

INTEGRATED WATERSHED MANAGEMENT PROGRAMME

BHIM NAGAR - I

SOT RIVER WATERSHED

BLOCK BEHJOI

DISTRICT BHIM NAGAR

[2009 – 10]

DETAIL PROJECT REPORT (DPR)



Submitted By

BSA

DEPARTMENT OF LAND AND WATER RESOURCE

RAMGANGA COMMAND PROJECT,

MORADABAD

UTTAR PRADESH

CHAPTER-1

INTRODUCTION AND PROJECT BACKGROUND

1.1: Project Background:

IWMP-I project is located mainly in Behjoi Block along with few partial villages of Panwasa and Baniyakhera of Bhimnagar District, U.P. The project is a cluster of 5 Micro watersheds with 2B5A4c1d, 2B5A4c1a, 2B5A4c2a, 2B5A4c2d and 2B5A4c3 being their respective codes. The total project area (geographical) of the watershed cluster is about 9187 ha out of which 6180 ha has been undertaken to be treated under Integrated Watershed Management Program (IWMP) with starting year 2009-10.

Table 1.1: Basic Project Information: for old District Moradabad

Sl.No.	Details	No.	Area (ha.)
1	2	3	4
1	Total Geographical area and Micro watersheds in Moradabad District demarcated by Remote Sensing.	566	371800
2	Untreatable Micro Watersheds.	75	49147
3	Workable Micro Watersheds and Geographical/treatable area.	491	322653
4	Micro Watersheds already treated by LDWR & other agencies .	228	149500
5	Balance Micro Watersheds/ Geographical area for treatment in the District.	264	173153

Table 1.2: Approved plan Preliminary Project Report (PPR) by Steering Committee (SC), Govt. of India:

Year	Project/Phase IWMP-I	MWS	Geographical Area/Treatable (ha)	Project Cost Rs. lakh	PIA	S.C. Meeting Date
1	2	3	4	5	6	7
2009-10	IWMP-I	5	9187/6180	741.6	BSA, LDWR, Morabadabad	23/12/2009

Table 1.3: Details of Micro Watersheds:-

S.No.	Code of Micro Watersheds	Name of Micro Watersheds	Treatable Area (ha)	Name of River / Nallah in each MWS
1	2B5A4c1d	Lehravan	438.00	Sot River
2	2B5A4c1a	Majhola	434.00	Sot River
3	2B5A4c2a	Singhpur	378.00	Sot River
4	2B5A4c2d	Rajpur	900.00	Sot River
5	2B5A4c3	Naglia Kather	4030.00	Sot River
		Total	6180.00	

1.2: Need and scope for Watershed development programme:

Watershed Development Programme is prioritized on the basis of thirteen parameters namely Poverty index, Percentage of SC/ST population, Actual wages, Percentage of small and marginal farmers, Ground water status, Moisture Index, Area under rain fed agriculture, Drinking water situation, percentage of the degraded land, productivity potential of the land, continuity of another watershed that has already been treated, and cluster approach for the area.

Cluster approach has been taken into consideration for micro-watersheds covering a total geographical area of **9187** ha with a cumulative score of **90**.

1.3: Weightage for the selection of the watershed:

Project name	Project type	Weightage													
IWMP-I	Drought	I	II	III	IV	V	VI	VII	VIII	IX	X	XII	XII	XIII	Total
		5.0	5.0	5.0	10.0	5.0	0.0	15.0	5.0	10.0	10.0	5.0	15.0	0.0	90

Table 1.4: Weightage Criteria (for score):

Criteria no.	Criteria	Maximum Score	Ranges & Scores			
I	Poverty index (%of poor to population)	10	Above 80%(10)	80 to 50% (7.5)	50 to 20% (5)	Below 20% (2.5)
ii	% of SC/ST population	10	More than 40% (10)	20 to 40% (5)	Less than 20% (3)	
iii	Actual wages	5	Actual wages are significantly lower than minimum wages (5)	Actual wages are equal to or higher than minimum wages (0)		

Iv	% of small and marginal farmers	10	More than 80 % (10)	50 to 80 % (5)	Less than 50 % (3)	
V	Ground water status	5	Over exploited (5)	Critical (3)	Sub critical (2)	Safe (0)
Vi	Moisture index/ DPAP/ DDP Block	15	66.7 & below (15) DDP Block	-33.3 to -66.6 (10) DPAP Block	0 to -33.2 (0) Non DPAP/ DDP Block	
Vii	Area under rain-fed agriculture	15	More than 90 % (15)	80 to 90 % (10)	70 to 80% (5)	Below 70 % (Reject)
Viii	Drinking water	10	No source (10)	Problematic village (7.5)	Partially covered (5)	Fully covered (0)
Ix	Degraded land	15	High – above 20 % (15)	Medium – 10 to 20 % (10)	Low- less than 10 % of TGA (5)	
X	Productivity potential of productivity can be the land	15	Lands with low production & where productivity can be significantly enhanced with reasonable efforts (15)	Lands with moderate production & where productivity can be enhanced with reasonable efforts (10)	Lands with high production & where productivity can be marginally enhanced with reasonable efforts (5)	
Xi	Productivity potential of productivity can be the land	15	Lands with low production & where productivity can be significantly enhanced with reasonable efforts (15)	Lands with mode rate production & where productivity can be enhanced with reasonable efforts (10)	Lands 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	Contiguous to previously treated watershed & contiguity within the micro watersheds in the project	Contiguity within the micro watersheds in the project but non contiguous to previously treated watershed (5)	Neither contiguous to previously treated watershed nor contiguity within the micro watersheds in the project (0)	

Xii	Cluster approach in the plains (more than one contiguous micro-watersheds in the project)	15	Above 6 micro-watersheds in cluster (15)	4 to 6 micro watersheds in cluster (10)	2 to 4 micro watersheds in cluster (5)	
Xiii	Cluster approach in the hills (more than one contiguous micro-watersheds in the project)	15	Above 5 micro-watersheds in cluster (15)	3 to 5 micro watersheds in cluster (10)	2 to 3 micro watersheds in cluster (5)	

The total no. of families under BPL is 3488 out of 9695 household in the project area which is 36% of the total households. Hence a score of 5.0 is allotted.

The total population of SC category is 17438 out of 73004 total population which is 23.88% hence a score of 5.0 is allotted. Rain fed agriculture forms the primary occupation of the watershed due to scant irrigation and ground water availability.

More than 93% of the farmers are small and marginal, hence a score of 10 is allotted. The project area lies in dark block due to over exploitation of ground water, hence a score of 5.0 is allotted. The project area lies in Non DPAP block hence a score of 0.0 is allotted. There is no canal system in the project area/block. Farmers are dependent on rain or life saving irrigation by private tube well for their agricultural activities, hence a score of 15 is allotted.

Since the rainfall received is erratic and irregular, the Moisture index is low and the area is classified under IWMP block.

Some part of land is degraded. The soil is very permeable and production of the land can be significantly enriched with the availability of timely irrigation.

1.4: Details of ongoing watershed program:

Presently, no watershed development program is going on in the watershed.

CHAPTER-2

GENERAL DESCRIPTION OF PROJECT AREA

2.1: Location:

The project area is located mainly in Block Behjoi along with few partial villages of Panwasa block of Bhimnagar district on Moradabad-Agra state highway (SH-51) about in 10 Km surrounding from block Behjoi head quarter. This Watershed cluster includes **51** villages. The livelihood of these people is primarily based on rain fed agriculture, animal husbandry, wage labour, goat keeping, sheep keeping, piggery and poultry.

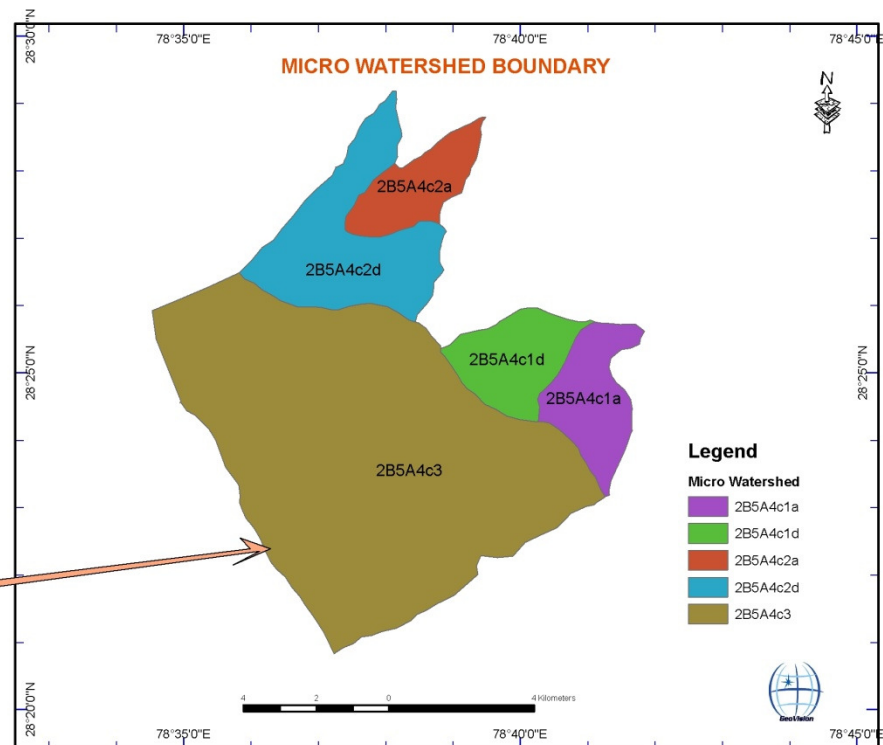
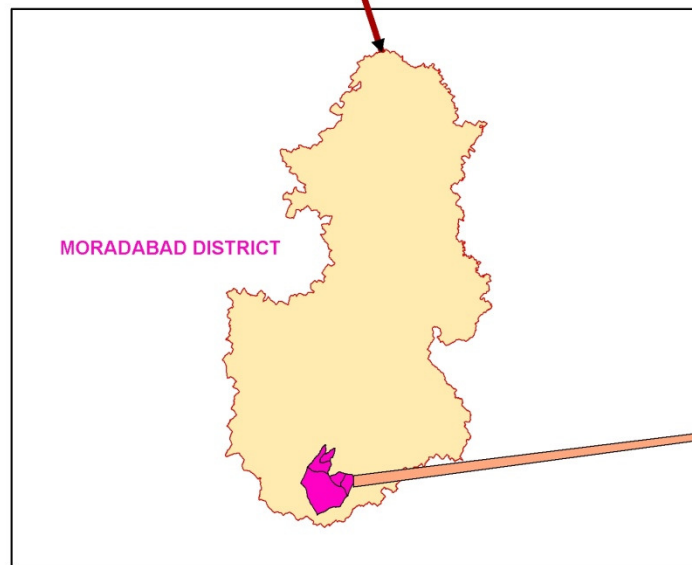
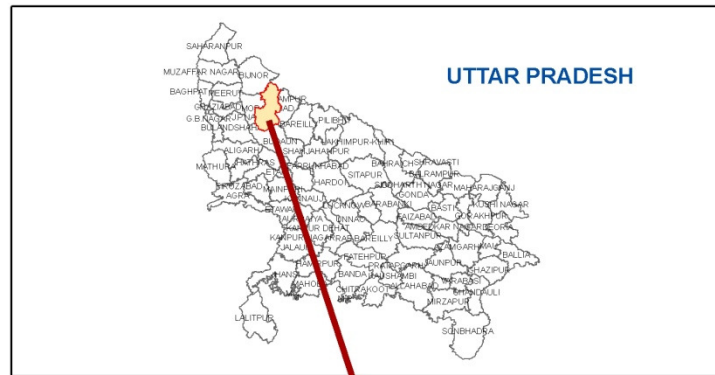
Table 2.1: General Description of the Project Area

S.No	Name & code of MWS	Longitude	Latitude	Name of Gram Panchayats	Name of Villages	Geographical Area of village included in MWS [ha.]	Distance [km] of important/ approach road
1	2	3	4	5	6	7	8
1	Lehravan 2B5A4c1d	78°40'9.508"E 78°40'15.101"E	28°25'21.75"N 28°45'45.434"N	Afjalpur Daroli,	Afjalpur Daroli,	3.632	0.5
				Lehravan	Bhartara	80.364	1
				Bisaru	Bisaru	104.200	2
				Lehravan	Lehravan	355.277	0.5
				Majhola	Majhola	14.864	3
				Mulheta	Mulheta	17.000	3
				Nagliya Kather	Nagliya Kather	13.159	3
				Nagliya Kather	Achalpur	42.955	0.2
	Total					631.451	
2	Majhola 2B5A4c1a	78°41'6.654"E 78°41'5.552"E	28°24'16.593"N 28°25'26.073"N	Afjalpur Daroli	Afjalpur Daroli	55.406	0.5
				Lehravan	Bhartara	109.258	1
				Lehravan	Lehravan	30.781	0.5
				Majhola	Majhola	440.554	3
				Nagliya Kather	Nagliya Kather	2.166	3
	Total					638.165	

3	Singhpur 2B5A4c2a	78°39'26.584"E 78°37'28.071"E	28°27'37.892"N 28°27'32.013"N	Ahmadnagar Theresa	Ishakpur	13.264	-
				Khetapur	Khetapur	87.228	6
				Nagalia Ballu	Nagalia Ballu	17.133	7
				Kazibehta	Nagla Khakam	265.004	8
				Khetapur	Sakatpur	25.404	5
				Rafipur	Singhpur	109.576	6
	Total					517.609	
4	Rajpur 2B5A4c2d	78°38'6.718"E 78°38'26.532"E	28°26'29.57"N 28°26'32.082"N	Kisoli	Dharampur Nikat Dhadol	27.587	-
				Kisoli	Mirzapur Iktara	21.023	-
				Ahmadnagar Theresa	Ahmadnagar Theresa	24.900	9
				Bhawan	Bhawan	94.695	0
				Bisaru	Bisaru	0.224	2
				Dhadol	Dhadol	230.509	3
				Ahmadnagar Theresa	Ishakpur	64.392	-
				Khetapur	Khetapur	139.317	6
				Theresa Jaisingh	Theresa Jaisingh	44.611	6
				Dudhapur	Dudhapur	78.522	4
				Rajpur	Rajpur	315.707	2
				Khetapur	Sakatpur	77.507	5
				Rafipur	Singhpur	151.707	6
	Total					1310.701	
5	Naglia Kather 2B5A4c3	78°35'48.993"E 78°37'14.193"E	28°25'58.209"N 28°23'9.788"N	Chitanpur	Yusufpur	155.013	2
				Kisoli	Mirzapur Iktra	26.002	-
				Akbarpur	Akbarpur	200.502	2
				Bamneta	Bamneta	101.479	0
				Anandpur	Anandpur	167.337	4
				Sultanpur Khurd	Sultanpur Khurd	93.916	3
				Naroda	Naroda	205.870	3
				Naglia Bhood	Naglia Bhood	46.857	5
				Bharatpur	Bharatpur	194.685	4
				Chitanpur	Chitanpur	182.497	3
				Naglia Kather	Jalalpur	74.706	1
				Mathera Dharampur	Bhimpur	95.787	2

				Mathera Dharampur	Mathera Dharampur	273.150	3
				Rampura	Rampura	295.896	2
				Rajpur	Rajpur	351.040	2
				Majhola	Majhola	132.161	3
				Bisraru	Bisraru	94.909	2
				Naglia Katter	Achalpur	77.716	0.2
				Naglia Katter	Naglia Katter	86.946	3
				Kaneta	Kaneta	103.350	1
				Anandpur	Dyodai	147.119	4
				Sultanpur Khurd	Madara	112.034	1
				Dhakari	Dhakari	123.816	1
				Chittora	Chittora	267.744	2
				Dhakari	Behjoi	646.517	2
				Bhawan	Bhawan	161.039	0
				Partapur	Partapur	155.181	0.5
				Behta jaysingh	Behta jaysingh	420.263	0.5
				Fattahpur sharifnagar	Fattahpur Sharifnagar	294.512	3
				Sultanpur Khurd	Jaimalpur	103.905	-
				Mirjapur Nasrullapur	Mirjapur Nasrullapur	371.806	0
				Naroda	Alawalpur	109.657	3
				Partapur	Ghasipur	143.564	3
				Chatan	Chatan	31.927	4
				Fattahpur sharifnagar	Bichola	9.300	4
				Sadat Wari	Sadat Wari	30.474	6
	Total					6088.677	
	Grand Total					9186.603	

LOCATION MAP OF PROJECT AREA IWMP-I (2009 - 10), DISTRICT BHIM NAGAR (U.P.)



2.2: Area and Land use:

Micro watershed wise detailed information on type of land is depicted in Table 2.2.

Table 2.2: Details of land resources in IWMP-I of Bhimnagar district

Name of micro watershed with code	Cultivated and wasteland area of MWS (ha)			Area details (ha) (Falling within the projects)								
	Cultivated rain fed area	Cultivated irrigated area (Life saving irrigation)	Uncultivated wasteland/ fallow	Pvt.Agri.Land					Forest Land	Community land	Other (Pl. specify)	Total area (ha)
				Gen	SC	ST	OBC	Total				
Lehravan 2B5A4c1d	465.63	116.00	0.98	73.00	84.63	-	424.00	581.63	-	9.86	38.98	631.45
Majhola 2B5A4c1a	492.44	113.00	2.90	228.00	77.44	-	300.00	605.44	-	5.92	23.90	638.16
Singhpur 2B5A4c2a	348.92	122.00	1.29	107.00	79.92	-	284.00	470.92	-	16.15	29.25	517.61
Rajpur 2B5A4c2d	934.62	297.00	6.41	326.00	177.62	-	728.00	1231.62	-	9.85	62.82	1310.70
Naglia Kather 2B5A4c3	4433.52	875.00	16.77	1016.00	885.52	-	3407.00	5308.52	-	44.88	718.51	6088.68
Total	6675.13	1523.00	28.35	1750.00	1305.13	-	5143.00	8198.13	-	86.66	873.46	9186.60

2.3: Physiography:

The watershed has a general slope more than 1 percent. Spatial distribution of different slope classes has been prepared by using of Arc GIS. Slope was divided into 05 classes (viz. 0-0.5, 0.5-1.0, 1.0-3.0, 3-5% and more than 5% (Table 2.3).

Table 2.3: Slope range in the project area for IWMP-I in Bhimnagar district

S.No	Name of MWS & Code	Slope range wise area (ha)					
		0-0.5%	0.5-1.0%	1-3%	3-5%	>5%	Other
1	Lehravan 2B5A4c1d	221	385	21.47	-	-	3.98
2	Majhola 2B5A4c1a	217	391	26.65	-	-	3.52
3	Singhpur 2B5A4c2a	176	316	12.04	-	-	13.57
4	Rajpur 2B5A4c2d	432	784	81.29	-	-	13.41
5	Naglia Kather 2B5A4c3	2169	3552	344.01	-	-	23.69
	Total Area	3215	5428	485.46			58.17

Note:- Area of river and ponds has been shown in other column.

2.4: Climate:

The annual rainfall and the temperature of the Bhimnagar district are given in Table 2.4.

Table 2.4: Average monthly rainfall and temperature of the last 05 years at IWMP -I in district

Month	Annual Rainfall (mm)						Temperature 0C	
	2007	2008	2009	2010	2011	Average	Max.	Min.
January	-	6	15	5.2	-	5.24	24.00	1.00
February	30	26	36	19.2	22.60	26.76	30.00	4.00
March	-	4	1	-	10.80	3.16	37.00	8.00
April	5	1.94	0.4	-	8.40	3.14	44.00	11.30
May	40	48.85	9	-	55.00	30.57	44.00	18.50
June	60	29.8	34	35.0	139.80	59.72	43.00	19.80
July	280	320	31.6	260.2	193.60	217.08	39.00	22.00
August	164	148	64.4	278.2	199.20	170.76	38.00	22.50
September	83	158	82	306.8	37.90	133.54	37.00	19.50
October	-	-	-	-	39.16	7.83	37.00	9.00
November	6	20	1.2	-	8.00	7.04	31.50	5.00
December	4	-	-	12.0	-	3.20	27.00	1.00
Total rainfall	672	762.59	274.6	916.6	714.46	668.04	-	-

Table 2.5: Flood and Drought Area:

S.No.	MWS	Particulars	No. of villages	Periodicity		Not affected
				Annual	Any other (please specify)	
1	2	3	4	5	6	7
1	2B5A4c1d Lehravan 2B5A4c1a Majhola 2B5A4c2a Singhpur 2B5A4c2d Rajpur 2B5A4c3 Naglia Kather	Flood	Name(s) of villages	-	-	Not affected
			No. of villages			
		Drought	Name(s) of villages	-	When the rain fall is very low	-
			No. of villages		All villages covered in the project area	

Table 2.6: Agro Climatic Conditions

S.No.	Micro Watershed code	Name of Micro Watershed	Name of Agro climate Zone Covered	Area (ha)	Major Soil type (ha)				Topography	Average rainfall in mm
					Sandy loam	Sandy	Clay Loam	Clay		
1	2B5A4c1d	Lehravan	Middle western plain zone	438.00	245.00	61.00	132.00	-	Moderate & Undulated	668.00
2	2B5A4c1a	Majhola	Middle western plain zone	434.00	232.00	59.00	143.00	-	Moderate & Undulated	668.00
3	2B5A4c2a	Singhpur	Middle western plain zone	378.00	209.00	55.00	114.00	-	Moderate & Undulated	668.00
4	2B5A4c2d	Rajpur	Middle western plain zone	900.00	495.00	126.00	279.00	-	Moderate & Undulated	668.00
5	2B5A4c3	Naglia Kather	Middle western plain zone	4030.00	2257.00	564.00	1209.00	-	Moderate & Undulated	668.00
			Total	6180.00	3438	865.00	1877.00			

Table 2.7: Details of Soil Erosion

S.No.	MWS code	Name of Watershed	Water Erosion (ha)				Runoff (mm)	Average Soil Loss (Ton/ha)	Wind Erosion
			Sheet	Rill	Gully	Total			
1	2B5A4c1d	Lehravan	350.00	88.00	-	438.00	300.00	16.50	-
2	2B5A4c1a	Majhola	343.00	91.00	-	434.00	300.00	16.50	-
3	2B5A4c2a	Singhpur	283.00	95.00	-	378.00	300.00	16.50	-
4	2B5A4c2d	Rajpur	702.00	198.00	-	900.00	300.00	16.50	-
5	2B5A4c3	Naglia Kather	3143.00	887.00	-	4030.00	300.00	16.50	-
		Total	4821.00	1359.00	-	6180.00	300.00	16.50	-

CHAPTER-3

BASELINE SURVEY AND PARTICIPATORY RURAL APPRAISAL

3.1: Social-Economic Analysis:

IWMP-I watershed project has a total of 9695 household with a population of 73004 (as per base-line survey) out of which 39377 are male and 33627 female. The sex ratio is 854 female to 1000 male. There are 3488 BPL families. The detail of population in each micro watershed is given below:-

Table 3.1: Demographic Features in Project Area

S.No.	Micro Watershed Code	Name of Micro Watershed Code	Total Population			Population of SC/ST		
			Total	Male	Female	Total	Male	Female
1	2B5A4c1d	Lehravan	5276	2821	2455	2455	1161	627
2	2B5A4c1a	Majhola	5920	3235	2685	1006	550	456
3	2B5A4c2a	Singhpur	2893	1506	1387	723	377	346
4	2B5A4c2d	Rajpur	10535	5689	4846	2107	1138	969
5	2B5A4c3	Nagliya Katther	48380	26126	22254	12441	6718	5723
	Total of Project		73004	39377	33627	17438	9410	8028

3.2: Land Holding Pattern:

The average land holding is about 1.20 ha with lack of irrigation source, so it forces the majority of the farmers to migrate to ensure their livelihood. This affects the demographic profile of the watershed directly.

