMP 1<sup>st</sup> Siddharthnagar district.

#### **Strategies:**

- A. Improvement of productivity and income of farmers in the existing enterprises and farming system.
- B. Diversification and intensification of existing farming system.
- C. Sustainability in productivity/income.
- D. Integrated nutrient management.
- E. Integrated pest management.
- F. Seed multiplication and replacement.
- G. Horticulture planting material
- H. Success story.
- I. Natural resources management.
- J. Issue for Policy consideration
- K. Farm mechanization.
- L. Marketing & Media strategies.
- M. Human Resource Development.
- N. Farmers Organization.
- O. Public Private Partnership.

A. Improvement of Productivity and income of farmers in the existing enterprises and farming system

**Table no. 5.8: Agriculture Production**

Crop	Critical Gap	Strategic issue	Strategies
1	2	3	4
1. Wheat	Yield stagnation	Use of recommended seed rate, Weed management, Popularizing Seed production programme, Popularizing Organic farming	Demonstration, Exposure visits, Training
	Use of untreated seeds	Encouraging sowing with treated seeds	Demonstration, Exposure visits, Training
	Un judicious use of Irrigation water	Irrigation management	Demonstration, Exposure visits, Training
2. Paddy	Imbalance use of Fertilizer	To promote INM	Demonstration, Soil testing, Exposure visits, - Training
	Un Availability of Quality Seed	Increase seed replacement ratio Promote seed production Programme	Demonstration, Exposure visits, Training
	1. Improper nursery raising	-Raised seed beds	Demonstration, Exposure visits, Training
	2. Inadequate Pest and disease management	Popularization of Integrated pest and disease management	- Demonstration - Exposure visits - Training
	3. Weed management	Populazation of chemical Pesticide	Demonstration, Exposure visits, Training

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>
3..Maize	1. Non adoption of seed treatment	Application of seed treatment	Demonstration, Exposure visits,Training
	2. Excess application of fertilizes	Use of recommended dose of fertilizer	Demonstration, Exposure visits,Training
	3. Use of Micro nutrients	-Use of recommended quantity of micro nutrients	Demonstration, Exposure visits,Training
	4. Non adoption of hand pollination practices	Following hand pollination	Demonstration, Exposure visits,Training
4. Mustard	1. Higher plant population	Popularization of plant population technique per	Demonstration, Exposure visits,Training
	2. Low production	-Suitable agronomical practices will be popularized	Demonstration, Exposure visits,Training
	3. Imbalance use of fertilizer	-Use of balanced fertilizer promote, sulphur	Demonstration, Exposure visits,Training
	4. Pest & disease management	-Adoption of proper pest and disease management practice	Demonstration, Exposure visits,Training
	5. Post harvest technology	Popularization of improved storage method	Demonstration, Exposure visits,Training
5. Lentil	1. Yield stagnation	Timely sown, line sown, seed rate as per recommendation	Demonstration, Exposure visits,Training
	2. Imbalance use of fertilizers	Popularization of phosphatic fertilizer	Demonstration, Exposure visits,Training
	3. Low quantity of F.Y.M.	Use of recommended practice of F.Y.M.	Demonstration, Exposure visits,Training
	4. Inadequate use of sowing techniques	Use of Recommended techniques	Demonstration, Exposure visits, Training
6. Sugarcane	1. Late sowing	-Timely sowing	Demonstration, Exposure visits, Training
	2. Non application of fertilizers	Application of seed treatment	Demonstration, Exposure visits, Training
	3. Excess application of fertilizers	Use of recommended dose of fertilizer, Popularization of recommended dose of F.Y.M./Green Manure	Demonstration, Exposure visits, Training
	4. Use of Micro Nutrients	-Use of recommended quantity of micro nutrients	Demonstration, Exposure visits, Training
	5. Inadequate pest and disease management	- Adoption of IPM/IDM	Demonstration, Exposure visits, Training
	6. Injudicious use of water	-Irrigation management	Demonstration, Exposure visits, Training

**Table no. 5.9: Horticultural Production:-**

(1) Potato	I. Un Identified verities	Popularization of Identified Recommended verities	Demonstration, Exposure visits, Training
	2. No seed treatment	Adoption of recommended seed treatment	Demonstration, Exposure visits, Training
	3. Non use of Micro nutrients	-Application of recommended Micro nutrients	Demonstration, Exposure visits, Training
	4. Non Adoption of pest and disease management	-IDM	Demonstration, Exposure visits, Training
(2) Tomato	1. No seed treatment	Adoption of recommended seed treatment	Demonstration, Exposure visits, Training
	2. Imbalance use of fertilizers	Application of recommended dose of fertilizers	Demonstration, Exposure visits, Training
	3. Low quantity use of F.Y.M.	Adoption of recommended doseOf F.Y.M.	Demonstration, Exposure visits, Training
	4. Inadequate plant protection measure	Popularization of recommended plant protection techniques	Demonstration, Exposure visits, Training
(3) Banana	1. Low quantity use of F.Y.M.	Use of Recommended dose of F.Y.M	Demonstration, Exposure visits, Training
	2. No seed treatment	Popularization of bio agents, <i>Trichoderma</i> and <i>Pseudomonas</i> For seed treatments	Demonstration, Exposure visits, Training
	3. Inadequate plant protection technique	Popularization of plan protectiontechnique	Demonstration, Exposure visits, Training

**Table no. 5.10: ANIMAL HUSBANDRY**

Animal	Critical gap	Strategy	Activities
Cow & Bufallow	a) Artificial Insemination partial adoption of AI	a) Improving knowledge about advantage and disadvantages of AI	a) Awareness campaign b) Ensure the availability of technical staff. c) Ensure the availability of semen f) Conducting fertility improvement camps. g) Conducting camps for castration of scrub bulls at village level h) Providing wide month cry can & 1 Lit. Thermos for easy transportation of semen to remote villages
	b) Unavailable of quality fodder feed.	Improving the knowledge about animal production capacity and its fodder requirement	a) Organizing awareness camp about animal production capacity, its requirements and dairy economics. b) ensure the supply of good quality fodder seeds. c) Demonstration of conservation of fodder by silage making
	c) Minerals & vitamins. Full gap in adoption of feeding	Motivating farmers about importance of minerals & vitamins.	a) Intensify the awareness programmers about importance of feeding minerals & vitamins by promoting stall feeding
	d) Inter-calving period is long period	Awarding about “a calf a year”	a) Awareness camp for reduction calving period
	e) Health care gap in health care management	Providing knowledge about animal health and hygiene	a) organizing awareness programme about animal health & hygiene through trainings and field visits. b) Awareness campaign about animal health camps
	f) General management Partial gap in Adoption of general Management	Technology dissemination about animal management and its importance	a) organizing awareness programme about animal management through training and field visits.
	g) Average milk yield. Full gap in average milk yield.	Technology dissemination about complete dairy management	By providing awareness about complete dairy management
Goat, Goat & Pig, Poultry	a) Breed up gradation	Awareness about feed and fodder management	a) Providing awareness programme through training and field visits. b) Refresher training course to technical
	b) Feed management Partial adoption of feed management	Awareness about feed and fodder management	a) Providing awareness programme about the feed and fodder requirement of the animal. b) Intesify the supply of fodder seeds
	d) Health care -gap in health care management -non adoption of deworming schedule	-Popularizing the importance of deworming. - Providing knowledge about animal health and hygiene	a) awareness camp about importance of deworming b) Conducting deworming comps c) Organizing awareness programme about animal health and hygiene through training and field visit.
	d) General Management - Partial gap in adoption of general management	- Technology dissemination about animal management and its importance	- Organizing awareness programme about animal management through training and field visit

**Table no. 5.11: Fish Production**

1. Fish production	1 Poor ground water resource during summer	Water storage facilities from on going schemes	Linkage with credit institution
	2. Silt & weed problem in existing ponds	Desalting of ponds & eradication of weed	Demonstration, Exposure visits, Training
	3. Improper stocking measures	Promotion of proper stocking measures	Demonstration, Exposure visits, Training
	4. Unawareness about composite fish farming	Creating awareness about composite fish farming	Demonstration, Exposure visits, Training
	5. Improper artificial feeding	Promotion of proper artificial feeding	Demonstration, Exposure visits, Training
	6. Marketing of fish through unorganized sectors	To promote marketing of fish through organized sectors	Demonstration, Exposure visits, Training
	7. Unawareness about cold storage and processing of fish	To create awareness about storing fish in cold storage and process the fish	Demonstration, Exposure visits, Training

## 5.5 Marketing linkage

The direct livelihood activities need good forward and backward support. Without such support system the activities may fail to deliver the desired results. These linkages would involve credit, machinery, input supply, marketing, etc.

**Table no. 5.12: Backward and Forward Linkage**

S. No.	Project	Type of Marketing Facility	Pre-project (no.)	During the project (no.)	Post-project (no.)
1  <i>IWMP I<sup>st</sup></i>	<b>Backward linkages</b>				
	Seed certification	1	1	1	
	Seed supply system	32	34	50	
	Fertilizer supply system	13	20	22	
	Pesticide supply system	8	8	12	
	Credit institutions	Bank-7	Bank-9	Bank-11	
	Water supply	-	-	-	
	Extension services	5	5	14	
	Nurseries	2	2	12	
	Tools/machinery suppliers	-	-	5	
	Price Support system	-	-	6	
	Labour	-	-	-	
	Any other (please specify)	-	-	-	
	<b>Forward linkages</b>				
	Harvesting/threshing machinery	5	9	14	
	Storage (including cold storage)	1	1	4	
	Road network				
	Transport facilities	-	-	-	
	Markets / Mandis	8	9	12	
	Agro and other Industries	1	5	6	
	Milk and other collection centres	-	2	6	
	Labour	-	-	-	
	Hatchery (Portable)	-	5	8	
	Vermi-compost unit	-	2	5	
	Animal Mineral Mixture	-	-	50 gm/day/animal	

**5.6 GRAM PANCHAYAT WISE/ MICROWATERSHED WISE ACTION PLAN FOR WATERSHED DEVELOPMENT WORK, LIVELIHOOD AND PRODUCTION SYSTEM & MICRO-ENTERPRISES**

Micro-Watershed- Khajuriya Sarki 2B1D5d2c

S.No.	Name of Activities	No./ Length/ area ha	GP Name		GP Name		GP Name		GP Name		Rs. Lacs	
			Akarahara		Pakrihawa		Pathardeiya		Rekahat		Total	
			Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost
	<b>1.Watershed Development Work</b>											
	<b>a. Land Development</b>											
1	<b>Afforestation</b>	Ha	5.57	1.34	6.00	1.44	3.42	0.82	0.41	0.10	15.40	3.70
2	<b>Agriculture</b>	Ha	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
3	<b>Pasture</b>	Ha	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	0.00
4	<b>Horticuture</b>	Ha	1.00	0.24	1.79	0.43	1.00	0.24	0.00	0.00	3.79	0.91
	<b>Total</b>		<b>6.57</b>	<b>1.58</b>	<b>7.79</b>	<b>1.87</b>	<b>4.42</b>	<b>1.06</b>	<b>0.41</b>	<b>0.10</b>	<b>19.19</b>	<b>4.61</b>
	<b>b. Soil Moisture Conservation</b>											
1	<b>Field Bunds</b>	Mtr.	19972.00	3.90	28823.00	5.63	12042.00	2.35	4165.00	0.81	65002.00	12.69
2	<b>Contour bunding</b>	Mtr.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	<b>Marginal Bunds</b>	Mtr.	1662.00	1.26	8807.00	6.69	3322.00	2.52	910.00	0.69	14701.00	11.16
4	<b>Peripheral Bunds</b>	Mtr.	985.00	0.75	0.00	0.00	981.00	0.75	0.00	0.00	1966.00	1.50
5	<b>Others / Field Bunding</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	<b>Total</b>		<b>22619.00</b>	<b>5.91</b>	<b>37630.00</b>	<b>12.32</b>	<b>16345.00</b>	<b>5.62</b>	<b>5075.00</b>	<b>1.50</b>	<b>81669.00</b>	<b>25.35</b>
	<b>c. Water Harvesting Structure</b>											
1	<b>Form Ponds</b>	Nos.	3	8.30	2	4.56	2	4.00	1	2.57	8.00	19.43
2	<b>Check dams</b>	Nos.	0	0	0	0	0	0	0	0	0.00	0.00
3	<b>Nallah bunds</b>	Nos.	0	0	0	0	0	0	0	0	0.00	0.00
4	<b>Percolation tanks</b>	Nos.	0	0	0	0	0	0	0	0	0.00	0.00

<b>5</b>	<b>Ground water recharge structures</b>	Nos.	0	0	0	0	0	0	0	0	0.00	0.00
	<b>Total</b>		<b>3</b>	<b>8.30</b>	<b>2</b>	<b>4.56</b>	<b>2</b>	<b>4.00</b>	<b>1</b>	<b>2.57</b>	<b>8.00</b>	<b>19.43</b>
	<b>Grand Total WDW</b>		<b>22628.57</b>	<b>15.79</b>	<b>37639.79</b>	<b>18.75</b>	<b>16351.42</b>	<b>10.68</b>	<b>5076.41</b>	<b>4.17</b>	<b>81696.19</b>	<b>49.39</b>
	<b>Livilihood</b>											
1	<b>Bee Keeping</b>		0	0	0	0	0	0	0	0	0.00	0.00
2	<b>Poultry</b>	Nos.	3	0.75	1	0.25	0.00	0.00	1	0.25	5.00	1.25
3	<b>Fishries</b>	Nos.	2	0.50	1	0.25	1	0.22	1	0.17	5.00	1.14
4	<b>Bio-Fuel Plantation</b>	ha.	0	0	0	0	0	0	0	0	0.00	0.00
5	<b>Others</b>	Nos.	0	0	0	0	0	0	0	0	0.00	0.00
6	<b>Goatry</b>	Nos.	5	1.25	8	2.00	5	1.25	1	0.25	19.00	4.75
7	<b>Piggries</b>	Nos.	0	0	0	0	0	0	0	0	0.00	0.00
8	<b>Candle making</b>	Nos.	0	0	0	0	0	0	0	0	0.00	0.00
9	<b>Sweet Packs</b>	Nos.	0	0	0	0	0	0	0	0	0.00	0.00
10	<b>Dona Pattal</b>	Nos.	0	0	0	0	0	0	0	0	0.00	0.00
11	<b>Sewing</b>	Nos.	1	0.04	2	0.60	1	0.25	0.00	0.00	4.00	0.89
12	<b>Vermi Culture</b>	Nos.	0	0	0	0	0	0	0	0	0.00	0.00
13	<b>Pump set repair</b>	Nos.	0	0	0	0	0	0	0	0	0.00	0.00
14	<b>Carpentry</b>	Nos.	0	0	0	0	0	0	0	0	0.00	0.00
15	<b>Book seller</b>	Nos.	0	0	0	0	0	0	0	0	0.00	0.00
16	<b>Welding(Gas/Electric)</b>	Nos.	0	0	0	0	0	0	0	0	0.00	0.00
	<b>Total</b>	Nos.	<b>11</b>	<b>2.54</b>	<b>12</b>	<b>3.10</b>	<b>7</b>	<b>1.72</b>	<b>3</b>	<b>0.67</b>	<b>33.00</b>	<b>8.03</b>
	<b>Production System &amp; Micro - Enterprises</b>											
	<b>Production system</b>											
	<b>a.Crop Demostration</b>											
1	<b>Wheat</b>	Ha	5.00	0.51	5.00	0.51	5.00	0.51	2.00	0.20	17.00	1.73
2	<b>Paidy</b>	Ha	5.00	0.51	6.25	0.64	3.75	0.38	1.50	0.15	16.50	1.68
3	<b>Mustard</b>	Ha	5.00	0.51	5.25	0.54	3.00	0.31	1.00	0.10	14.25	1.46
4	<b>Vermi Culture</b>	Nos.	0	0	0	0	0	0	0	0	0.00	0.00
5	<b>Bio-Fuel Plantation</b>	Ha	0	0	0	0	0	0	0	0	0.00	0.00
6	<b>Others</b>	Ha	0	0	0	0	0	0	0	0	0.00	0.00
7	<b>Goetry</b>	Nos.	0	0	0	0	0	0	0	0	0.00	0.00
8	<b>Piggries</b>	Nos.	0	0	0	0	0	0	0	0	0.00	0.00
9	<b>Bufallow rearing</b>	Nos.	0	0	0	0	0	0	0	0	0.00	0.00
10	<b>Harticulture</b>	Ha	0	0	0	0	0	0	0	0	0.00	0.00

11	<b>Agro-Horticuture</b>	Ha	0	0	0	0	0	0	0	0.00	0.00
12	<b>Agro-Forestry</b>	Ha	0.75	0.18	1.25	0.30	0	0	0	2.00	0.48
13	<b>Vermi Culture</b>	Nos.	0	0	0	0	0	0	0	0.00	0.00
14	<b>Marigold Cultivation</b>	Ha	0	0	0	0	0	0	0	0.00	0.00
15	<b>Potato Cultivation</b>	Ha	0	0	0	0	0	0	0	0.00	0.00
16	<b>Green Manuring</b>	Ha	2.50	0.05	5.00	0.10	0	0	0	7.50	0.15
	<b>Total</b>		<b>18.25</b>	<b>1.76</b>	<b>22.75</b>	<b>2.09</b>	<b>11.75</b>	<b>1.20</b>	<b>4.50</b>	<b>0.45</b>	<b>57.25</b>
	<b>b. Micro-Enterprises</b>										
1	<b>Mini Dal Machine</b>	Nos.	0	0	0	0	0	0	0	0.00	0.00
2	<b>Dalia Making Machine</b>	Nos.	0	0	0	0	0	0	0	0.00	0.00
3	<b>Rope Making</b>	Nos.	10	0.25	10	0	10	0.25	6	0.15	36.00
4	<b>Pump set repair</b>	Nos.	7	0.53	7	0.53	3	0.22	0	0	17.00
5	<b>Mini floor Machine</b>	Nos.	0	0	0	0	0	0	0	0.00	0.00
6	<b>Dona Pattal</b>	Nos.	0	0	0	0	0	0	0	0.00	0.00
7	<b>Envelop</b>	Nos.	0	0	0	0	0	0	0	0.00	0.00
8	<b>Black Smithy</b>	Nos.	0	0	0	0	0	0	0	0.00	0.00
9	<b>Sweet Packing</b>	Nos.	0	0	6	0.15	2	0.05	2	0.05	10.00
10	<b>Bag making</b>	Nos.	0	0	0	0	0	0	0	0.00	0.00
	<b>Total</b>		<b>17</b>	<b>0.78</b>	<b>23</b>	<b>0.93</b>	<b>15</b>	<b>0.52</b>	<b>8</b>	<b>0.20</b>	<b>63.00</b>
	<b>Grand Total</b>		<b>22674.82</b>	<b>20.87</b>	<b>37697.54</b>	<b>24.87</b>	<b>16385.17</b>	<b>14.12</b>	<b>5091.91</b>	<b>5.49</b>	<b>81849.44</b>
											<b>65.35</b>

**Micro-Watershed- Pakrihawa 2B1D5d2d**

S.No.	Name of Activities	No./ Length/ area ha	GP Name		GP Name		Rs. Lacs	
			Sewara		Khajuriya sarki		Total	
			Quat.	Cost	Quat.	Cost	Quat.	Cost
	<b>1.Watershed Development Work</b>							
	<b>a. Land Development</b>							
1	<b>Afforestation</b>	Ha	2.50	0.60	6.00	1.44	8.5	2.04
2	<b>Agriculture</b>	Ha	0.0	0.0	0.0	0.0	0.0	0.00
3	<b>Pasture</b>	Ha	0.0	0.0	0.0	0.0	0.0	0.00
4	<b>Horticulture</b>	Ha	0.00	0.00	1.50	0.36	1.5	0.36
	<b>Total</b>		<b>2.50</b>	<b>0.60</b>	<b>7.50</b>	<b>1.80</b>	<b>10.0</b>	<b>2.40</b>
	<b>b. Soil Moisture Conservation</b>							
1	<b>Field Bunds</b>	Mtr.	17812.00	3.48	24532.00	4.79	42344.0	8.27
2	<b>Contour bunding</b>	Mtr.	0.00	0.00	0.00	0.00	0.0	0.00
3	<b>Marginal Bunds</b>	Mtr.	6145.00	4.67	5298.00	4.03	11443.0	8.70
4	<b>Peripheral Bunds</b>	Mtr.	2113.00	1.60	10817.00	8.22	12930.0	9.82
5	<b>Others / Field Bunding</b>	Mtr.	0.00	0.00	0.00	0.00	0.0	0.00
	<b>Total</b>			<b>9.75</b>		<b>17.04</b>	<b>0.0</b>	<b>26.79</b>
	<b>c. Water Harvesting Structure</b>							
1	<b>Form Ponds</b>	Nos.	0.00	0.00	1	2.03	1.0	2.03
2	<b>Check dams</b>	Nos.	1.00	1.34	2.00	5.00	3.0	6.34
3	<b>Nallah bunds</b>	Nos.	0	0	0	0	0.0	0.00
4	<b>Percolation tanks</b>	Nos.	0	0	0	0	0.0	0.00
5	<b>Ground water recharge structures</b>	Nos.	0	0	0	0	0.0	0.00
	<b>Total</b>			<b>1</b>	<b>1.34</b>	<b>3</b>	<b>7.03</b>	<b>4.0</b>
								<b>8.37</b>

<b>Grand Total WDW</b>			<b>3.50</b>	<b>11.69</b>	<b>10.50</b>	<b>25.87</b>	<b>14.00</b>	<b>37.56</b>
<b>Livilihood</b>								
1	<b>Bee Keeping</b>	Nos.	0	0	0	0	0.0	0.00
2	<b>Poultry</b>	Nos.	2	0.50	0.00	0.00	2.0	0.50
3	<b>Fisheries</b>	Nos.	1.00	0.25	2.00	0.50	3.0	0.75
4	<b>Bio-Fuel Plantation</b>	ha.	0	0	0	0	0.0	0.00
5	<b>Others</b>	Nos.	0	0	0	0	0.0	0.00
6	<b>Goatry</b>	Nos.	3.00	0.75	12.00	3.00	15.0	3.75
7	<b>Piggries</b>	Nos.	0	0	0	0	0.0	0.00
8	<b>Candle making</b>	Nos.	0	0	0	0	0.0	0.00
9	<b>Sweet Packs</b>	Nos.	0	0	0	0	0.0	0.00
10	<b>Dona Patal</b>	Nos.	0	0	0	0	0.0	0.00
11	<b>Sewing</b>	Nos.	1.00	0.25	2.00	0.50	3.0	0.75
12	<b>Vermi Culture</b>	Nos.	0.00	0.00	1.00	0.10	1.0	0.10
13	<b>Pump Set Repair</b>	Nos.	1.00	0.13	1.00	0.06	2.0	0.19
14	<b>Carpentry</b>	Nos.	0	0	0	0	0.0	0.00
15	<b>Book seller</b>	Nos.	0	0	0	0	0.0	0.00
16	<b>Welding(Gas/Electric)</b>	Nos.	0	0	0	0	0.0	0.00
	<b>Total</b>	Nos.	<b>8</b>	<b>2</b>	<b>18</b>	<b>4</b>	<b>26.0</b>	<b>6.04</b>
<b>Production System &amp; Micro - Enterprices</b>								
	<b>Production system</b>							
	<b>a.Crop Demostration</b>							
1	<b>Wheat</b>	Ha.	5	0.51	10	1.02	15.0	1.53
2	<b>Paidy</b>	Ha.	3.75	0.38	7.5	0.76	11.3	1.14
3	<b>Mustard</b>	Ha.	3	0.31	6	0.62	9.0	0.93
4	<b>Vermi Culture</b>	Nos.	0	0	0	0	0.0	0.00
5	<b>Bio-Fuel Plantation</b>	Ha.	0	0	0	0	0.0	0.00