Table 3.2: Details of land holding pattern

S. No.	Names MWS with code	Name of Village	Category wise No. of household				No. of BPL households	Land holding (ha)		
			LF	SF	MF	LL		Irrigated (Life saving irrigation)	Rain fed	Total
1	2	3	4	5	6	7	8	9	10	11
1	Lehravan 2B5A4c1d	Afjalpur Daroli,	-	-	02	-	04	3.00	2.50	5.50
		Bhartara	08	14	24	04	03	55.00	33.00	88.00
		Bisaru	09	16	98	23	84	91.00	65.00	156.00
		Lehravan	59	71	137	18	158	270.50	218.50	489.00
		Majhola	01	02	08	04	11	9.00	8.00	17.00
		Mulheta	01	03	06	-	01	13.00	10.00	23.00
		Nagliya Kather	-	02	05	03	02	10.50	8.50	19.00
		Achalpur	02	03	17	01	17	25.00	14.50	39.50
		Total	80	111	297	53	280	477.00	360.00	837.00
2	Majhola 2B5A4c1a	Afjalpur Daroli	01	05	74	15	78	40.00	37.00	77.00
		Bhartara	13	22	28	04	05	102.15	61.00	163.00
		Lehravan	03	05	10	04	12	26.00	17.00	43.00
		Majhola	23	56	284	135	356	404.00	324.50	728.00
		Nagliya Kather	-	-	03	-	01	1.85	1.50	3.35
		Total	40	88	399	158	452	574.00	441.00	1015.00
3	Singhpur 2B5A4c2a	Ishakpur (Unpopulated)	-	-	-	-	-	12.00	10.00	22.00
		Khetapur	05	35	95	12	31	72.00	59.00	131.00
		Nagalia Ballu	-	01	15	02	01	15.00	13.00	28.00
		Nagla Khakam	12	27	134	06	29	226.00	195.00	421.00
		Sakatpur	-	02	11	01	05	22.00	17.00	38.50
		Singhpur	05	14	34	03	11	71.00	44.00	115.00
		Total	22	79	289	24	77	418.00	338.00	756.00

4	Rajpur 2B5A4c2d	Dharampur Nikat Dhadol (Unpopulated)	-		-	-	-	26.00	20.00	46.00
		Mirzapur Iktara (Unpopulated)	-	-	-	-	-	21.00	15.00	36.00
		Ahmadnagar Theresa	04	08	31	04	03	56.90	49.30	105.9
		Bhawan	08	50	120	12	24	83.60	67.20	150.80
		Bisaru	-	-	-	-	-	-	-	-
		Dhadol	34	49	257	78	19	202.00	200.00	402.00
		Ishakpur(Unpopulated)	-	-	-	-	-	60.00	48.00	108.00
		Khetapur	08	28	189	07	42	107.00	90.00	197.00
		Theresa Jaisingh	05	06	17	07	16	40.00	39.00	79.00
		Dudhapur	13	24	110	15	36	67.00	64.00	131.00
		Rajpur	15	22	144	60	140	286.00	280.00	566.00
		Sakatpur	02	13	34	04	15	74.00	58.00	132.00
		Singhpur	06	18	46	06	23	139.50	120.50	260.00
		Total	95	218	948	193	318	1163.00	1051.00	2214.00
5	2B5A4c3	Yusufpur	08	16	120	31	14	129.00	107.00	236.00
		Mirzapur Nasrullapur	11	25	130	183	128	318.00	220.00	538.00
		Akbarpur	07	37	124	173	40	142.00	118.00	260.00
		Bemaneta	-	14	166	46	10	93.00	74.00	167.00
		Anandpur	17	13	58	16	18	148.00	108.00	256.00
		Sultanpur Khurd	02	24	95	30	89	82.00	59.00	141.00
		Naroda	21	39	50	11	72	194.00	147.00	341.00
		Naglia Bhood	14	08	10	02	18	40.00	34.00	74.00
		Bhratpur	08	15	176	26	69	179.00	110.00	289.00
		Chittanpur	03	16	117	70	52	176.00	115.00	291.00
		Jalalpur	02	05	50	13	-	68.00	59.00	127.00
		Bhimpur	04	10	32	13	32	91.00	59.00	150.00
		Mathera Dharampur	03	09	56	16	-	242.00	170.00	412.00
		Rampura	32	45	294	483	398	206.00	175.00	381.00
		Rajpur	17	25	164	66	158	314.00	210.00	524.00
		Majhola	07	16	81	39	98	124.00	85.00	209.00
		Bisaru	08	15	88	22	76	82.00	69.00	151.00
		Achalpur	01	07	31	03	-	71.00	47.00	118.00

		Naglia Katter	01	04	32	18	08	68.00	58.00	126.00
		Kaneta	10	30	80	70	291	61.00	50.00	111.00
		Dyodai	03	26	55	10	06	109.00	90.00	199.00
		Madara	-	01	61	13	10	81.00	63.00	144.00
		Dhakari	02	08	69	32	09	117.00	86.00	203.00
		Chittora	12	34	271	157	357	242.00	179.00	421.00
		Behjoi Dehat	27	51	480	277	87	514.00	387.00	901.00
		Bhawan	06	17	68	17	35	131.00	88.00	219.00
		Partapur	03	06	72	15	27	134.00	99.00	233.00
		Behta jaysingh	08	19	535	148	191	239.00	179.00	418.00
		Fattahpur sharifnagar	05	12	43	16	09	229.00	208.00	437.00
		Jaimalpur	-	-	-	-	-	72.00	55.00	127.00
		Mirjapur Iktara	-	-	-	-	-	18.00	13.00	31.00
		Alawalpur	02	05	17	06	28	64.00	56.00	120.00
		Ghasipur	10	26	40	14	06	136.00	120.00	256.00
		Chatan	04	11	17	-	12	26.00	22.00	48.00
		Bichola	01	02	02	01	02	9.00	8.00	17.00
		Sadat Wari	02	08	18	02	11	29.00	26.00	55.00
		Total	261	599	3702	2039	2361	4978	3753	8731
		Grand Total	498	1095	5635	2467	3488	7610	5943	13553

Abbreviations:- LF Large Farmer, SF Small Farmer, MF Marginal Farmer, LL Land Less

3.3: Migration:

People migrate around the year depending upon their requirement of money to the other state such as Delhi, Punjab, Haryana. Agricultural labours and construction workers and brick making at kiln. Some people migrate as a labour on monthly basis in different type of Industry such as handloom, twice etc. Situated at different cities Delhi, Punjab, Haryana. The total migration during last year was 1575. The details are given below :

Table 3.3: Details of Migration: Pre Project status

S. No.	Micro Watershed Code	Name of Micro Watershed	No. of migrating persons	No. of days per year of migration	Major reasons for migration	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs/month)
1	2B5A4c1d	Lahravan	145	90-180	1- To get higher wages 2- For Livelihood security faces unbearable condition for farming due to lack irrigation.	150-400	Labour on monthly basis, Daily wagers	2500-5000
2	2B5A4c1a	Majhola	107	90-180		150-400		2500-5000
3	2B5A4c2a	Singhpur	20	90-180		150-400		2500-5000
4	2B5A4c2d	Rajpur	173	90-180		150-400		2500-5000
5	2B5A4c3	Nagliya Kather	859	90-180		150-400		2500-5000
	Total		1304					

Table 3.4: Details of Village Infrastructure

S.No.	Code of MWS	Name of MWS	Parameters		Status			
1	2	3	4		5			
1	2B5A4c1d	Lehravan	(i)	Name of villages connected to the main road by an all-weather road	On Moradabad to Aligarh road.			
			(ii)	Village's Name provided with electricity	All Villages Under MWS			
			(iii)	No. of households without access to drinking water.	Available			
			(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P)	(S)	(HS)	(VI)
					08	06	01	-
			(v)	Names of villages with access to Primary Health Centre	Majhola, Mulheta.			
			(vi)	Names of villages with access to Veterinary Dispensary	---			
			(vii)	Names of villages with access to Post Office	Majhola, Bisaru.			

S.No.	Code of MWS	Name of MWS	Parameters		Status			
1	2	3	4		5			
1	2B5A4c1a	Majhola	(i)	Name of villages connected to the main road by an all-weather road	On Moradabad to Aligarh road.			
			(ii)	Village's Name provided with electricity	All Villages Under MWS			
			(iii)	No. of households without access to drinking water.	Available			
			(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P)	(S)	(HS)	(VI)
					05	03	01	-
			(v)	Names of villages with access to Primary Health Centre	Majhola			
			(vi)	Names of villages with access to Veterinary Dispensary	---			
			(vii)	Names of villages with access to Post Office	Majhola.			

S.No.	Code of MWS	Name of MWS	Parameters		Status			
1	2	3	4		5			
3	2B5A4c2a	Singhpur	(i)	Name of villages connected to the main road by an all-weather road	On Moradabad to Aligarh road.			
			(ii)	Village's Name provided with electricity	All Villages Under MWS			
			(iii)	No. of households without access to drinking water.	Available			
			(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P)	(S)	(HS)	(VI)
					05	04	-	-
			(v)	Names of villages with access to Primary Health Centre	Nil			
			(vi)	Names of villages with access to Veterinary Dispensary	Nil			
			(vii)	Names of villages with access to Post Office	Nil			

S.No.	Code of MWS	Name of MWS	Parameters		Status			
1	2	3	4		5			
4	2B5A4c2d	Rajpur	(i)	Name of villages connected to the main road by an all-weather road	On Moradabad to Aligarh road.			
			(ii)	Village's Name provided with electricity	All Villages Under MWS			
			(iii)	No. of households without access to drinking water.	Available			
			(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P)	(S)	(HS)	(VI)
					09	07	-	-
			(v)	Names of villages with access to Primary Health Centre	Rajpur			
			(vi)	Names of villages with access to Veterinary Dispensary	Nil			
			(vii)	Names of villages with access to Post Office	Rajpur, Tharasa Jaysingh			

S.No.	Code of MWS	Name of MWS	Parameters		Status			
1	2	3	4		5			
5	2B5A4c3		(i)	Name of villages connected to the main road by an all-weather road	On Moradabad to Aligarh road.			
			(ii)	Village's Name provided with electricity	All Villages Under MWS			
			(iii)	No. of households without access to drinking water.	Available			
			(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P)	(S)	(HS)	(VI)
					40	26	01	-
			(v)	Names of villages with access to Primary Health Centre	Rajpur, Majhola, Rampura, Sadat wari			
			(vi)	Names of villages with access to Veterinary Dispensary	Sadat wari			
			(vii)	Names of villages with access to Post Office	Rajpur, Majhola, Rampura, Sadat wari			

Table 3.5: Soil Texture

S.No.	Micro Watershed code	Name of Micro Watershed	Major Soil Type (in ha)			Details
			Light textured soil (sandy, loamy sand)	Medium textured soil (loam, sandy loam, silty loam)	Heavy textured soil (clayey)	
1	2B5A4c1d	Lahravan	306	132	-	sandy loam
2	2B5A4c1a	Majhola	291	143	-	sandy loam
3	2B5A4c2a	Singhpur	264	114	-	sandy loam
4	2B5A4c2d	Rajpur	621	279	-	sandy loam
5	2B5A4c3	Nagliya Kather	2821	1209	-	sandy loam
	Total		4303	1877		

3.4: Crops & Productivity:

Table 3.6: Crop Rotation

S.No.	Total No. of MWS	Name of Crops											
		Kharif					Rabi				Zaid		
		Paddy	Maize	Bajra	Sorghum (Jowar)	Urd	Wheat	Mustard	Gram	Lentil	Sugarcane	mentha (Oil)	Moong
1	2	3	4	5	6	7	8	9	10	11	12	13	14
Area in ha	5	1110	132	1096	40	1206	3680	130	3	54	1358	70	5
Avg. Productivity (q/ha)		35-40	25-30	15-20	22-25	8-10	30-35	12-15	15-20	4-5	400-500	0.95-1.10	5-6

3.5: Live Stock:

The details of live stock and its productivity are given in Table 3.7 & 3.8.

Table 3.7: Details of Livestock Population

S. No	Code of MWS	Name of MWS	Cow		Buffalo		Ox/Bull	Goat	Sheep	Piggeries	Poiltry			Other specify
			Desi	Crossed	Desi	Murrah					Broiler	Layers	Total	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	2B5A4c1d	Lahravan	89	07	790	57	30	182	42	42	1750	900	2650	
2	2B5A4c1a	Majhola	46	06	486	177	25	203	30	25	1690	860	2550	
3	2B5A4c2a	Singhpur	25	-	245	05	20	45	-	16	180	40	220	
4	2B5A4c2d	Rajpur	377	13	1769	72	127	244	-	62	2720	760	3480	
5	2B5A4c3	Nagliya Kather	601	25	4579	357	204	626	84	118	3560	590	4150	
	Total		1138	51	7869	668	406	1300	156	263	9900	3150	13050	

Table.3.8: Details of Livestock Productivity

S. No .	Name & Code of MWS	Milk Production (Litter/day/animal)				Goatry	Poultry		Piggeries Weight
		Cows		Buffaloes		Weight	Broiler Weight	Layers	
		Desi	Crossed	Desi	Murrah	Kg/goat	Kg/Brl	Eggs/Brl	Kg/Pig
1	2	4	5	6	7	8	9	10	11
1	Lehravan 2B5A4c1d	2.50	6.00	3.00	5.50	15 - 20	2.00	150	10 – 35
2	Majhola 2B5A4c1a	2.00	6.50	2.50	5.00	15 - 20	1.50	-	10 – 30
3	Singhpur 2B5A4c2a	3.00	8.00	3.50	6.00	15 - 25	2.50	200	10 – 38
4	Rajpur 2B5A4c2d	2.50	8.50	3.00	6.50	15 - 20	2.00	100	10 – 50
5	Naglia Kather 2B5A4c3	2.50	7.50	2.25	6.00	15 - 28	1.75	400	10 – 40
	Average	2.50	7.30	2.85	5.80	15 - 28	1.95	170	10 – 50

3.6: Livelihood Status:

Pre project status of landless/asset less people and for Farmers & others are given in Table 3.9 & 3.10.

Table 3.9: Details of Livelihood Status of Landless/Asset less people (Pre Project status)

S. No.	Micro Watershed code	Name of Micro Watershed	Name of Livelihood Activity	No. of house hold engaged					Pre project Average Income/annum/ household	Desired Activities	Expected increase in Income from desired activities	Remarks
				SC	ST	Other	Women	Total				
1	2B5A4c1d	Lahravan	Goat Keeping, Dari weaving, Animal Husbandry, Poultry, Dairy, Piggery, Black smithy, Carpentry, Stitching and Wages etc.	11	-	39	3	53	24000-36000	Goat Keeping, Dari weaving, Animal Husbandry, Poultry, Dairy, Piggery, Black smithy, Carpentry, Stitching and Wages etc.	20-25%	
2	2B5A4c1a	Majhola		24	-	127	7	158	24000-36000		20-25%	
3	2B5A4c2a	Singhpur		6	-	18	-	24	24000-36000		20-25%	
4	2B5A4c2d	Rajpur		35	-	146	12	193	24000-36000		20-25%	
5	2B5A4c3	Nagliya Kather		481	-	1526	32	2039	24000-36000		20-25%	
Total				557	-	1856	54	2467				

Table 3.10: Details of Livelihood Status Other Farmers

S. No.	Name & code of micro watershed	Name of Livelihood Activity	No. of households engaged					Pre project Average Income/Year/ household	Desired Activities	Expected increase in Income from desired activities	Remark
			SC	ST	Other	Woman	Total				
1	Lehravan 2B5A4c1d	Agriculture, Agriculture laborer and Business etc.	10	-	380	98	488	40000.00	Crop Demonstration, animal husbandry, goatry, plantation, dairy etc.	25-30%	
2	Majhola 2B5A4c1a		81	-	355	91	527	40000.00		25-30%	
3	Singhpur 2B5A4c2a		88	-	262	40	390	40000.00		25-30%	
4	Rajpur 2B5A4c2d		219	-	880	162	1261	40000.00		25-30%	
5	Naglia Kather 2B5A4c3		1070	-	2919	573	4562	40000.00		25-30%	
	Total		1468	-	4796	964	7228				

Table 3.11: Ground Water Status (as per data collected from ground water department)

S. No.	Name & code of Micro Watershed	Name of village	Depth of Ground Water table (Below Ground level) in Meter						Remarks
			2009		2010		2011		
			Before Monsoon	After Monsoon	Before Monsoon	After Monsoon	Before Monsoon	After Monsoon	
1	2	3	4	5	6	7	8	9	10
1	Lahravan 2B5A4c1d	Lehravan	12.18	11.60	12.43	12.28	11.18	10.53	Ground water table has been recorded by ground water department at piezometer installed in the villages shown in column no. 3.
2	Majhola 2B5A4c1a	Afjalpur Daroli	11.35	10.50	11.57	10.30	Not available	10.05	
3	Singhpur 2B5A4c2a		Not available						
4	Rajpur 2B5A4c2d	Bhawan	11.67	10.85	Not available	10.07	Not available		
5	Naglia Kather 2B5A4c3	Sadat Wari	Not available				9.00	8.20	
		Behjoi	11.13	10.90	11.68	10.50	10.45	9.80	

Table 3.12: Irrigation Status

S. No.	Micro Watershed code	Name of Micro Watershed code	Gross Cultivated Area				Net Cultivated Area	Gross Irrigated Area				Net Irrigated Area	Rain fed Area
			Kharif	Rabi	Zaid	Total		Kharif	Rabi	Zaid	Total		
1	2B5A4c1d	Lahravan	251	272	102	625	421	70	65	32	167	116	305
2	2B5A4c1a	Majhola	250	271	101	622	418	65	62	30	157	113	305
3	2B5A4c2a	Singhpur	219	233	87	539	365	55	50	24	129	122	243
4	2B5A4c2d	Rajpur	522	566	210	1298	870	165	138	56	359	297	573
5	2B5A4c3	Nagliya Kather	2342	2525	933	5800	3900	612	567	230	1409	875	3025
	Total		3584	3867	1433	8884	5974	967	882	372	2221	1523	4451

Table 3.13: Irrigation Area (source wise)

(Area in ha)

S. No.	Micro Watershed code	Name of Micro Watershed code	Cancel Area	State Tube wells		Tanks		Open well		Bore wells		Lift irrigation		Other (Specify)		Total Irrigated Area	Remarks
				No.	Area	No.	Area	No.	Area	No.	Area	No.	Area	No.	Area	ha	
1	2B5A4c1d	Lahravan	-	02	38.00	-	-	-	-	-	57.00	-	-	-	-	95.00	Bore wells are used only for life saving irrigation.
2	2B5A4c1a	Majhola	-	02	37.00	-	-	-	-	-	57.00	-	-	-	-	94.00	
3	2B5A4c2a	Singhpur	-	02	36.00	-	-	-	-	-	58.00	-	-	-	-	94.00	
4	2B5A4c2d	Rajpur	-	05	95.00	-	-	-	-	-	143.00	-	-	-	-	238.00	
5	2B5A4c3	Nagliya Kather	-	21	395.00	-	-	-	-	-	607.00	-	-	-	-	1002.00	
	Total		-	32	601.00	-	-	-	-	-	922.00	-	-	-	-	1523.00	

CHAPTER-4

INSTITUTIONAL BUILDING AND PROJECT MANAG EMENT

4.1: Project Implementing Agency

The Project Implementing Agencies (PIA) is selected by state level Nodal Agency (SLNA) for Integrated Watershed Management Program (IWMP) Bhimnagar District of U.P. The PIA is responsible for implementation of Watershed Program. The PIA for IWMP in Bhimnagar District is Bhoomi Sanrakshan Adhikari (BSA), Land Development & Water Resources, Moradabad.

Table 4.1: Details of Project Implementing Agency (PIA)

S.No.	Particulars of PIA	
1	2	3
(i)	Date of selection of PIA	09/3/2010
(ii)	Type of organization	Line Dept.
(iii)	Name of organization	Dept. of Land Development & Water Resources
(iv)	Designation & Address	Bhoomi Sanrakshan Adhikari, LDWR, 2/21 Buddhi Vihar Moradabad
(v)	Telephone/Mo.No	0591-2480554/ 9410614178
(vi)	E-mail	bsaldwrmo-up@nic.in

Table 4.2: Details of Staff at PIA

S. No.	Name	M/F	Designation	Qualification	Field of Experience & Period	Roll/ Function
1	Sri. Mool Chand Saini	M	Bhoomi Sanrakshan Adhikari	Intermediate, Graduate in Civil Engg.	Watershed/Command area development. works, 25 Year Experience . simultaneously 8 Year Experience in office/ Filed management	PIA Head
2	Sri. Pooran Chandra Sharma	M	Junior Engineer	Intermediate, Civil Engg. Diploma	Watershed/Command area development works, 29 Year Experience	Water Management Expert
3	Sri. Ashok Kumar Verma	M	Junior Engineer	M.A., Diploma in Agriculture Engg.	Watershed/Command area development . works, 29 Year Experience	Water Management Expert
4	Sri. Pramod Kumar	M	Accountant	M.Com., L.L.B.	Accountancy 8 year Experience	Accountancy
5	Sri. Ram Babu Sharma	M	Sr. Clerk	M.A., L.L.B.	Cash handling and Establishment, 28 year Experience	Cash handling
6	Sri. Satish Kumar Verma	M	Drafts man	M.A., Diploma in Drafts man (Civil)	Drafts man ship 8 year Experience	Drafts man ship
7	Sri. Bhagwan Dass	M	Tracer	Intermediate	Tracing and dispatch 8 year Experience	Tracer
8	Sri. Vikram Singh	M	A.S.C.I.	M.Sc. Ag.	watershed/ Command area 8 year Experience	Water Management Expert
9	Sri. Sanjeev Kumar	M	A.S.C.I.	M.Sc. Ag.	watershed/ Command area 8 year Experience	Water Management Expert
10	Sri. Sanjay Kumar	M	A.S.C.I.	M.Sc. Ag.	watershed/ Command area 8 year Experience	Soil Conservation Expert
11	Sri. Ashok Kumar Parihar	M	Work In charge	M.A.	watershed/ Command area 7 year Experience	Community organization
12	Sri. Ram Dev Sharma	M	Work In charge	Intermediate	watershed/ Command area 8 year Experience	Community organization
13	Sri. Rajendra Prasad	M	Work In charge	Intermediate	watershed/ Command area 8 year Experience	Community organization
14	Sri. Nakshtra Singh	M	Work In charge	B.A.	watershed/ Command area 8 year Experience	Soil and Water conservation expert
15	Sri. Rajesh Kumar	M	IVth Class	B.A.	Working as IVth class employee from last 31 year	IVth Class
16	Sri. Pradeep Kumar	M	IVth Class	VIIIth	Working as IVth class employee from last 33 year	IVth Class

Abbreviation:- A.S.C.I.- Assistant Soil Conservation Inspector

Table 4.3: Details of Watershed Development Team (WDT)

S.No.	Name	M/F	Designation	Qualification	Field of Experience & Period	Roll/Function
1	2	3	4	5	6	7
1	Smt. Mamta Rani Gupta	F	Social Mobilizer	M.A. Sociology	3 Years & 6 Months experience	Social Mobilizer
2	Sri Nraesh Chand Sharma	M	Retd. Technical Asstt. from Agriculture Deptt.	BS.C (Ag)	40 Years experience	Agriculture Expert.
3	Sri Mahendra Pal Singh	M	Retd. Soil Conservation Inspector from Agriculture Deptt.	BS.C (Ag)	35 Years experience	Soil Conservation Expert.
4	Sri P.C. Sharma	M	Junior Engineer	Intermediate Civil Diploma	29 years experience in soil & water management	Water Management Expert
5	Sri A.K. Verma	M	Junior Engineer	M.A., Agriculture Diploma	29 years experience in soil & water management	Water Management Expert
6	Sri Sanjay Kumar	M	A.S.C.I.	M.Sc (Ag.)	7 years experience in watershed program	Soil Conservation Expert
7	Sri Vikram Singh	M	A.S.C.I.	M.Sc. (Ag.)	7 years experience in watershed program	Water Management Expert
8	Sri Sanjeev Kumar	M	A.S.C.I.	M. Sc (Ag.)	7 years experience in watershed program	Water Management Expert
9	Sri Ashok Kumar Parihar	M	Munshi	M.A.	24 years experience in Departmental Works	Community organization
10	Sri Rajendra Prasad	M	Seench Paryavekshak	Intermediate	26 years experience in Departmental Works	Community organization

Abbreviation:-

A.S.C.I.- Assistant Soil Conservation Inspector

Table 4.4: Details of Watershed Committee (WC)

S. No.	Name of MWS	Name of Gramsabha/WC	Name/father or Husband's name of president	Name/father or Husband's name of secretary	SC/ST/Other	UG/SHG/GP/Other	WDT member	Landless
1	2	3	4	5	6	7	8	9
1	Lahravan 2B5A4c1d	Lahravan	Sri Horilal S/o Sri Natthu Singh	Sri Mohar Singh	1	9	1	1
		Muhleta	Smt Somwati W/o Sri Latoori Singh	Sri Amarpal S/o Sri Sheeshpal	1	9	1	1
		Bisaru	Smt Janki Devi W/o Sri Anand pal	Sri Mukkim	1	9	1	1
	Total				3	27	3	3
2	Majhola 2B5A4c1a	Majhola	Smt Zafari Begum	Sri Izrael	1	9	1	1
		Afzalpur Daroli	Smt Kumkum Devi	Sri Veerpal S/o Sri Ramphool Singh	1	9	1	1
	Total				2	18	2	2
3	Singhpur 2B5A4c2a	Singhpur(Rafipur)	Smt Shanti Devi W/o Sri Brijpal	Sri Satendra Singh	1	9	1	1
		Naglia Ballu	Smt Rama Devi W/o Sri Babu Singh	Sri Veeresh Kumar Sharma	1	9	1	1
		Kazi Behata	Sri Kashiram S/o Sri Ramcharan	Sri Manoj Kumar S/o Sri Jaswant Singh	1	9	1	1
	Total				3	27	3	3
4	Rajpur 2B5A4c2d	Therasa Jaisingh	Sri Rajaram S/o Sri Lekhraj	Sri Esuf Ali S/o Sri Abdul Waheed	1	9	1	1
		Ahemad Nagar Therasa	Sri Salabat Saifi S/o Sri Bhoon Baksh Saifi	Sri Hashim Ahmad S/o Sri Hasmat Ali	1	9	1	1
		Rajpur	Sri Dharmendra S/o Sri Raajbhan	Sri Udayveer	1	9	1	1
		Dadhol	Smt Susheela Devi W/o Sri Mahesh Chand	Sri Rahul S/o Sri Laxmi Narayan	1	9	1	1
		Dudhapur	Sri Chhamman Singh S/o Lekhraj	Sri Ajaypal S/o Sri Dharampal	1	9	1	1
		Khetapur	Sri Shishupal S/o Sri Dorilal	Sri Keshav Dev S/o Sri Mahesh Prasad	1	9	1	1
	Total				6	54	6	6
	Naglia kather	Bhawan	Smt Santosh Devi W/o Sri Ramswaroop	Sri Ramsevak S/o Sri Raghuveer Singh	1	9	1	1

5	2B5A4c3	Pratapur	Smt Jaidai W/o Sri Omprakash	Sri Manveer Singh S/o Sri Siyaram	1	9	1	1
		Behta Jaisingh	Smt Suraj Mukhi W/o Sri Rajpal Singh	Sri Rupendra Kumar S/o Sri Prem Pal Singh	1	9	1	1
		Bamneta	Smt Kalawati W/o Sri Dalveer Singh	Sri Omkar S/o Sri Jainarayan	1	9	1	1
		Naglia Kather	Smt Bhoori Devi W/o Sri Ompal	Sri Krisna Kumar S/o Sri Jaipal Singh	1	9	1	1
		Rampura	Smt Mamta W/o Sri Bhuvnesh Kumar	Sri Kamal S/o Sri Murarilal	1	9	1	1
		Anandpur	Sri Devki Nandan S/o Sri Heralal	Sri Neeraj S/o Sri Ramesh	1	9	1	1
		Chitoura	Sri Himanshu Pratap Singh S/o Sri Abhay Pratap Singh	Sri Aslam S/o Sri Saleem	1	9	1	1
		Bharatpur	Smt Fareeda Begum W/o Sri Ayub Ali	Sri Sharafat S/o Sri Shakoor	1	9	1	1
		Chittanpur	Smt Dharmwati W/o Sri Chhedalal	Sri Ramveer Singh S/o Sri Megh Singh	1	9	1	1
		Sadat Wari	Sri Prakash S/o Sri Roshanlal	Sri Ram Sharma	1	9	1	1
		Sultanpur Khurd	Sri Chandra Pal Singh	Sri Harpal Singh S/o Sri Bhagwan Singh	1	9	1	1
		Naroda	Sri Bhudev S/o Sri Lal Singh	Sri Rajesh Sharma S/o Sri Hari Gopal Sharma	1	9	1	1
		Chatan	Smt Satyawati W/o Sri Sompal Singh	Sri Swatantra Kumar S/o Sri Virendra Singh	1	9	1	1
		Fatepur Sharifnagar	Smt Nirmla Devi W/o Sri Mahendra Singh	Sri Vijay Kumar S/o Sri Manveer Singh	1	9	1	1
		Dhakari	Smt Rampyari W/o Sri Bhagwan Das	Sri Deep Singh S/o Sri Hari Singh	1	9	1	1
		Kaneta	Sri Giriraj Kishor S/o Sri	Sri Shyam Sundar S/o Sri Chhatrapal	1	9	1	1
		Maithra Dharampur	Sri Harpal S/o Sri Hulashi	Sri Munesh Kumar	1	9	1	1
		Mirazapur Nasrullapur	Smt Jaldhara W/o Sri Ram Babu	Sri Bihari S/o Sri Gendan	1	9	1	1
		Akbarpur	Sri Shakur Mohd. S/o Sri Janne Mohd.	Sri Mallu Khan S/o Sri Yaseen Khan	1	9	1	1
		Kisoli	Sri Talewar S/o Sri Dalpat Singh	Sri Avdhesk Kumar S/o Sri Ramchand	1	9	1	1
		Total			21	189	21	21
	Grand Total				35	315	35	35

4.2: User Group (UG)

User Groups are formed to manage an activity or asset created under the program on a long term basis. The user groups will collect user charges from their members, oversee the works, manage the CPRs and benefits.