6	<b>Others</b>	Ha.	0	0	0	0	0.0	0.00
7	<b>Goatry</b>	Nos.	0	0	0	0	0.0	0.00
8	<b>Piggries</b>	Nos.	0	0	0	0	0.0	0.00
9	<b>Bufallow rearing</b>	Nos.	0	0	0	0	0.0	0.00
10	<b>Harticulture</b>	Ha.	0	0	0	0	0.0	0.00
11	<b>Agro-Harticulture</b>	Ha.	0	0	0	0	0.0	0.00
12	<b>Agro-Forestry</b>	Ha.	0	0	1.25	0.3	1.3	0.30
13	<b>Vermi Culture</b>	Nos.	0	0	0	0	0.0	0.00
14	<b>Marigold Cultivation</b>	Ha.	0	0	0	0	0.0	0.00
15	<b>Potato Cultivation</b>	Ha.	0	0	0	0	0.0	0.00
16	<b>Green Manuring</b>	Ha.	5	0.1	10	0.2	15.0	0.30
	<b>Total</b>		<b>16.75</b>	<b>1.3</b>	<b>34.75</b>	<b>2.9</b>	<b>51.5</b>	<b>4.20</b>
	<b>b. Micro-Enterprises</b>							
1	<b>Mini Dal Machine</b>	Nos.	0	0	0	0	0.0	0.00
2	<b>Dalia Making Machine</b>	Nos.	0	0	0	0	0.0	0.00
3	<b>Rope Making</b>	Nos.	10	0.25	20	0.5	30.0	0.75
4	<b>Pump Set Repair</b>	Nos.	3	0.23	9	0.66	12.0	0.89
5	<b>Mini floor Machine</b>	Nos.	0	0	0	0	0.0	0.00
6	<b>Dona Pattal</b>	Nos.	0	0	0	0	0.0	0.00
7	<b>Envelop</b>	Nos.	0	0	0	0	0.0	0.00
8	<b>Black Smithy</b>	Nos.	0	0	0	0	0.0	0.00
9	<b>Sweet Packs</b>	Nos.	4	0.1	4	0.1	8.0	0.20
10	<b>Bag making</b>	Nos.	0	0	0	0	0.0	0.00
11	<b>Total</b>	Nos.	<b>17</b>	<b>0.58</b>	<b>33</b>	<b>1.26</b>	<b>50.0</b>	<b>1.84</b>
	<b>Grand Total</b>		<b>45.25</b>	<b>15.45</b>	<b>96.25</b>	<b>34.19</b>	<b>141.50</b>	<b>49.64</b>

**Micro-Watershed- Dekehari Bujurh 2B1D5d2e**

S.No.	Name of Activities	Unit No./Length/ area ha	GP Name		GP Name		GP Name		GP Name		GP Name		Rs. Lacs	
			Bairibaha		Jagadhara		Dhekehari Bujurg		Khurhuriya		Parsa		Total	
			Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost
	<b>1.Watershed Development Work</b>													
	<b>a. Land Development</b>													
<b>1</b>	<b>Afforestation</b>	Ha	6.00	1.44	2.50	0.60	0.50	0.12	6.00	1.44	8.00	1.92	23.00	5.52
<b>2</b>	<b>Agriculture</b>	Ha	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.00	0.00
<b>3</b>	<b>Pasture</b>	Ha	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0.00	0.00
<b>4</b>	<b>Harticulture</b>	Ha	1.80	0.43	0.80	0.20	0.00	0.00	1.00	0.24	2.50	0.60	6.10	1.47
	<b>Total</b>		<b>7.80</b>	<b>1.87</b>	<b>3.30</b>	<b>0.80</b>	<b>0.50</b>	<b>0.12</b>	<b>7.00</b>	<b>1.68</b>	<b>10.50</b>	<b>2.52</b>	<b>29.10</b>	<b>6.99</b>
	<b>b. Soil Moisture Conservation</b>													
<b>1</b>	<b>Field Bunds</b>	Mtr	15449.00	3.02	15115.00	2.95	3789.00	0.75	23767.00	4.64	0	0	58120.00	11.36
<b>2</b>	<b>Contour bunding</b>	Mtr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00
<b>3</b>	<b>Marginal Bunds</b>	Mtr	9393.00	7.14	3646.00	2.77	0.00	0.00	5648.00	4.29	0	0	18687.00	14.20
<b>4</b>	<b>Peripheral Bunds</b>	Mtr	0.00	0.00	407.00	0.31	0.00	0.00	1689.00	1.28	0	0	2096.00	1.59
<b>5</b>	<b>Others / Field Bunding</b>		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00	0.00
	<b>Total</b>			<b>10.16</b>		<b>6.03</b>		<b>0.75</b>		<b>10.21</b>	<b>0</b>	<b>0</b>	0.00	27.15
	<b>c. Water Harvesting Structure</b>												0.00	0.00
<b>1</b>	<b>Form Ponds</b>	Nos.	2	6.85	0	0	0	0	2	5.38	0	0	4.00	12.23
<b>2</b>	<b>Gully plugs/CD</b>	Nos.	0.00	0.00	2.00	4.73	0	0	0	0	0	0	2.00	4.73

<b>3</b>	<b>Nallah bunds</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>4</b>	<b>Percolation tanks</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>5</b>	<b>Ground water recharge structures</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
	<b>Total</b>		<b>2</b>	<b>6.85</b>	<b>2</b>	<b>4.73</b>	<b>0.00</b>	<b>0</b>	<b>2.00</b>	<b>5.38</b>	<b>0</b>	<b>0</b>	<b>6.00</b>	<b>16.96</b>
	<b>Grand Total WDW</b>		<b>9.80</b>	<b>18.88</b>	<b>5.30</b>	<b>11.56</b>	<b>0.50</b>	<b>0.87</b>	<b>9.00</b>	<b>17.27</b>	<b>10.50</b>	<b>2.52</b>	<b>35.10</b>	<b>51.10</b>
	<b>Livilihood</b>													
<b>1</b>	<b>Bee Keeping</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>2</b>	<b>Poultry</b>	Nos.	2	0.50	2	0.50	0	0	0	0	0	0	4.00	1.00
<b>3</b>	<b>Fisheries</b>	Nos.	2.00	0.50	2.00	0.50	1.00	0.14	2.00	0.50	2.00	0.50	9.00	2.14
<b>4</b>	<b>Bio-Fuel Plantation</b>	ha.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>5</b>	<b>Others</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>6</b>	<b>Goatry</b>	Nos.	6.00	1.50	3.00	0.75	0.00	0.00	6.00	1.50	8.00	2.00	23.00	5.75
<b>7</b>	<b>Piggries</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>8</b>	<b>Candle making</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>9</b>	<b>Sweet Packs</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>10</b>	<b>Dona Pattal</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>11</b>	<b>Sewing</b>	Nos.	2.00	0.5	1.00	0.035	0.00	0	3.00	0.75	3.00	0.69	9.00	1.98
<b>12</b>	<b>Vermi Culture</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>13</b>	<b>Pump set repair</b>	Nos.	1.00	0.03	1.00	0.075	0.00	0	1.00	0.03	0	0	3.00	0.14
<b>14</b>	<b>Carpentry</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>15</b>	<b>Book seller</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>16</b>	<b>Welding(Gas/Electric)</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
	<b>Total</b>		<b>13.00</b>	<b>3.03</b>	<b>9.00</b>	<b>1.86</b>	<b>1.00</b>	<b>0.14</b>	<b>12.00</b>	<b>2.78</b>	<b>13</b>	<b>3</b>	<b>48.00</b>	<b>11.00</b>
	<b>Production System &amp; Micro - Enterprices</b>													
	<b>Production system</b>													
	<b>a.Crop Demostration</b>													
<b>1</b>	<b>Wheat</b>	Ha	5.00	0.50	5.00	0.51	0.50	0.05	5.00	0.51	10.00	1.02	25.50	2.59
<b>2</b>	<b>Paidy</b>	Ha	6.25	0.63	3.75	0.38	0.50	0.05	3.75	0.38	7.50	0.70	21.75	2.14

3	<b>Mustard</b>	Ha	5.25	0.53	3.00	0.31	0	0	0	0	6.00	0.62	14.25	1.46
4	<b>Vermi Culture</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
5	<b>Bio-Fuel Plantation</b>	Ha	0	0	0	0	0	0	0	0	0	0	0.00	0.00
6	<b>Others</b>	Ha	0	0	0	0	0	0	0	0	0	0	0.00	0.00
7	<b>Goetry</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
8	<b>Piggries</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
9	<b>Bufallow rearing</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
10	<b>Harticulture</b>	Ha	0	0	0	0	0	0	0	0	0	0	0.00	0.00
11	<b>Agro-Harticulture</b>	Ha	0	0	0	0	0	0	0	0	0	0	0.00	0.00
12	<b>Agro-Forestry</b>	Ha	1.25	0.29	0.00	0.00	0.00	0.00	3.75	0.90	1.25	0.30	6.25	1.49
13	<b>Vermi Culture</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
14	<b>Marigold Cultivation</b>	Ha	0	0	0	0	0	0	0	0	0	0	0.00	0.00
15	<b>Potato Cultivation</b>	Ha	0	0	0	0	0	0	0	0	0	0	0.00	0.00
16	<b>Green Manuring</b>	Ha	7.50	0.15	5.00	0.10	0.00	0.00	7.50	0.15	10.00	0.20	30.00	0.60
	<b>Total</b>		<b>25.25</b>	<b>2.10</b>	<b>16.75</b>	<b>1.30</b>	<b>1.00</b>	<b>0.10</b>	<b>20.00</b>	<b>1.94</b>	<b>34.75</b>	<b>2.84</b>	<b>97.75</b>	<b>8.28</b>
	<b>b. Micro-Enterprises</b>													
1	<b>Mini Dal Machine</b>	No.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2	<b>Dalia Making Machine</b>	No.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
3	<b>Rope Making</b>	No.	10	0.25	10	0.25	0	0.00	10	0.25	20	0.50	50.00	1.25
4	<b>Pump set repair</b>	No.	7	0.52	3	0.23	0	0.00	7	0.53	9	0.66	26.00	1.94
5	<b>Mini floor Machine</b>	No.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
6	<b>Dona Pattal</b>	No.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
7	<b>Envelop</b>	No.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
8	<b>Black Smithy</b>	No.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
9	<b>Sweet Packs</b>	No.	6	0.15	3	0.07	2	0.05	2	0.05	5	0.13	18.00	0.45
10	<b>Bag making</b>	No.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
	<b>Total</b>		<b>23</b>	<b>0.92</b>	<b>16</b>	<b>0.55</b>	<b>2</b>	<b>0.05</b>	<b>19</b>	<b>0.83</b>	<b>34</b>	<b>1.29</b>	<b>94.00</b>	<b>3.64</b>
	<b>Grand Total</b>		<b>71.05</b>	<b>24.93</b>	<b>47.05</b>	<b>15.27</b>	<b>4.50</b>	<b>1.16</b>	<b>60.00</b>	<b>22.82</b>	<b>92.25</b>	<b>9.84</b>	<b>274.85</b>	<b>74.02</b>

### Micro-Watershed - Dhrugar 2B1D5d2f

S.No.	Name of Activities	Unit No./ Length/ area ha	GP Name		GP Name		GP Name		GP Name		GP Name		Rs. Lacs	
			Gharayar		Dhekri Khurd		Kalyan nagar		Jiya Bhari		Malgahiya		Total	
			Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost
	<b>1.Watershed Development Work</b>													
	<b>a. Land Development</b>													
<b>1</b>	<b>Afforestation</b>	Ha	5.00	1.20	0.00	0.00	6.00	1.44	0.00	0.00	4.00	0.96	15.00	3.60
<b>2</b>	<b>Agriculture</b>	Ha	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>3</b>	<b>Pasture</b>	Ha	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>4</b>	<b>Horticulture</b>	Ha	1.25	0.30	0.00	0.00	1.80	0.43	0.00	0.00	1.00	0.24	4.05	0.97
	<b>Total</b>	Ha	<b>6.25</b>	<b>1.50</b>	<b>0.00</b>	<b>0.00</b>	<b>7.80</b>	<b>1.87</b>	<b>0.00</b>	<b>0.00</b>	<b>5.00</b>	<b>1.20</b>	<b>19.05</b>	<b>4.57</b>
	<b>b. Soil Moisture Conservation</b>													
<b>1</b>	<b>Field Bunds</b>	Mtr.	15881	3.1	5498	1.07	21273	4.15	10073	1.97	8628	1.68	61353.00	11.97
<b>2</b>	<b>Contour bunding</b>	Mtr.	95	0.03	0	0	221	0.07	518	0.16	2355	0.74	3189.00	1.00
<b>3</b>	<b>Marginal Bunds</b>	Mtr.	15654	11.89	3620	2.75	2265	1.72	2730	2.07	3664	2.83	27933.00	21.26
<b>4</b>	<b>Peripheral Bunds</b>	Mtr.	0	0	0	0	1307	0.99	0	0	0	0	1307.00	0.99
<b>5</b>	<b>Others / Field Bunding</b>			0	0	0	0	0	0	0	0	0	0.00	0.00
	<b>Total</b>			<b>15.02</b>		<b>3.82</b>		<b>6.93</b>		<b>4.2</b>		<b>5.25</b>	<b>0.00</b>	<b>35.22</b>
	<b>c. Water Harvesting Structure</b>													
<b>1</b>	<b>Form Ponds</b>	Nos.	2	4.18	1	1.82	3	9.88	2	3.73	2	5.78	10.00	25.39
<b>2</b>	<b>Gully plugs</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>3</b>	<b>Nallah bunds</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>4</b>	<b>Percolation tanks</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>5</b>	<b>Ground water recharge structures</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00

	<b>Total</b>		<b>2</b>	<b>4.18</b>	<b>1</b>	<b>1.82</b>	<b>3</b>	<b>9.88</b>	<b>2</b>	<b>3.73</b>	<b>2</b>	<b>5.78</b>	<b>10.00</b>	<b>25.39</b>
	<b>Grand Total WDW</b>		<b>8.25</b>	<b>20.70</b>	<b>1.00</b>	<b>5.64</b>	<b>10.80</b>	<b>18.68</b>	<b>2.00</b>	<b>7.93</b>	<b>7.00</b>	<b>12.23</b>	<b>29.05</b>	<b>65.18</b>
	<b>Livilihood</b>													
<b>1</b>	<b>Bee Keeping</b>	Nos.												
<b>2</b>	<b>Poultry</b>	Nos.	0	0	0	0	0	0	1	0.25	2	0.5	3.00	0.75
<b>3</b>	<b>Fishries</b>	Nos.	2	0.5	1	0.25	1	0.25	1	0.25	1	0.25	6.00	1.50
<b>4</b>	<b>Bio-Fuel Plantation</b>	ha.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>5</b>	<b>Others</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>6</b>	<b>Goatry</b>	Nos.	10	2.5	2	0.5	9	2.25	3	0.75	4	1	28.00	7.00
<b>7</b>	<b>Piggries</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>8</b>	<b>Candle making</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>9</b>	<b>Sweet Packs</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>10</b>	<b>Dona Pattal</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>11</b>	<b>Sewing</b>	Nos.	1	0.25	1	0.16	2	0.5	1	0.02	1	0.22	6.00	1.15
<b>12</b>	<b>Vermi Culture</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>13</b>	<b>Pump set repair</b>	Nos.	1	0.08	0	0	0	0	0	0	0	0	1.00	0.08
<b>14</b>	<b>Carpentry</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>15</b>	<b>Book seller</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>16</b>	<b>Welding(Gas/Electric)</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
	<b>Total</b>	Nos.	<b>14</b>	<b>3.33</b>	<b>4</b>	<b>0.91</b>	<b>12</b>	<b>3</b>	<b>5</b>	<b>1.02</b>	<b>6</b>	<b>1.47</b>	<b>41.00</b>	<b>9.73</b>
	<b>Production System &amp; Micro - Enterprices</b>													
	<b>Production system</b>													
	<b>a.Crop Demostration</b>													
<b>1</b>	<b>Wheat</b>	Ha.	7.5	0.76	3	0.31	5	0.51	4	0.4	5	0.51	24.50	2.49
<b>2</b>	<b>Paidy</b>	Ha.	6.25	0.63	1.5	0.15	6.25	0.64	3	0.3	3.75	0.38	20.75	2.10
<b>3</b>	<b>Mustard</b>	Ha.	5	0.51	1.65	0.17	5.25	0.54	2	0.2	3.5	0.36	17.40	1.78
<b>4</b>	<b>Vermi Culture</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>5</b>	<b>Bio-Fuel Plantation</b>	Ha.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>6</b>	<b>Others</b>	Ha.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>7</b>	<b>Goetry</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>8</b>	<b>Piggries</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>9</b>	<b>Bufallow rearing</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>10</b>	<b>Harticulture</b>	Ha.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>11</b>	<b>Agro-Harticulture</b>	Ha.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
<b>12</b>	<b>Agro-Forestry</b>	Ha.	1.25	0.29	0	0	1.25	0.3	0	0	0	0	2.50	0.59
<b>13</b>	<b>Vermi Culture</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00

14	<b>Marigold Cultivation</b>	Ha.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
15	<b>Potato Cultivation</b>	Ha.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
16	<b>Green Manuring</b>	Ha.	7.5	0.15	0	0	5	0.1	0	0	5	0.1	17.50	0.35
	<b>Total</b>		<b>27.5</b>	<b>2.34</b>	<b>6.15</b>	<b>0.63</b>	<b>22.75</b>	<b>2.09</b>	<b>9</b>	<b>0.9</b>	<b>17.25</b>	<b>1.35</b>	<b>82.65</b>	<b>7.31</b>
	<b>b. Micro-Enterprises</b>													
1	<b>Mini Dal Machine</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
2	<b>Dalia Making Machine</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
3	<b>Rope Making</b>	Nos.	20	0.5	4	0.1	10	0.25	2	0.05	11	0.28	47.00	1.18
4	<b>Pump set repair</b>	Nos.	4	0.3	2	0.15	7	0.52	3	0.23	3	0.23	19.00	1.43
5	<b>Mini floor Machine</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
6	<b>Dona Pattal</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
7	<b>Envelop</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
8	<b>Black Smithy</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
9	<b>Sweet Packs</b>	Nos.	8	0.2	1	0.03	6	0.14	4	0.1	4	0.1	23.00	0.57
10	<b>Bag making</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	0.00
	<b>Total</b>		<b>32</b>	<b>1</b>	<b>7</b>	<b>0.28</b>	<b>23</b>	<b>0.91</b>	<b>9</b>	<b>0.38</b>	<b>18</b>	<b>0.61</b>	<b>89.00</b>	<b>3.18</b>
	<b>Grand Total</b>		<b>81.75</b>	<b>27.37</b>	<b>18.15</b>	<b>7.46</b>	<b>68.55</b>	<b>24.68</b>	<b>25.00</b>	<b>10.23</b>	<b>48.25</b>	<b>15.66</b>	<b>241.70</b>	<b>85.40</b>

**Micro-Watershed- Deburua Khas 2B1D5d3a**

S.No.	Name of Activities	No./ Length/ area ha	GP Name		GP Name		GP Name		Rs. Lacs	
			Aurahana		Debaran Khas		Tal Kunda		Total	
			Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost
	<b>1.Watershed Development Work</b>									
	<b>a. Land Development</b>									
1	<b>Afforestation</b>	Ha	4.00	0.96	4.00	0.96	10.00	2.40	18.00	4.32
2	<b>Agriculture</b>	Ha	0	0	0	0	0	0	0.00	0.00
3	<b>Pasture</b>	Ha	0	0	0	0	0	0	0.00	0.00
4	<b>Harticulture</b>	Ha	1.00	0.24	1.00	0.24	2.00	0.48	4.00	0.96
	<b>Total</b>	Ha	<b>5.00</b>	<b>1.20</b>	<b>5.00</b>	<b>1.20</b>	<b>12.00</b>	<b>2.88</b>	<b>22.00</b>	<b>5.28</b>
	<b>b. Soil Moisture Conservation</b>									
1	<b>Field Bunds</b>	Mtr.	20243	3.95	19927	3.89	39881	7.79	80051.00	15.63
2	<b>Contour bunding</b>	Mtr.	1212	0.38	1918	0.6	4935	1.55	8065.00	2.53
3	<b>Marginal Bunds</b>	Mtr.	2369	1.8	6412	4.87	11416	8.67	20197.00	15.34
4	<b>Peripheral Bunds</b>	Mtr.	1191	0.91	3990	3.03	0	0	5181.00	3.94
5	<b>Others / Field Bunding</b>		0	0	0	0	0	0	0.00	0.00
	<b>Total</b>			<b>7.04</b>		<b>12.39</b>		<b>18.01</b>	<b>0.00</b>	<b>37.44</b>
	<b>c. Water Harvesting Structure</b>									
1	<b>Form Ponds</b>	Nos.	2	3.92	2	4.28	3	8.54	7.00	16.74
2	<b>Gully plugs</b>	Nos.	0	0	0	0	0	0.00	0.00	0.00
3	<b>Nallah bunds</b>	Nos.	0	0	0	0	0	0.00	0.00	0.00

<b>4</b>	<b>Percolation tanks</b>	Nos.	0	0	0	0	0	0.00	0.00
<b>5</b>	<b>Ground water recharge structures</b>	Nos.	0	0	0	0	0	0.00	0.00
	<b>Total</b>		<b>2</b>	<b>3.92</b>	<b>2</b>	<b>4.28</b>	<b>3</b>	<b>8.54</b>	<b>7.00</b>
	<b>Grand Total WDW</b>		<b>7.00</b>	<b>12.16</b>	<b>7.00</b>	<b>17.87</b>	<b>15.00</b>	<b>29.43</b>	<b>29.00</b>
	<b>Livilihood</b>								
2	<b>Bee Keeping</b>	Nos.	0	0	0	0	0	0.00	0.00
3	<b>Poultry</b>	Nos.	2	0.50	3	0.75	3	0.75	8.00
4	<b>Fishries</b>	Nos.	1	0.25	1	0.5	2	0.5	4.00
5	<b>Bio-Fuel Plantation</b>	ha.	0	0	0	0	0	0.00	0.00
6	<b>Others</b>	Nos.	0	0	0	0	0	0.00	0.00
a	<b>Goatry</b>	Nos.	4	1	5	1.25	12	3	21.00
b	<b>Piggries</b>	Nos.	0	0	0	0	0	0.00	0.00
c	<b>Candle making</b>	Nos.	0	0	0	0	0	0.00	0.00
d	<b>Sweet Packs</b>	Nos.	0	0	0	0	0	0.00	0.00
e	<b>Dona Pattal</b>	Nos.	0	0	0	0	0	0.00	0.00
f	<b>Sewing</b>	Nos.	1	0.2	1	0.18	2	0.48	4.00
g	<b>Vermi Culture</b>	Nos.	0	0	0	0	0	0.00	0.00
h	<b>Pump set repair</b>	Nos.	0	0	0	0	0	0.00	0.00
i	<b>Carpentry</b>	Nos.	0	0	0	0	0	0.00	0.00
j	<b>Book seller</b>	Nos.	0	0	0	0	0	0.00	0.00
k	<b>Welding(Gas/Electric)</b>	Nos.	0	0	0	0	0	0.00	0.00
	<b>Total</b>		<b>8</b>	<b>1.95</b>	<b>10</b>	<b>2.68</b>	<b>19</b>	<b>4.73</b>	<b>37.00</b>
	<b>Production System &amp; Micro - Enterprices</b>								
	<b>Production system</b>								
	<b>a.Crop Demostration</b>								

1	<b>Wheat</b>	Ha.	5	0.51	5	0.51	15	1.53	25.00	2.55
2	<b>Paidy</b>	Ha.	3.75	0.38	5	0.51	11.25	1.14	20.00	2.03
3	<b>Mustard</b>	Ha.	3.5	0.36	5	0.51	3	0.31	11.50	1.18
4	<b>Vermi Culture</b>	Nos.	0	0	0	0	0	0	0.00	0.00
5	<b>Bio-Fuel Plantation</b>	Ha.	0	0	0	0	0	0	0.00	0.00
6	<b>Others</b>	Ha.	0	0	0	0	0	0	0.00	0.00
7	<b>Goetry</b>	Nos.	0	0	0	0	0	0	0.00	0.00
8	<b>Piggries</b>	Nos.	0	0	0	0	0	0	0.00	0.00
9	<b>Bufallow rearing</b>	Nos.	0	0	0	0	0	0	0.00	0.00
10	<b>Harticulture</b>	Ha.	0	0	0	0	0	0	0.00	0.00
11	<b>Agro-Harticulture</b>	Ha.	0	0	0	0	0	0	0.00	0.00
12	<b>Agro-Forestry</b>	Ha.	0	0	1.25	0.3	1.4	0.34	2.65	0.64
13	<b>Vermi Culture</b>	Nos.	0	0	0	0	0	0	0.00	0.00
14	<b>Marigold Cultivation</b>	Ha.	0	0	0	0	0	0	0.00	0.00
15	<b>Potato Cultivation</b>	Ha.	0	0	0	0	0	0	0.00	0.00
16	<b>Green Manuring</b>	Ha.	5	0.1	2.5	0.05	0	0	7.50	0.15
	<b>Total</b>		<b>17.25</b>	<b>1.35</b>	<b>18.75</b>	<b>1.88</b>	<b>30.65</b>	<b>3.32</b>	<b>66.65</b>	<b>6.55</b>
	<b>b. Micro-Enterprises</b>									
1	<b>Mini Dal Machine</b>	Nos.	0	0	0	0	0	0	0.00	0.00
2	<b>Dalia Making Machine</b>	Nos.	0	0	0	0	0	0	0.00	0.00
3	<b>Rope Making</b>	Nos.	18	0.45	24	0.6	20	0.5	62.00	1.55
4	<b>Pump set repair</b>	Nos.	0	0	0	0	9	0.66	9.00	0.66
5	<b>Mini floor Machine</b>	Nos.	0	0	0	0	0	0	0.00	0.00
6	<b>Dona Pattal</b>	Nos.	0	0	0	0	0	0	0.00	0.00
7	<b>Envelop</b>	Nos.	0	0	0	0	0	0	0.00	0.00
8	<b>Black Smithy</b>	Nos.	0	0	0	0	0	0	0.00	0.00

9	<b>Sweet Packs</b>	Nos.	6	0.15	8	0.2	10	0.25	24.00	0.60
10	<b>Bag making</b>	Nos.	0	0	0	0	0	0	0.00	0.00
	<b>Total</b>		<b>24</b>	<b>0.6</b>	<b>32</b>	<b>0.8</b>	<b>39</b>	<b>1.41</b>	<b>95.00</b>	<b>2.81</b>
	<b>Grand Total</b>		<b>56.25</b>	<b>16.06</b>	<b>67.75</b>	<b>23.23</b>	<b>103.65</b>	<b>38.89</b>	<b>227.65</b>	<b>78.18</b>

### Micro-Watershed- Bhanpur 2B1D5d3b

S.No.	Name of Activities	No./ Length/ area ha	GP Name		GP Name		GP Name		GP Name		Rs. Lacs	
			Bhanpur		Bargadana		Dudhwniya		Majehna		Total	
			Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost
	<b>1.Watershed Development Work</b>											
	<b>a. Land Development</b>											
1	Afforestation	Ha	7.00	1.68	4.0	0.96	0.50	0.12	2.0	0.48	13.5	3.24
2	Agriculture	Ha	0	0	0	0	0	0	0	0	0.0	0.00
3	Pasture	Ha	0	0	0	0	0	0	0	0	0.0	0.00
4	Horticulture	Ha	1.50	0.36	0.25	0.06	0	0	0.5	0.13	2.3	0.55
	<b>Total</b>	Ha	<b>8.50</b>	<b>2.04</b>	<b>4.3</b>	<b>1.02</b>	<b>0.50</b>	<b>0.12</b>	<b>2.5</b>	<b>0.61</b>	<b>15.8</b>	<b>3.79</b>
	<b>b. Soil Moisture Conservation</b>											
1	Field Bunds	Mtr.	38099	7.44	20263	3.96	10543	2.06	16673	3.26	85578.0	16.72
2	Contour bunding	Mtr.	3193	1	917	0.29	261	0.08	0	0	4371.0	1.37
3	Marginal Bunds	Mtr.	9007	6.84	4160	3.16	4184	3.18	3145	2.39	20496.0	15.57
4	Peripheral Bunds	Mtr.	4957	3.71	5934	4.51	0	0	4936	3.75	15827.0	11.97
5	Others / Field Bunding	Mtr.	0	0	0	0	0	0	0	0	0.0	0.00
	<b>Total</b>			<b>18.99</b>		<b>11.92</b>		<b>5.32</b>		<b>9.40</b>	<b>0.0</b>	<b>45.63</b>
	<b>c. Water Harvesting Structure</b>											
1	Form Ponds	Nos.	3	7.93	2	4.73	1	2.15	0	0	6.0	14.81
2	Gully plugs	Nos.	0	0	0	0	0	0	0	0	0.0	0.00
3	Nallah bunds	Nos.	0	0	0	0	0	0	0	0	0.0	0.00

<b>4</b>	<b>Percolation tanks</b>	Nos.	0	0	0	0	0	0	0	0.0	0.00	
<b>5</b>	<b>Ground water recharge structures</b>	Nos.	0	0	0	0	0	0	0	0.0	0.00	
	<b>Total</b>		<b>3</b>	<b>7.93</b>	<b>2</b>	<b>4.73</b>	<b>1</b>	<b>2.15</b>	<b>0</b>	<b>0</b>	<b>6.0</b>	<b>14.81</b>
	<b>Grand Total WDW</b>		<b>11.50</b>	<b>28.96</b>	<b>6.25</b>	<b>17.67</b>	<b>1.50</b>	<b>7.59</b>	<b>2.50</b>	<b>10.01</b>	<b>21.75</b>	<b>64.23</b>
	<b>Livilihood</b>											
<b>1</b>	<b>Bee Keeping</b>	Nos.										
<b>2</b>	<b>Poultry</b>	Nos.	2	0.50	3	0.75	1	0.25	0	0	6.0	1.50
<b>3</b>	<b>Fisheries</b>	Nos.	2	0.5	1	0.25	1	0.25	1	0.25	5.0	1.25
<b>4</b>	<b>Bio-Fuel Plantation</b>	ha.	0	0	0	0	0	0	0	0	0.0	
<b>5</b>	<b>Others</b>	Nos.	0	0	0	0	0	0	0	0	0.00	
<b>6</b>	<b>Goatry</b>	Nos.	12	3	6	1.5	2	0.5	5	1.25	25.0	6.25
<b>7</b>	<b>Piggries</b>	Nos.	0	0	0	0	0	0	0	0	0.0	0.00
<b>8</b>	<b>Candle making</b>	Nos.	0	0	0	0	0	0	0	0	0.0	0.00
<b>9</b>	<b>Sweet Packs</b>	Nos.	0	0	0	0	0	0	0	0	0.0	0.00
<b>10</b>	<b>Dona Pattal</b>	Nos.	0	0	0	0	0	0	0	0	0.0	0.00
<b>11</b>	<b>Sewing</b>	Nos.	2	0.5	2	0.34	1	0.22	1	0.11	6.0	1.17
<b>12</b>	<b>Vermi Culture</b>	Nos.	0	0	0	0	0	0	0	0	0.0	0.00
<b>13</b>	<b>Pump set repair</b>	Nos.	2	0.15	0	0	0	0	0	0	2.0	0.15
<b>14</b>	<b>Carpentry</b>	Nos.	0	0	0	0	0	0	0	0	0.0	0.00
<b>15</b>	<b>Book seller</b>	Nos.	0	0	0	0	0	0	0	0	0.0	0.00
<b>16</b>	<b>Welding(Gas/Electric)</b>	Nos.	0	0	0	0	0	0	0	0	0.0	0.00
	<b>Total</b>		<b>20</b>	<b>4.65</b>	<b>12</b>	<b>2.84</b>	<b>5</b>	<b>1.22</b>	<b>7</b>	<b>1.61</b>	<b>44.0</b>	<b>10.32</b>
	<b>Production System &amp; Micro - Enterpricess</b>											
	<b>Production system</b>											
	<b>a.Crop Demostration</b>											
<b>1</b>	<b>Wheat</b>	Ha.	14.5	1.48	5	0.51	4	0.4	5	0.51	28.5	2.90

<b>2</b>	<b>Paidy</b>	Ha.	11.25	1.14	5	0.51	3	0.3	5	0.51	24.3	2.46
<b>3</b>	<b>Mustard</b>	Ha.	3.0	0.31	5	0.51	1.5	0.15	0	0	9.5	0.97
<b>4</b>	<b>Vermi Culture</b>	Nos	0	0	0	0	0	0	0	0	0.0	0.00
<b>5</b>	<b>Bio-Fuel Plantation</b>	Ha.	0	0	0	0	0	0	0	0	0.0	0.00
<b>6</b>	<b>Others</b>	Ha.	0	0	0	0	0	0	0	0	0.0	0.00
<b>7</b>	<b>Goetry</b>	Nos.	0	0	0	0	0	0	0	0	0.0	0.00
<b>8</b>	<b>Piggries</b>	Nos.	0	0	0	0	0	0	0	0	0.0	0.00
<b>9</b>	<b>Bufallow rearing</b>	Nos.	0	0	0	0	0	0	0	0	0.0	0.00
<b>10</b>	<b>Harticulture</b>	Ha.	0	0	0	0	0	0	0	0	0.0	0.00
<b>11</b>	<b>Agro-Harticulture</b>	Ha.	0	0	0	0	0	0	0	0	0.0	0.00
<b>12</b>	<b>Agro-Forestry</b>	Ha.	1.35	0.32	1.75	0.41	0	0	0	0	3.1	0.73
<b>13</b>	<b>Vermi Culture</b>	Nos	0	0	0	0	0	0	0	0	0.0	0.00
<b>14</b>	<b>Marigold Cultivation</b>	Ha.	0	0	0	0	0	0	0	0	0.0	0.00
<b>15</b>	<b>Potato Cultivation</b>	Ha.	0	0	0	0	0	0	0	0	0.0	0.00
<b>16</b>	<b>Green Manuring</b>	Ha.	0	0	2.5	0.05	0	0	5	0.1	7.5	0.15
	<b>Total</b>		<b>30.1</b>	<b>3.25</b>	<b>19.25</b>	<b>1.99</b>	<b>8.5</b>	<b>0.85</b>	<b>15</b>	<b>1.12</b>	<b>72.9</b>	<b>7.21</b>
	<b>b. Micro-Enterprises</b>											
<b>1</b>	<b>Mini Dal Machine</b>	Nos.	0	0	0	0	0	0	0	0	0.0	0.00
<b>2</b>	<b>Dalia Making Machine</b>	Nos.	0	0	0	0	0	0	0	0	0.0	0.00
<b>3</b>	<b>Rope Making</b>	Nos.	20	0.5	24	0.6	2	0.05	12	0.3	58.0	1.45
<b>4</b>	<b>Pump set repair</b>	Nos.	9	0.6	0	0	3	0.22	0	0	12.0	0.82
<b>5</b>	<b>Mini floor Machine</b>	Nos.	0	0	0	0	0	0	0	0	0.0	0.00
<b>6</b>	<b>Dona Pattal</b>	Nos.	0	0	0	0	0	0	0	0	0.0	0.00
<b>7</b>	<b>Envelop</b>	Nos.	0	0	0	0	0	0	0	0	0.0	0.00
<b>8</b>	<b>Black Smithy</b>	Nos.	0	0	0	0	0	0	0	0	0.0	0.00
<b>9</b>	<b>Sweet Packs</b>	Nos.	10	0.24	10	0.25	4	0.1	8	0.2	32.0	0.79

<b>10</b>	<b>Bag making</b>	Nos.	0	0	0	0	0	0	0	0	0.0	0.00
	<b>Total</b>		<b>39</b>	<b>1.34</b>	<b>34</b>	<b>0.85</b>	<b>9</b>	<b>0.37</b>	<b>20</b>	<b>0.5</b>	<b>102.0</b>	<b>3.06</b>
	<b>Grand Total</b>		<b>100.60</b>	<b>38.20</b>	<b>71.50</b>	<b>23.35</b>	<b>24.00</b>	<b>10.03</b>	<b>44.50</b>	<b>13.24</b>	<b>240.60</b>	<b>84.82</b>

**Micro-Watershed - Bhaupur urf Gulari 2B1D5d3c**

S.No.	Name of Activities	No./ Length/ area ha	GP Name		GP Name		GP Name		Rs. Lacs	
			Bhawpur urf Gulari		Dhanaura Bujurg		Jignihawa urf Dhanara		Total	
			Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost
	<b>1. Watershed Development Work</b>									
	<b>a. Land Development</b>									
1	Afforestation	Ha.	6.00	1.44	5.00	1.20	0.92	0.22	11.92	2.86
2	Agriculture	Ha.	0	0	0	0	0	0	0.00	0.00
3	Pasture	Ha.	0	0	0	0	0	0	0.00	0.00
4	Horticulture	Ha.	1.50	0.36	1.50	0.36	0.00	0.00	3.00	0.72
	<b>Total</b>	Ha.	<b>7.50</b>	<b>1.80</b>	<b>6.50</b>	<b>1.56</b>	<b>0.92</b>	<b>0.22</b>	<b>14.92</b>	<b>3.58</b>
	<b>b. Soil Moisture Conservation</b>									
1	Field Bunds	Mtr.	15254.00	2.98	19507.00	3.81	16783.00	3.28	51544.00	10.07
2	Contour bunding	Mtr.	5414.00	1.70	1727.00	0.54	3696.00	1.16	10837.00	3.40
3	Marginal Bunds	Mtr.	6821.00	5.18	10247.00	7.79	7429.00	5.65	24497.00	18.62
4	Peripheral Bunds	Mtr.	0	0	0	0	0	0	0.00	0.00
5	Others / Field Bunding	Mtr.	0	0	0	0	0	0	0.00	0.00
	<b>Total</b>			<b>9.86</b>		<b>12.14</b>		<b>10.09</b>	<b>0.00</b>	<b>32.09</b>
	<b>c. Water Harvesting Structure</b>									
1	Form Ponds	Nos.	2	6.14	0	0	0	0	2.00	6.14
2	Gully plugs	Nos.	0	0	0	0	0	0	0.00	0.00
3	Nallah bunds	Nos.	0	0	0	0	0	0	0.00	0.00
4	Percolation tanks	Nos.	0	0	0	0	0	0	0.00	0.00
5	Ground water recharge structures	Nos.	0	0	0	0	0	0	0.00	0.00
	<b>Total</b>			<b>2</b>	<b>6.14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2.00</b>	<b>6.14</b>
	<b>Grand Total WDW</b>			<b>9.50</b>	<b>17.80</b>	<b>6.50</b>	<b>13.70</b>	<b>0.92</b>	<b>10.31</b>	<b>16.92</b>
	<b>Livilihood</b>									

1	<b>Bee Keeping</b>	Nos.	0	0	0	0	0	0.00	0.00
2	<b>Poultry</b>	Nos.	3	0.75	3	0.75	2	0.50	8.00
3	<b>Fishries</b>	Nos.	1	0.25	1	0.25	1	0.25	3.00
4	<b>Bio-Fuel Plantation</b>	ha.	0	0	0	0	0	0.00	0.00
5	<b>Others</b>	Nos.	0	0	0	0	0	0.00	0.00
6	<b>Goatry</b>	Nos.	6	1.5	6	1.5	5	1.25	17.00
7	<b>Piggries</b>	Nos.	0	0	0	0	0	0.00	0.00
8	<b>Candle making</b>	Nos.	0	0	0	0	0	0.00	0.00
9	<b>Sweet Packs</b>	Nos.	0	0	0	0	0	0.00	0.00
10	<b>Dona Pattal</b>	Nos.	0	0	0	0	0	0.00	0.00
11	<b>Sewing</b>	Nos.	2	0.36	0	0	1	0.11	3.00
12	<b>Vermi Culture</b>	Nos.	0	0	0	0	0	0.00	0.00
13	<b>Pump set repair</b>	Nos.	0	0	5	0.15	0	0	5.00
14	<b>Carpentry</b>	Nos.	0	0	0	0	0	0.00	0.00
15	<b>Book seller</b>	Nos.	0	0	0	0	0	0.00	0.00
16	<b>Welding(Gas/Electric)</b>	Nos.	0	0	0	0	0	0.00	0.00
	<b>Total</b>		<b>12</b>	<b>2.86</b>	<b>15</b>	<b>2.65</b>	<b>9</b>	<b>2.11</b>	<b>36.00</b>
	<b>7.62</b>								

#### **Production System & Micro - Enterprises**

Production system									
a.Crop Demostration									
1	<b>Wheat</b>	Ha.	5	0.51	5	0.51	5	0.51	15.00
2	<b>Paidy</b>	Ha.	6.25	0.64	8.7	0.88	3.75	0.38	18.70
3	<b>Mustard</b>	Ha.	5.25	0.54	3.5	0.36	4.37	0.48	13.12
4	<b>Vermi Culture</b>	Nos.	0	0	0	0	0	0	0.00
5	<b>Bio-Fuel Plantation</b>	Ha.	0	0	0	0	0	0	0.00
6	<b>Others</b>	Ha.	0	0	0	0	0	0	0.00
7	<b>Goetry</b>	Nos.	0	0	0	0	0	0	0.00
8	<b>Piggries</b>	Nos.	0	0	0	0	0	0	0.00
9	<b>Bufallow rearing</b>	Nos.	0	0	0	0	0	0	0.00
10	<b>Harticulture</b>	Ha.	0	0	0	0	0	0	0.00
11	<b>Agro-Harticulture</b>	Ha.	0	0	0	0	0	0	0.00
12	<b>Agro-Forestry</b>	Ha.	1.25	0.3	0	0	0	1.25	0.30
13	<b>Vermi Culture</b>	Nos.	0	0	0	0	0	0.00	0.00
14	<b>Marigold Cultivation</b>	Ha.	0	0	0	0	0	0.00	0.00
15	<b>Potato Cultivation</b>	Ha.	0	0	0	0	0	0.00	0.00
16	<b>Green Manuring</b>	Ha.	0	0	5	0.1	5	0.1	10.00
									0.20

	<b>Total</b>		<b>17.75</b>	<b>1.99</b>	<b>22.2</b>	<b>1.85</b>	<b>18.12</b>	<b>1.47</b>	<b>58.07</b>	<b>5.31</b>
	<b>b. Micro-Enterprises</b>									
1	<b>Mini Dal Machine</b>	Nos.	0	0	0	0	0	0	0.00	0.00
2	<b>Dalia Making Machine</b>	Nos.	0	0	0	0	0	0	0.00	0.00
3	<b>Rope Making</b>	Nos.	10	0.25	24	0.6	11	0.28	45.00	1.13
4	<b>Pump set repair</b>	Nos.	7	0.52	0	0	3	0.23	10.00	0.75
5	<b>Mini floor Machine</b>	Nos.	0	0	0	0	0	0	0.00	0.00
6	<b>Dona Pattal</b>	Nos.	0	0	0	0	0	0	0.00	0.00
7	<b>Envelop</b>	Nos.	0	0	0	0	0	0	0.00	0.00
8	<b>Black Smithy</b>	Nos.	0	0	0	0	0	0	0.00	0.00
9	<b>Sweet Packs</b>	Nos.	4	0.1	8	0.2	5	0.12	17.00	0.42
10	<b>Bag making</b>	Nos.	0	0	0	0	0	0	0.00	0.00
	<b>Total</b>		<b>21</b>	<b>0.87</b>	<b>32</b>	<b>0.8</b>	<b>19</b>	<b>0.63</b>	<b>72.00</b>	<b>2.30</b>
	<b>Grand Total</b>		<b>60.25</b>	<b>23.52</b>	<b>75.70</b>	<b>19.00</b>	<b>47.04</b>	<b>14.52</b>	<b>182.99</b>	<b>57.04</b>

Micro-Watershed - Bagahi (2B1D5d3d)						
S.No.	Name of Activities		GP Name		Rs. Lacs	
		No./ Length/ area ha	Redwariya		Total	
			Quat.	Cost	Quat.	Cost
	<b>1. Watershed Development Work</b>					
	<b>a. Land Development</b>					
1	Afforestation	Ha	5.0	1.20	5.0	1.20
2	Agriculture	Ha	0	0	0.0	0.00
3	Pasture	Ha	0	0	0.0	0.00
4	Horticulture	Ha	1.5	0.36	1.5	0.36
	<b>Total</b>	Ha	<b>6.50</b>	<b>1.56</b>	<b>6.5</b>	<b>1.56</b>
	<b>b. Soil Moisture Conservation</b>					
1	Field Bunds	Mtr.	22638	4.42	22638.0	4.42
2	Contour bunding	Mtr.	4781	1.5	4781.0	1.50
3	Marginal Bunds	Mtr.	4151	3.16	4151.0	3.16
4	Peripheral Bunds	Mtr.	0	0	0.0	0.00
5	Others / Field Bunding	Mtr.	0	0	0.0	0.00
	<b>Total</b>			<b>9.08</b>	<b>0.0</b>	<b>9.08</b>
	<b>c. Water Harvesting Structure</b>					
1	Form Ponds	Nos.	2	5.15	2.0	5.15
2	Gully plugs	Nos.	0	0	0.0	0.00
3	Nallah bunds	Nos.	0	0	0.0	0.00
4	Percolation tanks	Nos.	0	0	0.0	0.00
5	Ground water recharge structures	Nos.	0	0	0.0	0.00
	<b>Total</b>			<b>2</b>	<b>5.15</b>	<b>2.0</b>