Table 4.5: Details of User Groups

Watershed code	Gram panchayat	Village Name	Total No. of users group	Name of Bank Address	A/c No. & date	Up to date saving	Group Activity	Status of Agreement
2B5A4c1d	Afjalpur Daroli	Afjalpur Daroli	-	-	-	-	-	-
	Lehravan	Bhartara	01	-	-	-	-	-
	Lehravan	Lehravan	05	-	-	-	-	-
	Bisaru	Bisaru	01	-	-	-	-	-
	Majhola	Majhola	01	-	-	-	-	-
	Mulheta	Mulheta	01	-	-	-	-	-
	Nagliya Kather	Nagliya Kather	01	-	-	-	-	-
	Nagliya Kather	Achalpur	03	-	-	-	-	-
		Total	13	-	-	-	-	-
2B5A4c1a	Afjalpur Daroli	Afjalpur Daroli	03	-	-	-	-	-
	Lehravan	Bhartara	02	-	-	-	-	-
	Lehravan	Lehravan	02	-	-	-	-	-
	Majhola	Majhola	03	-	-	-	-	-
	Nagliya Kather	Nagliya Kather	01	-	-	-	-	-
		Total	11					
2B5A4c2a	Ahmadnagar Theresa	Ishakpur	02	-	-	-	-	-
	Khetapur	Khetapur	05	-	-	-	-	-
	Nagalia Ballu	Nagalia Ballu	02	-	-	-	-	-
	Kazibehta	Nagla Khakam	08	-	-	-	-	-
	Khetapur	Sakatpur	02	-	-	-	-	-
	Rafipur	Singhpur	02	-	-	-	-	-
		Total	21	-	-	-	-	-
2B5A4c2d	Kisoli	Dharampur Nikat	03	-	-	-	-	-

		Dhadol						
	Kisoli	Mirzapur Iktara	02	-	-	-	-	-
	Ahmadnagar Theresa	Ahmadnagar Theresa	03	-	-	-	-	-
	Bhawan	Bhawan	03	-	-	-	-	-
	Bisaru	Bisaru	01	-	-	-	-	-
	Dhadol	Dhadol	05	-	-	-	-	-
	Ahmadnagar Theresa	Ishakpur	03	-	-	-	-	-
	Khetapur	Khetapur	11	-	-	-	-	-
	Theresa Jaisingh	Theresa Jaisingh	02	-	-	-	-	-
	Dudhapur	Dudhapur	04	-	-	-	-	-
	Rajpur	Rajpur	08	-	-	-	-	-
	Khetapur	Sakatpur	04	-	-	-	-	-
	Rafipur	Singhpur	02	-	-	-	-	-
		Total	51	-	-	-	-	-
2B5A4c3	Chittanpur	Yusufpur	06	-	-	-	-	-
	Kisoli	Mirzapur Iktra	02	-	-	-	-	-
	Akbarpur	Akbarpur	11	-	-	-	-	-
	Bemaneta	Bemaneta	10	-	-	-	-	-
	Anandpur	Anandpur	04	-	-	-	-	-
	Sultanpur Khurd	Sultanpur Khurd	06	-	-	-	-	-
	Naroda	Naroda	08	-	-	-	-	-
	Naglia Bhood	Naglia Bhood	03	-	-	-	-	-
	Bharatpur	Bharatpur	06	-	-	-	-	-
	Chittanpur	Chittanpur	06	-	-	-	-	-
	Naglia Kather	Jalalpur	11	-	-	-	-	-
	Mathera Dharampur	Bhimpur	04	-	-	-	-	-
	Mathera Dharampur	Mathera Dharampur	10	-	-	-	-	-
	Rampura	Rampura	11	-	-	-	-	-
	Rajpur	Rajpur	10	-	-	-	-	-
	Majhola	Majhola	04	-	-	-	-	-

	Bisraru	Bisraru	02	-	-	-	-	-
	Naglia Kather	Achalpur	05	-	-	-	-	-
	Naglia Kather	Naglia Kather	06	-	-	-	-	-
	Kaneta	Kaneta	12	-	-	-	-	-
	Anandpur	Dyodai	03	-	-	-	-	-
	Sultanpur Khurd	Madara	04	-	-	-	-	-
	Dhakari	Dhakari	06	-	-	-	-	-
	Chittora	Chittora	04	-	-	-	-	-
	Dhakari	Behjoi Dehat	16	-	-	-	-	-
	Bhawan	Bhawan	08	-	-	-	-	-
	Partapur	Partapur	05	-	-	-	-	-
	Behta Jaisingh	Behta Jaisingh	12	-	-	-	-	-
	Fatehpur sharifnagar	Fatehpur Sharifnagar	07	-	-	-	-	-
	Sultanpur Khurd	Jaimalpur	02	-	-	-	-	-
	Mirzapur Nasrullapur	Mirzapur Nasrullapur	10	-	-	-	-	-
	Naroda	Alawalpur	06	-	-	-	-	-
	Partapur	Ghasipur	03	-	-	-	-	-
	Chatan	Chatan	02	-	-	-	-	-
	Fatehpur sharifnagar	Bichola	01	-	-	-	-	-
	Sadat Wari	Sadat Wari	02	-	-	-	-	-
		Total	228	-	-	-	-	-
		Grand Total	324					

4.3: Self Help Group (SHG)

Self help group is motivated homogenous group organized through credit and thrift activities. Self help group especially for women help and uplift their livelihood. Generally self help group formed for the landless/asset less, SC/ST and women.

Table 4.6: Details of Self Help Groups

S. No.	MWS code	Name of MWS	No of SHG	Total No. of Members				Accounts opened	Saving in Rs.	Formation Status		Group Activity
				Woman	SC/ST	Other	Total			formed	Under Process	
1	2B5A4c1d	Lahravan	12	10	15	35	60	4	13000	12	--	Animal Husbandry, Tailoring, Goat keeping, Dairy, Dari Weaving, Poultry, Piggery.
2	2B5A4c1a	Majhola	11	--	05	15	20	5	16500	4	7	
3	2B5A4c2a	Singhpur	10	10	--	40	50	10	5000	10	--	
4	2B5A4c2d	Rajpur	24	10	10	40	60	6	19500	12	12	
5	2B5A4c3	Nagliya Kather	112	25	80	275	380	12	21300	76	36	
	Total		169	55	110	405	570	37	75300	114	55	

Before the formation of SHGs, PRA activities & Group discussions (GDs) is organized with the help of women, which came up with the following observations:-

- (a) Lack of proper credit facilities due to low intervention of formal financial credit institutions.
- (b) Excessive exploitation of weaker section by money lenders and also Lack of attitude for saving among poor people.
- (c) Lack of Knowledge on credit, thrift activity and banking.

With a detailed discussion identified training institutes, NGOs working in the area it was planned to provide capacity building to SHGs to promote livelihood activities with an aim to women empowerment also.

4.4: Convergence in IWMP-I, Bhimnagar:

Several programs are running in the areas which are sponsored by Govt. of U.P. & Govt. of India. Some of them are given below (Table 4.7).

Table 4.7: List of State/Central Govt. Schemes

S.No.	Name of Program	Implementing Agency	Objectives
1	Training Program	Ag. Department & KVK	Capacity building of the farmers.
2	National Horticulture Mission	Horticulture Department	Increasing the area & Productivity of Products under fruits and vegetables.
3	MNREGA	Gram Panchayat	To provide 100 days employment in a year to the villagers to avoid migration.
4	Animal Husbandry	U.P. Animal Husbandry Dept.	To improve the productivity of animals.
5	NABARD	Ag. Department	Soil & Water conservation & Watershed Development.

Table 4.8: Details of Convergence with other Schemes in IWMP watershed development works. (Amt. in Lacs)

S.No.	Watershed Code	Project Cost	Treatable Area	IWMP Budget	Convergence	%age	Name of Schemes for Converging with IWMP	Remarks
1	2B5A4c1d	29.433	438.00	29.433	Nil	Nil	MNREGA	
2	2B5A4c1a	29.889	434.00	29.165	0.724	2.48	MNREGA	
3	2B5A4c2a	26.302	378.00	25.402	0.900	3.54	MNREGA	
4	2B5A4c2d	62.098	900.00	60.480	1.618	2.68	MNREGA	
5	2B5A4c3	308.221	4030.00	270.816	37.405	13.81	MNREGA	
	Total	455.943	6180.00	415.296	40.647	9.79		

CHAPTER-5

MANAGEMENT ACTION PLAN

The details of Preparatory Phase, Work Phase and Convergence Planning are described in subsequent sections.

5.1: Entry Point Activity (EPA):

Entry point activities have been executed with the consent of stake holders and it has helped in winning the confidence of the villagers for moving ahead the other programs of watershed. In total 24 activities have been executed in the project area utilizing Rs. 29.40 Lac.

Table 5.1: Details of EPA

S.No.	Block	No. of EPA Target	No. of EPA undertaken	Name of EPA	Location/ Village	Expenditure	Remarks
1	Behjoi, Pawansa	24	24	Drain	Mirjapur, Nusrullapur	1.75787	
				Kharanja	Chittanpur	0.53130	
				Drain	Ghasipur	1.34174	
				Drain	Bhimpur	1.22407	
				Drain	Alavalpur	0.91753	
				Drain	Usufpur	1.66012	
				Drain	Bichola	1.38709	
				Drain	Dhakari	0.52955	
				Panchyat Bhavan Boundary wall	Methara Dharampur	1.63459	
				Primary School Boundary wall	Chittora	1.40650	
				Drain	Behta jaisingh	0.84404	
				Drain	Rampura	0.64527	
				Drain	Behjoi Dehat	1.12428	
				Drain+ Kharanja	Naglia Kather	1.23727	
				Drain	Bharatpur	0.48778	
				Drain	Dyodhai	1.86978	
				Drain	Lehravan	0.92165	
				Drain	Majhola	1.36042	
				Primary School	Afjalpur Daroli	0.53837	

				Boundary wall			
				Drain	Nagla Khakam	2.06823	
				Drain	Naglia Ballu	2.36418	
				Culvert+Kachcha Drain	Khetapur	0.86106	
				Kharanja	Rajpur	2.11401	
				Primary School Boundary wall	Bhawan	0.57330	
					Total	29.40000	

5.2 Watershed Work Phase:

Following are the major problems of the watershed:-

Moisture stress-Drought conditions
Erosion hazard
Excess runoff
Land degradation
Low fertility of soil
Ground water depletion/Low ground water table
Low cropping intensity
Lack of technical knowledge
Lack of irrigation facilities
Low productivity of crops
Poor availability of drinking water for human as well as animals
Overgrazing
Poor vegetative cover
Heavy infestation of wild animal such as monkeys and Boselaphus(Blue cow)
Poor/low productive breeds of milch animals
Low milk production
Lack of feed & fodder availability
Lack of timber and fuel wood
Lack of proper market facilities
Lack of educational, transportation, medical & health care facilities
Small land holdings
Low income of the households
Lack of employment opportunity
Migration from the project area

Watershed Work Phase Activities Proposed:

The details of Grampanchayat/ Village wise Financial Abstract is given in Table 5.2.

Table: 5.2 Panchayat/ Village wise Financial Abstract of Watershed Development Works, Livelihood Activities for Landless/ Assetless and Production System and Microenterprises.

IWMP-I Bhima Nagar

Amt. in Lacs

S. No.	Name of Grampanchayat	Name of Village	Treatable Area (ha.)	Watershed Development Works	Livelihood Activities for Landless/Assetless	Production System & Microenterprises	Total	Name of Block
1	2	3	4	5	6	7	8	
1	Afjalpur Dharoli	Afjalpur Dharoli	34.000	2.146	0.400	0.410	2.956	Pawansa
2	Lehravan	Lehravan	310.500	19.522	3.350	3.720	26.592	Behjoi
		Bhartara	68.300	4.165	0.750	0.820	5.735	Behjoi
		Total	378.800	23.687	4.100	4.540	32.327	
3	Mulheta	Mulheta	10.000	0.480	0.150	0.120	0.750	Behjoi
4	Bisaru	Bisaru	142.700	6.058	1.500	1.710	9.268	Behjoi
5	Majhola	Majhola	381.872	25.545	4.150	4.580	34.275	Behjoi
6	Rafipur	Rafipur	-	-	-	-	-	
		Sinhpur	137.000	5.478	1.500	1.650	8.628	Behjoi
		Total	137.000	5.478	1.500	1.650	8.628	
7	Nagaliya Ballu	Nagaliya Ballu	17.000	4.759	0.150	0.200	5.109	Pawansa
8	Kazibehta	Kazibehta	-	-	-	-	-	
		Nagala Khakam	239.000	14.767	2.500	2.760	20.027	Pawansa
		Total	239.000	14.767	2.500	2.760	20.027	
9	Nagaliya Kather	Nagaliya Kather	75.000	2.236	0.800	0.900	3.936	Behjoi
		Achalpur	96.000	10.031	1.050	1.150	12.231	Behjoi
		Jalalpur	55.186	6.574	0.600	0.660	7.834	Behjoi
		Total	226.186	18.841	2.450	2.710	24.001	
10	Ahmadnagar Theresa	Ahmadnagar Theresa	60.000	7.021	0.650	0.720	8.391	Pawansa
		Ishakpur	71.214	8.524	0.800	0.850	10.174	Pawansa
		Total	131.214	15.545	1.450	1.570	18.565	
11	Kisoli	Kisoli	-	-	-	-	-	
		Dharpur Nikat	22.000	0.902	0.250	0.260	1.412	Pawansa

		Dhadol						
		Mirzapur Iktara	31.000	1.106	0.300	0.370	1.776	Pawansa
		Total	53.000	2.008	0.550	0.630	3.18 8	
12	Bhawan	Bhawan	144.060	10.903	1.550	1.730	14.183	Behjoi
13	Dhadol	Dhadol	136.158	5.727	1.500	1.630	8.857	Behjoi
14	Theresa Jaisingh	Theresa Jaisingh	30.000	1.040	0.300	0.360	1.700	Pawansa
15	Dudhapur	Dudhapur	48.000	1.866	0.550	0.580	2.996	Behjoi
16	Rajpur	Rajpur	428.611	29.625	4.444	5.170	39.239	Behjoi
17	Rampura	Rampura	201.471	10.806	2.150	2.420	15.376	Behjoi
18	Akbarpur	Akbarpur	154.000	10.406	1.650	1.850	13.906	Behjoi
19	Fatehpur Sharifnagar	Fatehpur Sharifnagar	197.304	17.156	2.150	2.370	21.676	Behjoi
		Bichola	8.000	0.366	0.150	0.100	0.616	Behjoi
		Total	205.304	17.522	2.300	2.470	22.292	
20	Partapur	Partapur	116.000	5.605	1.250	1.390	8.245	Behjoi
		Ghasipur	110.000	5.555	1.200	1.320	8.075	Behjoi
		Total	226.000	11.160	2.450	2.710	16.320	
21	Mirzapur Nasrullapur	Mirzapur Nasrullapur	253.530	16.366	2.700	3.040	22.106	Behjoi
22	Maithra Dharmipur	Maithra Dharmipur	212.000	13.967	2.300	2.540	18.807	Behjoi
		Bheempur	77.000	3.800	0.800	0.920	5.520	Behjoi
		Total	289.000	17.767	3.100	3.460	24.327	
23	Naranda	Naranda	167.000	12.721	1.800	2.000	16.521	Behjoi
		Alawalpur	93.478	3.866	1.050	1.120	6.036	Behjoi
		Nagaliya Bhoo	42.000	1.919	0.450	0.500	2.869	Behjoi
		Total	302.00	18.506	3.300	3.620	25.426	Behjoi
24	Sadat Bari	Sadat Bari	25.906	1.622	0.300	0.310	2.232	Behjoi
25	Sultanpur Khurd	Sultanpur Khurd	78.348	11.090	0.900	0.940	12.930	Behjoi
		Jaimalpur	24.000	0.805	0.250	0.290	1.345	Behjoi
		Madara	83.000	8.292	0.900	1.000	10.192	Behjoi
		Total	185.348	20.187	2.050	2.230	24.467	
26	Chittanpur	Chittanpur	148.000	10.510	1.600	1.780	13.890	Behjoi
		Yusufpur	131.510	11.391	1.400	1.580	14.371	Behjoi
		Total	279.510	21.901	3.000	3.360	28.261	

27	Anandpur	Anandpur	110.362	5.323	1.200	1.320	7.843	Behjoi
		Deodhai	118.817	5.190	1.250	1.430	7.870	Behjoi
		Total	229.179	10.513	2.450	2.750	15.713	
28	Bamneta	Bamneta	89.000	7.343	1.000	1.070	9.413	Behjoi
29	Behta Jaisingh	Behta Jaisingh	267.555	17.245	2.900	3.210	23.355	Behjoi
30	Bharatpur	Bharatpur	156.000	15.298	1.650	1.870	18.818	Behjoi
31	Dhakari	Dhakari	71.000	3.229	0.750	0.850	4.829	Behjoi
		Behjoi	223.000	14.091	2.400	2.680	19.171	Behjoi
		Total	294.000	17.320	3.150	3.530	24.000	
32	Chitaura	Chitaura	152.720	11.435	1.650	1.830	14.915	Behjoi
33	Chatan	Chatan	26.000	1.189	0.300	0.310	1.799	Behjoi
34	Khetapur	Khetapur	180.895	8.425	2.000	2.170	12.595	Behjoi
		Sakatpur	76.000	7.455	0.800	0.910	9.165	Behjoi
		Total	256.895	15.880	2.800	3.080	21.760	
35	Kaneta Nikat Behjoi	Kaneta Nikat Behjoi	57.509	4.355	0.600	0.690	5.645	Behjoi
		Grand Total	6180.000	415.296	66.744	74.160	556.200	

Table: 5.3 Details of Watershed Development work Grampanchayat wise

Name of Microwatershed - LAHRAVAN 2B5A4c1d

S. No.	Particular of Measures/Activities	Unit	Name of Gram Panchayat										Total Amt. in lacs
			Nagliya Kather		Majhola		Bisaru		Mulhata		Lehravan		
		No., Length/ ha, Volume	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	
7	2	3	4	5	6	7	8	9	10	11	12	13	14
	Watershed Development Works												
	7.1 Land Developmen												
	1. Afforestation (on wasteland)	ha											
	2. Afforestation (on total land)	ha											
	3. Horticulture(on wasteland)	ha											
	4. Horticulture(on total land	ha											
	5. Agriculture (on wasteland)	ha											
	6. Agriculture(on total land)	ha											
	7. Pasture (on wasteland)	ha											
	8. Pasture(on total land)	ha											
	9. Agro forestry	No. of plant	390	0.097	100	0.023	1000	0.250	100	0.027	3000	0.754	1.151
	10. Social Forestry	ha	0.850	0.179	-	-	-	-	-	-	-	-	0.179
	7.2 Soil and Moisture Conservation												
	1. Field Bunding	ha	6.683	0.384	-	-	43.973	3.292	10.176	0.453	216.019	6.481	10.61
	2. Contour Bunding	ha	29.011	2.630	8.500	0.415	-	-	-	-	63.304	3.948	3.948
	3. Peripheral Bunding/ Marginal Bund	ha	-	-	-	-	-	-	-	-	5.00	5.00	0.500
	4. Submergence Bunding	ha											
	5. Others	ha											
	7.3 Vegetative and Engineering Structure												

	1. Earthen Checks	cum											
	2. Brushwood Checks	Rmt											
	3. Gully plugs	cum											
	4. Loose bolder	cum											
	5. Gabian structure	cum											
	6. Drop spillway	nos											
	7. Pipe outlet	nos											
	8. Others	nos											
	7.4 Water Harvesting Structures (New Created)												
	1. Farm ponds	nos											
	2. Check dams	nos											
	3. Nallah Bunds	nos											
	4. Percolation tanks	nos											
	5. Ground Water recharge structure	nos											
	6. Others	nos											
	7.5 Water Harvesting Structure (Renovated)												
	1. Farm ponds	nos											
	2. Check dams	nos											
	3. Nallah Bunds	nos											
	4. Percolation tanks	nos											
	5. Ground Water recharge structure	nos											
	6. Others Pond	nos	01	5.00	-	-	-	-	-	-	01	5.00	10.00
	Sub Total												
8	Livelihood activities through SHG's												
	(1) Activity Goatary												
	(a) No. of SHG's	nos											
	(b) No. of members	nos											
	(2) Activity- Back Yard Poultry												
	(a) No. of SHG's	nos											
	(b) No. of members	nos											

	(5) Piggeries												
	(a) No. of SHG's	nos											
	(b) No. of members	nos											
	(10) Animal Husbandry												
	(a) No. of SHG's	nos	03	0.750	01	0.250	02	0.500	01	0.250	05	1.250	3.000
	(b) No. of members	nos	15	-	05	-	10	-	05	-	25	-	-
	(11) Mini Flour Mill												
	(a) No. of SHG's	nos											
	(b) No. of members	nos											
	(12) Mini Oil Expeller												
	(a) No. of SHG's	nos											
	(b) No. of members	nos											
	(13) Carpentry												
	(a) No. of SHG's	nos											
	(b) No. of members	nos											
	(14) Others (Federation+Personal)	No.	01	0.150	-	-	01	0.150	01	0.150	01	1.000	1.450
	Sub Total												4.450
9	Production system & ME												
	(1) Agriculture												
	(a) Crop demonstration												
	(1) No. of dem.	nos	08	0.410	07	0.360	08	0.410	08	0.410	31	1.561	3.151
	(2) Area	Ha.	2.600	-	2.350	-	2.600	-	2.600	-	9.850	-	-
	(b) Seed Production												
	(1) No. of dem.												
	(2) Area												
	(2) Horticulture/ Agri- Horticulture												
	(a) Area	Ha.											
	(b) No. of Plants	nos											
	(3) Agro- forestry												
	(a) Scattered Plantation												
	(i) No. of plants	nos											
	(c) Block Plantation												
	(i) Area	Ha.	-	-	-	-	0.40	0.125	-	-	1.20	0.375	0.500

	(4) Animal husbandry												
	(a) Green fodder	Ha./no. farmer											
	(b) Rearing of milch cattle												
	(i) Cow	No. of unit/ farmer no.											
	(ii) Buffalows	„	-	-	-	-	01	0.24	-	-	01	0.24	0.480
	(c) Goatary	„	01	0.10	-	-	02	0.20	01	0.10	07	0.70	1.10
	(d) Poultry												
	(e) Fisheries												
	(f) Dairy												
	(g) Health camps	nos											
	(h) Artificial insemination	No. of animals											
	(i) Natural service bull	No.											
	(5) Micro Interprises	nos											
	(a) No. of units	nos											
	(b) No. of beneficiaries	Rs.											
	(c) Income per year												
	Sub Total												
	Grand Total												

Annual Action Plan for Watershed Development Work

Bhimnagar IWMP-I

Table: 5.4-

S.No	MWS Code	Treatable Area	Watershed Development Works 1st Year(2010-11)											
			FB/CB		MB/PB		Agro. Forestry	Social.Forestry		Ponds			Total	
			Phy.	Fin.	Phy.	Fin.	Fin.	phy	Fin.	Nos	Phy.	Fin.	Phy.	Fin.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	2B5A4c1d	438.00	100.00	4.170	5.00	0.500	0.076	0.85	0.179	-	-	-	105.85	4.925
2	2B5A4c1a	434.00	105.00	5.9.00	10.00	1.506	0.086	0.71	0.149	1	4.00	1.850	119.71	9.491
3	2B5A4c2a	378.00	90.00	3.965	10.00	0.659	0.072	-	-	-	-	-	100.00	4.696
4	2B5A4c2d	900.00	190.00	7.429	20.00	1.506	0.152	-	-	-	-	-	210.00	9.087
5	2B5A4c3	4030.00	264.00	22.131	20.00	1.354	0.214	3.44	0.722	1	5.00	3.000	292.44	27.421
	Total	6180.00	749.00	43.595	65.00	5.525	0.600	5.00	1.050	2	9.00	4.850	828.00	55.620

Contd.

Bhimnagar IWMP-I

S.No	MWS Code	Treatable Area	Watershed Development Works 1st Year(2011-12)											
			FB/CB		MB/PB		Agro. Forestry	Social. Forestry		Ponds			Total	
			Phy.	Fin.	Phy.	Fin.	Fin.	Phy.	Fin.	Nos	Phy.	Fin.	Phy.	Fin.
1	2	3	16	17	18	19	20	21	22	23	24	25	26	27
1	2B5A4c1d	438.00	100.00	4.170	-	-	-	-	-	-	-	-	100.00	4.170
2	2B5A4c1a	434.00	110.00	6.182	-	-	-	-	-	-	-	-	110.00	6.182
3	2B5A4c2a	378.00	90.00	3.965	10.00	0.659	-	-	-	1	4.00	4.000	104.00	8.624
4	2B5A4c2d	900.00	190.00	7.429	20.00	1.506	-	-	-	1	4.00	4.000	214.00	12.935
5	2B5A4c3	4030.00	1203.00	76.263	27.00	2.680	-	-	-	6	22.00	19.200	1252.00	98.143
	Total	6180.00	1693.00	98.009	57.00	4.845	-	-	-	8	30.00	27.200	1780.00	130.054

Contd.