<b>Grand Total WDW</b>			<b>8.50</b>	<b>15.79</b>	<b>8.50</b>	<b>15.79</b>
<b>Livilihood</b>						
<b>1</b>	<b>Bee Keeping</b>	Nos.	0	0	0.0	0.00
<b>2</b>	<b>Poultry</b>	Nos.	3	0.75	3.0	0.75
<b>3</b>	<b>Fishries</b>	Nos.	1	0.25	1.0	0.25
<b>4</b>	<b>Bio-Fuel Plantation</b>	ha.	0	0	0.0	0.00
<b>5</b>	<b>Others</b>	Nos.	0	0	0.0	0.00
<b>6</b>	<b>Goatry</b>	Nos.	6	1.5	6.0	1.50
<b>7</b>	<b>Piggries</b>	Nos.	0	0	0.0	0.00
<b>8</b>	<b>Candle making</b>	Nos.	0	0	0.0	0.00
<b>9</b>	<b>Sweet Packs</b>	Nos.	0	0	0.0	0.00
<b>10</b>	<b>Dona Pattal</b>	Nos.	0	0	0.0	0.00
<b>11</b>	<b>Sewing</b>	Nos.	1	0.04	1.0	0.04
<b>12</b>	<b>Vermi Culture</b>	Nos.	0	0	0.0	0.00
<b>13</b>	<b>Pump set repair</b>	Nos.	0	0	0.0	0.00
<b>14</b>	<b>Carpentry</b>	Nos.	0	0	0.0	0.00
<b>15</b>	<b>Book seller</b>	Nos.	0	0	0.0	0.00
<b>16</b>	<b>Welding(Gas/Electric)</b>	Nos.	0	0	0.0	0.00
<b>Total</b>			<b>11</b>	<b>2.54</b>	<b>11.0</b>	<b>2.54</b>
<b>Production System &amp; Micro - Enterprices</b>						
	<b>Production system</b>					
	<b>a.Crop Demostration</b>					
<b>1</b>	<b>Wheat</b>	Ha.	5	0.51	5.0	0.51
<b>2</b>	<b>Paidy</b>	Ha.	5	0.51	5.0	0.51
<b>3</b>	<b>Mustard</b>	Ha.	5	0.51	5.0	0.51
<b>4</b>	<b>Vermi Culture</b>	Nos.	0	0	0.0	0.00
<b>5</b>	<b>Bio-Fuel Plantation</b>	Ha.	0	0	0.0	0.00

<b>6</b>	<b>Others</b>	Ha.	0	0	0.0	0.00
<b>7</b>	<b>Goetry</b>	Nos.	0	0	0.0	0.00
<b>8</b>	<b>Piggries</b>	Nos.	0	0	0.0	0.00
<b>9</b>	<b>Bufallow rearing</b>	Nos.	0	0	0.0	0.00
<b>10</b>	<b>Harticulture</b>	Ha.	0	0	0.0	0.00
<b>11</b>	<b>Agro-Harticulture</b>	Ha.	0	0	0.0	0.00
<b>12</b>	<b>Agro-Forestry</b>	Ha.	1	0.24	1.0	0.24
<b>13</b>	<b>Vermi Culture</b>	Nos.	0	0	0.0	0.00
<b>14</b>	<b>Marigold Cultivation</b>	Ha.	0	0	0.0	0.00
<b>15</b>	<b>Potato Cultivation</b>	Ha.	0	0	0.0	0.00
<b>16</b>	<b>Green Manuring</b>	Ha.	0	0	0.0	0.00
	<b>Total</b>		<b>16</b>	<b>1.77</b>	<b>16.0</b>	<b>1.77</b>
	<b>b. Micro-Enterprises</b>					
<b>1</b>	<b>Mini Dal Machine</b>	Nos.	0	0	0.0	0.00
<b>2</b>	<b>Dalia Making Machine</b>	Nos.	0	0	0.0	0.00
<b>3</b>	<b>Rope Making</b>	Nos.	8	0.2	8.0	0.20
<b>4</b>	<b>Pump set repair</b>	Nos.	4	0.37	4.0	0.37
<b>5</b>	<b>Mini floor Machine</b>	Nos.	0	0	0.0	0.00
<b>6</b>	<b>Dona Pattal</b>	Nos.	0	0	0.0	0.00
<b>7</b>	<b>Envelop</b>	Nos.	0	0	0.0	0.00
<b>8</b>	<b>Black Smithy</b>	Nos.	0	0	0.0	0.00
<b>9</b>	<b>Sweet Packs</b>	Nos.	8	0.2	8.0	0.20
<b>10</b>	<b>Bag making</b>	Nos.	0	0	0.0	0.00
	<b>Total</b>		<b>20</b>	<b>0.77</b>	<b>20.0</b>	<b>0.77</b>
	<b>Grand Total</b>		<b>55.50</b>	<b>20.87</b>	<b>55.50</b>	<b>20.87</b>

## Micro-Watershed- Mani Kaura (2B1D5d3e)

S.No.	Name of Activities		GP Name		GP Name		GP Name		GP Name		GP Name		Rs. Lacs		
		No./ Length/ area ha	Mani Kaura		Ahiraula		Matiyaj urf Bhutahwa		Khairi Shifal Prasad		basawan Pal urf Madrahiya		Total		
			Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	Quat.	Cost	
	<b>1. Watershed Development Work</b>														
	<b>a. Land Development</b>														
1	Afforestation	Ha	2.0	0.48	2.0	0.48	3.0	0.72	1.09	0.26	5.0	1.20	13.09	3.14	
2	Agriculture	Ha	0	0	0	0	0	0	0	0	0	0	0	0.00	
3	Pasture	Ha	0	0	0	0	0	0	0	0	0	0	0	0.00	
4	Horticuture	Ha	0.50	0.12	0.5	0.12	1.0	0.24	0	0	0	0	2	0.48	
	<b>Total</b>	Ha	<b>2.50</b>	<b>0.60</b>	<b>2.5</b>	<b>0.60</b>	<b>4.0</b>	<b>0.96</b>	<b>1.09</b>	<b>0.26</b>	<b>5.0</b>	<b>1.20</b>	<b>15.09</b>	<b>3.62</b>	
	<b>b. Soil Moisture Conservation</b>														
1	Field Bunds	Mtr.	7414	1.45	4252	0.83	13905	2.72	2470	0.48	17057	3.33	45098	8.81	
2	Contour bunding	Mtr.	2207	0.69	1915	0.6	1762	0.55	0	0	1580	0.5	7464	2.34	
3	Marginal Bunds	Mtr.	0	0	1060	0.81	674	0.51	0	0	5240	3.98	6974	5.30	
4	Peripheral Bunds	Mtr.	0	0	0	0	0	0	0	0	0	0	0	0.00	
5	Others / Field Bunding		0	0	0	0	0	0	0	0	0	0	0	0.00	
	<b>Total</b>			<b>2.14</b>		<b>2.24</b>		<b>3.78</b>		<b>0.48</b>		<b>7.81</b>	<b>0</b>	<b>16.45</b>	
	<b>c. Water Harvesting Structure</b>														
1	Form Ponds	Nos.	1	3.31	2	3.55	2	5.07	0	0	2	6.21	7	18.14	
2	Gully plugs	Nos.	0	0	0	0	0	0	0	0	0	0	0	0.00	
3	Nallah bunds	Nos.	0	0	0	0	0	0	0	0	0	0	0	0.00	
4	Percolation tanks	Nos.	0	0	0	0	0	0	0	0	0	0	0	0.00	
5	Ground water recharge structures	Nos.	0	0	0	0	0	0	0	0	0	0	0	0.00	
	<b>Total</b>			<b>1</b>	<b>3.31</b>	<b>2</b>	<b>3.55</b>	<b>2</b>	<b>5.07</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>6.21</b>	<b>7</b>	<b>18.14</b>

Grand Total WDW			3.50	6.05	4.50	6.39	6.00	9.81	1.09	0.74	7.00	15.22	22.09	38.21
<b>Livilihood</b>														
<b>1</b>	<b>Bee Keeping</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>2</b>	<b>Poultry</b>	Nos.	1	0.25	0	0	0	0	0	74	0	15.46	1	89.71
<b>3</b>	<b>Fishries</b>	Nos.	1	0.25	1	0.25	1	0.25	0	0	1	0.25	4	1.00
<b>4</b>	<b>Bio-Fuel Plantation</b>	Ha.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>5</b>	<b>Others</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>6</b>	<b>Goatry</b>	Nos.	2	0.47	3	0.75	5	1.25	0	0	7	1.75	17	4.22
<b>7</b>	<b>Piggries</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>8</b>	<b>Candle making</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>9</b>	<b>Sweet Packs</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>10</b>	<b>Dona Pattal</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>11</b>	<b>Sewing</b>	Nos.	0	0	1	0.03	1	0.08	1	0.12	2	0.48	5	0.71
<b>12</b>	<b>Vermi Culture</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>13</b>	<b>Pump set repair</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>14</b>	<b>Carpentry</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>15</b>	<b>Book seller</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>16</b>	<b>Welding(Gas/Electric)</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>Total</b>			<b>4</b>	<b>0.97</b>	<b>5</b>	<b>1.03</b>	<b>7</b>	<b>1.58</b>	<b>1</b>	<b>74.12</b>	<b>10</b>	<b>17.94</b>	<b>27</b>	<b>95.64</b>
<b>Production System &amp; Micro - Enterprises</b>														
	<b>Production system</b>													
	<b>a.Crop Demostration</b>													
<b>1</b>	<b>Wheat</b>	Ha.	3	0.31	5	0.51	6	0.6	0	0	5	0.51	19	1.93
<b>2</b>	<b>Paidy</b>	Ha.	1.5	0.15	5	0.51	3	0.3	0	0	5	0.51	14.5	1.47
<b>3</b>	<b>Mustard</b>	Ha.	1.65	0.17	0	0	2	0.2	0	0	5	0.51	8.65	0.88
<b>4</b>	<b>Vermi Culture</b>	Ha.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>5</b>	<b>Bio-Fuel Plantation</b>	Ha.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>6</b>	<b>Others</b>	Ha.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>7</b>	<b>Goetry</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>8</b>	<b>Piggries</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>9</b>	<b>Bufallow rearing</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>10</b>	<b>Harticulture</b>	Ha.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>11</b>	<b>Agro-Harticulture</b>	Ha.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>12</b>	<b>Agro-Forestry</b>	Ha.	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>13</b>	<b>Vermi Culture</b>	Nos	0	0	0	0	0	0	0	0	0	0	0	0.00
<b>14</b>	<b>Marigold Cultivation</b>	Ha.	0	0	0	0	0	0	0	0	0	0	0	0.00

<b>15</b>	<b>Potato Cultivation</b>	Ha.	0	0	0	0	0	0	0	0	0	0	0.00	
<b>16</b>	<b>Green Manuring</b>	Ha.	2.5	0.05	0	0	0	0	3.5	0.07	10	0.2	16	0.32
	<b>Total</b>		<b>8.65</b>	<b>0.68</b>	<b>10</b>	<b>1.02</b>	<b>11</b>	<b>1.1</b>	<b>3.5</b>	<b>0.07</b>	<b>25</b>	<b>1.73</b>	<b>58.15</b>	<b>4.60</b>
	<b>b. Micro-Enterprises</b>													
<b>1</b>	<b>Mini Dal Machine</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	
<b>2</b>	<b>Dalia Making Machine</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	
<b>3</b>	<b>Rope Making</b>	Nos.	12	0.3	12	0.3	6	0.15	0	0	20	0.5	50	1.25
<b>4</b>	<b>Pump set repair</b>	Nos.	0	0	0	0	3	0.23	0	0	2	0.15	5	0.38
<b>5</b>	<b>Mini floor Machine</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	
<b>6</b>	<b>Dona Pattal</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	
<b>7</b>	<b>Envelop</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	
<b>8</b>	<b>Black Smithy</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	
<b>9</b>	<b>Sweet Packs</b>	Nos.	0	0	0	0	4	0.1	2	0.05	4	0.1	10	0.25
<b>10</b>	<b>Bag making</b>	Nos.	0	0	0	0	0	0	0	0	0	0	0.00	
	<b>Total</b>		<b>12</b>	<b>0.3</b>	<b>12</b>	<b>0.3</b>	<b>13</b>	<b>0.48</b>	<b>2</b>	<b>0.05</b>	<b>26</b>	<b>0.75</b>	<b>65</b>	<b>1.88</b>
	<b>Grand Total</b>		<b>28.15</b>	<b>8.00</b>	<b>31.50</b>	<b>8.74</b>	<b>37.00</b>	<b>12.97</b>	<b>7.59</b>	<b>74.98</b>	<b>68.00</b>	<b>35.64</b>	<b>172.24</b>	<b>140.33</b>

### **Work Photographs of project area**



## 6. PHASING OF PROGRAMMES AND BUDGETING

### A- MICRO-WATERSHED WISE FINANCIAL BRECKUP

FINANCIAL BREAKUP OF VARIOUS COMPONENT IN TERMS OF % OF IWMP-I, DISTRICT-SIDDHARATHA NAGAR														
S. No.	Name of MWS	Project Area	Proposed Amount	Administrative 10%	EPA 4%	Institution and CB 5%	DPR 1%	Watershed development work 56%	Livelihood for assetless 9%	Production system and Microenterprises 10%	Monitoring 1%	Amount in Lacs		
												Evaluation 1%	Consolidation 3%	Total 100%
1	Pakarihawa	891	106.92	10.69	4.28	5.35	1.07	59.88	9.62	10.69	1.07	1.07	3.21	106.92
2	Khajuriya Sarki	472	56.64	5.66	2.27	2.83	0.57	31.72	5.10	5.66	0.57	0.57	1.70	56.64
3	Dhakehari Bujurg	1033	123.96	12.40	4.96	6.20	1.24	69.42	11.16	12.40	1.24	1.24	3.72	123.96
4	Gharuyar	1155	138.60	13.86	5.54	6.93	1.39	77.62	12.47	13.86	1.39	1.39	4.16	138.60
5	Dhebarua Khas	502	60.24	6.02	2.41	3.01	0.60	33.73	5.42	6.02	0.60	0.60	1.81	60.24
6	Bhanpur	761	91.32	9.13	3.65	4.57	0.91	51.14	8.22	9.13	0.91	0.91	2.74	91.32
7	Basawanpal urf Gulari	744	89.28	8.93	3.57	4.46	0.89	50.00	8.04	8.93	0.89	0.89	2.68	89.28
8	Bagahi	196	23.52	2.35	0.94	1.18	0.24	13.17	2.12	2.35	0.24	0.24	0.71	23.52
9	Manikaura	956	114.72	11.47	4.59	5.74	1.15	64.24	10.32	11.47	1.15	1.15	3.44	114.72
	<b>Total</b>	<b>6710.0</b>	<b>805.2</b>	<b>80.52</b>	<b>32.208</b>	<b>40.26</b>	<b>8.052</b>	<b>450.912</b>	<b>72.468</b>	<b>80.52</b>	<b>8.052</b>	<b>8.052</b>	<b>24.156</b>	<b>805.2</b>

YEARWISE FINANCIAL BREAK UP OF INST. & CAP. BULDG. PROGRAMME OF IWMP-I, DISTRICT-SIDDHARTHA NAGAR								
								Amount in Lacs
S. No.	Name of MWS	Project Area	Proposed Amount	Institutional & Capacity Building 5% of the Total Project Cost				
				2009-10	2010-11	2011-12	212-13	Total
1	Pakarihawa	891	5.35	3.21	0.80	0.80	0.53	5.35
2	Khajuriya Sarki	472	2.83	1.70	0.42	0.42	0.28	2.83
3	Dhakehari Bujurg	1033	6.20	3.72	0.93	0.93	0.62	6.20
4	Gharuyar	1155	6.93	4.16	1.04	1.04	0.69	6.93
5	Dhebarua Khas	502	3.01	1.81	0.45	0.45	0.30	3.01
6	Bhanpur	761	4.57	2.74	0.68	0.68	0.46	4.57
7	Basawanpal urf Gulari	744	4.46	2.68	0.67	0.67	0.45	4.46
8	Bagahi	196	1.18	0.71	0.18	0.18	0.12	1.18
9	Manikaura	956	5.74	3.44	0.86	0.86	0.57	5.74
	TOTAL	6710	40.26	24.156	6.039	6.039	4.026	40.26

YEAR WISE PHYSICAL AND FINANCIAL BREAK UP OF WORK COMPONENT OF IWMP-I, DISTRICT-SIDDHARATHA NAGAR													
												Amount in Lacs	
Watershed Development Works 56% of Project Cost												Phy. in ha.	
S. No.	Name of MWS	Project Area	Proposed Amount	2009-10		2010-11		2011-12		2012-13		TOTAL	
				Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy (ha.)	Fin.
1	Pakarihawa	891	59.88	119.30	8.02	260.17	17.48	254.56	17.11	256.96	17.27	891.00	59.88
2	Khajuriya Sarki	472	31.72	63.20	4.25	137.82	9.26	134.85	9.06	136.12	9.15	472.00	31.72
3	Dhakehari Bujurg	1033	69.42	138.32	9.30	301.64	20.27	295.13	19.83	297.92	20.02	1033.00	69.42
4	Gharuyar	1155	77.62	154.65	10.40	337.26	22.66	329.98	22.18	333.10	22.38	1155.00	77.62
5	Dhebarua Khas	502	33.73	67.22	4.52	146.58	9.85	143.42	9.64	144.78	9.73	502.00	33.73
6	Bhanpur	761	51.14	101.90	6.85	222.21	14.93	217.42	14.61	219.47	14.75	761.00	51.14
7	Basawanpal urf Gulari	744	50.00	99.62	6.70	217.25	14.60	212.56	14.28	214.57	14.42	744.00	50.00
8	Bagahi	196	13.17	26.24	1.76	57.23	3.85	56.00	3.76	56.53	3.80	196.00	13.17
9	Manikaura	956	64.24	128.01	8.60	279.15	18.76	273.13	18.36	275.71	18.53	956.00	64.24
	<b>TOTAL</b>	<b>6710</b>	<b>450.912</b>	<b>898.469</b>	<b>60.39</b>	<b>1959.32</b>	<b>131.6502</b>	<b>1917.047</b>	<b>128.832</b>	<b>1935.164</b>	<b>130.0398</b>	<b>6710</b>	<b>450.912</b>

YEARWISE FINANCIAL BREAK UP OF LIVELIHOOD ACTIVITIES IWMP-I, DISTRICT-SIDDHARTHA NAGAR							
							Amount in Lacs
S. No.	Microwatershed	Project Area	Proposed Amount	Livelihood 9% of the Project Cost			
				2009-10	2010-11	2011-12	2012-13
1	Pakarihawa	891	9.62	1.07	2.67	2.67	3.21
2	Khajuriya Sarki	472	5.10	0.57	1.42	1.42	1.70
3	Dhakehari Bujurg	1033	11.16	1.24	3.10	3.10	3.72
4	Gharuyar	1155	12.47	1.39	3.47	3.47	4.16
5	Dhebarua Khas	502	5.42	0.60	1.51	1.51	1.81
6	Bhanpur	761	8.22	0.91	2.28	2.28	2.74
7	Basawanpal urf Gulari	744	8.04	0.89	2.23	2.23	2.68
8	Bagahi	196	2.12	0.24	0.59	0.59	0.71
9	Manikaura	956	10.32	1.15	2.87	2.87	3.44
	TOTAL	6,710.00	72.47	8.05	20.13	20.13	24.16
							72.47

YEARWISE FINANCIAL BREAK UP OF PRODUCTION & MICRO ENTERPRISES OF IWMP-I, DISTRICT-SIDDHARTHA NAGAR								
							Amount in Lacs	
S. No.	Name of MWS	Project Area	Proposed Amount	Production System & Micro-enterprises 10% of the Project Cost				
				2009-10	2010-11	2011-12	2012-13	Total
1	Pakarihawa	891	10.69	1.07	2.67	2.67	4.28	10.69
2	Khajuriya Sarki	472	5.66	0.57	1.42	1.42	2.27	5.66
3	Dhakehari Bujurg	1033	12.40	1.24	3.10	3.10	4.96	12.40
4	Gharuyar	1155	13.86	1.39	3.47	3.47	5.54	13.86
5	Dhebarua Khas	502	6.02	0.60	1.51	1.51	2.41	6.02
6	Bhanpur	761	9.13	0.91	2.28	2.28	3.65	9.13
7	Basawanpal urf Gulari	744	8.93	0.89	2.23	2.23	3.57	8.93
8	Bagahi	196	2.35	0.24	0.59	0.59	0.94	2.35
9	Manikaura	956	11.47	1.15	2.87	2.87	4.59	11.47
	TOTAL	6710	80.52	8.052	20.13	20.13	32.208	80.52

**PROJECTWISE/YEARWISE FINANCIAL BREAK UP OF WORK COMPONENT OF IWMP-I, DISTRICT-SIDDHARTHA NAGAR**

S. No.	Name of MWS	Project Area	Proposed Amount	Work Component 56% of Project Cost					Amount in Lacs.
				2009- 10	2010-11	2011-12	2012-13	Total	
1	Pakarihawa	891	59.88	8.02	17.48	17.11	17.27	<b>59.88</b>	
2	Khajuriya Sarki	472	31.72	4.25	9.26	9.06	9.15	<b>31.72</b>	
3	Dhakehari Bujurg	1033	69.42	9.30	20.27	19.83	20.02	<b>69.42</b>	
4	Gharuyar	1155	77.62	10.40	22.66	22.18	22.38	<b>77.62</b>	
5	Dhebarua Khas	502	33.73	4.52	9.85	9.64	9.73	<b>33.73</b>	
6	Bhanpur	761	51.14	6.85	14.93	14.61	14.75	<b>51.14</b>	
7	Basawanpal urf Gulari	744	50.00	6.70	14.60	14.28	14.42	<b>50.00</b>	
8	Bagahi	196	13.17	1.76	3.85	3.76	3.80	<b>13.17</b>	
9	Manikaura	956	64.24	8.60	18.76	18.36	18.53	<b>64.24</b>	
	<b>Total</b>	<b>6710</b>	<b>450.91</b>	<b>60.39</b>	<b>131.65</b>	<b>128.83</b>	<b>130.04</b>	<b>450.91</b>	

## B- GRAM PANCHAYAT WISE FINANCIAL BRECKUP

FINANCIAL BREAKUP OF VARIOUS COMPONENT IN TERMS OF % OF IWMP-I, DISTRICT-SIDDHARATHA NAGAR												Amount in Lacs		
S. No.	NAME OF GP	Project Area	Sanctioned Amount	Administrative 10%	EPA 4%	Institution and CB 5%	DPR 1%	Watershed development work 56%	Livelihood for assetless 9%	Production system and Microenterprises 10%	Monitoring 1%	Evaluation 1%	Consolidation 3%	Total 100%
1	Ahiraula	95	11.40	1.14	0.46	0.57	0.11	6.38	1.03	1.14	0.11	0.11	0.34	11.40
2	Akarahara	235	28.20	2.82	1.13	1.41	0.28	15.79	2.54	2.82	0.28	0.28	0.85	28.20
3	Aurihawa	181	21.72	2.17	0.87	1.09	0.22	12.16	1.95	2.17	0.22	0.22	0.65	21.72
4	Redwaria	235	28.20	2.82	1.13	1.41	0.28	15.79	2.54	2.82	0.28	0.28	0.85	28.20
5	Bairihawa	281	33.72	3.37	1.35	1.69	0.34	18.88	3.03	3.37	0.34	0.34	1.01	33.72
6	Bargadawa	263	31.56	3.16	1.26	1.58	0.32	17.67	2.84	3.16	0.32	0.32	0.95	31.56
8	Basawanpal urf Madar	230	27.60	2.76	1.10	1.38	0.28	15.46	2.48	2.76	0.28	0.28	0.83	27.60
9	Bhanpur	431	51.72	5.17	2.07	2.59	0.52	28.96	4.65	5.17	0.52	0.52	1.55	51.72
10	Bhawpur Urf Gulari	265	31.80	3.18	1.27	1.59	0.32	17.81	2.86	3.18	0.32	0.32	0.95	31.80
11	Debaruya Khas	248	29.76	2.98	1.19	1.49	0.30	16.67	2.68	2.98	0.30	0.30	0.89	29.76
12	Dhanaura_Bujurg	245	29.40	2.94	1.18	1.47	0.29	16.46	2.65	2.94	0.29	0.29	0.88	29.40
13	Dhekahari Bujurg	13	1.56	0.16	0.06	0.08	0.02	0.87	0.14	0.16	0.02	0.02	0.05	1.56
14	Dhakehari Khurd	84	10.08	1.01	0.40	0.50	0.10	5.64	0.91	1.01	0.10	0.10	0.30	10.08
15	Dudhwaniya Bujurg	113	13.56	1.36	0.54	0.68	0.14	7.59	1.22	1.36	0.14	0.14	0.41	13.56
16	Gharuyar	308	36.96	3.70	1.48	1.85	0.37	20.70	3.33	3.70	0.37	0.37	1.11	36.96
17	Jagadhara	172	20.64	2.06	0.83	1.03	0.21	11.56	1.86	2.06	0.21	0.21	0.62	20.64

18	Jigani urf Dhanauri	195	23.40	2.34	0.94	1.17	0.23	13.10	2.11	2.34	0.23	0.23	0.70	<b>23.40</b>
19	Jiya Bhari	118	14.16	1.42	0.57	0.71	0.14	7.93	1.27	1.42	0.14	0.14	0.42	<b>14.16</b>
20	Kalayanpu Urf Hriday	278	33.36	3.34	1.33	1.67	0.33	18.68	3.00	3.34	0.33	0.33	1.00	<b>33.36</b>
21	Khajuriya Sarki	385	46.20	4.62	1.85	2.31	0.46	25.87	4.16	4.62	0.46	0.46	1.39	<b>46.20</b>
22	Khurahuriya	257	30.84	3.08	1.23	1.54	0.31	17.27	2.78	3.08	0.31	0.31	0.93	<b>30.84</b>
23	Malagahiya	182	21.84	2.18	0.87	1.09	0.22	12.23	1.97	2.18	0.22	0.22	0.66	<b>21.84</b>
24	Manikaura	90	10.80	1.08	0.43	0.54	0.11	6.05	0.97	1.08	0.11	0.11	0.32	<b>10.80</b>
25	Matiyar Urf Bhoothaw	146	17.52	1.75	0.70	0.88	0.18	9.81	1.58	1.75	0.18	0.18	0.53	<b>17.52</b>
26	Mujahana	149	17.88	1.79	0.72	0.89	0.18	10.01	1.61	1.79	0.18	0.18	0.54	<b>17.88</b>
27	Pakadihawa	279	33.48	3.35	1.34	1.67	0.33	18.75	3.01	3.35	0.33	0.33	1.00	<b>33.48</b>
28	Parsa	388	46.56	4.66	1.86	2.33	0.47	26.07	4.19	4.66	0.47	0.47	1.40	<b>46.56</b>
29	Pathar Deia	159	19.08	1.91	0.76	0.95	0.19	10.68	1.72	1.91	0.19	0.19	0.57	<b>19.08</b>
30	Rekahat	62	7.44	0.74	0.30	0.37	0.07	4.17	0.67	0.74	0.07	0.07	0.22	<b>7.44</b>
31	Sewara	174	20.88	2.09	0.84	1.04	0.21	11.69	1.88	2.09	0.21	0.21	0.63	<b>20.88</b>
32	Tal Kunda	438	52.56	5.26	2.10	2.63	0.53	29.43	4.73	5.26	0.53	0.53	1.58	<b>52.56</b>
33	Khairi Shital Prasad	11	1.32	0.13	0.05	0.07	0.01	0.74	0.12	0.13	0.01	0.01	0.04	<b>1.32</b>
<b>Total</b>		<b>6710.0</b>	<b>805.2</b>	<b>80.52</b>	<b>32.208</b>	<b>40.26</b>	<b>8.052</b>	<b>450.912</b>	<b>72.468</b>	<b>80.52</b>	<b>8.052</b>	<b>8.052</b>	<b>24.156</b>	<b>805.2</b>

<b>YEARWISE FINANCIAL BREAK UP OF INST. &amp; CAP. BULDG. PROGRAMME OF IWMP-I, DISTRICT-SIDDHARTHA NAGAR</b>								
					Amount in Lacs			
<b>S. No.</b>	<b>Name of GP</b>	<b>Project Area</b>	<b>Proposed Amount</b>	<b>Institutional &amp; Capacity Building 5% of the Total Project Cost</b>				
				<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>	<b>212-13</b>	<b>Total</b>
1	Ahiraula	95	0.57	0.34	0.09	0.09	0.06	0.57
2	Akarahara	235	1.41	0.85	0.21	0.21	0.14	1.41
3	Aurihawa	181	1.09	0.65	0.16	0.16	0.11	1.09
4	Redwaria	235	1.41	0.85	0.21	0.21	0.14	1.41
5	Bairihawa	281	1.69	1.01	0.25	0.25	0.17	1.69
6	Bargadawa	263	1.58	0.95	0.24	0.24	0.16	1.58
8	Basawanpal urf Madar	230	1.38	0.83	0.21	0.21	0.14	1.38
9	Bhanpur	431	2.59	1.55	0.39	0.39	0.26	2.59
10	Bhawpur Urf Gulari	265	1.59	0.95	0.24	0.24	0.16	1.59
11	Debaruya Khas	248	1.49	0.89	0.22	0.22	0.15	1.49
12	Dhanaura_Bujurg	245	1.47	0.88	0.22	0.22	0.15	1.47

13	Dhekahari Bujurg	13	0.08	0.05	0.01	0.01	0.01	0.08
14	Dhakehari Khurd	84	0.50	0.30	0.08	0.08	0.05	0.50
15	Dudhwaniya Bujurg	113	0.68	0.41	0.10	0.10	0.07	0.68
16	Gharuyar	308	1.85	1.11	0.28	0.28	0.18	1.85
17	Jagadhara	172	1.03	0.62	0.15	0.15	0.10	1.03
18	Jigani urf Dhanauri	195	1.17	0.70	0.18	0.18	0.12	1.17
19	Jiya Bhari	118	0.71	0.42	0.11	0.11	0.07	0.71
20	Kalayanpu Urf Hriday	278	1.67	1.00	0.25	0.25	0.17	1.67
21	Khajuriya Sarki	385	2.31	1.39	0.35	0.35	0.23	2.31
22	Khurahuriya	257	1.54	0.93	0.23	0.23	0.15	1.54
23	Malagahiya	182	1.09	0.66	0.16	0.16	0.11	1.09
24	Manikaura	90	0.54	0.32	0.08	0.08	0.05	0.54
25	Matiyar Urf Bhoothaw	146	0.88	0.53	0.13	0.13	0.09	0.88
26	Mujahana	149	0.89	0.54	0.13	0.13	0.09	0.89
27	Pakadihawa	279	1.67	1.00	0.25	0.25	0.17	1.67
28	Parsa	388	2.33	1.40	0.35	0.35	0.23	2.33

29	Pathar Deia	159	0.95	0.57	0.14	0.14	0.10	0.95
30	Rekahat	62	0.37	0.22	0.06	0.06	0.04	0.37
31	Sewara	174	1.04	0.63	0.16	0.16	0.10	1.04
32	Tal Kunda	438	2.63	1.58	0.39	0.39	0.26	2.63
33	Khairi Shital Prasad	11	0.07	0.04	0.01	0.01	0.01	0.07
	TOTAL	6710	40.26	24.156	6.039	6.039	4.026	40.26

YEARWISE PHYSICAL AND FINANCIAL BREAK UP OF WORK COMPONENT OF IWMP-I, DISTRICT-SIDDHARATHA NAGAR												Amount in Lacs	
Watershed Development Works 56% of Project Cost												Phy. in ha.	
S. No.	Name of GP	Project Area	Proposed Amount	2009-10		2010-11		2011-12		2012-13		TOTAL	
				Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy (ha.)	Fin.
1	Ahiraula	95	6.38	12.72	0.86	27.74	1.86	27.14	1.82	27.40	1.84	95.00	6.38
2	Akarahara	235	15.79	31.47	2.12	68.62	4.61	67.14	4.51	67.77	4.55	235.00	15.79
3	Aurihawa	181	12.16	24.24	1.63	52.85	3.55	51.71	3.48	52.20	3.51	181.00	12.16
4	Redwaria	235	15.79	31.47	2.12	68.62	4.61	67.14	4.51	67.77	4.55	235.00	15.79
5	Bairihawa	281	18.88	37.63	2.53	82.05	5.51	80.28	5.40	81.04	5.45	281.00	18.88
6	Bargadawa	263	17.67	35.22	2.37	76.80	5.16	75.14	5.05	75.85	5.10	263.00	17.67
7	Basawanpal urf Madar	230	15.46	30.80	2.07	67.16	4.51	65.71	4.42	66.33	4.46	230.00	15.46
8	Bhanpur	431	28.96	57.71	3.88	125.85	8.46	123.14	8.28	124.30	8.35	431.00	28.96
9	Bhawpur Urf Gulari	265	17.81	35.48	2.39	77.38	5.20	75.71	5.09	76.43	5.14	265.00	17.81
10	Debaruya Khas	248	16.67	33.21	2.23	72.42	4.87	70.85	4.76	71.52	4.81	248.00	16.67
11	Dhanaura_Bujurg	245	16.46	32.81	2.21	71.54	4.81	70.00	4.70	70.66	4.75	245.00	16.46
12	Dhekahari Bujurg	13	0.87	1.74	0.12	3.80	0.26	3.71	0.25	3.75	0.25	13.00	0.87
13	Dhakehari Khurd	84	5.64	11.25	0.76	24.53	1.65	24.00	1.61	24.23	1.63	84.00	5.64
14	Dudhwaniya Bujurg	113	7.59	15.13	1.02	33.00	2.22	32.28	2.17	32.59	2.19	113.00	7.59
15	Gharuyar	308	20.70	41.24	2.77	89.94	6.04	88.00	5.91	88.83	5.97	308.00	20.70
16	Jagadhara	172	11.56	23.03	1.55	50.22	3.37	49.14	3.30	49.60	3.33	172.00	11.56
17	Jigani urf Dhanauri	195	13.10	26.11	1.76	56.94	3.83	55.71	3.74	56.24	3.78	195.00	13.10
18	Jiya Bhari	118	7.93	15.80	1.06	34.46	2.32	33.71	2.27	34.03	2.29	118.00	7.93
19	Kalayanpu Urf Hriday	278	18.68	37.22	2.50	81.18	5.45	79.42	5.34	80.18	5.39	278.00	18.68
20	Khajuriya Sarki	385	25.87	51.55	3.47	112.42	7.55	109.99	7.39	111.03	7.46	385.00	25.87
21	Khurahuriya	257	17.27	34.41	2.31	75.04	5.04	73.42	4.93	74.12	4.98	257.00	17.27
22	Malagahiya	182	12.23	24.37	1.64	53.14	3.57	52.00	3.49	52.49	3.53	182.00	12.23
23	Manikaura	90	6.05	12.05	0.81	26.28	1.77	25.71	1.73	25.96	1.74	90.00	6.05

24	Matiyar Urf Bhoothaw	146	9.81	19.55	1.31	42.63	2.86	41.71	2.80	42.11	2.83	146.00	9.81
25	Mujahana	149	10.01	19.95	1.34	43.51	2.92	42.57	2.86	42.97	2.89	149.00	10.01
26	Pakadihawa	279	18.75	37.36	2.51	81.47	5.47	79.71	5.36	80.46	5.41	279.00	18.75
27	Parsa	388	26.07	51.95	3.49	113.30	7.61	110.85	7.45	111.90	7.52	388.00	26.07
28	Pathar Deia	159	10.68	21.29	1.43	46.43	3.12	45.43	3.05	45.86	3.08	159.00	10.68
29	Rekahat	62	4.17	8.30	0.56	18.10	1.22	17.71	1.19	17.88	1.20	62.00	4.17
30	Sewara	174	11.69	23.30	1.57	50.81	3.41	49.71	3.34	50.18	3.37	174.00	11.69
31	Tal Kunda	438	29.43	58.65	3.94	127.90	8.59	125.14	8.41	126.32	8.49	438.00	29.43
32	Khairi Shital Prasad	11	0.74	1.47	0.10	3.21	0.22	3.14	0.21	3.17	0.21	11.00	0.74
	<b>TOTAL</b>	<b>6710</b>	<b>450.912</b>	<b>898.469</b>	<b>60.39</b>	<b>1959.32</b>	<b>131.6502</b>	<b>1917.047</b>	<b>128.832</b>	<b>1935.164</b>	<b>130.0398</b>	<b>6710</b>	<b>450.912</b>

YEARWISE FINANCIAL BREAK UP OF LIVELIHOOD ACTIVITIES IWMP-I, DISTRICT-SIDDHARTHA NAGAR								
								Amount in Lacs
S. No.	Microwatershed	Project Area	Proposed Amount	Livelihood 9% of the Project Cost				
				2009-10	2010-11	2011-12	2012-13	TOTAL
1	Ahiraula	95	1.03	0.11	0.29	0.29	0.34	1.03
2	Akarahara	235	2.54	0.28	0.71	0.71	0.85	2.54
3	Aurihawa	181	1.95	0.22	0.54	0.54	0.65	1.95
4	Redwaria	235	2.54	0.28	0.71	0.71	0.85	2.54
5	Bairihawa	281	3.03	0.34	0.84	0.84	1.01	3.03
6	Bargadawa	263	2.84	0.32	0.79	0.79	0.95	2.84
7	Basawanpal urf Madar	230	2.48	0.28	0.69	0.69	0.83	2.48
8	Bhanpur	431	4.65	0.52	1.29	1.29	1.55	4.65
9	Bhawpur Urf Gulari	265	2.86	0.32	0.80	0.80	0.95	2.86
10	Debaruya Khas	248	2.68	0.30	0.74	0.74	0.89	2.68
11	Dhanaura_Bujurg	245	2.65	0.29	0.74	0.74	0.88	2.65
12	Dhekahari Bujurg	13	0.14	0.02	0.04	0.04	0.05	0.14
13	Dhakehari Khurd	84	0.91	0.10	0.25	0.25	0.30	0.91
14	Dudhwaniya Bujurg	113	1.22	0.14	0.34	0.34	0.41	1.22
15	Gharuyar	308	3.33	0.37	0.92	0.92	1.11	3.33
16	Jagadhara	172	1.86	0.21	0.52	0.52	0.62	1.86
17	Jigani urf Dhanauri	195	2.11	0.23	0.59	0.59	0.70	2.11
18	Jiya Bhari	118	1.27	0.14	0.35	0.35	0.42	1.27
19	Kalayanpu Urf Hriday	278	3.00	0.33	0.83	0.83	1.00	3.00
20	Khajuriya Sarki	385	4.16	0.46	1.16	1.16	1.39	4.16
21	Khurahuriya	257	2.78	0.31	0.77	0.77	0.93	2.78
22	Malagahiya	182	1.97	0.22	0.55	0.55	0.66	1.97

23	Manikaura	90	0.97	0.11	0.27	0.27	0.32	0.97
24	Matiyar Urf Bhoothaw	146	1.58	0.18	0.44	0.44	0.53	1.58
25	Mujahana	149	1.61	0.18	0.45	0.45	0.54	1.61
26	Pakadihawa	279	3.01	0.33	0.84	0.84	1.00	3.01
27	Parsa	388	4.19	0.47	1.16	1.16	1.40	4.19
28	Pathar Deia	159	1.72	0.19	0.48	0.48	0.57	1.72
29	Rekahat	62	0.67	0.07	0.19	0.19	0.22	0.67
30	Sewara	174	1.88	0.21	0.52	0.52	0.63	1.88
31	Tal Kunda	438	4.73	0.53	1.31	1.31	1.58	4.73
32	Khairi Shital Prasad	11	0.12	0.01	0.03	0.03	0.04	0.12
	TOTAL	<b>6,710.00</b>	<b>72.47</b>	<b>8.05</b>	<b>20.13</b>	<b>20.13</b>	<b>24.16</b>	<b>72.47</b>

YEARWISE FINANCIAL BREAK UP OF PRODUCTION & MICRO ENTERPRISES OF IWMP-I, DISTRICT-SIDDHARTHA NAGAR							
							Amount in Lacs
S. No.	Name of GP	Project Area	Proposed Amount	Production System & Mocro-enterprises 10% of the Project Cost			
				2009-10	2010-11	2011-12	2012-13
1	Ahiraula	95	1.14	0.11	0.29	0.29	0.46
2	Akarahara	235	2.82	0.28	0.71	0.71	1.13
3	Aurihawa	181	2.17	0.22	0.54	0.54	0.87
4	Redwaria	235	2.82	0.28	0.71	0.71	1.13
5	Bairihawa	281	3.37	0.34	0.84	0.84	1.35
6	Bargadawa	263	3.16	0.32	0.79	0.79	1.26
7	Basawanpal urf Madar	230	2.76	0.28	0.69	0.69	1.10
8	Bhanpur	431	5.17	0.52	1.29	1.29	2.07
9	Bhawpur Urf Gulari	265	3.18	0.32	0.80	0.80	1.27
10	Debaruya Khas	248	2.98	0.30	0.74	0.74	1.19
11	Dhanaura_Bujurg	245	2.94	0.29	0.74	0.74	1.18
12	Dhekahari Bujurg	13	0.16	0.02	0.04	0.04	0.06
13	Dhakehari Khurd	84	1.01	0.10	0.25	0.25	0.40
14	Dudhwaniya Bujurg	113	1.36	0.14	0.34	0.34	0.54
15	Gharuyar	308	3.70	0.37	0.92	0.92	1.48
16	Jagadhara	172	2.06	0.21	0.52	0.52	0.83

17	Jigani urf Dhanauri	195	2.34	0.23	0.59	0.59	0.94	2.34
18	Jiya Bhari	118	1.42	0.14	0.35	0.35	0.57	1.42
19	Kalayanpu Urf Hriday	278	3.34	0.33	0.83	0.83	1.33	3.34
20	Khajuriya Sarki	385	4.62	0.46	1.16	1.16	1.85	4.62
21	Khurahuriya	257	3.08	0.31	0.77	0.77	1.23	3.08
22	Malagahiya	182	2.18	0.22	0.55	0.55	0.87	2.18
23	Manikaura	90	1.08	0.11	0.27	0.27	0.43	1.08
24	Matiyar Urf Bhoothaw	146	1.75	0.18	0.44	0.44	0.70	1.75
25	Mujahana	149	1.79	0.18	0.45	0.45	0.72	1.79
26	Pakadihawa	279	3.35	0.33	0.84	0.84	1.34	3.35
27	Parsa	388	4.66	0.47	1.16	1.16	1.86	4.66
28	Pathar Deia	159	1.91	0.19	0.48	0.48	0.76	1.91
29	Rekahat	62	0.74	0.07	0.19	0.19	0.30	0.74
30	Sewara	174	2.09	0.21	0.52	0.52	0.84	2.09
31	Tal Kunda	438	5.26	0.53	1.31	1.31	2.10	5.26
32	Khairi Shital Prasad	11	0.13	0.01	0.03	0.03	0.05	0.13
	TOTAL	6710	80.52	8.052	20.13	20.13	32.208	80.52

<b>PROJECTWISE/YEARWISE FINANCIAL BREAK UP OF WORK COMPONENT OF IWMP-I, DISTRICT-SIDDHARTHA NAGAR</b>								
							<b>Amount in Lacs</b>	
<b>S. No.</b>	<b>Name of GP</b>	<b>Project Area</b>	<b>Proposed Amount</b>	<b>Work Component 56% of Project Cost</b>				
				<b>2009-10</b>	<b>2010-11</b>	<b>2011-12</b>	<b>2012-13</b>	
1	Ahiraula	95	6.38	0.86	1.86	1.82	1.84	<b>6.38</b>
2	Akarahara	235	15.79	2.12	4.61	4.51	4.55	<b>15.79</b>
3	Aurihawa	181	12.16	1.63	3.55	3.48	3.51	<b>12.16</b>
4	Redwaria	235	15.79	2.12	4.61	4.51	4.55	<b>15.79</b>
5	Bairihawa	281	18.88	2.53	5.51	5.40	5.45	<b>18.88</b>
6	Bargadawa	263	17.67	2.37	5.16	5.05	5.10	<b>17.67</b>
7	Basawanpal urf Madar	230	15.46	2.07	4.51	4.42	4.46	<b>15.46</b>
8	Bhanpur	431	28.96	3.88	8.46	8.28	8.35	<b>28.96</b>
9	Bhawpur Urf Gulari	265	17.81	2.39	5.20	5.09	5.14	<b>17.81</b>
10	Debaruya Khas	248	16.67	2.23	4.87	4.76	4.81	<b>16.67</b>
11	Dhanaura_Bujurg	245	16.46	2.21	4.81	4.70	4.75	<b>16.46</b>
12	Dhekahari Bujurg	13	0.87	0.12	0.26	0.25	0.25	<b>0.87</b>
13	Dhakehari Khurd	84	5.64	0.76	1.65	1.61	1.63	<b>5.64</b>
14	Dudhwaniya Bujurg	113	7.59	1.02	2.22	2.17	2.19	<b>7.59</b>
15	Gharuyar	308	20.70	2.77	6.04	5.91	5.97	<b>20.70</b>
16	Jagadhara	172	11.56	1.55	3.37	3.30	3.33	<b>11.56</b>

17	Jigani urf Dhanauri	195	13.10	1.76	3.83	3.74	3.78	<b>13.10</b>
18	Jiya Bhari	118	7.93	1.06	2.32	2.27	2.29	<b>7.93</b>
19	Kalayanpu Urf Hriday	278	18.68	2.50	5.45	5.34	5.39	<b>18.68</b>
20	Khajuriya Sarki	385	25.87	3.47	7.55	7.39	7.46	<b>25.87</b>
21	Khurahuriya	257	17.27	2.31	5.04	4.93	4.98	<b>17.27</b>
22	Malagahiya	182	12.23	1.64	3.57	3.49	3.53	<b>12.23</b>
23	Manikaura	90	6.05	0.81	1.77	1.73	1.74	<b>6.05</b>
24	Matiyar Urf Bhoothaw	146	9.81	1.31	2.86	2.80	2.83	<b>9.81</b>
25	Mujahana	149	10.01	1.34	2.92	2.86	2.89	<b>10.01</b>
26	Pakadihawa	279	18.75	2.51	5.47	5.36	5.41	<b>18.75</b>
27	Parsa	388	26.07	3.49	7.61	7.45	7.52	<b>26.07</b>
28	Pathar Deia	159	10.68	1.43	3.12	3.05	3.08	<b>10.68</b>
29	Rekahat	62	4.17	0.56	1.22	1.19	1.20	<b>4.17</b>
30	Sewara	174	11.69	1.57	3.41	3.34	3.37	<b>11.69</b>
31	Tal Kunda	438	29.43	3.94	8.59	8.41	8.49	<b>29.43</b>
32	Khairi Shital Prasad	11	0.74	0.10	0.22	0.21	0.21	<b>0.74</b>
	<b>Total</b>	<b>6710</b>	<b>450.91</b>	<b>60.39</b>	<b>131.65</b>	<b>128.83</b>	<b>130.04</b>	<b>450.91</b>

## **7. CONSOLIDATION/EXIT STRATEGY**

### **7.1 Quality and Sustainability Issues**

#### **7.1.1 Plans for Monitoring and Evaluation**

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 stakeholders of the project. The system shows the entire state of Uttarpradesh 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 evaluators for judging the efficacy of the project.