Bhimnagar IWMP-I

S.No	MWS Code	Treatable Area	Watershed Development Works 1st Year(2012-13)											
			FB/CB		MB/PB		Agro. Forestry	Social. Forestry		Ponds			Total	
			Phy.	Fin.	Phy.	Fin.	Fin.	Phy.	Fin.	Nos	Phy.	Fin.	Phy.	Fin.
1	2	3	28	29	30	31	32	33	34	35	36	37	38	39
1	2B5A4c1d	438.00	100.00	4.170	-	-	0.664	-	-	1	5.00	5.000	105.00	9.834
2	2B5A4c1a	434.00	108.00	6.070	-	-	0.708	-	-	1	4.00	1.900	112.00	8.678
3	2B5A4c2a	378.00	90.00	3.965	10.00	1.122	0.632	-	-	-	-	-	100.00	5.719
4	2B5A4c2d	900.00	260.00	10.166	40.00	3.012	1.959	1.34	0.321	2	9.00	7.000	310.34	22.458
5	2B5A4c3	4030.00	1097.50	42.484	8.00	0.796	7.311	4.16	0.874	11	48.00	35.5	1157.66	86.965
	Total	6180.00	1655.50	66.855	58.00	4.930	11.274	5.50	1.195	15	66.00	49.400	1785.00	133.654

Contd.

Bhimnagar IWMP-I

S.No	MWS Code	Treatable Area	Watershed Development Works IVth Year(2013-14)											
			FB/CB		MB/PB		Agro. Forestry	Social. Forestry		Ponds			Total	
			Phy.	Fin.	Phy.	Fin.	Fin.	Phy.	Fin.	Nos	Phy.	Fin.	Phy.	Fin.
1	2	3	40	41	42	43	44	45	46	47	48	49	50	51
1	2B5A4c1d	438.00	122.14	5.093	-	-	0.333	-	-	1	5.00	5.000	127.14	10.426
2	2B5A4c1a	434.00	92.29	5.186	-	-	0.241	-	-	-	-	-	92.29	5.427
3	2B5A4c2a	378.00	52.00	2.292	17.00	1.731	0.194	-	-	1	5.00	4.000	74.00	8.217
4	2B5A4c2d	900.00	114.67	4.484	38.00	2.864	0.420	-	-	3	13.00	10.000	165.67	17.768
5	2B5A4c3	4030.00	1283.90	61.803	-	-	3.474	-	-	9	44.00	29.500	1327.90	94.777
	Total	6180.00	1665.00	78.858	55.00	4.595	4.662	-	-	14	67.00	48.500	1787.00	136.615

Contd.

Bhimnagar IWMP-I

S.No	MWS Code	Treatable Area	Watershed Development Worsks Vth Year(2014-15)											
			FB/CB		MB/PB		Agro. Forestry	Social. Forestry		Ponds			Total	
			Phy.	Fin.	Phy.	Fin.	Fin.	Phy.	Fin.	Nos	Phy.	Fin.	Phy.	Fin.
1	2	3	52	53	54	55	56	57	58	59	60	61	62	63
1	2B5A4c1d	438.00	-	-	-	-	-	-	-	-	-	-	-	-
2	2B5A4c1a	434.00	-	-	-	-	-	-	-	-	-	-	-	-
3	2B5A4c2a	378.00	-	-	-	-	-	-	-	-	-	-	-	-
4	2B5A4c2d	900.00	-	-	-	-	-	-	-	-	-	-	-	-
5	2B5A4c3	4030.00	-	-	-	-	-	-	-	-	-	-	-	-
	Total	6180.00	-	-	-	-	-	-	-	-	-	-	-	-

Contd.

Bhimnagar IWMP-I

S.No	MWS Code	Treatable Area	Watershed Development Works Total											
			FB/CB		MB/PB		Agro. Forestry	Social. Forestry		Ponds			Total	
			Phy.	Fin.	Phy.	Fin.	Fin.	Phy.	Fin.	Nos	Phy.	Fin.	Phy.	Fin.
1	2	3	64	65	66	67	68	69	70	71	72	73	74	75
1	2B5A4c1d	438.00	422.14	17.603	5.00	0.500	1.151	0.86	0.179	2	10.00	10.000	438.00	29.433
2	2B5A4c1a	434.00	415.29	23.338	10.00	1.506	1.146	0.71	0.149	2	8.00	3.750	434.00	29.889
3	2B5A4c2a	378.00	322.00	14.187	47.00	3.095	1.020	-	-	2	9.00	8.000	378.00	26.302
4	2B5A4c2d	900.00	754.67	29.508	118.00	8.888	2.423	1.33	0.279	6	26.00	21.000	900.00	62.098
5	2B5A4c3	4030.00	3848.40	202.681	55.00	5.906	10.796	7.60	1.638	27	119.00	87.200	4030.00	308.221
	Total	6180.00	5762.50	287.317	235.00	19.895	16.536	10.50	2.245	39	172.00	129.950	6180.00	455.943

CHAPTER-6

CAPACITY BUILDING PLAN

The capacity building of various stake holders will be given very high priority as the watershed is to be developed in participatory mode. Capacity building initiative plays very important role in human resource development of watershed.

Table 6.1: List of identified training institutes for capacity building

S.No.	Name of Training institute	Address	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	SIRD/CSWCRTI/NIRD	Lucknow, Agra, Hyderabad	Director	State level	Training on common Guidelines- 2008 of Watershed development and its implementation, Soil & Watershed Management, Agriculture, Horticulture, Production System, Livelihood, Animal Husbandry etc.	41	28	State, WCDC level
2	KVK-State Agri. Univ.	Bilari Moradabad, Meerut	Director	District level		51	1399	At Village level
3	UP Land & Water Management Institute Belikala, Lucknow and Other Institute identified by SLNA.							

Table 6.2: Training to stakeholders on participatory watershed management

S.No.	Client Group	Title of the program/ duration/time	Objectives	Coverage/Topics	Training methodology	Training institutions
1	2	3	4	5	6	7
1	WC,SHG,UG	IWMP/1-5 days/ 10.00am-5.00pm	Training	Soil & Water Management Agriculture, Horticulture, Livelihood, (Dairy, fisheries, poultry, piggeries, food processing, knitting & enterprises)	Skill development	KVK Bilari, Moradabad, DIRD Moradabad, S.V.P University, Meerut

Table 6.3: Capacity Building Annual Action Plan

(Amt.in lack Rs.)

S. No.	Stake holders	Total no of persons/ members	Physical & Financial Planning															Total		
			Ist Year			IInd Year			IIIrd year			IVth Year			Vth Year			Phy.	No of Trgs./ days	Amt.
			Ph y.	No of Trgs./ days	Amt.	Phy.	No of Trgs./ days	Amt.	Phy.	No of Trgs./ days	Amt.	Phy.	No of Trgs./ days	Amt.	Phy.	No of Trgs./ days	Amt.			
1	SLNA	-	-	-	1.4832	-	-	0.3708	-	-	0.3708	-	-	-	-	-	-	-	-	2.2248
2	WCDC	8	8	9/5	3.7080	6	3/5	0.9270	6	3/5	0.9270	6	2/5	0.5562	6	2/5	0.5562	32	19/5	6.6744
3	PIA	16	16	5/3	2.4000	16	2/3	0.4800	16	2/3	0.4800	-	-	-	-	-	-	16	9/3	3.3600
4	WDT	4	4	5/3	0.6000	4	4/3	0.2400	4	4/3	0.2400	-	-	-	-	-	-	4	13/3	1.0800
5	WC	240	60	4/2	2.4000	35	4/2	1.4000	35	4/2	1.4000	50	5/1	1.2978	50	5/1	1.2978	60	22/2	7.7956
6	SHG	480	60	8/1	2.4000	60	2/1	0.6000	60	2/1	0.6000	-	-	-	-	-	-	60	12/1	3.6000
7	UG	600	60	10/1	3.0000	60	1/1	0.3000	60	1/1	0.3000	-	-	-	-	-	-	60	12/1	3.6000
8	Other	75	25	3/15	6.2568	15	1/15	1.2440	15	1/15	1.2444	-	-	-	-	-	-	55	5/15	8.7452
	Total	1423	--	44	22.2480	196	17	5.5618	196	17	5.5622	56	7	1.8540	56	7	1.8540	737	92	37.0800

Other- Special Training & Exposure visit, Awareness Activity etc.

CHAPTER-7

PHASING OF PROGRAMME AND BUDGETING

7.1 Monitoring and Evaluation:

Monitoring of the project will be done at each stage and it will be carried out for both process and outcome. Some community members will be trained and will be involved in participatory monitoring of various parameters and processes and the crop yields. The intervention, expenditure, another information will be displayed in the micro watershed through wall writing. Besides trained community members, PIA/WCDC will also monitor the physical and financial progress of watershed development program. Frontier technologies viz. GIS and Remote Sensing techniques will be used by the PIA/WCDC for monitoring and evaluation. The PIA shall submit quarterly progress reports (countersigned by President of Watershed Committee (WC) to WCDC for further submission to the SLNA. About 1% of the total budget will be used on this activity.

Plan for Evaluation

Watershed development activities bring both tangible and intangible benefits. In order to quantify the benefits, impact analysis has been proposed.

Theme

It is presumed that as a consequence of watershed development activities there will be noticeable change in socio-economic status of inhabitants, cropping intensity, ground water recharge, crop diversification, fuel and small timber availability, livestock composition and milk production etc. These indicators can be gauged over bench mark data both at the beginning and at the end of the project within the watershed.

Observation

The following indicators will be taken into account for quantities and qualities assessment. For the purpose, detailed questionnaires will be prepared and field observation will be carried out.

- ☐ Duration of availability of drinking water/irrigation and ground water recharge.
- ☐ Irrigation frequency and area under irrigation.
- ☐ Changes in cropping pattern and cropping system in the farmers fields along with productivity and incomes.
- ☐ Soil health.
- ☐ Satellite monitoring for vegetation cover and other parameters.
- ☐ Livestock composition and productivity.
- ☐ Periodic pest and disease monitoring will be done in major crops.

Physical and financial targets and outlays and year wise breakups are given in Table 7.1.

Table 7.1 Year wise Financial and Physical Phasing (Rs. In lacs)

S.No	Item	Unit	2010-11		2011-12		2012-13		2013-14		2014-15		Total	
			Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Administrative 10%	-	14.832	-	14.832	-	14.832	-	14.832	-	14.832	-	74.160	-
2	Monitoring 1%	-	1.4832	-	1.4832	-	1.4832	-	1.4832	-	1.4832	-	7.416	-
3	Evaluation 1%	-	2.2248	-	-	-	2.5956	-	-	-	2.5956	-	7.416	-
4	Entry Point Activity 4%	NO.	29.664	24	-	-	-	-	-	-	-	-	29.664	24
5	Institutional and Capacity building 5%	Trg/ Person	22.248	44/1423	5.5618	17/401	5.5622	17/401	1.854	7/262	1.854	7/262	37.080	92/2749
6	D.P.R Preparation 1%	-	7.416	-	-	-	-	-	-	-	-	-	7.416	-
7	Watershed Dev. Works 56%	ha	55.620	828.00	130.054	1780.00	133.654	1785.00	136.615	1787.00	-	-	455.943	6180.00
8	Livelihood & Income Generating 9%	No.	7.416	33	18.540	60	18.540	58	11.124	37	11.124	43	66.744	231
9	Production System & Microenterprises 10%	No.	7.416	141	18.540	265	18.540	264	14.832	208	14.832	222	74.160	1100
10	Consolidation phase 3%	-	-	-	-	-	-	-	-	-	22.248	-	22.248	-
	Total		148.320		189.011		195.207		180.7402		68.9688	-	782.247	

Note:- Convergence of Rs. 40.647 lac is proposed in watershed development works.

LIVELIHOOD ACTION PLAN

Table 7.2: Livelihood Activities for Landless/Asset less People

(Rs. In lacs)

S. No.	MWS Code	Name of MWS	SHG			Activity Proposed	Federation					Individual				Total
			No. of unit	Per unit cost	Release Amt. from Proj. fund		No. of unit	Per unit cost	Cost of Activity	Release Amt. from Proj. fund	Federation share	No.	Per unit cost	Cost of Activity	Release Amt. from Proj. fund	
1	2B5A4c1d	Lehravan	12	0.25	3.00	Animal husbandry , Goatry, Piggery, Stitching, Poultry, Dari Weaving etc.	01	2.25	2.25	1.00	1.25	03	0.15	0.45	0.45	4.45
2	2B5A4c1a	Majhola	11	0.25	2.75		01	2.25	2.25	1.00	1.25	03	0.15	0.45	0.45	4.20
3	2B5A4c2a	Sinhpur	10	0.25	2.50		01	2.25	2.25	1.00	1.25	03	0.15	0.45	0.45	3.95
4	2B5A4c2d	Rajpur	24	0.25	6.00		02	2.00	4.00	2.00	2.00	06	0.15	0.90	0.90	8.90
5	2B5A4c3	Naglia Kather	112	0.25	28.00		13	1.50 to 2.70	27.30	12.994	14.306	29	0.15	4.25	4.25	45.244
		Total	169	0.25	42.25		18		38.05	17.994	20.056	44	0.15	6.50	6.50	66.744

Note:- Identification of federations, individuals and some SHGs is under process

Table 7.3: Annual Action Plan (AAP)

Year wise Annual Action Plan of Livelihood Activity

Bhimnagar IWMP-I

S.No	MWS Code	Treatable Area	Ist Year (2010-11)								IInd Year (2011-12)							
			Group		Federation		Personal		Total		Group		Federation		Personal		Total	
			No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1	2B5A4c1d	438.00	2	0.500	-	-	-	-	2	0.500	4	1.000	1	1.000	1	0.150	6	2.150
2	2B5A4c1a	434.00	1	0.250	-	-	-	-	1	0.250	3	0.750	-	-	-	-	3	0.750
3	2B5A4c2a	378.00	2	0.500	-	-	1	0.150	3	0.650	2	0.500	-	-	1	0.150	3	0.650
4	2B5A4c2d	900.00	4	1.000	-	-	1	0.150	5	1.150	8	2.000	1	1.000	1	0.150	10	3.150
5	2B5A4c3	4030.00	16	4.000	-	-	6	0.866	22	4.866	28	7.000	4	4.000	6	0.840	38	11.840
	Total	6180.00	25	6.250	-	-	8	1.166	33	7.416	45	11.250	6	6.000	9	1.290	60	18.540

Contd.

Bhimnagar IWMP-I

S.No	MWS Code	Treatable Area	IIIrd Year (2012-13)								IVth Year (2013-14)							
			Group		Federation		Personal		Total		Group		Federation		Personal		Total	
			No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.
1	2	3									12	13	14	15	16	17	18	19
1	2B5A4c1d	438.00	2	0.500	-	-	-	-	2	0.500	2	0.500	-	-	1	0.150	3	0.650
2	2B5A4c1a	434.00	3	0.750	1	1.000	1	0.150	5	1.900	2	0.500	-	-	1	0.150	3	0.650
3	2B5A4c2a	378.00	2	0.500	1	1.000	1	0.150	4	1.650	2	0.500	-	-	-	-	2	0.500
4	2B5A4c2d	900.00	4	1.000	-	-	2	0.300	6	1.300	4	1.000	1	1.000	1	0.150	6	2.150
5	2B5A4c3	4030.00	28	7.000	5	5.000	8	1.190	41	13.190	20	5.000	2	2.000	1	0.174	23	7.174
	Total	6180.00	39	9.750	7	7.000	12	1.790	58	18.540	30	7.500	3	3.000	4	0.624	37	11.124

Contd.

Bhimnagar IWMP-I

S.No	MWS Code	Treatable Area	Vth Year (2014-15)								Total							
			Group		Federation		Personal		Total		Group		Federation		Personal		Total	
			No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.
1	2	3	4	5	6	7	8	9	10	11	4	5	6	7	8	9	10	11
1	2B5A4c1d	438.00	2	0.500	-	-	1	0.150	3	0.650	12	3.000	1	1.000	3	0.450	16	4.450
2	2B5A4c1a	434.00	2	0.500	-	-	1	0.150	3	0.650	11	2.750	1	1.000	3	0.450	15	4.200
3	2B5A4c2a	378.00	2	0.500	-	-	-	-	2	0.500	10	2.500	1	1.000	3	0.450	14	3.950
4	2B5A4c2d	900.00	4	1.000	-	-	1	0.150	5	1.150	24	6.000	2	2.000	6	0.900	32	8.900
5	2B5A4c3	4030.00	20	5.000	2	1.994	8	1.180	30	8.174	112	28.000	13	12.994	29	4.250	154	45.244
	Total	6180.00	30	7.500	2	1.994	11	1.630	43	11.124	169	42.250	18	17.994	44	6.500	231	66.744

Table 7.4: Crop Demonstration

Note: Details of the identified farmers for crop demonstration are given in project file.

S. No	MWS Code	MWS Name	Crop Season	Name of Crop	No. of unit	Demo. Area	per unit cost of Activity (Rs.)	per ha. cost of Activity (Rs.)	beneficiary share	Release Amt. form Proj. fund	Proposed date for Activity (start)
1	2B5A4c1d	Lehravan	Rabi	Wheat	10	0.40	8000	20000	20%, 10% as applicable	80000	Nov.2011
				Wheat	12	0.25	5000	20000		60000	Nov.2012
				Fodder	04	0.25	5000	20000		20000	Nov.2012
			Kharif	Paddy	05	0.40	8300	20700		41500	June to July.2012.
				Urad	10	0.40	4600	11500		46000	July.2012
				Urad	16	0.25	2875	11500		46000	July.2012
				Bazra	05	0.40	4328	10820		21640	July.2012
			Total		62					315140	
2	2B5A4c1a	Majhola	Rabi	Wheat	10	0.40	8000	20000	20%, 10% as applicable	80000	Nov.2012
				Wheat	14	0.25	5000	20000		70000	Nov.2012
				Fodder	02	0.25	5000	20000		10000	Nov.2012
			Kharif	Paddy	05	0.40	8300	20700		41500	June to July.2012.
				Urad	10	0.40	4600	11500		46000	July.2012
				Urad	16	0.25	2875	11500		46000	July.2012
				Bazra	05	0.40	4328	10820		21640	July.2012
			Total		62					315140	
3	2B5A4c2a	Sinhpur	Rabi	Wheat	10	0.40	8000	20000	20%, 10% as applicable	80000	Nov.2012
				Wheat	06	0.25	5000	20000		30000	Nov.2012
				Fodder	02	0.25	5000	20000		10000	Nov.2012
			Kharif	Paddy	04	0.40	8300	20700		33200	June to July.2012.
				Urad	05	0.40	4600	11500		23000	July.2012
				Urad	16	0.25	2875	11500		46000	July.2012
				Bazra	04	0.40	4328	10820		17312	July.2012
			Total		47					239512	
4	2B5A4c2d	Rajpur	Rabi	Wheat	20	0.40	8000	20000	20%, 10% as applicable	160000	Nov.2012
				Wheat	24	0.25	5000	20000		120000	Nov.2012
				Fodder	08	0.25	5000	20000		40000	Nov.2012
			Kharif	Paddy	10	0.40	8300	20700		83000	June to July.2012.
				Urad	20	0.40	4600	11500		92000	July.2012
				Urad	32	0.25	2875	11500		92000	July.2012
				Bazra	12	0.40	4328	10820		51936	July.2012
			Total		126					638936	

5	2B5A4c3	NagliaKather	Rabi	Wheat	100	0.40	8000	20000	20%, 10% as applicable	800000	Nov.2012
				Wheat	100	0.25	5000	20000		500000	Nov.2012
				Fodder	28	0.25	5000	20000		140000	Nov.2012
			Kharif	Paddy	45	0.40	8300	20700		373500	June to July.2012.
				Urad	100	0.40	4600	11500		460000	July.2012
				Urad	128	0.25	2875	11500		368000	July.2012
				Bazra	50	0.40	4328	10820		216400	July.2012
			Total		551					2857900	
			G. Total		848					4366628	

Table 7.5: Micro Enterprise Based Activity

Amt. in Rs.

S. No.	MWS Code	MWS name	Name of work	No. of Unit	Rate Per unit	Cost of Activity	Beneficiary share	Release Amt. from Project Fund	Proposed date for Activity (start)	Remarks
1	2B5A4c1d	Lehravan	Animal Husbandry (Baffalo+Cattle)	02	50000	100000	52000	48000	May 2012	01 Baffalo or 01 Cattle for each unit
			Goatry	11	10000	110000	-	110000	May 2012	03 Goat for each unit
			Plantation	04	12500	50000	-	50000	May 2012	Popular area 0.4 ha
2	2B5A4c1a	Majhola	Animal Husbandry (Baffalo+Cattle)	02	50000	100000	52000	48000	May 2012	01 Baffalo or 01 Cattle for each unit
			Goatry	11	10000	110000	-	110000	May 2012	03 Goat for each unit
			Plantation	04	12500	50000	-	50000	May 2012	Popular area 0.4 ha
3	2B5A4c2a	Sinhpur	Animal Husbandry (Baffalo+Cattle)	02	50000	100000	52000	48000	May 2012	01 Baffalo or 01 Cattle for each unit
			Goatry	11	10000	110000	-	110000	May 2012	03 Goat for each unit
			Plantation	04	12500	50000	-	50000	May 2012	Popular area 0.4 ha
4	2B5A4c2d	Rajpur	Animal Husbandry (Baffalo+Cattle)	04	50000	200000	104000	96000	May 2012	01 Baffalo or 01 Cattle for each unit
			Goatry	25	10000	250000	-	250000	May 2012	03 Goat for each unit
			Plantation	08	12500	100000	-	100000	May 2012	Popular area 0.4 ha
5	2B5A4c3	Naglia Kather	Animal Husbandry (Baffalo+Cattle)	18	50000	900000	468000	432000	May 2012	01 Baffalo or 01 Cattle for each unit
			Goatry	110	10000	1100000	-	1100000	May 2012	03 Goat for each unit
			Plantation	36	12500	450000	2500	447500	May 2012	Popular area 0.4 ha
		Total		252				3049500		

Note:

1. Details of the identified beneficiary are given in project file.

Annual Action Plan for Production System & Microenterprises based activity Bhimnagar IWMP-I

Table:7.6-

S.No	MWS Code	Treatable Area	Ist Year (2010-11)												IInd Year (2011-12)											
			Crop Demo.		Buffalo		Cattle		Goat Keeping		Plantation		Total		Crop Demo.		Buffalo		Cattle		Goat Keeping		Plantation		Total	
			No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
1	2B5A4c1d	438.00	8	0.441	-	-	-	-	-	-	-	-	8	0.441	19	0.945	1	0.240	-	-	3	0.300	1	0.125	24	1.610
2	2B5A4c1a	434.00	9	0.441	-	-	-	-	1	0.100	-	-	10	0.541	19	0.945	1	0.240	-	-	3	0.300	1	0.125	24	1.610
3	2B5A4c2a	378.00	6	0.315	-	-	-	-	-	-	-	-	6	0.315	13	0.630	1	0.240	-	-	3	0.300	1	0.125	18	1.295
4	2B5A4c2d	900.00	19	1.002	-	-	-	-	-	-	-	-	19	1.002	27	1.378	1	0.240	-	-	7	0.700	2	0.250	37	2.568
5	2B5A4c3	4030.00	98	5.117	-	-	-	-	-	-	-	-	98	5.117	120	6.332	4	0.960	1	0.240	28	2.800	9	1.125	162	11.457
	Total	6180.00	140	7.316	-	-	-	-	1	0.100	-	-	141	7.416	198	10.230	8	1.920	1	0.240	44	4.400	14	1.750	265	18.540

Contd.

Bhimnagar IWMP-I

S.No	MWS Code	Treatable Area	IIIrd Year (2012-13)												IVth Year (2013-14)											
			Crop Demo.		Buffalo		Cattle		Goat Keeping		Plantation		Total		Crop Demo.		Buffalo		Cattle		Goat Keeping		Plantation		Total	
			No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.
1	2	3	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
1	2B5A4c1d	438.00	19	0.945	1	0.240	-	-	3	0.300	1	0.125	24	1.610	9	0.441	-	-	-	-	3	0.300	1	0.125	13	0.866
2	2B5A4c1a	434.00	18	0.945	1	0.240	-	-	3	0.300	1	0.125	23	1.610	8	0.441	-	-	-	-	2	0.200	1	0.125	11	0.766
3	2B5A4c2a	378.00	13	0.630	1	0.240	-	-	3	0.300	1	0.125	18	1.295	8	0.441	-	-	-	-	3	0.300	1	0.125	12	0.866
4	2B5A4c2d	900.00	27	1.378	1	0.240	-	-	7	0.700	2	0.250	37	2.568	27	1.315	1	0.240	-	-	6	0.600	2	0.250	36	2.405
5	2B5A4c3	4030.00	120	6.332	4	0.960	1	0.240	28	2.800	9	1.125	162	11.457	95	5.044	3	0.720	1	0.240	28	2.800	9	1.125	136	9.929
	Total	6180.00	197	10.230	8	1.920	1	0.240	44	4.400	14	1.750	264	18.540	147	7.682	4	0.96	1	0.240	42	4.200	14	1.750	208	14.832

Contd.

Bhimnagar IWMP-I

S.No	MWS Code	Treatable Area	Vth Year (2014-15)												Total											
			Crop Demo.		Buffalo		Cattle		Goat Keeping		Plantation		Total		Crop Demo.		Buffalo		Cattle		Goat Keeping		Plantation		Total	
			No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.	No	Fin.
1	2	3	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
1	2B5A4c1d	438.00	7	0.379	-	-	-	-	2	0.200	1	0.125	10	0.704	62	3.151	2	0.480	-	-	11	1.100	4	0.500	79	5.231
2	2B5A4c1a	434.00	8	0.379	-	-	-	-	2	0.200	1	0.125	11	0.704	62	3.151	2	0.480	-	-	11	1.100	4	0.500	79	5.231
3	2B5A4c2a	378.00	7	0.379	-	-	-	-	2	0.200	1	0.125	10	0.704	47	2.395	2	0.480	-	-	11	1.100	4	0.500	64	4.475
4	2B5A4c2d	900.00	26	1.316	1	0.240	-	-	5	0.500	2	0.250	34	2.306	126	6.389	4	0.960	-	-	25	2.500	8	1.000	163	10.849
5	2B5A4c3	4030.00	118	6.254	3	0.720	1	0.240	26	2.600	9	1.100	157	10.914	551	28.579	14	3.360	4	0.960	110	11.000	36	4.475	715	48.374
	Total	6180.00	166	8.707	4	0.960	1	0.240	37	3.700	14	1.725	222	14.832	848	43.665	24	5.760	4	0.960	168	16.800	56	6.975	1100	74.160

Table: 7.7: Details of proposed watershed wise Convergence in the project :

S.No	Watershed Code	Project Cost in Rs	Treatable Area ha	Budget in Rs	Convergence in Rs	%age of convergence	Name of Schemes for Converging with IWMP	Remarks
1	2B5A4c1d	29.433	438.00	29.433	Nil	Nil	MNREGA	
2	2B5A4c1a	29.889	434.00	29.165	0.724	2.48	MNREGA	
3	2B5A4c2a	26.302	378.00	25.402	0.900	3.54	MNREGA	
4	2B5A4c2d	62.098	900.00	60.480	1.618	2.68	MNREGA	
5	2B5A4c3	308.221	4030.00	270.816	37.405	13.81	MNREGA	
	Total	455.943	6180.00	415.296	40.647	9.79		

CHAPTER-8

CONSOLIDATION AND WITHDRAWAL STRATEGY

Success of the program depends on various watershed interventions and sustainability can only be achieved through active participation of community. It will be on capacity building and empowerment of stakeholders. The WC, SHGs, UGs etc. will be on established, trained and strengthened to continue development after withdraw of PIA. By building economic activities through CBOs community participation will be sustained. The PR&D approach along with demand driven interventions will reduce dependency on subsidies. Contribution from the community will be ensured for the entire activities to develop sense of belongingness and the contribution will be deposited to the account of watershed development fund (WDF). It will also be strengthening through donations from the individuals and institutions and the CBOs will be trained to run watershed as business model on sustainable basis. The tangible economic benefits along with empowerment by PIA will empower the CBOs to develop and sustain the watershed activities after withdrawal of the PIA. Community organization will withdraw the money from the WDF to maintain the assets created during the implementation phase.