Yet another component of the Web-based GIS system is the Mobile based Monitoring & Evaluation System, which will help the ground staff alias WDTs (Watershed Development Team) to transmit information from the ground level to the central server. Also, any higher-up official in charge of the project can obtain information regarding the project area on their mobile phone by means of an SMS. The system works in the following manner. The WDT equipped with a GPS instrument marks the latitude-longitude information of various treatment areas during the DPR. The probable sites are then transferred onto the central server. During the works phase, any progress in the treatment areas is reported to the server by means of an SMS by the WDT. Similarly, any nodal officer or higher-up official can view the progress in a project by means of summarized reports generated over frequent periods of time.

#### **7.1.2 Plans for Project management:**

The Project management of any watershed programme is very important. It mainly depends upon the community organization and the village level institutes in IWMP 1<sup>st</sup> Siddhartha Nagar watershed committee and various user groups have been formulated for post project operation and maintenance of assets created during project period. Major emphasis will be on equity and sustainable benefit of the project even after implementation stage. A proper link-up 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.

#### **7.1.3 Watershed Development Fund:**

The major source of financial assistance after post implementation period is watershed Development Fund. The contribution of it will comes mainly fund the following: Attention:

#### **7.1.4 User Charges:**

Various user groups will be formed in village. These user groups will collect user charges 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 of the following.

#### **7.2 Sustainability and environment security**

In the proposed watershed management plan of IWMP-I<sup>st</sup> 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.

#### **7.3 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.

##### **7.3.1 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. In irrigated agriculture, investment of Rs. 414.33 lacs is proposed to make. The BC ratio of this sector is 1.6: 1 with in three years pay back period. (Table 18)

**Table no. 7.1: Economics of agriculture sector**

S.No.	Sector	Area (ha)	NPV (Rs.)	BC ratio
1	Irrigated agriculture	1766.93	94755630	1.6:1
2	Rainfed agriculture	6639.64	16642810	1.2:1
3	Total	840.6.57	111398440	1.4:1

#### **7.4.2 Horticulture**

Economic analysis of horticulture plantation in agri-horti system at IWMP-I<sup>st</sup> watershed Project life is considered to be 25 years and discount rate for NPV estimation is 10%

**Table no. 7.2: Economics of Horticulture sector**

S.No.	Common Name	Scientific name	Area (ha)	NPV of net venefit (Rs.)	BC ratio
1	Aonla	<i>Embelica officinalis</i>	60.00	1057725	3.97:1
2	Ber	<i>Zyziphus mauritiana</i>	30.00	251962	2.81:1
3	Bael	<i>Aegle marmelos</i>	31.00	169887	2.84:1
	Total		121.00	1,47,9574	3.512



#### **7.4.3 Forest/ Fuel wood plantation**

Economic analysis of fuel wood plantation at IWMP-I<sup>st</sup> watershed. Project life is considered to be 25 years and discount rate for NPV estimation is 10%

**Table no. 7.3: Economics of aforestation sector**

S.No.	Common Name	Scientific name	Area (ha)	NPV of net benefit (Rs.)	BC ratio
1	Vilayati Babul	Prosopis juliflora	550.00	384482	2.11:1

#### **7.4.4 Food sufficiency**

Achieving self sufficiency in food production is one of the prime objectives of the project. The status of food requirement and production before and after the project is presented in Table.

**Table no 7.4: Status of food requirement and availability per annum in IWMP-I<sup>st</sup> watershed**

S.No.	Items	Requirement (q/yr)	Before project		Proposed	
			Availability (q/yr)	Deficit or surplus (q/yr)	Availability (q/yr)	Deficit or surplus (q/yr)
1	Cereals	55000	49850	-6150	79460	+24460
2	Pulses	16000	12340	-3660	28936	+12936
3	Oil seeds	22000	17750	-4250	29972	+7972
4	Vegetable	33000	25330	-8670	38540	+5540

## 8. EXPECTED OUTCOMES

### 8.1 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. However, rain fall being very limited and erratic, agriculture suffers, i.e. at best they can take only a single crop, which keeps them partially engaged for about 4 months. Lack of fodder makes animal husbandry very difficult too. So, 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 enterprise development.

**Table no. 8.1: Employment in Project area**

S.no.	No. of the villages	Wage employment										Self employment					
		No. of man days					No. of beneficiaries					No. of beneficiaries					
		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	
1	61 (IWMP 1 <sup>st</sup> )	1.615	-	1.295	0.323	3.230	1312	-	2042	192	3546	210	-	190	30	430	

### 8.2. Migration

Low rainfall results in very little fodder availability in the locality. 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.

**Table no. 8.2: Details of seasonal migration from Project area**

S.no.	Names of villages	No. of persons migration	No. of days per year of migration	Major reason(s) for migration	For reduced migration identify major activities of IWMP responsible		Expected reduction in No. of persons migration
					(a) Structures	(b) Livelihoods	
1	IWMP 1 <sup>st</sup> (55 village)	11857	100-210	Poverty & Unemployment	Structure	Livelihood	6000

### 8.3 Drinking water

As a result of the watershed activities, it is expected that the quantity and quality of drinking water would improve.

**Table no. 8.3: Status of Drinking water**

S. No.	Names of Villages	Availability of drinking water (no. of months in a year)		Quality of drinking water		Comments
		Pre-project	Expected Post project	Pre-project	Expected Post-project	
1	IWMP 1 <sup>st</sup> (55 village)	10 month	12 month	General water	Good water (Improve)	-

### 8.4 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. It is planned that 121.0 ha land to be covered under new plantation.

**Table no. 8.5: Forest/vegetative cover**

S. No.	Name of Village	Existing area under tree cover (ha)	Area under tree cover proposed (Present)
1	IWMP 1 <sup>st</sup> (55 village)	-	78 Ha.Scatterd

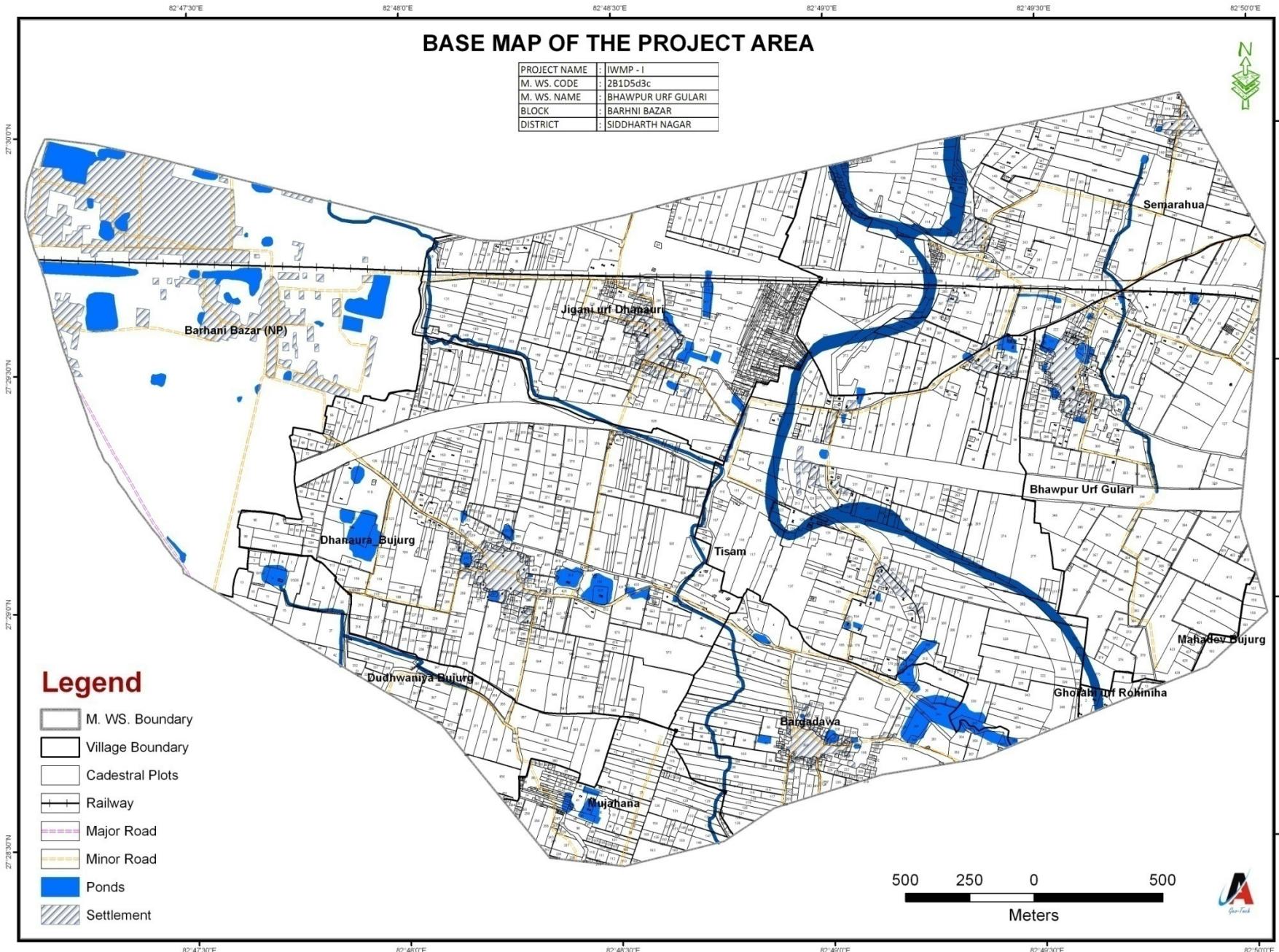
### 8.5 Livestock

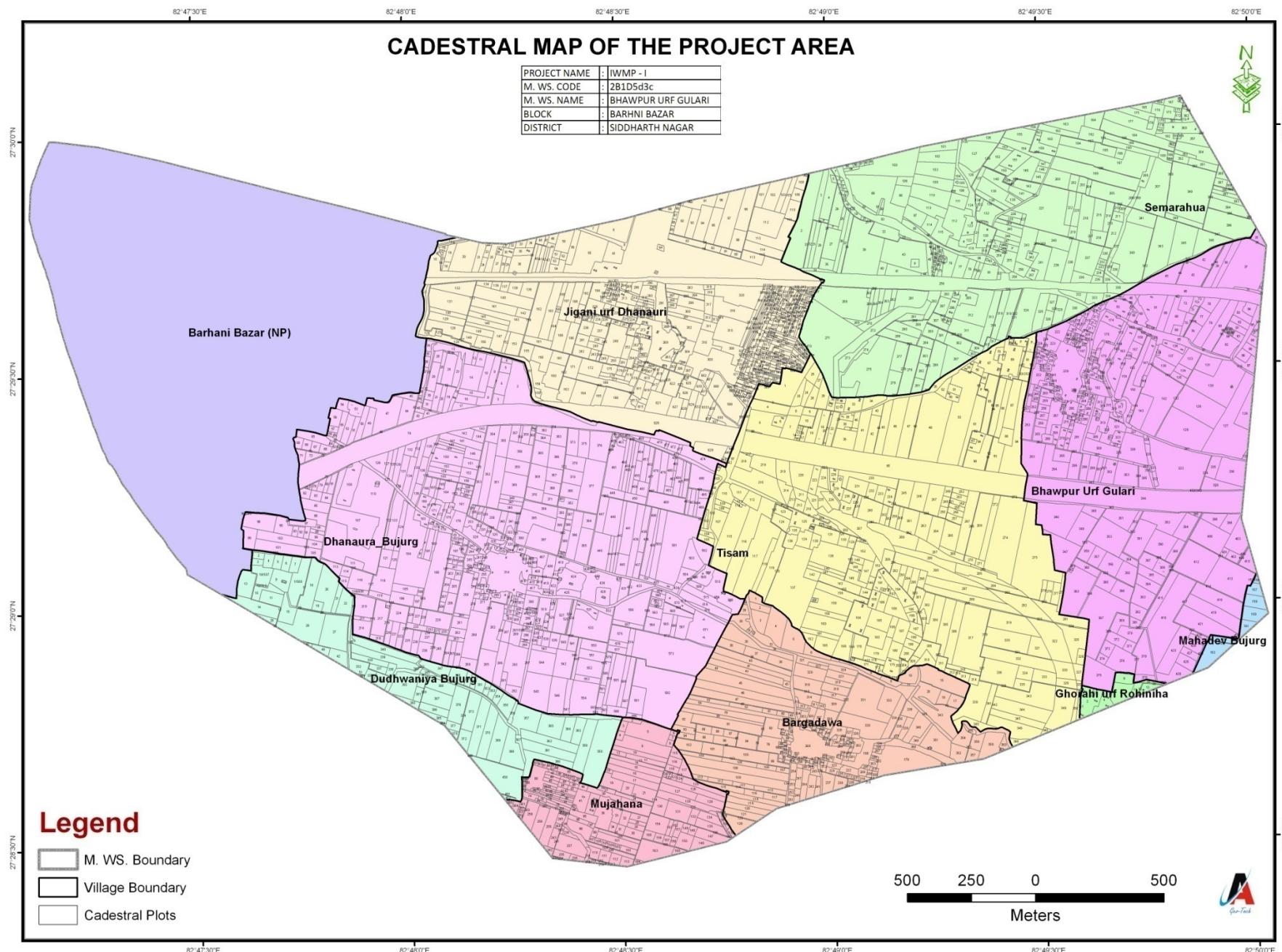
The village has quite a good of livestock population. These include cows, bullocks, buffaloes, goats, sheep and camels. The interventions like provision of good quality cows and buffaloes, the establishment of a fodder bank and other such related activities would spur up the dairy development in the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

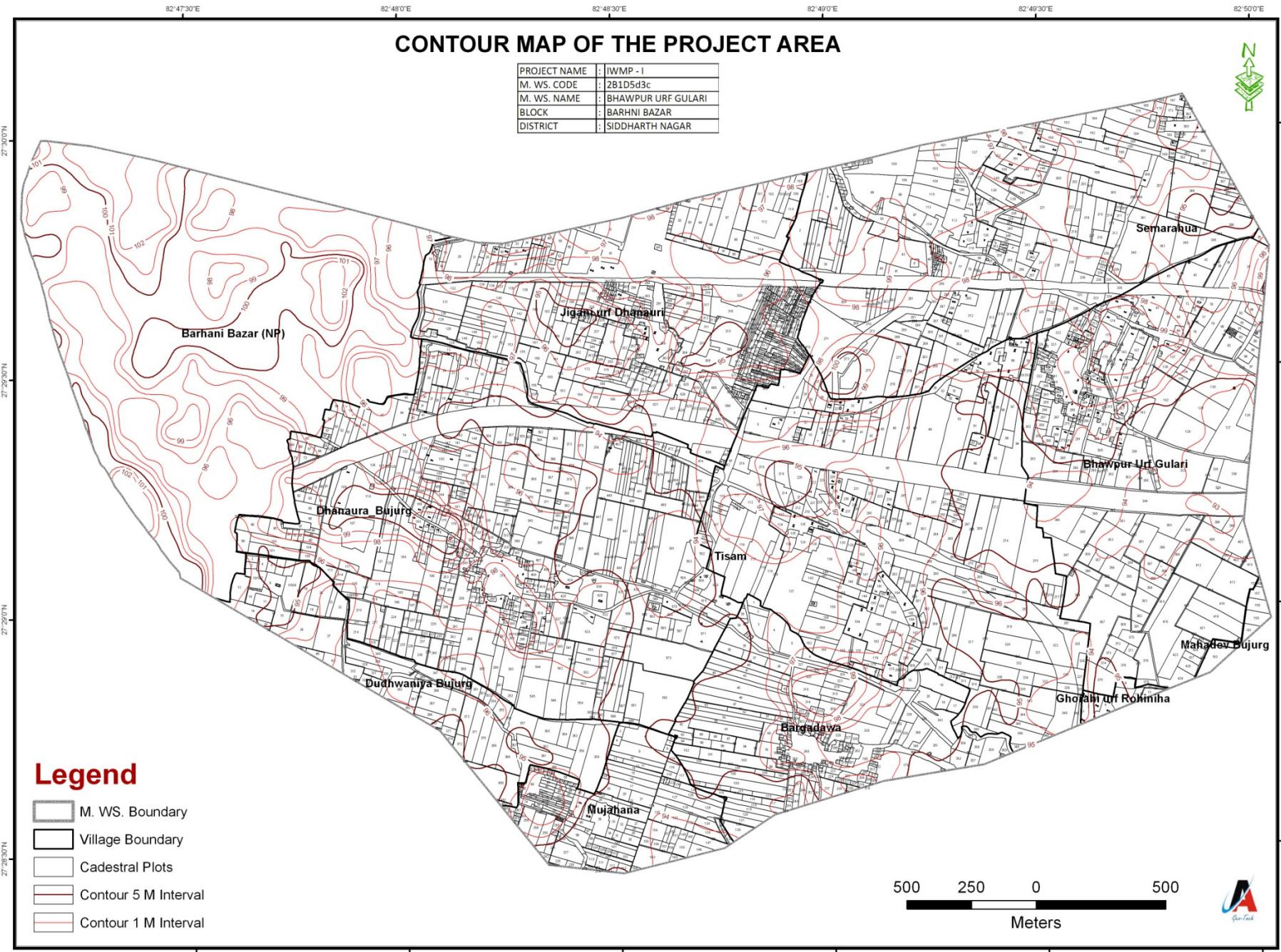
**Table No.8.6 Expected/Estimated Outcomes (IWMP-1<sup>st</sup>)-SIDDHARTH NAGAR**

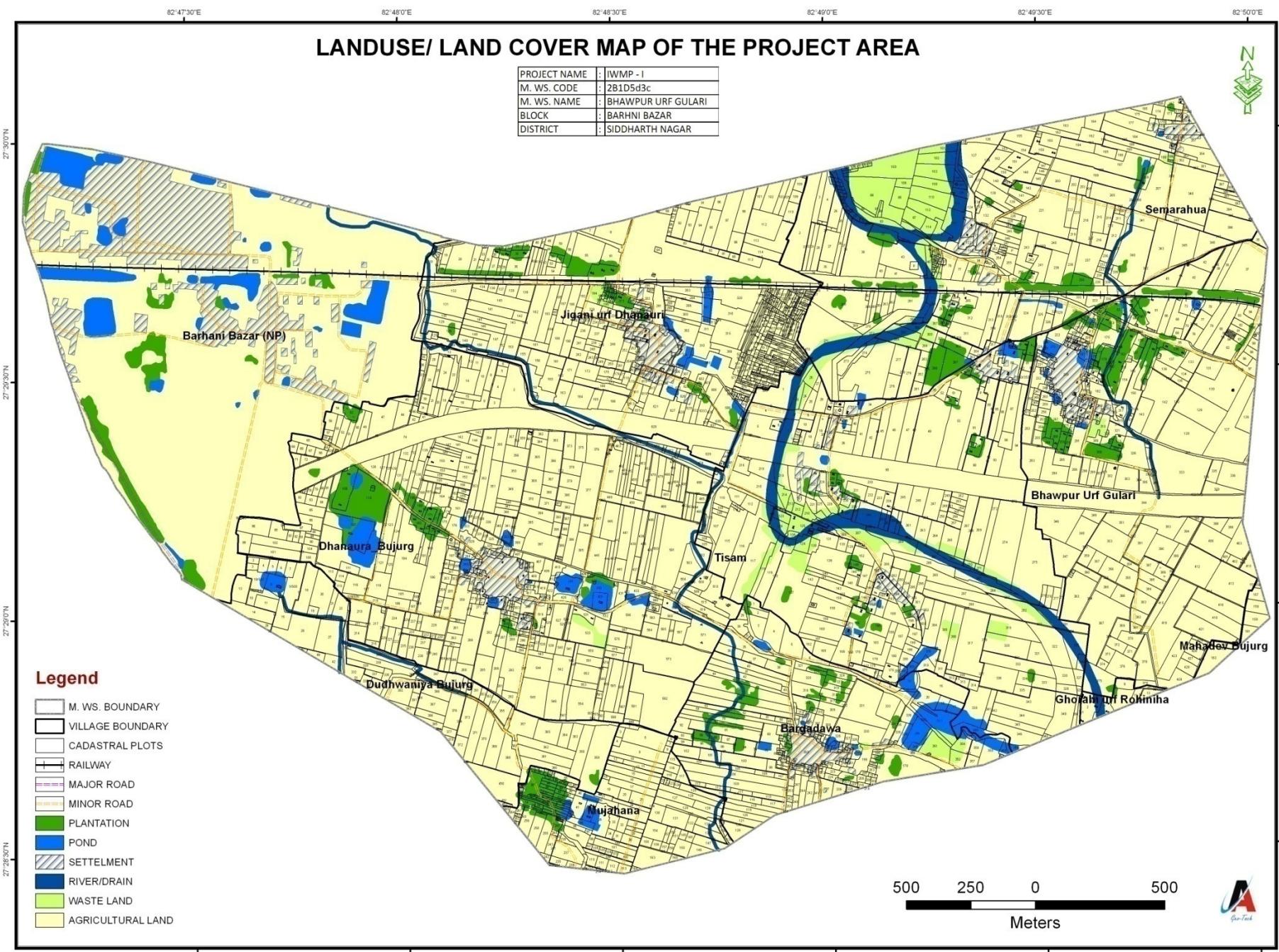
S. No.	Name of the District	Item	Unit of measurement	Pre-project Status	Expected Post-project Status	Remarks
1	Siddhartha nagar	Status of water table	Meters	6-7	5.5-6	
2		Ground water structures repaired/ rejuvenated	No.	-	42	
3		Quality of drinking water	Quality	Poor	Good	
4		Availability of drinking water	Days	300	365	
5		Increase in irrigation potential	%	4	6	
6		Change in cropping/ land use pattern	Cropping pattern	Single/ double	Double/ multiple	
7		Area under agricultural crop	Ha	8406	8476	
8		i Area under single crop	Ha	6639	2845	
9		ii Area under double crop	Ha	1113	4106	
10		iii Area under multiple crop	Ha	653	1526	
11		Increase in cropping intensity	%	121	184	
12		Increase in area under vegetation	Ha	4	191	
13		Increase in area under horticulture	Ha	4	28	
14		Increase in area under fuel & fodder	Ha	0	143	
15		Increase in milk production	Av.lit/day/ cattle	1.75	2.5	
16		No. of SHGs	No.	0	30	
18		Increase in income	Rs.	19800	28000	
19		Migration	%	11857	5857	
20		SHG Federations formed	No.	0	52	
21		Credit linkage with banks	No.	0	25	
22		Resource use agreements	%	-	100% as per required	
23		WDF collection & management	%	-	100% collection during project period	
		Summary of lessons learnt				

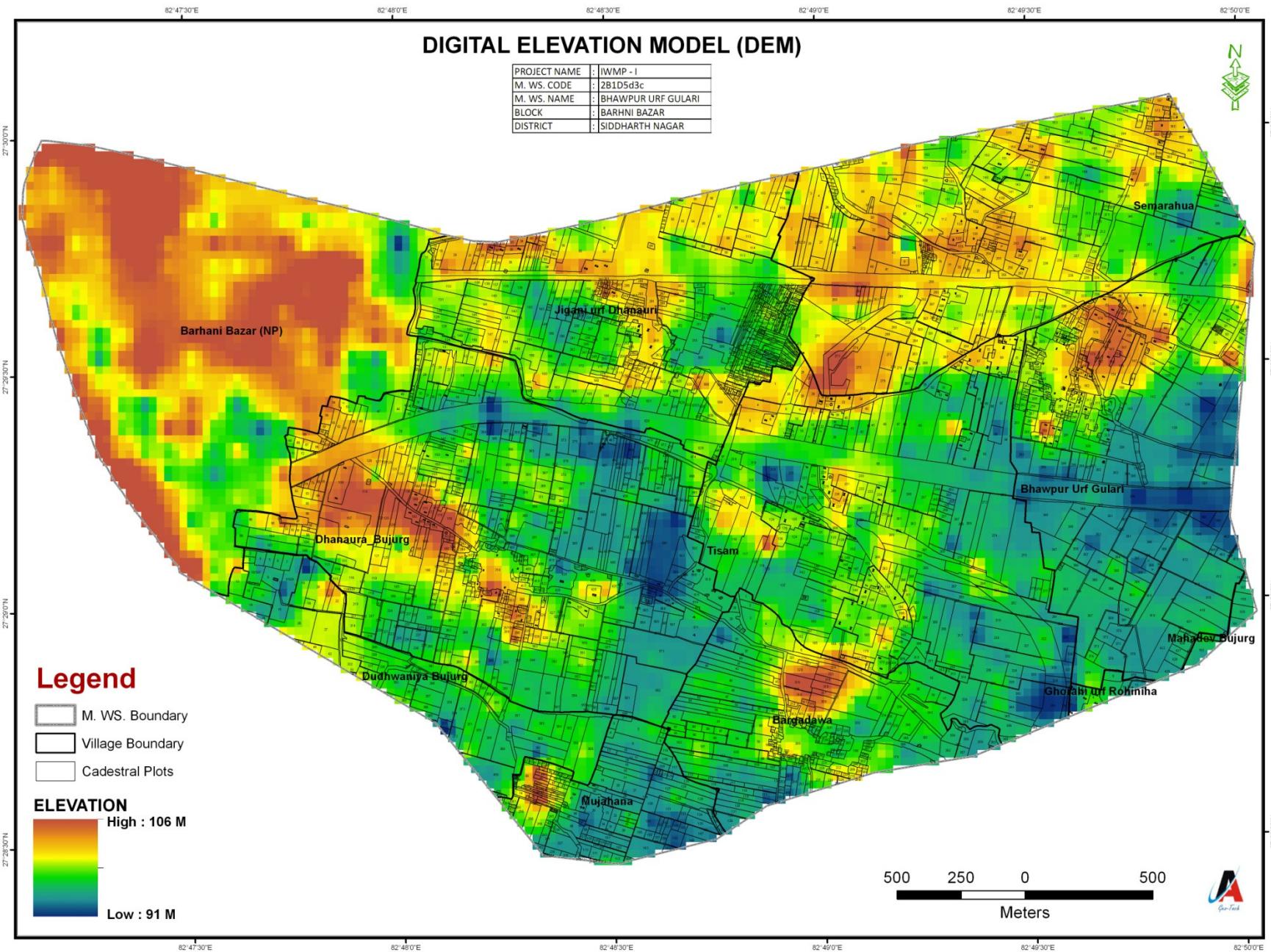
# MAPS OF MICROWATERSHED- BHAUPUR URF GULARI (2B1B5d3c)

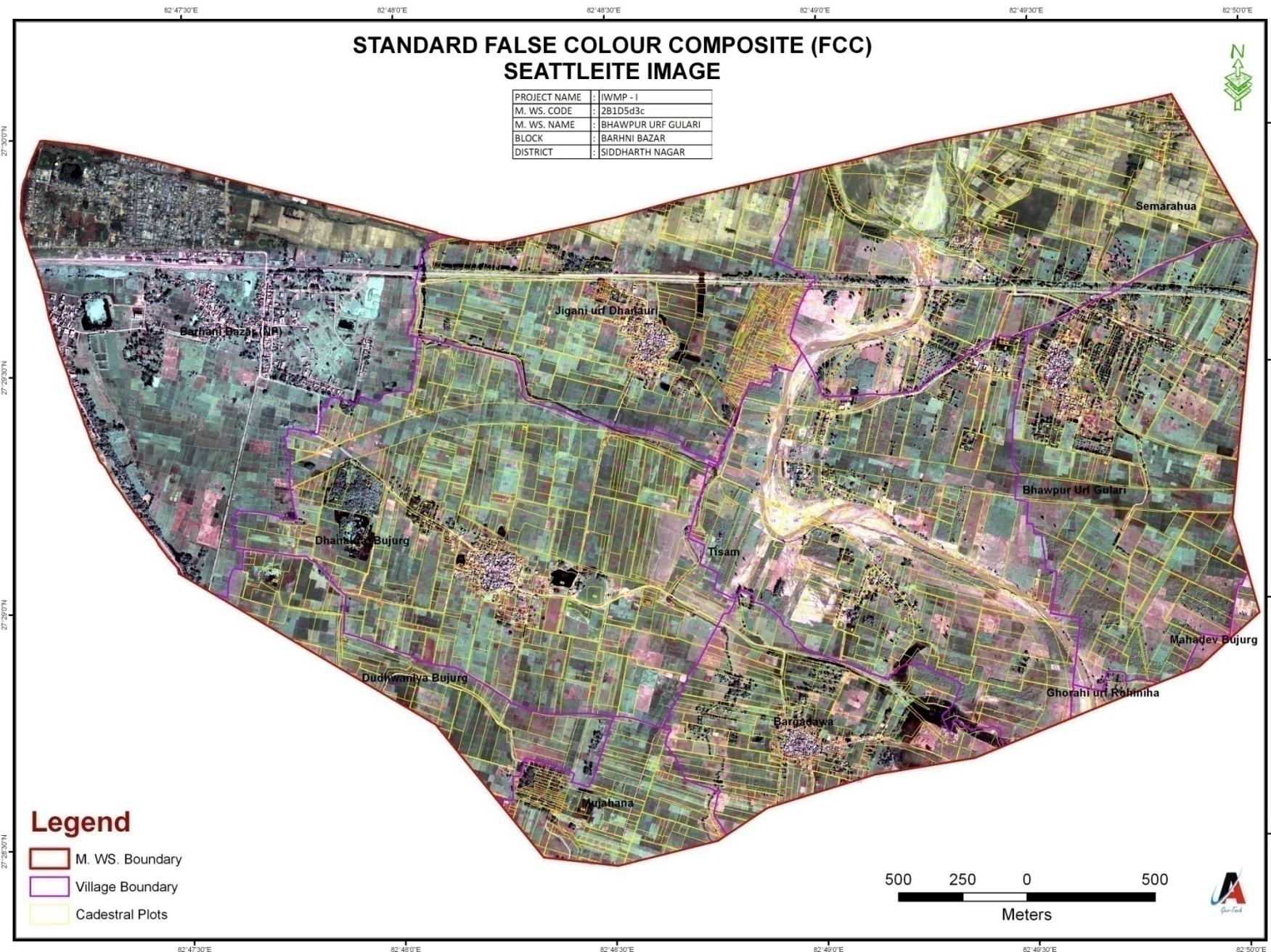


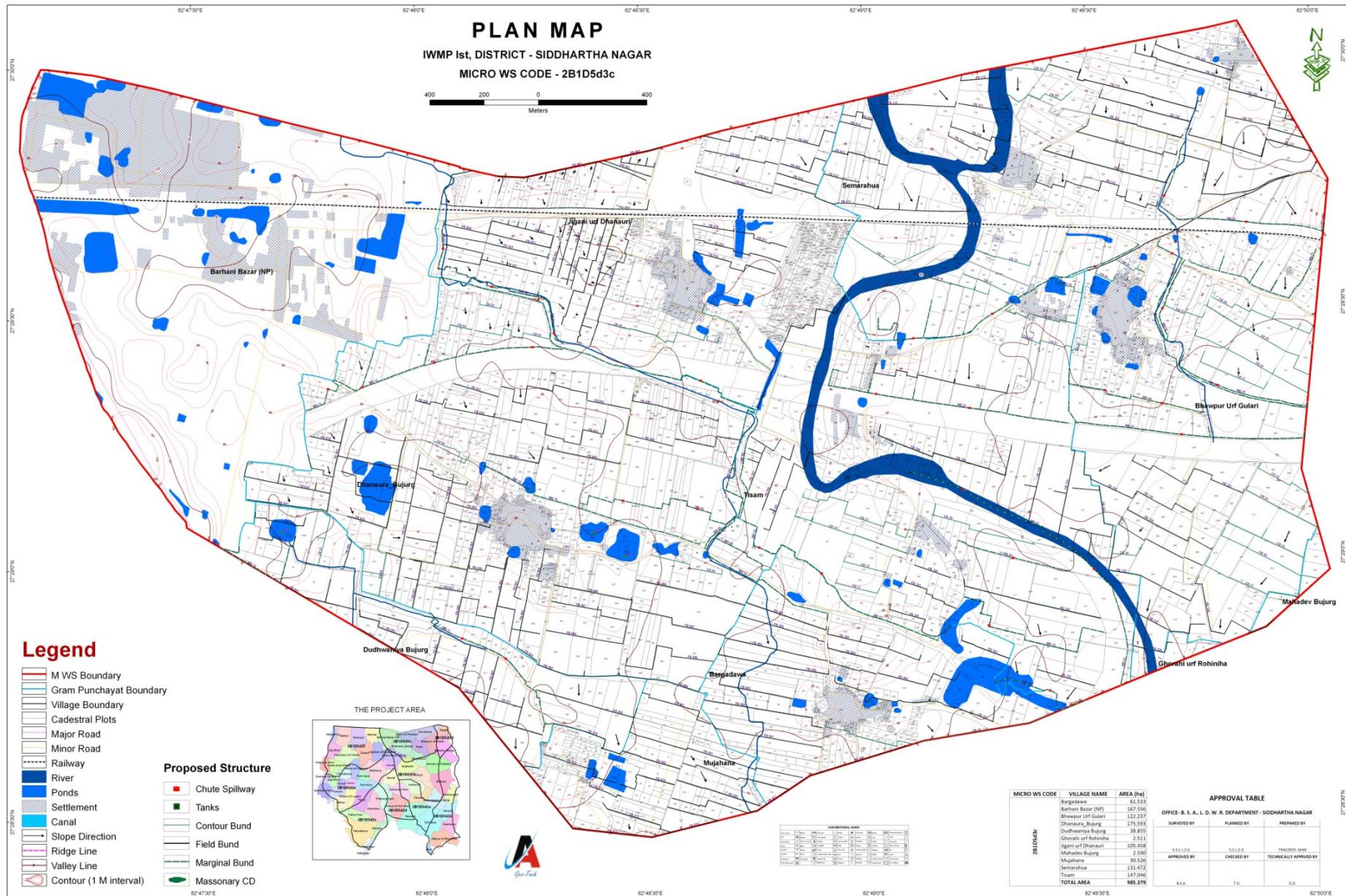












ANNEXURE:

### WORK ESTIMATE OF BHAWPUR URF GULARI (2B1D5d3c)

<b>ESTIMATE OF CONTOUR BUNDS, 2B1D5d3c</b>												<b>SODDING CHARGES</b>				
<b>WORK</b>	<b>KH. No.</b>	<b>VILL. NAME</b>	<b>LENGTH (Mtr.)</b>	<b>BASE (Mtr.)</b>	<b>TOP (Mtr.)</b>	<b>HIGHT (Mtr.)</b>	<b>CS (Sqr. Mtr.)</b>	<b>EW (Cmt.)</b>	<b>RATE (Rs.)</b>	<b>MD (No.)</b>	<b>L. CHARGES (Rs.)</b>	<b>T. COST (Rs.)</b>	<b>Sqr. Mtr.</b>	<b>RATE (Rs.)</b>	<b>S. AMOUNT (Rs.)</b>	<b>T. AMOUNT (Rs.)</b>
CB 01	307	Jigani urf Dhanauri	383	2.25	0.45	0.6	0.79	302.94	32.57	127	100	9866.83	1307.64	2.2	2876.80	12743.63
CB 02	613	Jigani urf Dhanauri	537	2.25	0.45	0.6	0.79	424.60	32.57	179	100	13829.08	1832.75	2.2	4032.05	17861.13
CB 03	13	Dhanaura_Bujurg	107	2.25	0.45	0.6	0.79	84.86	32.57	36	100	2764.03	366.31	2.2	805.89	3569.91
CB 04	21	Dhanaura_Bujurg	140	2.25	0.45	0.6	0.79	110.95	32.57	47	100	3613.70	478.92	2.2	1053.62	4667.33
CB 05	3	Dhanaura_Bujurg	343	2.25	0.45	0.6	0.79	270.59	32.57	114	100	8813.22	1168.00	2.2	2569.61	11382.83
CB 06	164	Dhanaura_Bujurg	210	2.25	0.45	0.6	0.79	165.74	32.57	70	100	5398.17	715.41	2.2	1573.90	6972.07
CB 07	19	Dudhwaniya Bujurg	261	2.25	0.45	0.6	0.79	206.18	32.57	87	100	6715.15	889.95	2.2	1957.89	8673.04
CB 08	100	Dhanaura_Bujurg	383	2.25	0.45	0.6	0.79	302.21	32.57	127	100	9842.92	1304.47	2.2	2869.83	12712.75
CB 09	567	Dhanaura_Bujurg	298	2.25	0.45	0.6	0.79	235.29	32.57	99	100	7663.47	1015.63	2.2	2234.38	9897.85
CB 10	206	Bargadawa	917	2.25	0.45	0.6	0.79	724.32	32.57	305	100	23591.07	3126.49	2.2	6878.28	30469.35
CB 11	166	Tisam	194	2.25	0.45	0.6	0.79	153.46	32.57	65	100	4998.26	662.41	2.2	1457.31	6455.57
CB 12	159	Tisam	180	2.25	0.45	0.6	0.79	142.05	32.57	60	100	4626.46	613.14	2.2	1348.90	5975.37
CB 13	118	Tisam	599	2.25	0.45	0.6	0.79	473.58	32.57	199	100	15424.50	2044.19	2.2	4497.21	19921.71
CB 14	118	Tisam	502	2.25	0.45	0.6	0.79	396.71	32.57	167	100	12920.76	1712.37	2.2	3767.21	16687.97
CB 15	269	Semarahua	349	2.25	0.45	0.6	0.79	275.63	32.57	116	100	8977.23	1189.74	2.2	2617.43	11594.66
CB 16	286	Semarahua	315	2.25	0.45	0.6	0.79	249.05	32.57	105	100	8111.45	1075.00	2.2	2365.00	10476.45
CB 17	303	Semarahua	210	2.25	0.45	0.6	0.79	166.17	32.57	70	100	5412.07	717.25	2.2	1577.96	6990.03
CB 18	311	Semarahua	230	2.25	0.45	0.6	0.79	181.33	32.57	76	100	5905.82	782.69	2.2	1721.92	7627.73
CB 19	83/353	Tisam	340	2.25	0.45	0.6	0.79	268.48	32.57	113	100	8744.32	1158.87	2.2	2549.52	11293.84
CB 20	62	Tisam	93	2.25	0.45	0.6	0.79	73.22	32.57	31	100	2384.68	316.04	2.2	695.28	3079.96
CB 21	94	Tisam	123	2.25	0.45	0.6	0.79	97.41	32.57	41	100	3172.68	420.47	2.2	925.03	4097.71
CB 22	81	Tisam	154	2.25	0.45	0.6	0.79	121.56	32.57	51	100	3959.25	524.71	2.2	1154.37	5113.62
CB 23	144	Semarahua	322	2.25	0.45	0.6	0.79	254.64	32.57	107	100	8293.49	1099.12	2.2	2418.07	10711.56
CB 24	124	Semarahua	194	2.25	0.45	0.6	0.79	153.13	32.57	64	100	4987.57	661.00	2.2	1454.19	6441.76
CB 25	208	Bhawpur Urf Gulari	144	2.25	0.45	0.6	0.79	113.80	32.57	48	100	3706.55	491.22	2.2	1080.69	4787.24

CB 26	239	Bhawpur Urf Gulari	112	2.25	0.45	0.6	0.79	88.73	32.57	37	100	2889.94	383.00	2.2	842.60	3732.54			
CB 27	142	Bhawpur Urf Gulari	174	2.25	0.45	0.6	0.79	137.12	32.57	58	100	4466.05	591.88	2.2	1302.14	5768.19			
CB 28	136	Bhawpur Urf Gulari	478	2.25	0.45	0.6	0.79	377.95	32.57	159	100	12309.87	1631.41	2.2	3589.10	15898.97			
CB 29	141	Bhawpur Urf Gulari	526	2.25	0.45	0.6	0.79	415.20	32.57	175	100	13523.09	1792.20	2.2	3942.83	17465.92			
CB 30	142	Bhawpur Urf Gulari	543	2.25	0.45	0.6	0.79	428.90	32.57	180	100	13969.21	1851.32	2.2	4072.90	18042.12			
CB 31	142	Bhawpur Urf Gulari	323	2.25	0.45	0.6	0.79	255.18	32.57	107	100	8311.32	1101.49	2.2	2423.27	10734.60			
CB 32	254	Bhawpur Urf Gulari	108	2.25	0.45	0.6	0.79	85.29	32.57	36	100	2777.88	368.15	2.2	809.93	3587.81			
CB 33	400	Bhawpur Urf Gulari	264	2.25	0.45	0.6	0.79	208.55	32.57	88	100	6792.52	900.20	2.2	1980.45	8772.97			
CB 34	400	Bhawpur Urf Gulari	318	2.25	0.45	0.6	0.79	251.29	32.57	106	100	8184.58	1084.69	2.2	2386.32	10570.90			
CB 35	412	Bhawpur Urf Gulari	373	2.25	0.45	0.6	0.79	294.87	32.57	124	100	9603.98	1272.80	2.2	2800.16	12404.15			
CB 36	161	Mahadev Bujurg	436	2.25	0.45	0.6	0.79	344.33	32.57	145	100	11214.82	1486.28	2.2	3269.83	14484.65			
CB 37	420	Bhawpur Urf Gulari	431	2.25	0.45	0.6	0.79	340.80	32.57	143	100	11099.76	1471.03	2.2	3236.28	14336.03			
CB 38	276	Tisam	139	2.25	0.45	0.6	0.79	110.02	32.57	46	100	3583.20	474.88	2.2	1044.73	4627.93			
CB 39	282	Tisam	452	2.25	0.45	0.6	0.79	357.15	32.57	150	100	11632.47	1541.64	2.2	3391.60	15024.07			
TOTAL			12207					9643.27			4057				314081.42	41624.76		91574.48	405655.90