The consolidation phase will also include:-

1. To prepare the project completion report.
2. Documentation of success stories.
3. Making films, leaflets, bulletins and the lessons learnt.
4. The expenditure will be done as per the common guidelines for watershed development projects.
5. The completion report will reflect the development on following aspects:-
 - a. Productivity enhancement.
 - b. Nutritional Security.
 - c. Risk minimization (Integrated farming system, water harvesting and protected cultivation, value addition and improved marketing).
 - d. Profitability.
 - e. Livelihood security (skill enhancement capacity building, increased employment in agriculture and allied enterprises, reduction in migration etc.).

CHAPTER -9

EXPECTED PROJECT OUTCOME

9.1 Employment Generation and Checking Migration

Employment has always been a problem in the village. The principal occupations of the people are dry land agriculture, animal husbandry and casual labor 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 labor, 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 field bunds, contour bunds, village pond renovation and 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. It will be helpful in checking of migration.

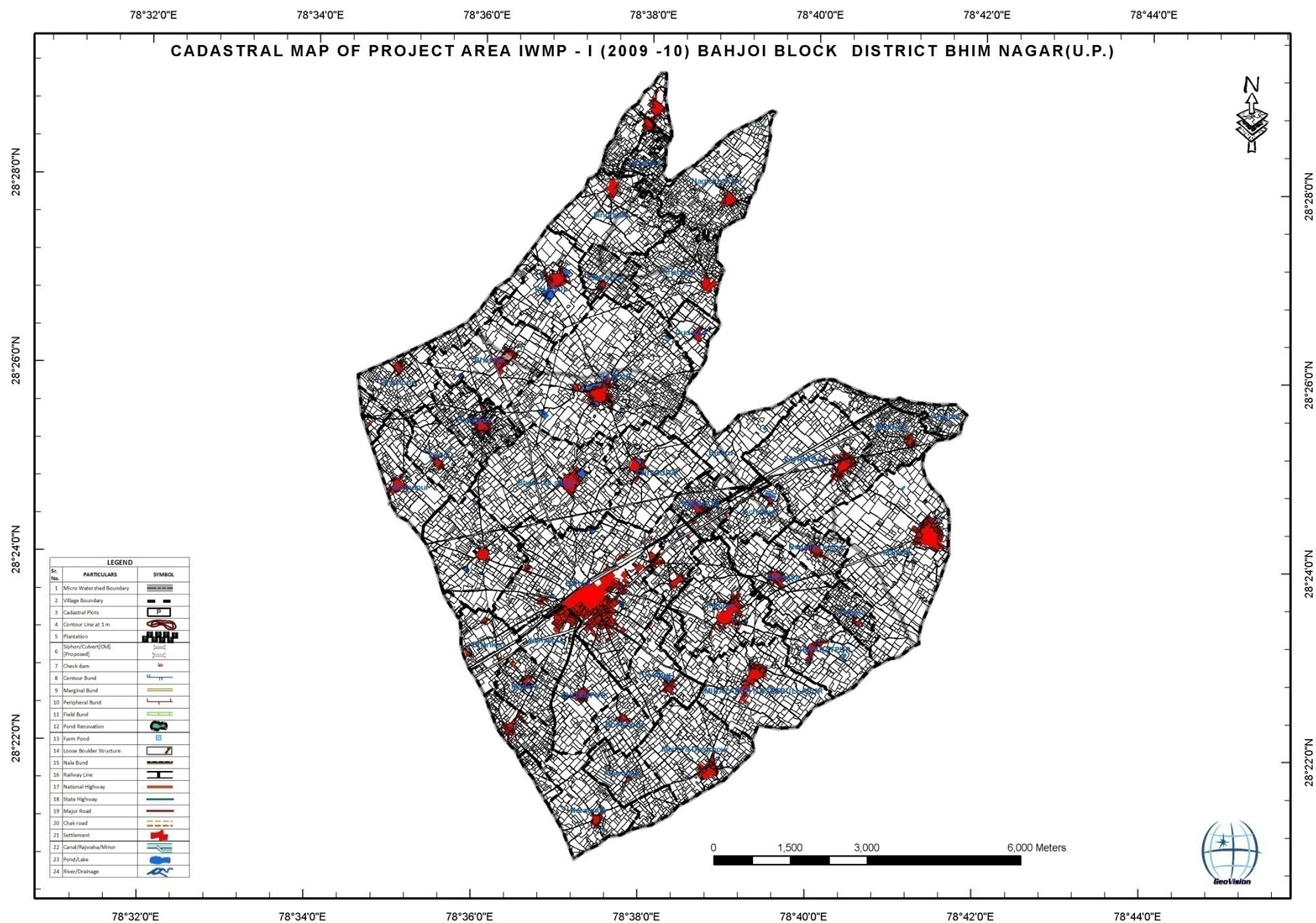
9.2: Other expected outcome

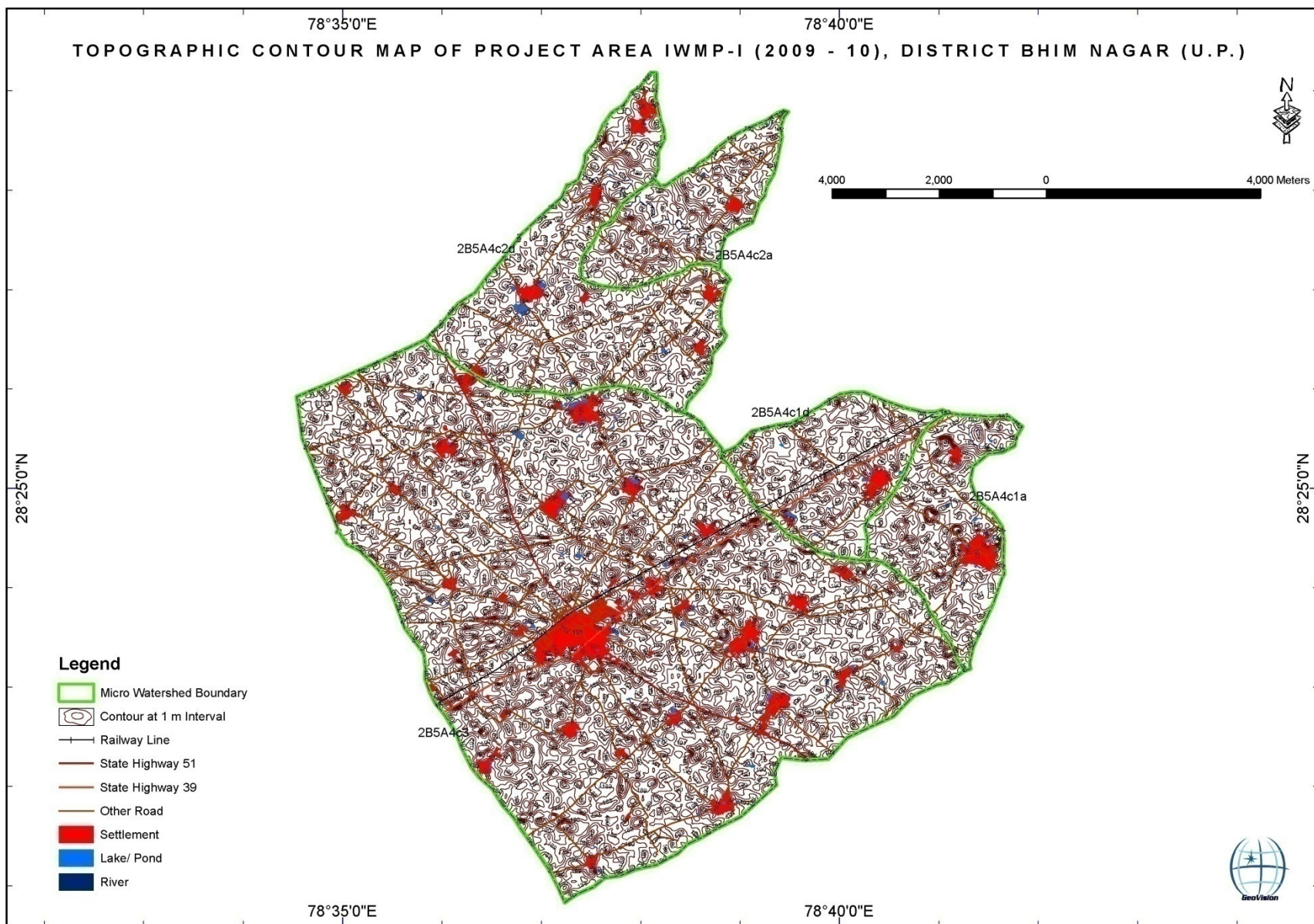
Table 9.1: Expected Benefits:

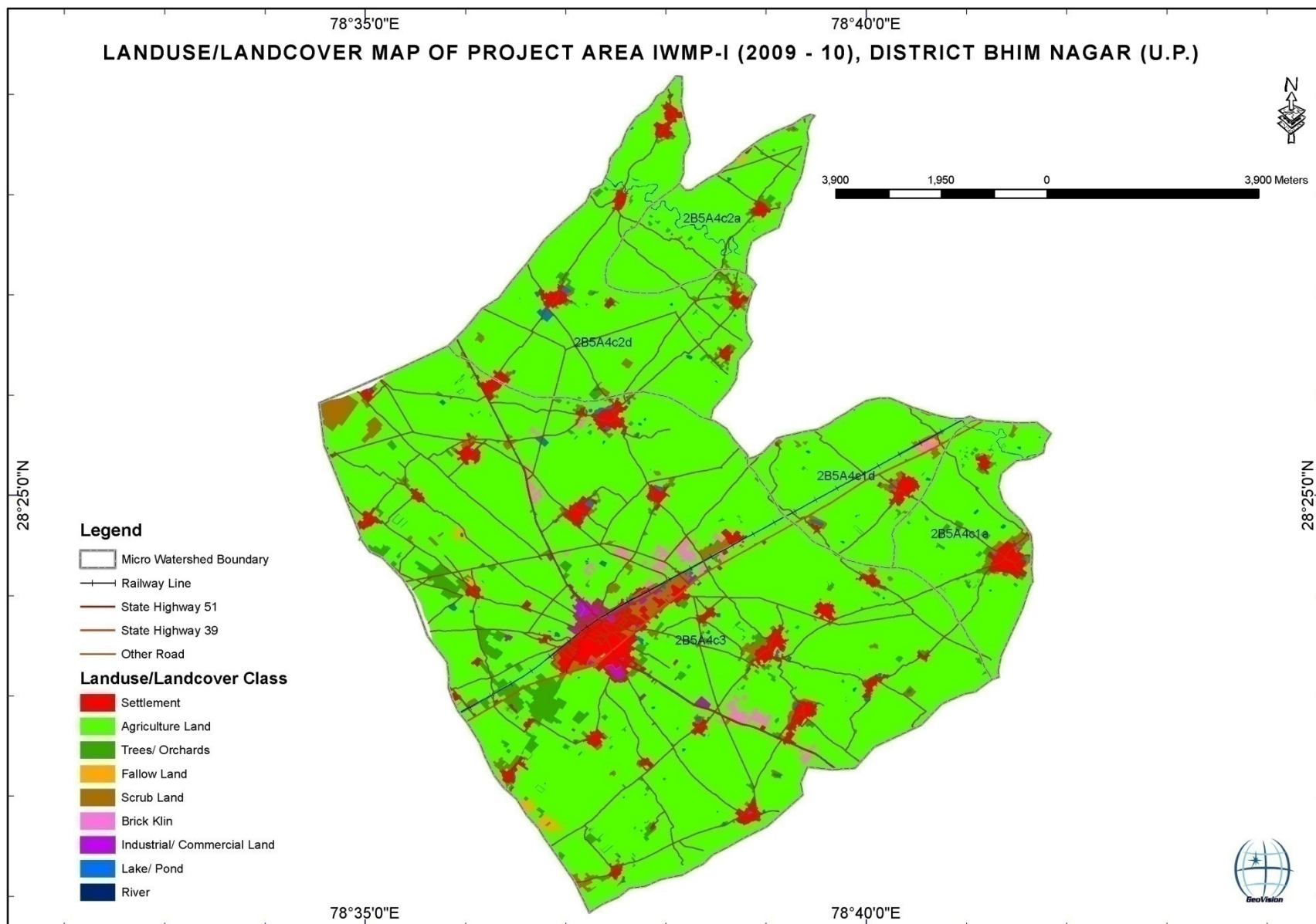
S.No.	Particulars of Items	Unit	Pre Execution	Post Execution
1	Gross Cultivated area	ha	8884	10500
2	Cropping Intensity	%	148	175
3	Agricultural Production			
a	Food Production	q		
i	Cereals		184035	261000
ii	Pulses		11176	15850
ii	Oil seed		1755	2500
b	Fodder production	q		
i	Dry fodder		315250	447100
ii	Green fodder		62800	89100
c	Fuel production (q)			
i	Arhar + Mustard plants		2610	3700
4	Average Income from Agriculture	ha	36000	51000
5	Milk Production	Liter	29517	45350
6	Irrigated/Rain fed Area	ha	1523/4451	1830/4350
7	Additional Area under Social Forestry	ha	-	10.5

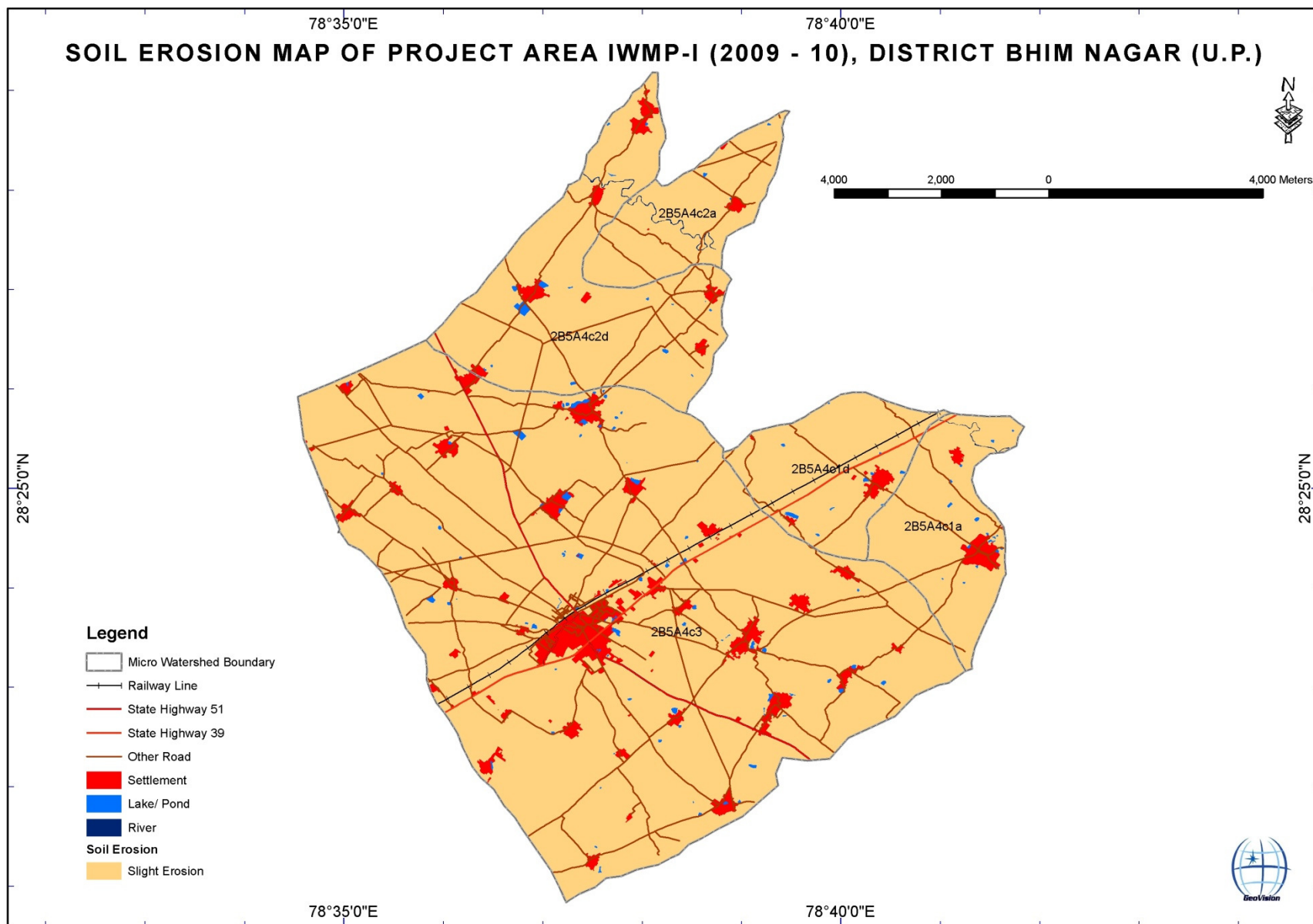
S.No.	Particulars of Items	Unit	Pre Execution	Post Execution
8	Employment generation Man days	No	-	276600
9	Women Benefitted by SHGs and IGA	No	-	110
10	Value of land Rs Lacs per ha.	Rs Lakh	8-10	14-16

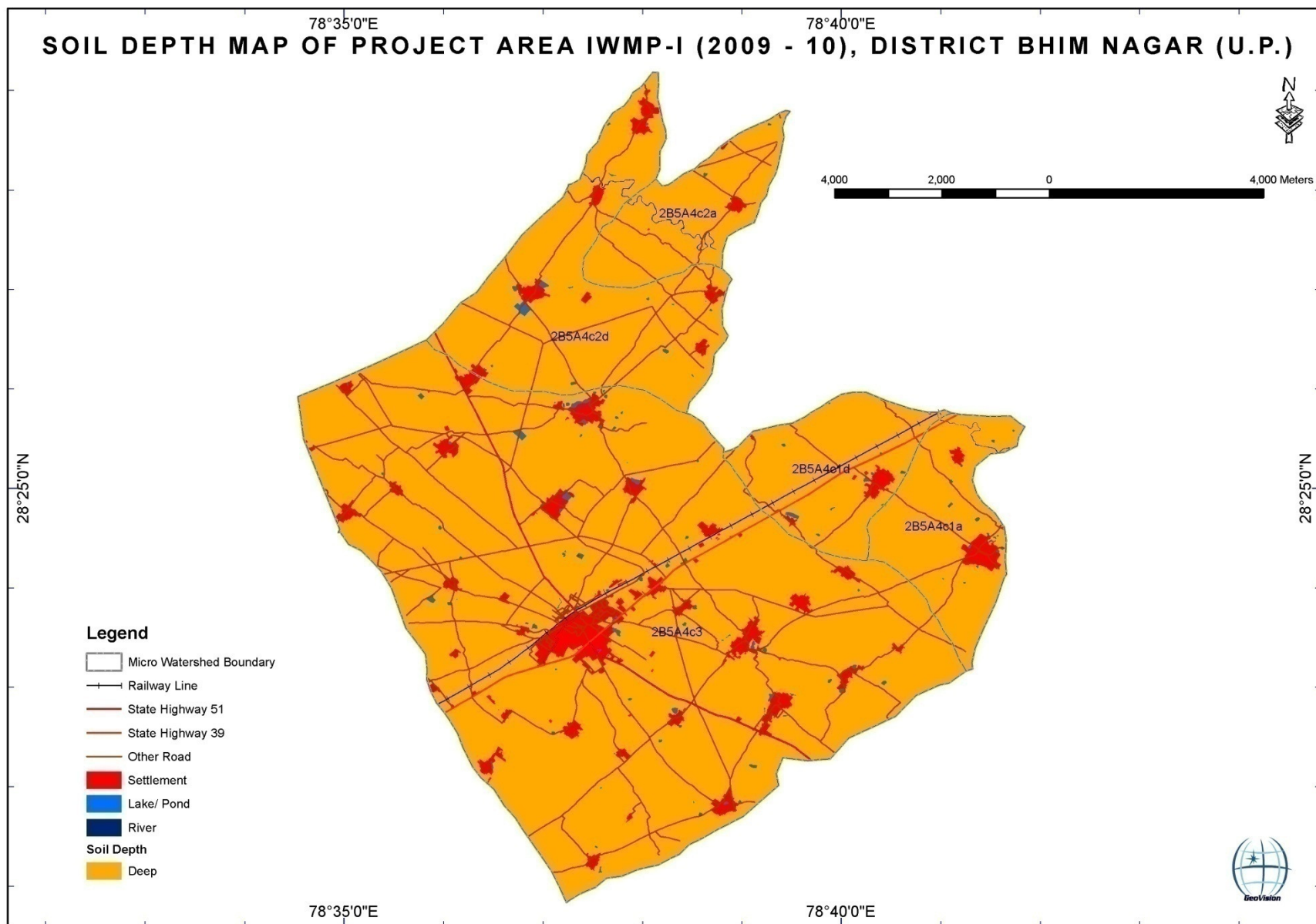
MAPS

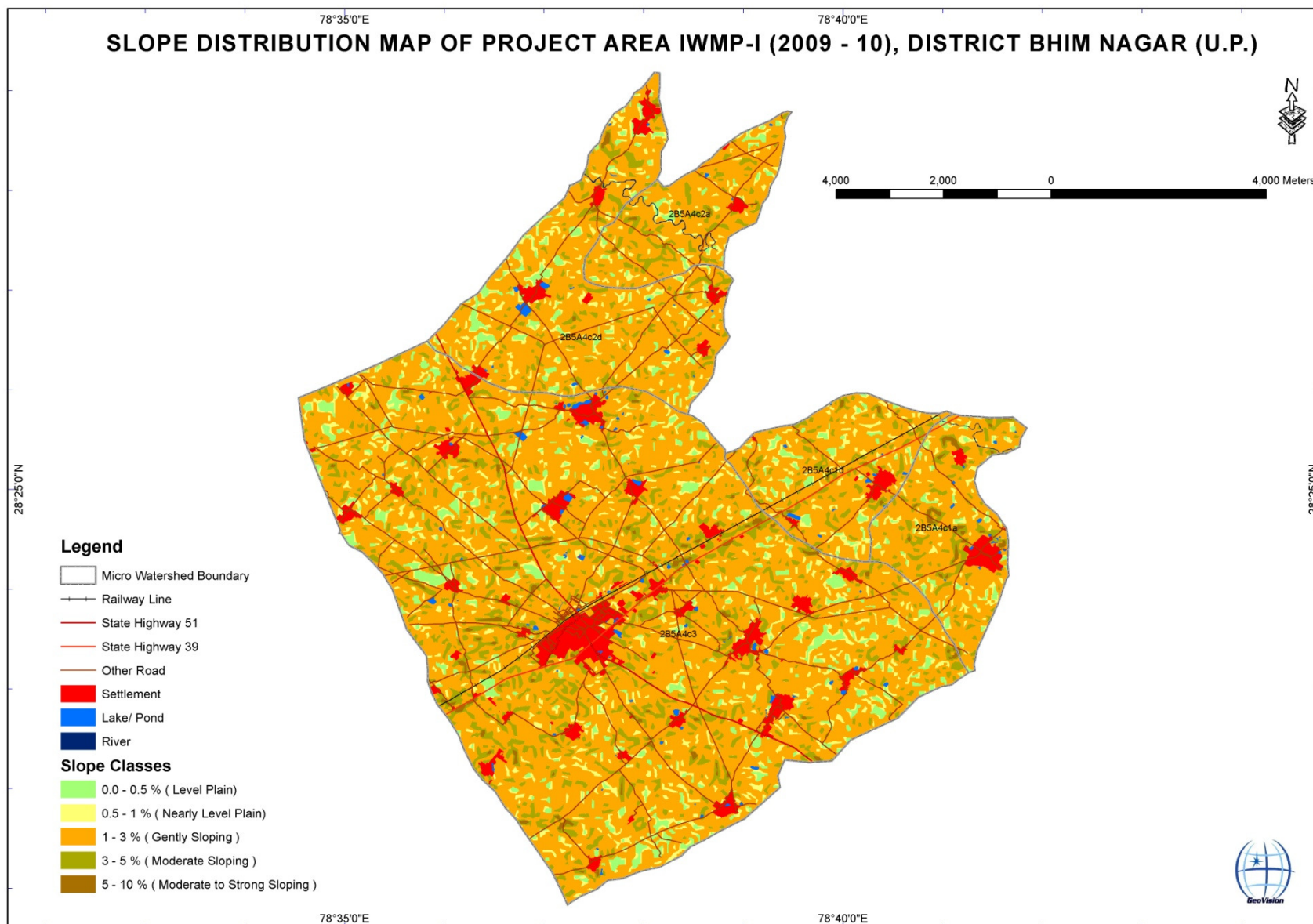


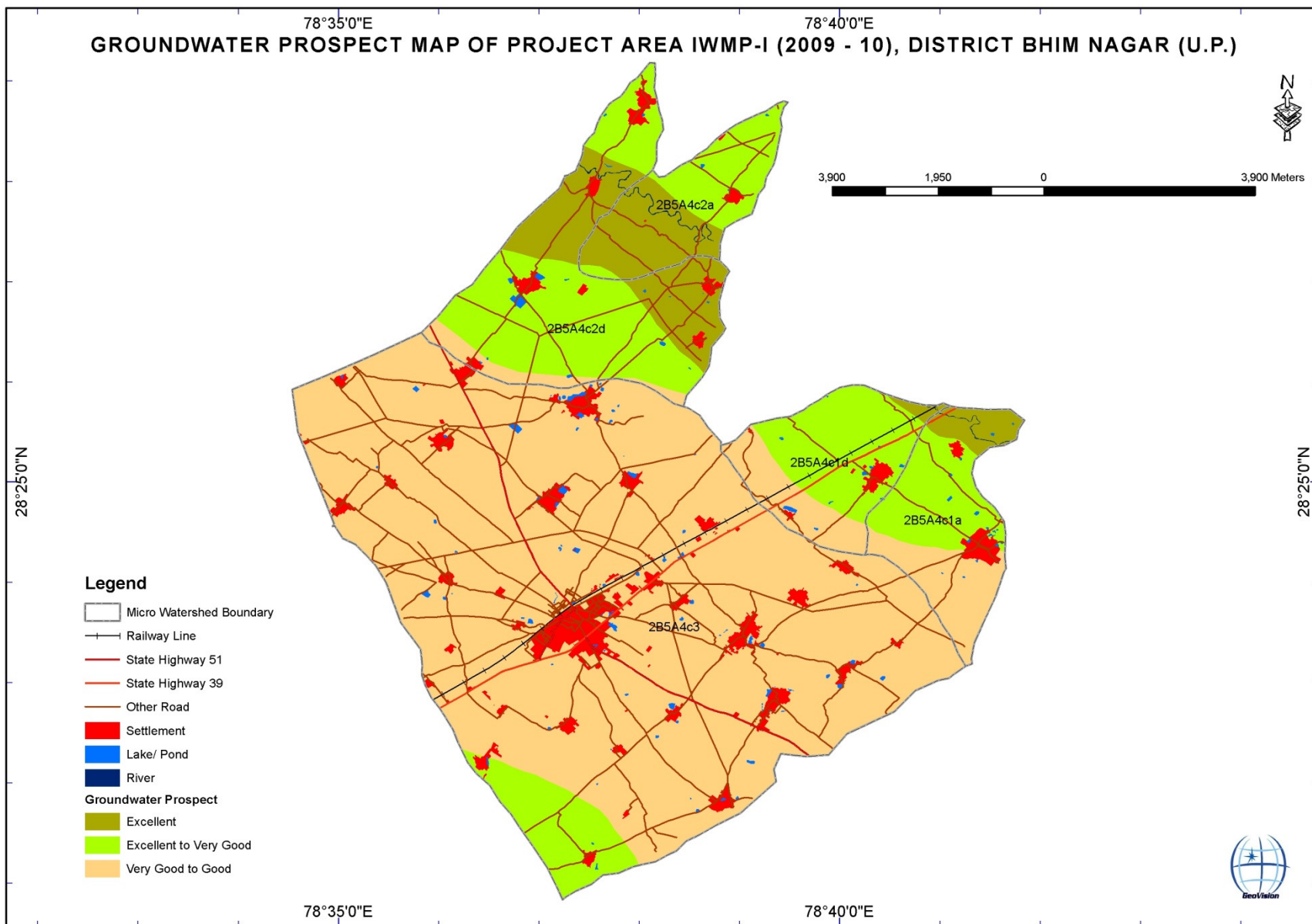


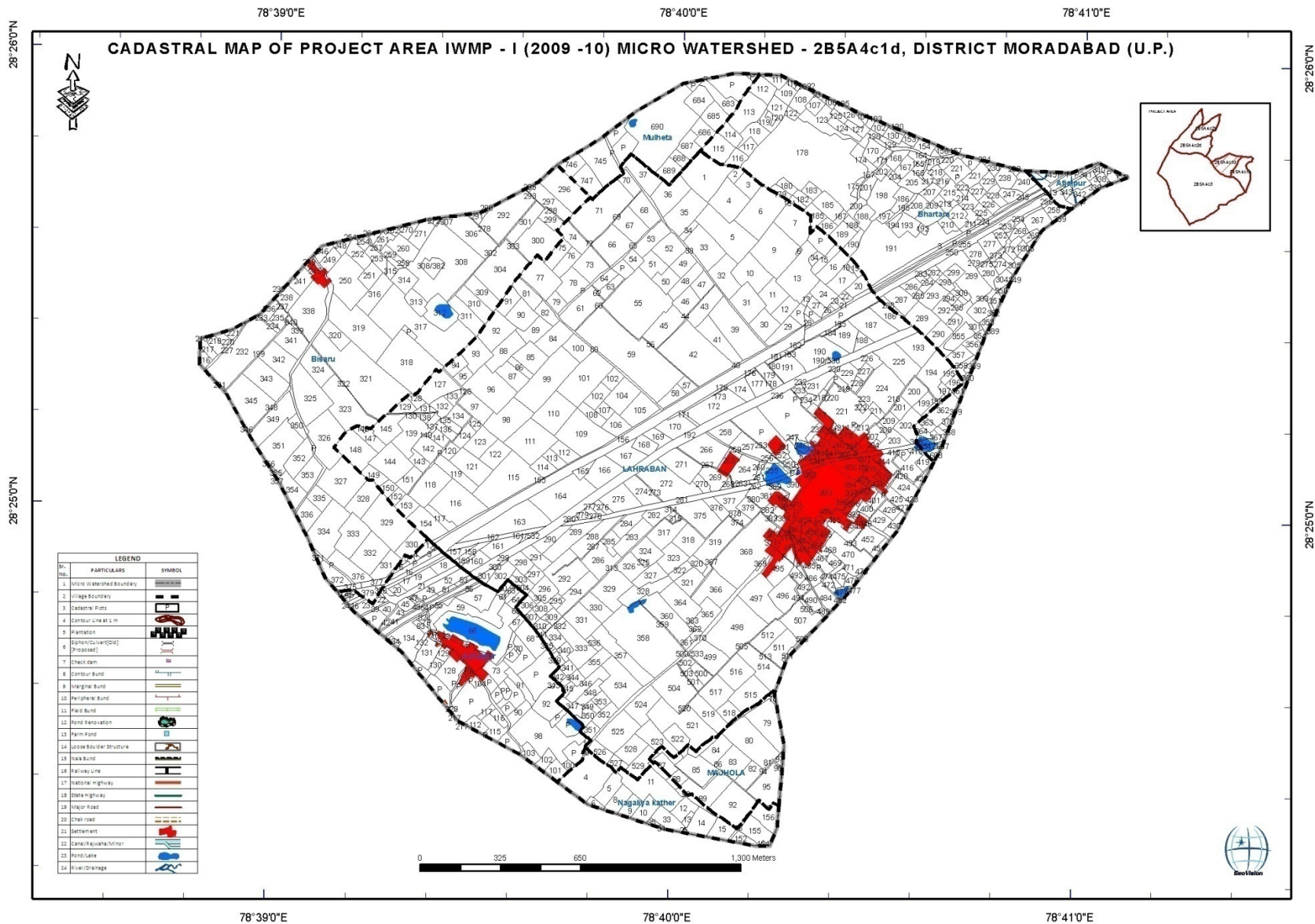




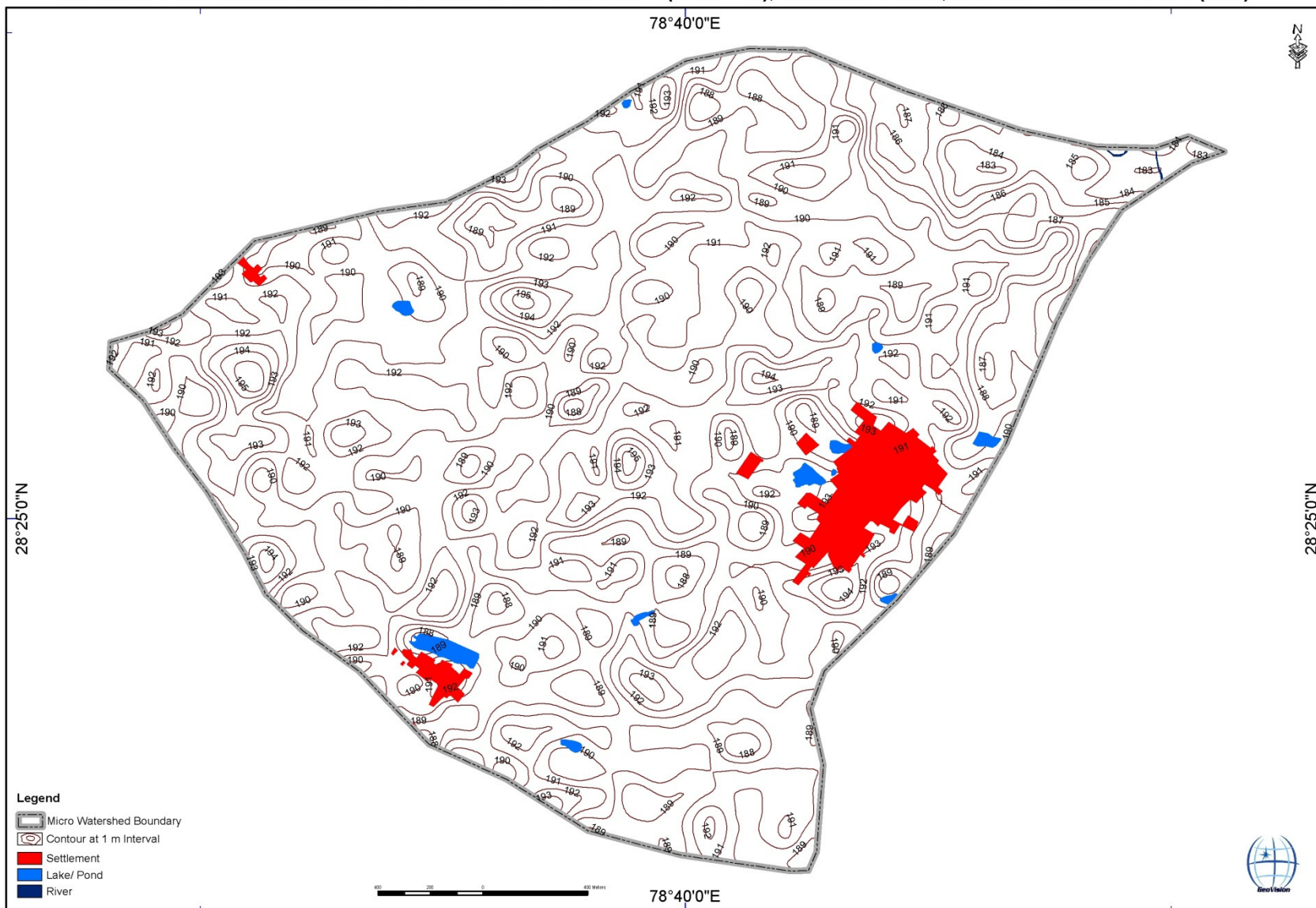


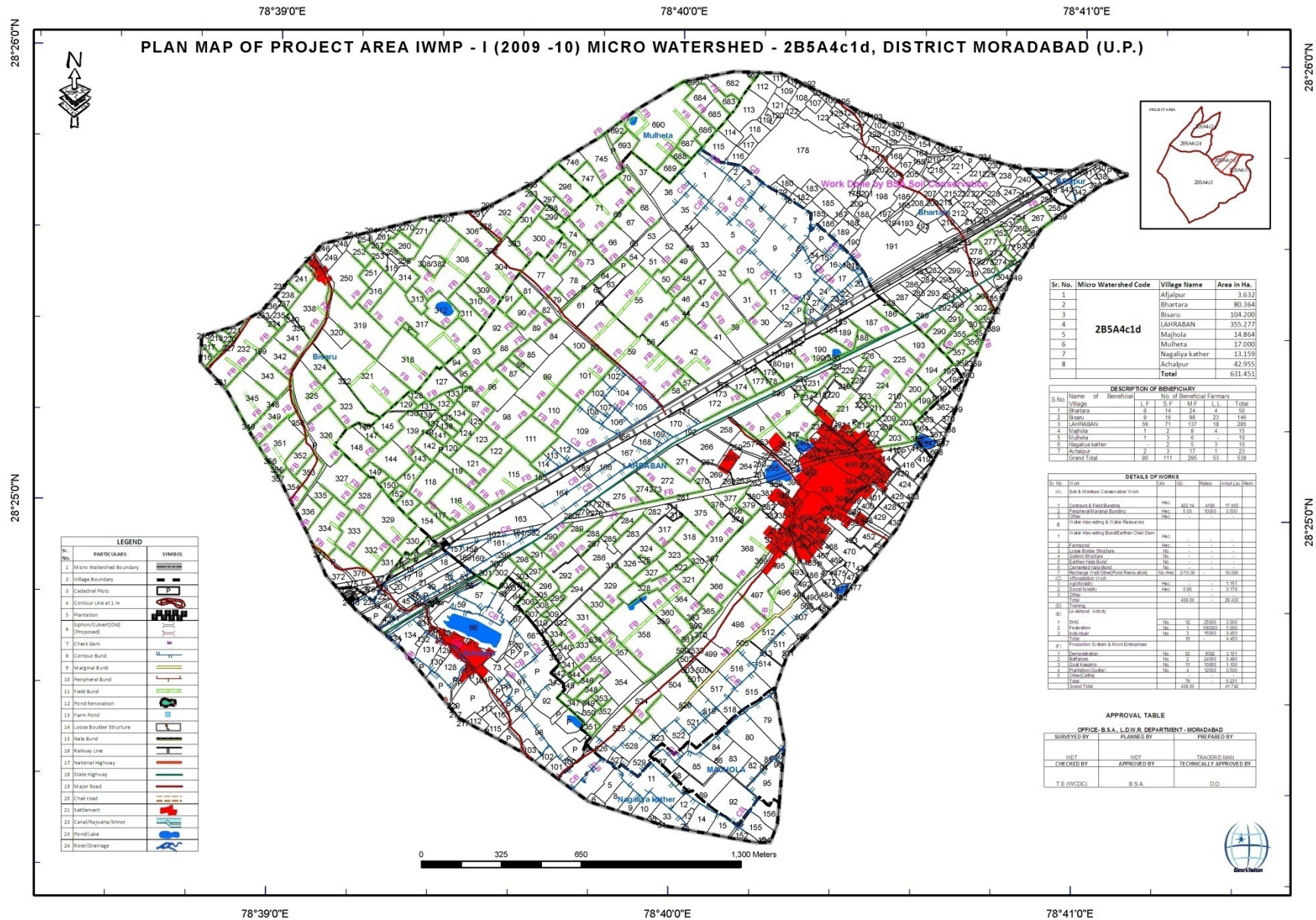






TOPOGRAPHIC CONTOUR MAP OF PROJECT AREA IWMP-I (2009 - 10), BAHJOI BLOCK, DISTRICT MORADABAD (U.P.)





ANNEXURE-I

Detail Estimate of all activities for watershed development works of MWS Code 2B5A4c1d

Grampanchayat wise

MWS Code No. 2B5A4c1d

Nagaliya Kather (Village : Achalpur)

Block: Behjoi

S.No	Name of Structure	Plot No.	Area (ha)	Length (m)	(Top+Base)/2×H	C.S	Contents (cum)	Rate/Cum	Amount	Remark
1	2	4	3	5	6	7	8	9	10	11
1	FB1	53	0.040	65	(0.30+1.65)/2×0.45	0.44	28.60	39.09	1125.00	
2	FB2	51	0.097	60	"	"	26.40	"	1038.00	
3	FB3	50	0.030	60	"	"	26.40	"	1038.00	
4	FB4	50	0.031	60	"	"	26.40	"	1038.00	
5	FB5	43	0.130	60	"	"	26.40	"	1038.00	
6	FB6	43	0.125	60	"	"	26.40	"	1038.00	
7	FB7	39	0.684	120	"	"	52.80	"	2076.00	
8	FB8	40,43	0.239	110	"	"	48.40	"	1904.00	
9	FB9	45	0.235	90	"	"	39.60	"	1558.00	
10	FB10	47	0.036	50	"	"	22.00	"	865.00	
11	FB11	49	0.016	90	"	"	39.60	"	1558.00	
12	FB12	52	0.259	80	"	"	35.20	"	1385.00	
13	FB13	52	0.700	180	"	"	79.20	"	3116.00	
14	FB14	18	0.376	150	"	"	66.00	"	2596.00	
15	FB15	19	0.450	120	"	"	52.90	"	2077.00	
16	FB16	19	0.395	120	"	"	52.90	"	2077.00	
17	FB17	20	0.255	120	"	"	52.90	"	2077.00	
18	FB18	17,19	0.546	50	"	"	22.00	"	865.00	
19	FB19	15,16	0.600	120	"	"	52.90	"	2077.00	
20	FB20	23	0.749	120	"	"	52.90	"	2077.00	
21	FB21	9,10	0.151	60	"	"	26.40	"	1038.00	
22	FB22	7,8	0.267	90	"	"	39.60	"	1558.00	
23	FB23	6	0.138	80	"	"	35.20	"	1385.00	
24	FB24	4,5,6	0.234	120	"	"	52.90	"	2077.00	
	Total		6.683	2235			983.40		38440.00	

Nagaliya Kather (Village: Achalpur)

S.No	Name of Structure	Plot No.	Area (ha)	Length (m)	(Top+Base)/2×H	C.S	Contents (cum)	Rate/Cum	Amount	Remark
1	2	3	3	5	6	7	8	9	10	11
1	CB5	98	2.000	390	(0.45+2.25)/2×0.60	0.81	315.90	39.09	12427.00	
		90	0.474	110	"	"	89.10	"	3505.00	
		88	0.121	180	"	"	145.80	"	5736.00	
		86	0.255	30	"	"	24.30	"	956.00	
		73	0.611	200	"	"	162.00	"	6373.00	
2	CB6	127	0.097	250	"	"	202.50	"	7967.00	
		139	0.804	120	"	"	97.20	"	3824.00	
3	CB7	128	0.939	210	"	"	170.10	"	6692.00	
		129	0.125	80	"	"	64.80	"	2550.00	
		130	0.304	60	"	"	48.60	"	1912.00	
		131	0.400	120	"	"	97.20	"	3825.00	
		132	0.393	100	"	"	81.00	"	3187.00	
4	CB8	134	0.362	180	"	"	145.80	"	5736.00	
		133	0.700	90	"	"	72.90	"	2869.00	
		83	0.251	160	"	"	129.60	"	5099.00	
		82	0.600	60	"	"	48.60	"	1912.00	
5	CB9	59	1.000	280	"	"	226.80	"	8922.00	
6	CB10	59	0.916	360	"	"	291.60	"	11472.00	
		65	0.069	80	"	"	64.80	"	2550.00	
		67	0.158	120	"	"	97.20	"	3824.00	
		68	0.898	210	"	"	170.10	"	6692.00	
		93	1.023	270	"	"	218.70	"	8604.00	
7	CB11	64	0.275	100	"	"	81.00	"	3187.00	
		63	0.085	60	"	"	48.60	"	1912.00	
		62	0.089	60	"	"	48.60	"	1912.00	
		61	0.016	60	"	"	48.60	"	1912.00	
		60	0.085	80	"	"	64.80	"	2550.00	
		58	0.462	180	"	"	145.80	"	5736.00	
		57	0.500	120	"	"	97.20	"	3825.00	
8	CB12	45	0.071	80	"	"	64.80	"	2550.00	
		46	0.032	80	"	"	64.80	"	2550.00	
		47	0.036	40	"	"	32.40	"	1275.00	

		48	0.100	40	"	"	32.40	"	1275.00	
		49	0.016	100	"	"	81.00	"	3187.00	
		50	0.061	30	"	"	24.30	"	956.00	
		51	0.097	80	"	"	64.80	"	2550.00	
		52	0.959	150	"	"	121.50	"	4780.00	
		53	0.040	50	"	"	40.50	"	1593.00	
9	CB13	18	0.376	100	"	"	81.00	"	3187.00	
		19	0.745	250	"	"	202.50	"	7967.00	
		17	0.546	50	"	"	40.50	"	1593.00	
		20	0.255	100	"	"	81.00	"	3187.00	
		23	0.749	250	"	"	202.50	"	7967.00	
	Total		17.595	5720	"	"	4633.20	"	181110.00	

Naglia Kather (Village: Naglia Kather)

S.No	Name of Structure	Plot No.	Area (ha)	Length (m)	(Top+Base)/2×H	C.S	Contents (cum)	Rate/Cum	Amount	Remark
1	2	3	3	5	6	7	8	9	10	11
1	CB1	35	0.178	220	(0.45+2.25)/2×0.60	0.81	178.20	39.09	7010.00	
	CB1	10	0.972	160	"	"	129.80	"	5107.00	
	CB1	9	0.629	120	"	"	97.20	"	3824.00	
	CB1	8	0.600	120	"	"	97.20	"	3824.00	
	CB1	5	0.696	180	"	"	145.80	"	5736.00	
	CB1	4	2.000	360	"	"	291.60	"	11471.00	
2	CB2	11	2.343	557	"	"	451.17	"	17207.00	
	CB2	12	0.696	150	"	"	121.60	"	4785.00	
	CB2	13	0.125	50	"	"	40.50	"	1593.00	
	CB2	14	1.000	180	"	"	145.80	"	5736.00	
	CB2	15	0.877	160	"	"	129.60	"	5098.00	
	CB2	152	0.300	60	"	"	48.60	"	1912.00	
	CB2	155/156	1.000	270	"	"	218.70	"	8603.00	
	Total		11.416	2587			2095.47		81912.00	

Nagalia Kathar (Village: Achalpur) Pond Renovation

Grid No	Staff Reading			H.I.	RL of Grid (Before)	Bed RL After Digging	Difference 6-7=8	Grid Size in Sqm.	E.W in Cum.	Remarks
	B.S.	I.S.	F.S.							
1	2	3	4	5	6	7	8	9	10	11
	0.25			100.25	100.00					PBM, Assuming RL, 100.00 Metre at the top of culvert constructed on main road.
1		1.89			98.36	97.00	1.36	10×10=100	136.00	
2		1.95			98.30		1.30	"	130.00	
3		1.95			98.30		1.30	"	130.00	
4		2.00			98.25		1.25	"	125.00	
5		2.05			98.20		1.20	"	120.00	
6		2.03			98.22		1.22	"	122.00	
7		2.07			98.18		1.18	"	118.00	
8		2.05			98.20		1.20	"	120.00	
9		2.05			98.20		1.20	"	120.00	
10		1.89			28.36		1.36	"	136.00	
11		1.89			98.36		1.36	"	136.00	
12		1.95			98.30		1.30	"	130.00	
13		2.05			98.20		1.20	"	120.00	
14		2.15			98.10		1.10	"	110.00	
15		2.15			98.10		1.10	"	110.00	
16	1.20		2.15	99.30	98.10		1.00	"	100.00	CP
17		1.50			97.80		0.80	"	80.00	
18		1.60			97.70		0.70	"	70.00	
19		1.70			97.60		0.60	"	60.00	
20		1.60			97.60		0.70	"	70.00	
21		1.50			97.80		0.80	"	80.00	
22		1.10			98.20		1.20	"	120.00	
23		1.00			98.30		1.30	"	130.00	
24		1.20			98.10		1.10	"	110.00	
25		1.80			97.50		0.90	"	90.00	
26		1.70			97.60		0.60	"	60.00	
27		1.60			97.70		0.70	"	70.00	
28		1.60			97.70		0.60	"	60.00	
29	1.30		1.90	98.70	97.40		0.40	"	40.00	CP
30		1.70			97.00		-	"	-	
31		1.70			97.00		-	"	-	
32		1.70			97.00		-	"	-	

33		0.92			97.78	97.00	0.78	“	78.00	
34		0.50			98.20		1.20	“	120.00	
35	1.36		0.48	99.58	98.22		1.22	“	122.00	CP
36		1.78			97.80		0.80	“	80.00	
37		1.98			97.60		0.60	“	60.00	
38		2.58			97.00		-	“	-	
39		2.58			97.00		-	“	-	
40		2.23			97.35		0.35	“	35.00	
41		2.15			97.43		0.43	“	43.00	
42		2.28			97.30		0.30	“	30.00	
43		2.58			97.00		-	“	-	
44		2.58			97.00		-	“	-	
45		2.23			97.35		0.35	“	35.00	
46		1.38			98.20		1.20	“	120.00	
47		1.34			98.24		1.24	“	124.00	
48		1.78			97.80		0.80	“	80.00	
49		1.98			97.60		0.6	“	60.00	
50		2.58			97.00		-	“	-	
51		2.58			97.00		-	“	-	
52		2.43			97.15		0.15	“	15.00	
53		2.18			97.40		0.40	“	40.00	
54		2.16			97.42		0.42	“	42.00	
55		2.26			97.32		0.32	“	32.00	
56		2.58			97.00		-	“	-	
57		2.58			97.00		-	“	-	
58		2.43			97.15		0.15	“	15.00	
59		2.18			97.40		0.40	“	40.00	
60		1.48			98.10		1.10	“	110.00	
61	1.40		1.38	99.60	98.20		1.20	“	120.00	CP
62		1.80			97.80		0.80	“	80.00	
63		2.60			97.00		-	“	-	
64		2.60			97.00		-	“	-	
65		2.60			97.00		-	“	-	
66		2.60			97.00		-	“	-	
67		2.30			97.30		0.20	“	30.00	
68		2.30			97.30		0.20	“	30.00	

69		2.40			97.20		0.20	“	20.00	
70		2.60			97.00		-	“	-	
71		2.60			97.00		-	“	-	
72		2.60			97.00		-	“	-	
73		2.15			97.45		0.45	“	45.00	
74		1.40			98.20		1.20	“	120.00	
75	1.46		1.36	99.70	98.24		1.24	“	124.00	CP
76		1.90			97.80		0.80	“	80.00	
77		2.40			97.30		0.30	“	30.00	
78		2.70			97.00		-	“	-	
79		2.70			97.00		-	“	-	
80		2.50			97.20		0.20	“	20.00	
81		2.28			97.42		0.42	“	42.00	
82		2.20			97.50		0.50	“	50.00	
83		2.30			97.40		0.40	“	40.00	
84		2.70			97.00		-	“	-	
85		2.70			97.00		-	“	-	
86		2.70			97.00		-	“	-	
87		2.35			97.35		0.35	“	35.00	
88		1.85			97.85		0.85	“	85.00	
89		1.50			98.20		1.20	“	120.00	
90		1.60			98.10		1.10	“	110.00	
91		2.16			97.54		0.54	“	54.00	
92		2.40			97.30		0.30	“	30.00	
93		2.70			97.00		-	“	-	
94		2.70			97.00		-	“	-	
95		2.70			97.00		-	“	-	
96		2.60			97.10		0.10	“	10.00	
97		2.50			97.20		0.20	“	20.00	
98		2.48			97.22		0.22	“	22.00	
99		2.55			97.15		0.15	“	15.00	
100		2.70			97.00		-	“	-	
101		2.70			97.00		-	“	-	
102		2.70			97.00		-	“	-	
103		2.55			97.15		0.15	“	15.00	
104		2.25			97.45		0.45	“	45.00	
105		1.72			97.98		0.98	“	98.00	
106	1.44		1.74	99.40	97.96		0.96	“	96.00	CP
107		1.84			97.56		0.56	“	56.00	
108		2.20			97.20		0.20	“	20.00	
109		2.40			97.00		-	“	-	