**ESTIMATE OF FIELD BUNDS, 2B1D5d3c**

<b>WORK</b>	<b>KH. No.</b>	<b>VILL. NAME</b>	<b>LENGTH</b>	<b>BASE</b>	<b>TOP</b>	<b>HIGHT</b>	<b>CS</b>	<b>EW</b>	<b>RATE</b>	<b>MD</b>	<b>L. CHARGES</b>	<b>T. COST</b>
FB 001	9	Jigani urf Dhanauri	833	1.65	0.45	0.6	0.60	499.50	32.57	163	100	16268.80
FB 002	8	Jigani urf Dhanauri	362	1.65	0.45	0.6	0.60	217.21	32.57	71	100	7074.67
FB 003	8	Jigani urf Dhanauri	191	1.65	0.45	0.6	0.60	114.51	32.57	37	100	3729.48
FB 004	10	Jigani urf Dhanauri	995	1.65	0.45	0.6	0.60	597.24	32.57	195	100	19452.05
FB 005	10	Jigani urf Dhanauri	303	1.65	0.45	0.6	0.60	181.54	32.57	59	100	5912.81
FB 006	94	Jigani urf Dhanauri	282	1.65	0.45	0.6	0.60	168.93	32.57	55	100	5502.20
FB 007	89	Jigani urf Dhanauri	349	1.65	0.45	0.6	0.60	209.24	32.57	68	100	6815.04
FB 008	110	Jigani urf Dhanauri	229	1.65	0.45	0.6	0.60	137.21	32.57	45	100	4468.79
FB 009	10	Jigani urf Dhanauri	211	1.65	0.45	0.6	0.60	126.56	32.57	41	100	4122.08
FB 010	10	Jigani urf Dhanauri	158	1.65	0.45	0.6	0.60	94.57	32.57	31	100	3080.18
FB 011	10	Jigani urf Dhanauri	859	1.65	0.45	0.6	0.60	515.25	32.57	168	100	16781.76
FB 012	10	Jigani urf Dhanauri	136	1.65	0.45	0.6	0.60	81.41	32.57	27	100	2651.52
FB 013	25	Semarahua	236	1.65	0.45	0.6	0.60	141.52	32.57	46	100	4609.36
FB 014	10	Jigani urf Dhanauri	117	1.65	0.45	0.6	0.60	70.05	32.57	23	100	2281.44
FB 015	10	Jigani urf Dhanauri	153	1.65	0.45	0.6	0.60	91.51	32.57	30	100	2980.56
FB 016	318	Jigani urf Dhanauri	163	1.65	0.45	0.6	0.60	97.52	32.57	32	100	3176.10
FB 017	395	Jigani urf Dhanauri	215	1.65	0.45	0.6	0.60	128.85	32.57	42	100	4196.64
FB 018	299	Jigani urf Dhanauri	343	1.65	0.45	0.6	0.60	205.64	32.57	67	100	6697.75
FB 019	310	Jigani urf Dhanauri	356	1.65	0.45	0.6	0.60	213.58	32.57	70	100	6956.31
FB 020	240	Jigani urf Dhanauri	537	1.65	0.45	0.6	0.60	322.49	32.57	105	100	10503.46
FB 021	163	Jigani urf Dhanauri	662	1.65	0.45	0.6	0.60	397.20	32.57	129	100	12936.90
FB 022	160	Jigani urf Dhanauri	474	1.65	0.45	0.6	0.60	284.61	32.57	93	100	9269.85
FB 023	181	Jigani urf Dhanauri	356	1.65	0.45	0.6	0.60	213.35	32.57	69	100	6948.94
FB 024	181	Jigani urf Dhanauri	327	1.65	0.45	0.6	0.60	196.24	32.57	64	100	6391.49
FB 025	181	Jigani urf Dhanauri	270	1.65	0.45	0.6	0.60	161.83	32.57	53	100	5270.84
FB 026	181	Jigani urf Dhanauri	271	1.65	0.45	0.6	0.60	162.64	32.57	53	100	5297.07
FB 027	153	Jigani urf Dhanauri	571	1.65	0.45	0.6	0.60	342.71	32.57	112	100	11161.98
FB 028	142	Jigani urf Dhanauri	411	1.65	0.45	0.6	0.60	246.79	32.57	80	100	8037.93
FB 029	140	Jigani urf Dhanauri	330	1.65	0.45	0.6	0.60	198.26	32.57	65	100	6457.20

FB 030	131	Jigani urf Dhanauri	218	1.65	0.45	0.6	0.60	130.88	32.57	43	100	4262.81
FB 031	142	Jigani urf Dhanauri	280	1.65	0.45	0.6	0.60	167.89	32.57	55	100	5468.31
FB 032	79	Dhanaura_Bujurg	208	1.65	0.45	0.6	0.60	124.61	32.57	41	100	4058.50
FB 033	87	Dhanaura_Bujurg	281	1.65	0.45	0.6	0.60	168.41	32.57	55	100	5485.00
FB 034	95	Dhanaura_Bujurg	430	1.65	0.45	0.6	0.60	258.29	32.57	84	100	8412.53
FB 035	111	Dhanaura_Bujurg	984	1.65	0.45	0.6	0.60	590.56	32.57	192	100	19234.50
FB 036	134	Dhanaura_Bujurg	151	1.65	0.45	0.6	0.60	90.83	32.57	30	100	2958.45
FB 037	145	Dhanaura_Bujurg	173	1.65	0.45	0.6	0.60	103.86	32.57	34	100	3382.85
FB 038	151	Dhanaura_Bujurg	220	1.65	0.45	0.6	0.60	132.04	32.57	43	100	4300.38
FB 039	484	Dhanaura_Bujurg	374	1.65	0.45	0.6	0.60	224.65	32.57	73	100	7316.97
FB 040	484	Dhanaura_Bujurg	545	1.65	0.45	0.6	0.60	327.24	32.57	107	100	10658.13
FB 041	377	Dhanaura_Bujurg	572	1.65	0.45	0.6	0.60	342.94	32.57	112	100	11169.42
FB 042	377	Dhanaura_Bujurg	639	1.65	0.45	0.6	0.60	383.42	32.57	125	100	12487.85
FB 043	377	Dhanaura_Bujurg	291	1.65	0.45	0.6	0.60	174.55	32.57	57	100	5685.04
FB 044	351	Dhanaura_Bujurg	250	1.65	0.45	0.6	0.60	150.26	32.57	49	100	4894.06
FB 045	100	Dhanaura_Bujurg	671	1.65	0.45	0.6	0.60	402.35	32.57	131	100	13104.59
FB 046	182	Dhanaura_Bujurg	886	1.65	0.45	0.6	0.60	531.58	32.57	173	100	17313.50
FB 047	104	Dhanaura_Bujurg	421	1.65	0.45	0.6	0.60	252.78	32.57	82	100	8233.09
FB 048	9	Dudhwaniya Bujurg	244	1.65	0.45	0.6	0.60	146.14	32.57	48	100	4759.80
FB 049	10/510	Dudhwaniya Bujurg	190	1.65	0.45	0.6	0.60	114.04	32.57	37	100	3714.32
FB 050	21	Dudhwaniya Bujurg	134	1.65	0.45	0.6	0.60	80.21	32.57	26	100	2612.53
FB 051		Dudhwaniya Bujurg	422	1.65	0.45	0.6	0.60	253.02	32.57	82	100	8240.77
FB 052	337	Dudhwaniya Bujurg	605	1.65	0.45	0.6	0.60	362.95	32.57	118	100	11821.16
FB 053	100	Dhanaura_Bujurg	255	1.65	0.45	0.6	0.60	152.93	32.57	50	100	4981.00
FB 054	100	Dhanaura_Bujurg	417	1.65	0.45	0.6	0.60	250.42	32.57	82	100	8156.08
FB 055	100	Dhanaura_Bujurg	113	1.65	0.45	0.6	0.60	67.92	32.57	22	100	2212.21
FB 056	100	Dhanaura_Bujurg	210	1.65	0.45	0.6	0.60	125.79	32.57	41	100	4096.86
FB 057	100	Dhanaura_Bujurg	185	1.65	0.45	0.6	0.60	110.78	32.57	36	100	3607.95
FB 058	100	Dhanaura_Bujurg	400	1.65	0.45	0.6	0.60	239.88	32.57	78	100	7812.99
FB 059	285	Dhanaura_Bujurg	290	1.65	0.45	0.6	0.60	173.74	32.57	57	100	5658.62
FB 060	285	Dhanaura_Bujurg	582	1.65	0.45	0.6	0.60	349.15	32.57	114	100	11371.80
FB 061	286	Dhanaura_Bujurg	196	1.65	0.45	0.6	0.60	117.46	32.57	38	100	3825.83
FB 062	297	Dhanaura_Bujurg	160	1.65	0.45	0.6	0.60	95.70	32.57	31	100	3116.98

FB 063	393	Dudhwaniya Bujurg	228	1.65	0.45	0.6	0.60	137.00	32.57	45	100	4462.15
FB 064	377	Dudhwaniya Bujurg	349	1.65	0.45	0.6	0.60	209.41	32.57	68	100	6820.45
FB 065	292	Dhanaura_Bujurg	90	1.65	0.45	0.6	0.60	54.26	32.57	18	100	1767.40
FB 066	534	Dhanaura_Bujurg	306	1.65	0.45	0.6	0.60	183.47	32.57	60	100	5975.50
FB 067	542	Dhanaura_Bujurg	365	1.65	0.45	0.6	0.60	219.28	32.57	71	100	7141.95
FB 068	544	Dhanaura_Bujurg	357	1.65	0.45	0.6	0.60	214.40	32.57	70	100	6982.95
FB 069	372	Dudhwaniya Bujurg	363	1.65	0.45	0.6	0.60	217.89	32.57	71	100	7096.82
FB 070	378	Dudhwaniya Bujurg	39	1.65	0.45	0.6	0.60	23.52	32.57	8	100	766.01
FB 071	360	Dudhwaniya Bujurg	480	1.65	0.45	0.6	0.60	288.11	32.57	94	100	9383.85
FB 072	164	Mujahana	942	1.65	0.45	0.6	0.60	565.02	32.57	184	100	18402.60
FB 073	94	Mujahana	313	1.65	0.45	0.6	0.60	187.73	32.57	61	100	6114.29
FB 074	99	Mujahana	152	1.65	0.45	0.6	0.60	91.04	32.57	30	100	2965.15
FB 075	102	Mujahana	234	1.65	0.45	0.6	0.60	140.16	32.57	46	100	4565.00
FB 076	164	Mujahana	427	1.65	0.45	0.6	0.60	256.18	32.57	83	100	8343.64
FB 077	158	Mujahana	487	1.65	0.45	0.6	0.60	292.32	32.57	95	100	9520.99
FB 078	34	Mujahana	263	1.65	0.45	0.6	0.60	157.87	32.57	51	100	5141.92
FB 079	51	Mujahana	353	1.65	0.45	0.6	0.60	212.09	32.57	69	100	6907.87
FB 080	22	Mujahana	225	1.65	0.45	0.6	0.60	135.19	32.57	44	100	4403.19
FB 081	18	Mujahana	722	1.65	0.45	0.6	0.60	433.49	32.57	141	100	14118.74
FB 082	9	Mujahana	411	1.65	0.45	0.6	0.60	246.87	32.57	80	100	8040.53
FB 083	117	Mujahana	319	1.65	0.45	0.6	0.60	191.36	32.57	62	100	6232.66
FB 084	93	Bargadawa	332	1.65	0.45	0.6	0.60	199.04	32.57	65	100	6482.88
FB 085	555	Dhanaura_Bujurg	342	1.65	0.45	0.6	0.60	205.32	32.57	67	100	6687.38
FB 086	588	Dhanaura_Bujurg	465	1.65	0.45	0.6	0.60	279.29	32.57	91	100	9096.57
FB 087	45	Bargadawa	451	1.65	0.45	0.6	0.60	270.72	32.57	88	100	8817.39
FB 088	40	Bargadawa	413	1.65	0.45	0.6	0.60	247.83	32.57	81	100	8071.77
FB 089	135	Mujahana	321	1.65	0.45	0.6	0.60	192.37	32.57	63	100	6265.43
FB 090	244	Bargadawa	899	1.65	0.45	0.6	0.60	539.19	32.57	176	100	17561.26
FB 091	109	Bargadawa	422	1.65	0.45	0.6	0.60	253.23	32.57	82	100	8247.67
FB 092	97	Bargadawa	475	1.65	0.45	0.6	0.60	285.11	32.57	93	100	9286.19
FB 093	83	Bargadawa	367	1.65	0.45	0.6	0.60	220.49	32.57	72	100	7181.43
FB 094	48	Bargadawa	456	1.65	0.45	0.6	0.60	273.57	32.57	89	100	8910.05
FB 095	46	Bargadawa	388	1.65	0.45	0.6	0.60	232.77	32.57	76	100	7581.43

FB 096	43	Bargadawa	347	1.65	0.45	0.6	0.60	208.25	32.57	68	100	6782.57
FB 097	37	Bargadawa	358	1.65	0.45	0.6	0.60	214.91	32.57	70	100	6999.58
FB 098	338	Bargadawa	548	1.65	0.45	0.6	0.60	328.66	32.57	107	100	10704.36
FB 099	309	Bargadawa	238	1.65	0.45	0.6	0.60	142.53	32.57	46	100	4642.13
FB 100	320	Bargadawa	432	1.65	0.45	0.6	0.60	259.29	32.57	84	100	8445.20
FB 101	291	Bargadawa	783	1.65	0.45	0.6	0.60	469.93	32.57	153	100	15305.50
FB 102	345	Tisam	221	1.65	0.45	0.6	0.60	132.85	32.57	43	100	4326.88
FB 103	11	Bargadawa	209	1.65	0.45	0.6	0.60	125.26	32.57	41	100	4079.77
FB 104	203	Tisam	335	1.65	0.45	0.6	0.60	201.05	32.57	65	100	6548.20
FB 105	120	Tisam	425	1.65	0.45	0.6	0.60	255.26	32.57	83	100	8313.69
FB 106	115	Tisam	304	1.65	0.45	0.6	0.60	182.45	32.57	59	100	5942.42
FB 107	108	Tisam	425	1.65	0.45	0.6	0.60	255.01	32.57	83	100	8305.75
FB 108	244	Tisam	272	1.65	0.45	0.6	0.60	163.27	32.57	53	100	5317.69
FB 109	245	Tisam	388	1.65	0.45	0.6	0.60	232.93	32.57	76	100	7586.38
FB 110	286	Tisam	339	1.65	0.45	0.6	0.60	203.55	32.57	66	100	6629.47
FB 111	61	Tisam	645	1.65	0.45	0.6	0.60	386.80	32.57	126	100	12598.21
FB 112	234	Semarahua	669	1.65	0.45	0.6	0.60	401.26	32.57	131	100	13068.98
FB 113	218	Semarahua	601	1.65	0.45	0.6	0.60	360.66	32.57	117	100	11746.54
FB 114	87	Semarahua	358	1.65	0.45	0.6	0.60	214.58	32.57	70	100	6988.93
FB 115	100	Semarahua	301	1.65	0.45	0.6	0.60	180.33	32.57	59	100	5873.42
FB 116	111	Semarahua	294	1.65	0.45	0.6	0.60	176.46	32.57	57	100	5747.19
FB 117	104	Semarahua	221	1.65	0.45	0.6	0.60	132.74	32.57	43	100	4323.36
FB 118	100	Semarahua	189	1.65	0.45	0.6	0.60	113.27	32.57	37	100	3689.20
FB 119	197	Semarahua	696	1.65	0.45	0.6	0.60	417.56	32.57	136	100	13599.98
FB 120	206/398	Semarahua	400	1.65	0.45	0.6	0.60	240.18	32.57	78	100	7822.54
FB 121	203	Semarahua	393	1.65	0.45	0.6	0.60	236.04	32.57	77	100	7687.87
FB 122	218	Semarahua	478	1.65	0.45	0.6	0.60	286.69	32.57	93	100	9337.41
FB 123	358	Semarahua	447	1.65	0.45	0.6	0.60	267.94	32.57	87	100	8726.76
FB 124	181	Semarahua	332	1.65	0.45	0.6	0.60	199.34	32.57	65	100	6492.58
FB 125	387	Semarahua	335	1.65	0.45	0.6	0.60	201.12	32.57	66	100	6550.37
FB 126	393	Semarahua	383	1.65	0.45	0.6	0.60	229.78	32.57	75	100	7484.02
FB 127	392	Semarahua	658	1.65	0.45	0.6	0.60	395.07	32.57	129	100	12867.46
FB 128	344	Semarahua	562	1.65	0.45	0.6	0.60	337.39	32.57	110	100	10988.71

FB 129	347	Bhawpur Urf Gulari	304	1.65	0.45	0.6	0.60	182.30	32.57	59	100	5937.58
FB 130	391	Bhawpur Urf Gulari	264	1.65	0.45	0.6	0.60	158.37	32.57	52	100	5158.16
FB 131	391	Bhawpur Urf Gulari	555	1.65	0.45	0.6	0.60	333.01	32.57	108	100	10846.16
FB 132	280	Tisam	555	1.65	0.45	0.6	0.60	332.82	32.57	108	100	10839.82
FB 133	275	Tisam	385	1.65	0.45	0.6	0.60	230.82	32.57	75	100	7517.89
FB 134	358	Bhawpur Urf Gulari	384	1.65	0.45	0.6	0.60	230.41	32.57	75	100	7504.38
FB 135	372	Bhawpur Urf Gulari	894	1.65	0.45	0.6	0.60	536.33	32.57	175	100	17468.37
FB 136	429	Bhawpur Urf Gulari	533	1.65	0.45	0.6	0.60	319.95	32.57	104	100	10420.64
FB 137	326	Tisam	346	1.65	0.45	0.6	0.60	207.37	32.57	68	100	6754.12
FB 138	327	Tisam	233	1.65	0.45	0.6	0.60	139.64	32.57	45	100	4548.12
FB 139	330	Tisam	542	1.65	0.45	0.6	0.60	325.19	32.57	106	100	10591.45
FB 140	186	Tisam	141	1.65	0.45	0.6	0.60	84.72	32.57	28	100	2759.37
FB 141	200	Tisam	265	1.65	0.45	0.6	0.60	158.97	32.57	52	100	5177.77
<b>TOTAL</b>			<b>54439</b>					<b>32663.13</b>			<b>10638</b>	
												<b>1063838.08</b>

ESTIMATE OF MARGINAL BUNDS, 2B1D5d3c												SODDING CHARGES				
WOR K	KH. No.	VILL. NAME	LENGT H	BAS E	TO P	HIGH T	CS	EW	RAT E	MD	L. CHARGE S	T. COST	Sqr. Mtr.	RAT E	S. AMOUN T	T. AMOUN T
MB 01	128	Jigani urf Dhanauri	235	3.6	0.6	1	2.0 5	481.59	32.57	179	100	15685.41	986.67	2.2	2170.68	17856.09
MB 02	150	Jigani urf Dhanauri	358	3.6	0.6	1	2.0 5	734.70	32.57	272	100	23929.23	1505.24	2.2	3311.53	27240.76
MB 03	155	Jigani urf Dhanauri	246	3.6	0.6	1	2.0 5	503.81	32.57	187	100	16409.07	1032.19	2.2	2270.83	18679.90
MB 04	502	Dhanaura_Bujur g	1921	3.6	0.6	1	2.0 5	3938.83	32.57	1460	100	128287.73	8069.80	2.2	17753.56	146041.29
MB 05	503	Dhanaura_Bujur g	678	3.6	0.6	1	2.0 5	1390.66	32.57	516	100	45293.81	2849.16	2.2	6268.15	51561.96
MB 06	518	Dhanaura_Bujur g	112	3.6	0.6	1	2.0 5	229.14	32.57	85	100	7463.02	469.45	2.2	1032.80	8495.82
MB 07	8	Bargadawa	745	3.6	0.6	1	2.0 5	1527.82	32.57	566	100	49761.17	3130.17	2.2	6886.38	56647.55
MB 08	106	Tisam	412	3.6	0.6	1	2.0 5	844.57	32.57	313	100	27507.73	1730.34	2.2	3806.76	31314.49
MB 09	515	Dhanaura_Bujur g	401	3.6	0.6	1	2.0 5	822.08	32.57	305	100	26775.25	1684.27	2.2	3705.39	30480.63
MB 10	38	Bargadawa	551	3.6	0.6	1	2.0 5	1130.03	32.57	419	100	36804.93	2315.17	2.2	5093.38	41898.31
MB 11	16	Dhanaura_Bujur g	556	3.6	0.6	1	2.0 5	1139.02	32.57	422	100	37097.97	2333.61	2.2	5133.94	42231.91
MB 12	47	Dhanaura_Bujur g	583	3.6	0.6	1	2.0 5	1196.03	32.57	443	100	38954.76	2450.41	2.2	5390.90	44345.65
MB 13	66	Dhanaura_Bujur g	211	3.6	0.6	1	2.0 5	432.17	32.57	160	100	14075.80	885.42	2.2	1947.93	16023.73
MB 14	30	Dudhwaniya Bujurg	481	3.6	0.6	1	2.0 5	986.47	32.57	366	100	32129.46	2021.07	2.2	4446.35	36575.81
MB 15	334	Dhanaura_Bujur g	213	3.6	0.6	1	2.0 5	435.85	32.57	162	100	14195.53	892.95	2.2	1964.50	16160.03
MB 16	321	Dhanaura_Bujur g	657	3.6	0.6	1	2.0 5	1345.87	32.57	499	100	43835.10	2757.40	2.2	6066.28	49901.38
MB 17	367	Dudhwaniya Bujurg	660	3.6	0.6	1	2.0 5	1354.00	32.57	502	100	44099.89	2774.06	2.2	6102.92	50202.82
MB 18	348	Tisam	434	3.6	0.6	1	2.0 5	890.65	32.57	330	100	29008.37	1824.74	2.2	4014.43	33022.80
MB 19	334	Tisam	736	3.6	0.6	1	2.0 5	1509.64	32.57	560	100	49168.93	3092.92	2.2	6804.42	55973.35
MB 20	323	Tisam	436	3.6	0.6	1	2.0 5	893.84	32.57	331	100	29112.47	1831.29	2.2	4028.83	33141.31
MB 21	350	Tisam	134	3.6	0.6	1	2.0 5	274.72	32.57	102	100	8947.47	562.83	2.2	1238.23	10185.70
MB 22	264	Tisam	1131	3.6	0.6	1	2.0 5	2319.25	32.57	860	100	75538.05	4751.64	2.2	10453.61	85991.65
MB 23	61	Tisam	1152	3.6	0.6	1	2.0	2362.07	32.57	876	100	76932.57	4839.36	2.2	10646.59	87579.17

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MB 24	302	Bhawpur Urf Gulari	995	3.6	0.6	1	2.0 5	2039.56	32.57	756	100	66428.51	4178.61	2.2	9192.95	75621.46
MB 25	34	Tisam	1357	3.6	0.6	1	2.0 5	2781.48	32.57	1031	100	90592.65	5698.63	2.2	12536.99	103129.64
MB 26	271	Bhawpur Urf Gulari	615	3.6	0.6	1	2.0 5	1261.43	32.57	468	100	41084.86	2584.40	2.2	5685.68	46770.54
MB 27	327	Bhawpur Urf Gulari	684	3.6	0.6	1	2.0 5	1403.02	32.57	520	100	45696.20	2874.47	2.2	6323.83	52020.03
MB 28	336	Bhawpur Urf Gulari	403	3.6	0.6	1	2.0 5	827.00	32.57	307	100	26935.43	1694.34	2.2	3727.56	30662.98
MB 29	142	Bhawpur Urf Gulari	560	3.6	0.6	1	2.0 5	1147.54	32.57	425	100	37375.38	2351.06	2.2	5172.33	42547.71
MB 30	154	Bhawpur Urf Gulari	367	3.6	0.6	1	2.0 5	752.87	32.57	279	100	24520.88	1542.46	2.2	3393.41	27914.29
MB 31	110	Bhawpur Urf Gulari	809	3.6	0.6	1	2.0 5	1659.32	32.57	615	100	54043.98	3399.58	2.2	7479.07	61523.05
MB 32	31	Bhawpur Urf Gulari	932	3.6	0.6	1	2.0 5	1909.67	32.57	708	100	62198.03	3912.50	2.2	8607.50	70805.53
MB 33	511	Dhanaura_Bujurg	222	3.6	0.6	1	2.0 5	455.04	32.57	169	100	14820.53	932.27	2.2	2050.99	16871.52
<b>TOTAL</b>			<b>19990</b>					<b>40979.7</b>		<b>1519</b>		<b>1334710.1</b>	<b>83958.4</b>		<b>184708.69</b>	<b>1519418.8</b>
																<b>6</b>