110		2.40			97.00		-	“	-	
111		2.40			97.00		-	“	-	
112		2.25			97.15		0.15	“	15.00	
113		2.20			97.20		0.20	“	20.00	
114		2.18			97.22		0.22	“	22.00	
115		2.25			97.15		0.15	“	15.00	
116		2.40			97.00		-	“	-	
117		2.40			97.00		-	“	-	
118		2.40			97.00		-	“	-	
119		2.15			97.25		0.25	“	25.00	
120		1.74			97.66		0.66	“	66.00	
121		1.44			97.96		0.96	“	96.00	
122		1.30			98.10		1.10	“	110.00	
123		1.50			97.90		0.90	“	90.00	
124		2.20			97.20		0.20	“	20.00	
125		2.40			97.00		-	“	-	
126		2.40			97.00		-	“	-	
127		2.40			97.00		-	“	-	
128		2.25			97.15		0.15	“	15.00	
129		2.08			97.32		0.32	“	32.00	
130		2.10			97.30		0.30	“	30.00	
131		2.14			97.26		0.26	“	26.00	
132		2.30			97.10		0.10	“	10.00	
133		2.28			97.12		0.12	“	12.00	
134		2.26			97.14		0.14	“	14.00	
135		2.25			97.15		0.15	“	15.00	
136		2.18			97.22		0.22	“	22.00	
137		2.04			97.36		0.36	“	36.00	
138		1.30			98.10		1.10	“	110.00	
139	1.55		1.40	99.55	98.00		1.00	“	100.00	CP
140		1.93			97.62		0.62	“	62.00	
141		2.25			97.30		0.30	“	30.00	
142		2.25			97.30		0.30	“	30.00	
143		2.35			97.20		0.20	“	20.00	
144		2.33			97.22		0.22	“	22.00	
145		2.33			97.22		0.22	“	22.00	
146		2.21			97.34		0.34	“	34.00	
147		2.21			97.34		0.34	“	34.00	
148		2.19			97.36		0.36	“	36.00	
149		2.21			97.34		0.34	“	34.00	
150		2.19			97.36		0.36	“	36.00	

151		2.17			97.38		0.38	“	38.00	
152		2.20			97.35		0.35	“	35.00	
153		2.25			97.30		0.30	“	30.00	
154		2.19			97.36		0.36	“	36.00	
155		1.90			97.65		0.65	“	65.00	
156		1.45			98.10		1.10	“	110.00	
157	1.48		1.40	99.63	98.15		1.15	“	115.00	CP
158		1.67			97.96		0.96	“	96.00	
159		2.13			97.50		0.50	“	50.00	
160		2.43			97.20		0.20	“	20.00	
161		2.43			97.20		0.20	“	20.00	
162		2.41			97.22		0.22	“	22.00	
163		2.43			97.20		0.20	“	20.00	
164		2.01			97.62		0.62	“	62.00	
165		1.85			97.78		0.78	“	78.00	
166		1.83			97.80		0.80	“	80.00	
167		2.15			97.48		0.48	“	48.00	
168		2.20			97.43		0.43	“	43.00	
169		2.29			97.34		0.34	“	34.00	
170		2.28			97.35		0.35	“	35.00	
171		2.29			97.34		0.34	“	34.00	
172		2.22			97.41		0.41	“	41.00	
173		2.00			97.63		0.63	“	63.00	
174		1.72			97.91		0.91	“	91.00	
175	1.38		1.91	99.10	97.72		0.72	“	72.00	CP
176		1.52			97.58		0.58	“	58.00	
177		1.60			97.50		0.50	“	50.00	
178		1.56			97.54		0.54	“	54.00	
179		1.56			97.54		0.54	“	54.00	
180		1.58			97.52		0.52	“	52.00	
181		1.25			97.85		0.85	“	85.00	
182		1.30			97.80		0.80	“	80.00	
183		1.25			97.85		0.85	“	85.00	
184		1.40			97.70		0.70	“	70.00	
185		1.25			97.85		0.85	“	85.00	
186	1.48		1.20	99.38	97.90		0.90	“	90.00	CP
	1.66		1.34	99.70	98.04			“		CP
	1.78		1.26	100.22	98.44			“		CP
			0.21		100.01			“		Closed at PBM

Error- 100.01-100.00=0.01

1.Total E.W. in Diging –	9300.00 cum
2. Rat per Cum with Dressing work –	46.06/cum
3. Amount –	428358.00
4. Amount in Pucca work –	71642.00
5. Grand Total –	500000.00

Majhola (Village: Majhola)

S.No	Name of Structure	Plot No.	Area (ha)	Length (m)	(Top+Base)/2×H	C.S	Contents (cum)	Rate/Cum	Amount	Remark
1	2	3	3	5	6	7	8	9	10	11
1	CB2	85	1.10	300	(0.45+2.25)/2×0.60	0.81	243.00	39.09	9560	
		97	0.391	90	“	“	72.90	“	2868	
2	CB3	87	0.512	150	“	“	121.50	“	4780	
3		85	1.708	180	“	“	145.80	“	5736	
4		84	0.494	100	“	“	0.81	“	3187	
5		80	2.882	160	“	“	129.50	“	5066	
6		79	1.890	150	“	“	121.50	“	4780	
7		78	0.453	120	“	“	97.20	“	3824	
8		66	0.200	60	“	“	48.60	“	1912	
	Total		8.500	1310	“	“	1061.10	“	41478.00	

Bisaru (Village: Bisaru)

S.No	Name of Structure	Plot No.	Area (ha)	Length (m)	(Top+Base)/2×H	C.S	Contents (cum)	Rate/Cum	Amount	Remark
1	2	3	3	5	6	7	8	9	10	11
1	FB1	371/372	1.222/1.185	150	(0.30+1.65)/2×0.45	0.44	66.00	39.34	2596	
2	FB2	376	0.825	150	"	"	66.00	"	2596	
3	FB3	330	0.652	180	"	"	79.20	"	3116	
4	FB4	331	0.833	300	"	"	132.00	"	5193	
5	FB5	332	1.376	200	"	"	88.00	"	3462	
6	FB6	329	2.910	300	"	"	132.00	"	5193	
7	FB6A	329	2.910	250	"	"	110.00	"	4327	
8	FB6B	329	2.910	300	"	"	132.00	"	5193	
9	FB7	328	1.149	250	"	"	110.00	"	4327	
10	FB8	333	1.384	280	"	"	132.20	"	5201	
11	FB9	334	0.194	200	"	"	88.00	"	3462	
12	FB10	334	0.194	180	"	"	79.20	"	3116	
13	FB11A	327	2.594	250	"	"	110.00	"	4327	
14	FB11B	327	2.594	300	"	"	132.00	"	5193	
15	FB12	326	1.538	250	"	"	110.00	"	4327	
16	FB13	326	1.538	180	"	"	79.20	"	3116	
17	FB11B	335	0.429	160	"	"	70.40	"	2778	
18	FB11C	336	0.890	150	"	"	66.00	"	2596	
19	FB14	323	2.221	350	"	"	154.00	"	6058	
20	FB15	353	0.854	250	"	"	110.00	"	4327	
21	FB16	354	0.800	150	"	"	66.00	"	2596	
22	FB16A	352	0.534/0.534	200	"	"	88.00	"	3462	
23	FB17	351	1.600	120	"	"	52.80	"	2054	
24	FB18	351	1.600	120	"	"	52.80	"	2054	
25	FB19	350	0.275	250	"	"	110.00	"	4327	
26	FB20	349	0.649	150	"	"	66.00	"	2596	
27	FB21	349	0.649	200	"	"	88.00	"	3462	
28	FB22	349	-	100	"	"	44.00	"	1731	
29	FB23	345	2.416	300	"	"	132.00	"	5193	
30	FB23A	343	1.724	250	"	"	110.00	"	4327	
31	FB24	343	1.724	320	"	"	140.80	"	5539	
32	FB25	342	1.125	280	"	"	123.20	"	4817	
33	FB26	341/340	1.253	350	"	"	154.00	"	6058	
34	FB27	338	0.331	350	"	"	154.00	"	6058	
35	FB28	332	1.376	250	"	"	110.00	"	4327	

36	FB29	332	1.376	200	“	“	88.00	“	3462	
37	FB30	332	1.376	150	“	“	66.00	“	2596	
38	FB31	334/335	2.029	250	“	“	110.00	“	4327	
39	FB32	216	0.386	80	“	“	35.20	“	1385	
40	FB33	317/319	0.200	80	“	“	35.20	“	1385	
41	FB34	218	0.386	120	“	“	52.80	“	2077	
42	FB35	220	0.174	100	“	“	44.00	“	1731	
43	FB36	221	0.425	150	“	“	66.00	“	2596	
44	FB37	238	0.487	180	“	“	79.20	“	3116	
45	FB38	241	0.706	180	“	“	79.20	“	3116	
46	FB39	246/248/249	2.890	450	“	“	198.00	“	7789	
47	FB39A	250	-	300	“	“	132.00	“	5193	
48	FB40	252	0.623	180	“	“	79.20	“	3116	
49	FB41	261/262/264	2.514	400	“	“	176.00	“	3623	
50	FB42	270/271	0.946	250	“	“	110.00	“	4327	
51	FB43	260	0.829	200	“	“	88.00	“	3462	
52	FB44	259	0.300	150	“	“	66.00	“	2596	
53	FB45	353/315	1.097	180	“	“	79.20	“	3116	
54	FB46	316	0.837	350	“	“	154.00	“	6058	
55	FB47	319/29/21	3.003	350	“	“	154.00	“	6058	
56	FB48	321/319	4.986	250	“	“	110.00	“	4327	
57	FB49	324	1.121	200	“	“	88.00	“	3462	
58	FB50	325	2.169	250	“	“	110.00	“	4327	
59	FB50A	325	2.169	150	“	“	66.00	“	2596	
60	FB51	321	-	300	“	“	132.00	“	5193	
61	FB52	321	-	250	“	“	110.00	“	4327	
62	FB53	318	3.646	250	“	“	110.00	“	4327	
63	FB53A	318	3.646	200	“	“	88.00	“	3462	
64	FB54	317	0.837	250	“	“	110.00	“	4327	
65	FB55	317	4.245	500	“	“	220.00	“	8600	
66	FB56	317/312	0.886/1.720	220	“	“	96.80	“	3808	
67	FB57	313	0.405	150	“	“	66.00	“	2596	
68	FB57A	314	0.676	180	“	“	79.20	“	3116	
69	FB58	308	4.986	300	“	“	132.00	“	5193	
70	FB58A	308	4.986	350	“	“	154.00	“	6020	
71	FB59	311	0.765	220	“	“	96.80	“	3808	
72	FB60	310	0.781	250	“	“	110.0	“	4327	
73	FB61	309	0.781	180	“	“	79.20	“	3116	
74	FB62	304	2.489	350	“	“	154.00	“	6058	
75	FB63	306	1.558	400	“	“	176.00	“	6924	
76	FB64	290/91/92	2.622	372	“	“	154.00	“	6058	

77	FB65	300	1.639	300	"	"	132.00	"	5193	
78	FB65A	301	0.910	250	"	"	110.00	"	4327	
79	FB66	299	0.429	150	"	"	66.00	"	2596	
80	FB67	297	0.806	200	"	"	88.00	"	3462	
81	FB68	296	2.513	350	"	"	154.00	"	6058	
	Total		43.973	19142			8822.48		329235.00	

Muleta (Village: Muleta)

S.No	Name of Structure	Plot No.	Area (ha)	Length (m)	(Top+Base)/2×H	C.S	Contents (cum)	Rate/Cum	Amount	Remark
1	2	3	3	5	6	7	8	9	10	11
1	FB69	746/747	1.398	160	$(0.30+1.65)/2 \times 0.45$	0.44	70.40	39.09	2770.00	
2	FB70	745	1.300	100	"	"	44.00	"	1731.00	
3	FB71	693	0.405	240	"	"	105.60	"	4155.00	
4	FB72	692	0.097	120	"	"	52.80	"	2077.00	
5	FB73A	690	3.282	326	"	"	143.44	"	5643.00	
6	FB73B	690	3.282	330	"	"	145.20	"	5712.00	
7	FB73C	690	3.282	240	"	"	105.60	"	4155.00	
8	FB74	682	1.232	160	"	"	70.40	"	2769.00	
9	FB75	682	-	140	"	"	61.60	"	2423.00	
10	FB76	683	0.743	337	"	"	148.28	"	5796.00	
11	FB77	685	0.405	180	"	"	79.20	"	3116.00	
12	FB78	686	0.692	180	"	"	79.20	"	3116.00	
13	FB79	687	0.400	120	"	"	52.80	"	2077.00	
	Total		10.176	2633			1158.52		45287.00	

Lahravan (Village: Bharthara)

S.No	Name of Structure	Plot No.	Area (ha)	Length (m)	(Top+Base)/2×H	C.S	Contents (cum)	Rate/Cum	Amount	Remark
1	2	3	3	5	6	7	8	9	10	11
1	FB1	290	0.636	180	$(0.30+1.65)/2 \times 0.45$	0.44	79.20	39.09	3115.00	
2	FB2	291	0.259	90	"	"	89.60	"	1558.00	
3	FB3	355	0.700	210	"	"	92.40	"	3635.00	
4	FB4	357	0.417	150	"	"	66.00	"	2596.00	
5	FB5	356	0.061	60	"	"	26.40	"	1038.00	
6	FB6	301	0.118	120	"	"	52.90	"	2077.00	
7	FB7	302	0.250	220	"	"	96.80	"	3808.00	
8	FB8	280	0.397	100	"	"	44.00	"	1731.00	
9	FB9	276	0.040	100	"	"	44.00	"	1731.00	
10	FB10	277	0.494	120	"	"	52.90	"	2077.00	
11	FB11	273/275	0.540	130	"	"	57.20	"	2250.00	
12	FB12	211	0.154	50	"	"	22.00	"	805.00	
13	FB13	259	1.050	72	"	"	31.68	"	1238.00	
14	FB14	268	0.409	80	"	"	35.20	"	1385.00	
15	FB15	267	0.704	120	"	"	52.90	"	2077.00	
	Total		6.229	1802			792.88		30994.00	

Lehravan (Village: Lehravan)

S.No	Name of Structure	Plot No.	Area (ha)	Length (m)	(Top+Base)/2×H	C.S	Contents (cum)	Rate/Cum	Amount	Remark
1	2	3	3	5	6	7	8	9	10	11
1	CB-04	525	1.680	300	(0.45+2.25)/2×0.60	0.81	243	39.09	9560	
2		523	0.874	200	"	"	162	"	6373	
3		522	0.668	250	"	"	202.5	"	7966	
4		521	2.210	250	"	"	202.5	"	7966	
5		519	1.068	100	"	"	81	"	3187	
6		517	1.185	240	"	"	194.4	"	7648	
7		516	0.305	250	"	"	202.5	"	7966	
8		514	1.839	300	"	"	243	"	9560	
9		512	1.137	240	"	"	194.4	"	7648	
10		511	1.392	240	"	"	194.4	"	7648	
11		507	2.043	200	"	"	162	"	6373	
12		508	1.485	100	"	"	81	"	3187	
13	CB-14	163	2.760	750	"	"	607.5	"	23900	
14	CB-15	164	1.396	300	"	"	243	"	9560	
15		166	1.226	150	"	"	121.5	"	4780	
16		167	1.080	250	"	"	202.5	"	7966	
17		168	0.541	100	"	"	81	"	3187	
18		169	0.482	150	"	"	121.5	"	4780	
19		170	1.902	250	"	"	202.5	"	7966	
20		164	1.396	300	"	"	243	"	9560	
21	CB-16	165	0.295	100	"	"	81	"	3187	
22		166	-	50	"	"	40.5	"	1593	
23		167	-	300	"	"	243	"	9560	
24	CB-17	114	0.538	100	"	"	81	"	3187	
25		113	0.425	100	"	"	81	"	3187	
26		112	0.668	150	"	"	121.5	"	4780	
27		109	2.501	150	"	"	121.5	"	4780	
28	CB-17	106	0.615	150	"	"	121.5	"	4780	
29	CB-17	105	1.230	150	"	"	121.5	"	4780	
30	CB-18	109	-	150	"	"	121.5	"	4780	
31		108	0.414	100	"	"	81	"	3187	
32		103	0.672	100	"	"	81	"	3187	
33		102	0.522	80	"	"	64.8	"	2550	

34		104	1.202	100	“	“	81	“	3187	
35		107	0.352	50	“	“	40.5	“	1593	
36	CB-19	37	1.586	300	“	“	243	“	9560	
37		36	1.445	250	“	“	202.5	“	7966	
38		35	1.717	550	“	“	4455	“	17526	
39		5	2.537	600	“	“	486	“	19120	
40		10	1.493	250	“	“	202.5	“	7966	
41		11	0.837	150	“	“	121.5	“	4780	
42		12	0.611	100	“	“	81	“	3187	
43	CB-20	24	0.712	150	“	“	121.5	“	4780	
44		13	2.250	450	“	“	364.5	“	14339	
45		9	2.436	490	“	“	3969	“	15614	
46		8	0.028	150	“	“	81	“	3187	
47		4	1.461	200	“	“	162	“	6373	
48		1	2.168	200	“	“	162	“	6373	
49	CB-21	1	-	200	“	“	162	“	6373	
50		2	0.279	150	“	“	121.5	“	4780	
51		3	0.458	150	“	“	121.5	“	4780	
52		6	2.372	400	“	“	324	“	12746	
53		7	2.181	300	“	“	243	“	9560	
54	CB-21	14	0.223	150	“	“	40.5	“	4780	
55		15	0.287	50	“	“	121.5	“	1593	
56		16	0.801	150	“	“	121.5	“	1593	
57		17,18,19	0.906	150	“	“	121.5	“	1593	
58		20	0.413	100	“	“	81	“	3187	
	Total		63.304	12470	“	“	10101.00	“	394848.00	

Lehravan (Village: Lehravan)

S. No	Name of Structure	Plot No.	Area (ha)	Length (m)	(Top+Base)/2×H	C.S	Contents (cum)	Rate/Cum	Amount	Remark
1	2	3	3	5	6	7	8	9	10	11
1	FB-81	70	0.437	100	(0.30+1.65)/2×0.45	0.44	44.00	39.09	1731.00	
2	FB-82	71	3.327	350	"	"	154.00	"	6020.00	
3	FB-83	71	-	100	"	"	44.00	"	1731.00	
4	FB-84	74	0.692	100	"	"	44.00	"	1731.00	
5	FB-85	75	0.623	50	"	"	22.00	"	871.00	
6	FB-86	76	0.623	125	"	"	55.00	"	2164.00	
7	FB-87	77	1.526	185	"	"	81.40	"	3202.00	
8	FB-88	81	0.664	50	"	"	22.00	"	871.00	
9	FB-89	91	0.664	100	"	"	44.00	"	1731.00	
10	FB-90	90	0.906	200	"	"	88.00	"	3462.00	
11	FB-91	92	1.501	400	"	"	198.00	"	7740.00	
12	FB-92	93	1.311	150	"	"	66.00	"	2596.00	
13	FB-93	94	0.413	160	"	"	70.40	"	2770.00	
14	FB-94	95	0.356	100	"	"	44.00	"	1731.00	
15	FB-95	127	1.414	150	"	"	66.00	"	2596.00	
16	FB-96	128	0.393	50	"	"	22.00	"	871.00	
17	FB-97	129	0.384	250	"	"	110.00	"	4300.00	
18	FB-98	147	0.640	150	"	"	66.00	"	2596.00	
19	FB-99	148	1.659	150	"	"	66.00	"	2596.00	
20	FB-100	149	0.539	100	"	"	48.40	"	1904.00	
21	FB-101	144	1.672	300	"	"	132.00	"	5160.00	
22	FB-102	139	1.295	150	"	"	66.00	"	2596.00	
23	FB-103	138	0.146	100	"	"	44.00	"	1731.00	
24	FB-104	132	0.478	100	"	"	44.00	"	1731.00	
25	FB-104A	133	0.295	80	"	"	35.20	"	1385.00	
26	FB-105	134	0.666	200	"	"	88.00	"	3440.00	
27	FB-106	135	0.316	50	"	"	22.00	"	871.00	
28	FB-107	136	0.130	50	"	"	22.00	"	871.00	
29	FB-108	140,141	0.515	80	"	"	35.20	"	1385.00	
30	FB-109	142	0.806	100	"	"	44.00	"	1731.00	
31	FB-110	143	0.450	80	"	"	35.20	"	1385.00	
32	FB-111	151	0.713	100	"	"	44.00	"	1731.00	
33	FB-112	152	0.304	60	"	"	26.40	"	1039.00	
34	FB-113	153	0.478	80	"	"	35.20	"	1385.00	
35	FB-114	118	1.760	300	"	"	132.00	"	5160.00	

36	FB-115	119	0.263	100	“	“	44.00	“	1731.00	
37	FB-116	120	0.336	80	“	“	35.20	“	1385.00	
38	FB-117	124,125	0.672	120	“	“	52.80	“	2077.00	
39	FB-118	123	0.947	150	“	“	66.00	“	2596.00	
40	FB-119	121	1.441	100	“	“	44.00	“	1731.00	
41	FB-120	154	1.177	350	“	“	154.00	“	6020.00	
42	FB-121	117	0.420	50	“	“	22.00	“	871.00	
43	FB-122	116	2.549	350	“	“	154.00	“	6020.00	
44	FB-123	115	2.116	350	“	“	154.00	“	6020.00	
45	FB-124	115	-	150	“	“	66.00	“	2596.00	
46	FB-125	122	0.947	100	“	“	44.00	“	1731.00	
47	FB-126	111	2.363	100	“	“	44.00	“	1731.00	
48	FB-127	98	1.882	350	“	“	154.00	“	6020.00	
49	FB-128	97	0.999	100	“	“	44.00	“	1731.00	
50	FB-129	96	2.931	150	“	“	66.00	“	2596.00	
51	FB-130	88	1.172	250	“	“	110.00	“	4327.00	
52	FB-131	87	0.914	150	“	“	66.00	“	2596.00	
53	FB-132	86,85	1.092,0.324	250	“	“	110.00	“	4300.00	
54	FB-133	89	0.922	80	“	“	35.20	“	1385.00	
55	FB-134	84	0.983	300	“	“	132.00	“	5160.00	
56	FB-135	100	0.785	70	“	“	30.80	“	1213.00	
57	FB-136	99	3.027	450	“	“	198.00	“	7740.00	
58	FB-137	110	1.825	100	“	“	44.00	“	1731.00	
59	FB-138	101	2.578	300	“	“	132.00	“	5160.00	
60	FB-139	59	2.537	350	“	“	154.00	“	6020.00	
61	FB-140	59	-	150	“	“	66.00	“	2596.00	
62	FB-141	55	3.705,0.705	550	“	“	242.00	“	9460.00	
63	FB-142	61	1.623	200	“	“	88.00	“	3462.00	
64	FB-143	61	-	100	“	“	44.00	“	1731.00	
65	FB-144	79	0.401	100	“	“	44.00	“	1731.00	
66	FB-145	78	0.995	120	“	“	52.80	“	2077.00	
67	FB-146	72	0.016	150	“	“	66.00	“	2596.00	
68	FB-147	66	1.259	380	“	“	167.20	“	6536.00	
69	FB-148	67	1.173	450	“	“	198.00	“	7740.00	
70	FB148A	68	0.959	150	“	“	66.00	“	2596.00	
71	FB-149	53	1.007	360	“	“	158.40	“	6192.00	
72	FB-150	54	0.862	100	“	“	44.00	“	1731.00	
73	FB-151	84,83	0.077,0.983	100	“	“	44.00	“	1731.00	
74	FB-152	52	1.005	100	“	“	44.00	“	1731.00	
75	FB-153	51	0.845	150	“	“	66.00	“	2596.00	
76	FB-154	53	1.005	350	“	“	154.00	“	6058.00	

77	FB-155	50	1.607	150	“	“	66.00	“	2596.00	
78	FB-156	49	0.563	100	“	“	44.00	“	1731.00	
79	FB-157	48	0.688	150	“	“	66.00	“	2596.00	
80	FB-158	47	0.571	150	“	“	66.00	“	2596.00	
81	FB-159	46	0.676	100	“	“	44.00	“	1731.00	
82	FB-160	45	0.441	100	“	“	44.00	“	1731.00	
83	FB-161	59	-	250	“	“	110.00	“	4327.00	
84	FB-162	47	-	100	“	“	44.00	“	1731.00	
85	FB-163	43	1.027,1.522	300	“	“	132.00	“	5193.00	
86	FB-164	39	2.635	300	“	“	132.00	“	5193.00	
87	FB-164A	41	1.270	70	“	“	30.80	“	1212.00	
88	FB-165	58	0.526	100	“	“	44.00	“	1731.00	
89	FB-166	57	0.291	80	“	“	35.20	“	1385.00	
90	FB-167,167A	42,39	1.883	200	“	“	88.00	“	3462.00	
91	FB-168	39,34	1.716,0.259	350	“	“	154.00	“	6058.00	
92	FB-169	32,31	1.250,1.315	250	“	“	110.00	“	4327.00	
93	FB-170	30	0.890	300	“	“	132.00	“	5193.00	
94	FB-171	28,29	0.894,0.741	80	“	“	35.20	“	1385.00	
95	FB-172	166	1.226	200	“	“	88.00	“	3462.00	
96	FB-173	187	1.639	250	“	“	110.00	“	4327.00	
97	FB-174	188	0.061	200	“	“	88.00	“	3462.00	
98	FB-175	187	-	100	“	“	44.00	“	4327.00	
99	FB-176	190	1.931	200	“	“	88.00	“	3462.00	
100	FB-177	197	0.612	250	“	“	110.00	“	4327.00	
101	FB-178	179	0.486	100	“	“	44.00	“	1731.00	
102	FB-179	177	0.615	100	“	“	44.00	“	1731.00	
103	FB-180	174	0.628	100	“	“	44.00	“	1731.00	
104	FB-181	172	0.020	100	“	“	44.00	“	1731.00	
105	FB-182	271	1.514	300	“	“	132.00	“	5193.00	
106	FB-183	270	0.364	80	“	“	35.20	“	1385.00	
107	FB-184	272	1.278	300	“	“	132.00	“	5193.00	
108	FB-185	274	1.007	150	“	“	66.00	“	2596.00	
109	FB-186	278	0.166	200	“	“	88.00	“	3462.00	
110	FB-187	276,277	0.174,0.166	250	“	“	110.00	“	4327.00	
111	FB-188	290	0.684	150	“	“	66.00	“	2596.00	
112	FB-189	283	1.040	200	“	“	88.00	“	3462.00	
113	FB-190	289	1.565	250	“	“	110.00	“	4327.00	
114	FB-191	291	0.628	100	“	“	44.00	“	1731.00	
115	FB-192	298	0.599	100	“	“	44.00	“	1731.00	
116	FB-193	302	0.725	150	“	“	66.00	“	2596.00	
117	FB-194	302,301	1.097	150	“	“	66.00	“	2596.00	

118	FB-195	300,304	0.240,0.324	100	"	"	44.00	"	1731.00	
119	FB-196	297	0.388	80	"	"	35.20	"	1385.00	
120	FB-197	306,305	0.432,0.178	100	"	"	44.00	"	1731.00	
121	FB-198	307	0.125	50	"	"	22.00	"	865.00	
122	FB-199	308	0.317	80	"	"	35.20	"	1385.00	
123	FB-200	296	0.688	100	"	"	44.00	"	1731.00	
124	FB-201	202	1.383	140	"	"	616.00	"	2423.00	
125	FB-202	288	1.271	180	"	"	79.20	"	3116.00	
126	FB-203	202	-	150	"	"	66.00	"	2596.00	
127	FB-204	309,310,3 11,312	0.688	100	"	"	44.00	"	1731.00	
128	FB-205	294	1.121	350	"	"	154.00	"	6020.00	
129	FB-206	286	1.299	150	"	"	154.00	"	6058.00	
130	FB-207	282	0.517	100	"	"	44.00	"	1731.00	
131	FB-208,208A	284,283	0.543,1.040	150,300	"	"	66.00,132.0 0	"	2596.00,51 93.00	
132	FB-209	317	1.157	150	"	"	66.00	"	2596.00	
133	FB-210	324	0.890	200	"	"	88.00	"	3462.00	
134	FB-211	326	0.890	250	"	"	110.00	"	4327.00	
135	FB-212	329	1.684	250	"	"	110.00	"	4327.00	
136	FB-213	330	0.825	150	"	"	66.00	"	2596.00	
137	FB-214	331	1.325	250	"	"	110.00	"	4327.00	
138	FB-215	333,332	1.428,0.109	150	"	"	66.00	"	2596.00	
139	FB-216	334,340	0.482,0.282	150	"	"	66.00	"	2596.00	
140	FB-217	335,339	0.243,0.170	200	"	"	88.00	"	3462.00	
141	FB-218	342,343,3 45	1.255	150	"	"	66.00	"	2596.00	
142	FB-219	341,344	0.562	100	"	"	44.00	"	1731.00	
143	FB-220	333	-	150	"	"	66.00	"	2596.00	
144	FB-221	336	0.040	80	"	"	35.20	"	1385.00	
145	FB-222	357,358	7.249	500	"	"	220.00	"	8655.00	
146	FB-223	355	0.441	150	"	"	66.00	"	2596.00	
147	FB-224	344	-	100	"	"	44.00	"	1731.00	
148	FB-225	346	0.833	150	"	"	66.00	"	2596.00	
149	FB-226	348	0.773	150	"	"	66.00	"	296.00	
150	FB-227	353	0.307	80	"	"	35.20	"	1385.00	
151	FB-228	352,351	0.805,0.194	150	"	"	66.00	"	2596.00	
152	FB-229	350,347	0.437	150	"	"	66.00	"	2596.00	
153	FB-230	524	2.161	200	"	"	88.00	"	3496.00	
154	FB-231	504,501,5 03	2.509	350	"	"	154.00	"	6058.00	

155	FB-232	499,498	0.217,1.416	300	“	“	132.00	“	5193.00	
156	FB-233	497	1.223	150	“	“	66.00	“	2596.00	
157	FB-234	495	1.129	200	“	“	88.00	“	3462.00	
158	FB-235	368	4.836	250	“	“	110.00	“	4327.00	
159	FB-236	366	1.481	200	“	“	88.00	“	3462.00	
160	FB-37	361,362,3 63,365	1.801	300	“	“	132.00	“	5153.00	
161	FB-238	364	1.396,0.975	400	“	“	176.00	“	6923.00	
162	FB-239	360	2.102	100	“	“	44.00	“	1731.00	
163	FB-240	358	3.569	400	“	“	176.00	“	6923.00	
164	FB-241	354	2.073	250	“	“	110.00	“	4327.00	
165	FB-242	357,358	1.680	350	“	“	154.00	“	6058.00	
166	FB-243	360	0.776	100	“	“	44.00	“	1731.00	
167	FB-244	364	-	100	“	“	44.00	“	1731.00	
168	FB-245	321	0.862	150	“	“	66.00	“	2596.00	
169	FB-246	319,320	1.971	300	“	“	132.00	“	5153.00	
170	FB-247	378	0.239	150	“	“	66.00	“	2596.00	
171	FB-248	379	0.300	150	“	“	66.00	“	2596.00	
172	FB-249	377,378	1.554	350	“	“	154.00	“	6058.00	
173	FB-250	375	1.615	350	“	“	154.00	“	2596.00	
174	FB-251	318	1.109	150	“	“	66.00	“	2596.00	
175	FB-252,252A	323,323	1.028	150	“	“	66.00	“	2596.00	
176	FB-253	328	0.520	150	“	“	66.00	“	2596.00	
177	FB-254	322	0.368	100	“	“	44.00	“	1731.00	
178	FB-255	248	2.355	250	“	“	110.00	“	4327.00	
179	FB-256	237	2.971	300	“	“	132.00	“	5153.00	
180	FB-257	233	0.320	60	“	“	26.40	“	1039.00	
181	FB-258	231	0.809	250	“	“	110.00	“	4327.00	
182	FB-259	237	-	200	“	“	88.00	“	3462.00	
183	FB-260	221	0.516	150	“	“	66.00	“	2596.00	
184	FB-261	207,208,2 09	1.105	390	“	“	171.60	“	6751.00	
185	FB-262	212	0.640	100	“	“	44.00	“	1731.00	
186	FB-263	201	0.417	100	“	“	44.00	“	1731.00	
187	FB-264	209	-	100	“	“	44.00	“	1731.00	
188	FB-265	203	0.781	100	“	“	44.00	“	1731.00	
189	FB-266	202	1.330	100	“	“	44.00	“	1731.00	
190	FB-267	202	-	150	“	“	66.00	“	2596.00	
191	FB-268	199	0.486	150	“	“	66.00	“	2596.00	
192	FB-269	201	-	100	“	“	44.00	“	1731.00	
193	FB-270	200	-	150	“	“	66.00	“	2596.00	

194	FB-271	194,197	0.883	100	"	"	44.00	"	1731.00	
195	FB-272	196,197	0.125	100	"	"	73.92	"	2890.00	
196	FB-273	194	-	168	"	"	66.00	"	2596.00	
197	FB-274	200	-	200	"	"	88.00	"	3462.00	
198	FB-275	224	2.335	200	"	"	88.00	"	3462.00	
199	FB-276	226,227,2 28,229,22 30	0.938	200	"	"	88.00	"	3462.00	
200	FB-277	225	1.830	150	"	"	66.00	"	2596.00	
201	FB-278	193	1.161	150	"	"	66.00	"	2596.00	
	Total		209.790	35878			15786.32		617087.00	

Lehravan (Village: Lehravan)

S. No	Name of Structure	Plot No.	Area (ha)	Length (m)	(Top+Base)/2×H	C.S	Contents (cum)	Rate/Cum	Amount	Remark
1	2	3	3	5	6	7	8	9	10	11
1	MB 1	514	0.86	100	(0.60+3.60)/2×1.00	2.10	210.00	39.09	8209.00	
2		501	0.22	30	"	"	63.00	"	2463.00	
3		500	0.18	40	"	"	84.00	"	3283.00	
5		499	0.73	80	"	"	168.00	"	6567.00	
6		498	1.73	185	"	"	388.50	"	15113.00	
7		497	0.96	75	"	"	157.50	"	6156.00	
8		496	0.32	100	"	"	210.00	"	8209.00	
	Total		5.00	610			1281.00		50000.00	

Lahravan (Village: Lahravan) Pond Renovation

Grid No	Staff Reading			H.I.	RL of Grid (Before)	Bed RL After Digging	Difference 6-7=8	Grid Size in Sqm.	E.W in Cum.	Remarks
	B.S.	I.S.	F.S.							
1	2	3	4	5	6	7	8	9	10	11
	0.55			100.55						P.B.M. at top of Chabootra of Temple
1		1.10			99.45	98.00	1.45	10×10=100	145.00	
2		1.13			99.42		1.42	"	142.00	
3		1.15			99.40		1.40	"	140.00	
4		1.17			99.38		1.38	"	138.00	
5		1.13			99.42		1.42	"	142.00	
6		1.07			99.48		1.48	"	148.00	
7		0.97			99.58		1.58	"	158.00	
8		0.87			99.68		1.68	"	168.00	
9		0.85			99.70		1.70	"	170.00	
10		0.99			99.56		1.56	"	156.00	
11		1.15			99.40		1.40	"	140.00	
12		1.15			99.40		1.40	"	140.00	
13		1.19			99.36		1.36	"	136.00	
14		1.19			99.36		1.36	"	136.00	
15		1.15			99.40		1.40	"	140.00	
16		1.09			99.46		1.46	"	146.00	
17	1.35		1.15	100.75	99.40		1.40	"	140.00	C.P.
18		1.35			99.40		1.40	"	140.00	
19		1.30			99.45		1.45	"	145.00	
20		1.35			99.40		1.40	"	140.00	
21		1.27			99.48		1.48	"	148.00	
22		1.19			99.56		1.56	"	156.00	
23		1.13			99.62		1.62	"	162.00	
24		1.01			99.74		1.74	"	174.00	
25		1.05			99.70		1.70	"	170.00	
26		1.10			99.65		1.65	"	165.00	
27		1.15			99.60		1.60	"	160.00	
28		1.20			99.55		1.55	"	155.00	
29		1.27			99.48		1.48	"	148.00	

30		1.45			99.30		1.30	“	130.00	
31		1.45			99.30		1.30	“	130.00	
32		1.39			99.36		1.36	“	136.00	
33		1.35			99.40		1.40	“	140.00	
34		1.40			99.35		1.35	“	135.00	
35	1.30		1.75	100.30	99.00		1.00	“	100.00	
36		1.36			98.94		0.94	“	94.00	
37		1.80			98.50		0.50	“	50.00	
38		1.80			98.50		0.50	“	50.00	
39		1.80			98.50		0.50	“	50.00	
40		1.09			99.21		1.21	“	121.00	
41		1.00			99.30		1.30	“	130.00	
42		1.00			99.30		1.30	“	130.00	
43		0.82			99.48		1.48	“	148.00	
44		0.80			99.50		1.50	“	150.00	
45		0.90			99.40		1.40	“	140.00	
46		0.85			99.45		1.45	“	145.00	
47		0.86			99.44		1.44	“	144.00	
48		1.10			99.20		1.20	“	120.00	
49		1.50			98.80		0.80	“	80.00	
50		1.07			99.23		1.23	“	123.00	
51		1.10			99.20		1.20	“	120.00	
52	1.50		1.40	100.40	98.90		0.90	“	90.00	C.P.
53		1.80			98.60		0.60	“	60.00	
54		1.60			98.80		0.80	“	80.00	
55		1.30			99.10		1.10	“	110.00	
56		1.10			99.30		1.30	“	130.00	
57		0.96			99.44		1.44	“	144.00	
58		1.08			99.32		1.32	“	132.00	
59		1.28			99.12		1.12	“	112.00	
60		1.30			99.10		1.10	“	110.00	
61		1.24			99.16		1.16	“	116.00	
62		1.30			99.10		1.10	“	110.00	
63		1.15			99.25		1.25	“	125.00	
64		1.10			99.30		1.30	“	130.00	
65		0.94			99.46		1.46	“	146.00	
66		072			99.68		1.68	“	168.00	C.P.
	1.46		1.34	100.52	99.06			“		C.P.
			0.51		100.01			“		
								Total	8677.00	

Error $100.01 - 100.00 = 0.01$

1. Total E.W. in Digging –	8677.00cum
2. Rat per Cum with Dressing work –	46.06/cum
3. Amount –	399662.00
4. Amount in Pucca work –	100338.00
5. Grand Total –	500000.00

ANNEXURE-II
FORMATION OF SELF HELP GROUP
MWS Code 2B5A4c1d

S. No.	Name and Code of MWS	Name Of Village	Name of S.H.G	Date of formation	Representative I	Representative II	Members	Landless/ Female	Livel. Activit.
1.	2B5A4c1d Lahravan	Majhola	Mahila SHG	12.8.10	Mukesh S/o Roop Ram Singh (OBC)	Sanjay S/o Raju Singh (OBC)	1. Bhoop Singh S/o Chunni Morya, (OBC) 2. Rajveer S/o Rajpal, (OBC) 3. Inderpal S/o Siyaram (OBC)	Landless Landless Landless	Buffalo Rearing
2.	2B5A4c1d Lahravan	Nagliya Kather	Manoranjana SHG	21.8.10	Harishchand S/o Premi (OBC)	Tikam S/o Nen Shukh (OBC)	1. Lochan S/o Chunni, (OBC) 2. Bhoop Singh S/o Angan, (OBC) 3. Than Singh S/o Ramlal (OBC)	Landless Landless Landless	Buffalo Rearing
3.	2B5A4c1d Lahravan	Mulheta	Nanak SHG	01.9.10	Malkhan S/o Kelash (SC)	Avdesh S/o Mahendra Singh (Gen)	1. Rakhi W/o Mukesh Singh (Gen), 2. Somwati W/o Dayaram (SC), 3. Sharla W/o Chote (OBC)	Female Female Female	Buffalo Rearing
4.	2B5A4c1d Lahravan	Achalpur	Bhagirath SHG	23.8.10	Devendra S/o Ramchander (OBC)	Mohar Singh S/o Mewaram (OBC)	1. Namwati W/o Kishanpal (OBC), 2. Ompal S/o Chetram (OBC) 3. Gomti W/o Udayveer (OBC)	Female Landless Female	Buffalo Rearing
			Ganga SHG	23.8.10	Devendra S/o Harprasad (OBC)	Dharmendra S/o Rajendra (OBC)	1. Surja Devi W/o Sodhan Singh (OBC), 2. Khem Singh S/o Ramchander (OBC), 3. Kamla Devi W/o Sheer Singh (OBC)	Female Landless Female	Buffalo Rearing
5.	2B5A4c1d Lahravan	Bhartra	Murari SHG	29.7.10	Jaipal S/o Mohanlal (OBC)	Deshpal S/o Mek Singh (OBC)	1. Ramkirti W/o Kuvarpal (OBC) 2. Bhoo Devi W/o Murarilal (OBC), 3. Kushmawati W/o Rajendra (OBC)	Female Female Female	Buffalo Rearing
			Ashok SHG	29.7.10	Keerpal S/o Gangaram (OBC)	Sanjeev S/o Rambhajan (SC)	1. Bhoop Singh S/o Malkhan (OBC), 2. Saroj W/o Durjan (OBC), 3. Pratab S/o Ramgopal (OBC)	Landless Female Landless	Buffalo Rearing
6.	2B5A4c1d Lahravan	Bisharu	Allaha SHG	04.12.10	Irfaan S/o Sakawat (OBC)	Farkudna S/o Latif (OBC)	1. Kale Khaa S/o Asgar (OBC), 2. Avrar S/o Nosse (OBC), 3. Malaksher S/o Nanhe (OBC)	Landless Landless Landless	Buffalo Rearing
			Dharam SHG	04.12.10	Dharmpal S/o Ranjeet (OBC)	Bhoop Singh S/o Dambar (OBC)	1. Jai Devi W/o Bhojraj (OBC), 2. Longshree W/o Lochan (OBC), 3. Sohanlal S/o Omkar (OBC)	Female Female Landless	Buffalo Rearing
7.	2B5A4c1d Lahravan	Lahravan	Mahesh SHG	28.8.10	Lalaram S/o Vasudev (OBC)	Mahesh S/o Prem Shankar (OBC)	1. Insharam S/o Rajpal (OBC), 2. Subhash S/o Ramsingh (OBC), 3. Sher Singh S/o Budhi Singh (OBC)	Landless Landless Landless	Buffalo Rearing
			Nath SHG	26.8.10	Than Singh S/o Shivcharan (OBC)	Jivaram S/o Shukhilal (OBC)	1. Ramprasad S/o Roopram (OBC), 2. Rajpal S/o Sundar (OBC), 3. Gangaram S/o Hori (OBC)	Landless Landless Landless	Buffalo Rearing
			Daanveer SHG	26.8.10	Shukhe S/o Roshanlal (OBC)	Chiranjilal S/o Lakhan (OBC)	1. Bhimsen S/o Khayali (OBC), 2. Bhure S/o Ramswaroop (OBC), 3. Jai Prakash S/o Ramcharan (OBC)	Landless Landless Landless	Buffalo Rearing

ANNEXURE-III

FORMATION OF UGERS GROUP

MWS Code 2B5A4c1d

S. No.	Name of Gram Panchayat	Name of Village	Name of UG Member	Plot No.	Remark
1	2	3	4	5	6
1	Nagaliya Kather	Nagaliya Kather	Kishan pal S/O Gokul	4	
			Dani Ram S/O Chhaviram	5	
			Jugal Kishor S/O Ramswaroop	6	
			Sompal S/O Chiranjilal	8	
			Sukha S/O Nanuki	9	
			Virendra S/O Ram lal	10	
			Omprakash S/O Man singh	12	
			Dal Chand S/O Ganpat	14	
			Ram Charan S/O ram singh	15	
			Durga Prasad S/O Naraina	152	
2	Nagaliya Kather	Achalpur	Jaspal S/O Vikram	18	
			Vijaipal S/O Sunder Singh	19	
			Chhatrapal S/O Bhawani	20	
			Rajendra S/O Ramnarayan	23	
			Veerpal S/O Nandram	51	
			Prempal S/O Mohanlal	52	
			Hari Singh S/O Nand Ram	53	
			Rakesh S/O Udho	39	
			Nemsingh S/O Paimi	40	
			Ram Prasad S/O Teekaram	41	
			Shyamlal S/O Udho	42	
			Baburam S/O Paimi	43	
			Sevaram S/O Tulsi	44	
			Ramsingh S/O Bhawani	45	
			Ramautar S/O Mohanlal	46	
			Satyaprakash S/O Shyamlal	47	
			Lochan Singh S/O Ganpat	49	
3	Nagaliya Kather		Hakim Singh S/O Munnalal	57	Pond
			Neeraj Kumar S/O Sher Singh	59	
			Naval Kishor S/O Sher Singh	67	
			Chandrapal S/O Teekaram	68,73	
			Ramnarayan S/O Nanhu	69,74	
			Peetam Singh S/O Revat Singh	83	
			Prempal S/O Mohanlal	134	

			Jhamman S/O Jisukh	132	
			Jaspal S/O Vikram	131	
			Anangpal S/O Balwant Singh	130	
			Gaingan S/O Chandan	129	
			Sevaram S/O Jisukh	128	
			Omprakash S/O Bhawani	119	
			Lal Singh S/O Revti	118	
4	Nagaliya Kather		Rakesh S/O Udho	112	
			Prempal S/O Summeri	117	
			Veerpal S/O Nandram	116	
			Ramnarayan S/O Nanhu	115	
			Mukut S/O Bheemsain	114	
			Ramgopal S/O Bhojraj Singh	103	
			Rajveer Singh S/O Pyarelal	102	
			Chhatrapal S/O Natthu Singh	101	
			Mool Chand S/O Kallu	100	
			Sarupa S/O Nanua	99	
			Ratan Singh S/O Pyarelal	96	
			Chandrapal S/O Teekaram	92	
			Nand Kishior S/O Ramswaroop	93	
			Sevaram S/O Jisukh	88,89,87	
5	Majhola	Majhola	Ramkali W/O Battulal	78	
			Anil Kumar S/O Sipttar Singh	79	
			Khubi S/O Charn Singh	80	
			Dori S/O Khemkaran	82	
			Phoolchandra S/O Sohan Singh	87	
			Megh Singh S/O Chabi Lal	88	
			Sundar Singh S/O Matru	91	
			Jhamman S/O Nathu Lal	92	
6	Bisaru	Bisaru	Nasruddin S/O Shahabudin	342	
			Omprakash S/O Munshilal	343	
			Ramswaroop S/O Amar Singh	349	
			Yusuf Ahmad S/O Bashir	353	
			Sompal S/O Baldev	371	
			Harish Chandra S/O Babu Ram	372	

			Kalika Prasad S/O Liladhar	341	
			Phoolwati W/O Makkhan	33	
7	Mulheta	Mulheta	Ganga Ram S/O Chhiddu	657	
			Ganeshpal S/O Bhajan Singh	682	
			Hotilal S/O Natthu	684	
			Shivcharan S/O Tulsi	885	
			Chhatrapal S/O Roopram	686	
8	Lahravan	Lahravan	Pemo S/O Tansukh	10	
			Gangasahay S/O Deshi	11	
			Kishanlal S/O Roopi	13	
			Chiranji S/O Toti	37	
			Anandpal S/O Jahilsingh	42	
			Birbal S/O Moti	46	
			Chandrwati W/O Sobaran Singh	73	
			Ramsingh S/O Badri	75	
			Natthu S/O Mansingh	78	
			Chunni S/O Ganga	79	
9	Lahravan	Lahravan	Jhamman S/O jairam	135	
			Sukhi S/O Ganeshi	137	
			Pooransingh S/O Hoti	177	
			Sunder S/O moti	179	
			Khoobi S/O punni	163	
			Kishanlal S/O Banshi	168	
			Birbal S/O Moti	174	
			Netram S/O Ramprasad	191	
			Omprakash S/O Baljeet	190	
			Jhandu S/O Dorilal	189	
10	Lahravan	Lahravan	Kishanlal S/O Roopi	227	
			Ramswroop S/O Ramchandra	229	
			Islamuddin S/O Gulsher	231	
			Bhanwarpal S/O mulli Singh	237	
			Pyarelal S/O Ramprasad	248	
			Pramod S/O Chandrpal	271	
			Brajlal S/O Ramswroop	268	
			Arvind Kumar S/O Seepa	257	
			Harpal S/O Horilal	225	
11	Lahravan	Lahravan	Dharmpal S/O Gandanlal	329	
			Chiranjilal S/O Shivesahay	330	
			Udaipal S/O Premi	331	
			Phoolsingh S/O Likhi	240	
			Surajpal S/O Ramswroop	242	

			Nemsingh S/O Mangali	244	
12	Lahravan	Lahravan	Bhimsen S/O Tursi	500	
			Udaipal S/O Pemi	501	
			Chandrapal S/O Mangli	503	
			Munnalal S/O Premraj	493	
			Rajpal S/O Dulli	494	
			Shivcharan S/O Mewaram	469	
			Anil Kumar S/O Thansingh	470	
13	Bhartara	Bhartara	Phoolchand S/O Likhi	185	
			Prempal S/O Surajpal	193	
			Maharani W/O Kunwarsen	176	
			Suresh Chandra S/O Laxmi Chandra	198	
			Lalaram S/O Gopi Singh	227	
			Jai Kumar S/O Rajkumar	117	
			Roshan S/O Sewaram	143	
			Veerpal S/O Jubali	124	

ANNEXURE-IV

Estimate for Crop Demonstration

Details for Production system & Micro Enterprise based livelihood activities are given below:-

Table 11.1(A): Estimate for Crop Demonstration (Per ha)

Wheat :-

S. No.	Particulars	Quantity	Rate	Amount
1	Preparation of Field for sowing	-	3500.00	3500.00
2	Seed Rate	100 kg	30.00	3000.00
3	Sowing	-	1000.00	1000.00
4	Fertilizer (NPK) 120-60-60			
	DAP 46%	130 kg	915.00/Bag	2380.00
	Urea 46%	210 kg	299.00/Bag	1260.00
	MOP 60%	100 kg	625.00/Bag	1250.00
5	Plant Protection (Zinc etc.)	-	1000.00	1000.00
6	Irrigation	5 Nos.	800.00	4000.00
7	Harvesting	-	2650.00	2650.00
	Total			20040.00
	Say			20000.00

Cost for 0.40 ha= 8000.00

Cost for 0.25 ha= 5000.00

Table 11.1(B): Estimate for Crop Demonstration (Per ha)
Paddy :-

S. No.	Particulars	Quantity	Rate	Amount
1	Preparation of Field for sowing	-	3400.00	3400.00
2	Seed Rate	30-35 kg (Basmati)	60.00	1800.00
3	Sowing/ Transplanting	-	2000.00	2000.00
4	Fertilizer (NPK) 120-60-60 DAP 46% Urea 46% MOP 60%	120 kg 217 kg 100 kg	915.00/Bag 299.00/Bag 625.00/Bag	2184.00 1298.00 1250.00
5	Plant Protection (Zinc Indosulphan- 35EC, Corbofuran etc.)	-	2100.00	2100.00
6	Irrigation	5 Nos.	800.00	4000.00
7	Harvesting	-	2700.00	2700.00
	Total			20732.00
	Say			20700.00

Cost for 0.40 ha= 8300.00

Table 11.1(C): Estimate for Crop Demonstration (Per ha)**Urad :-**

S. No.	Particulars	Quantity	Rate	Amount
1	Preparation of Field for sowing	-	2000.00	2000.00
2	Seed Rate	15 kg	100.00	1500.00
3	Sowing	-	1000.00	1000.00
4	Fertilizer (15 kgN, 45 kgP) DAP 46%	100 kg	915.00/Bag	1830.00
5	Plant Protection	-	2900.00	2900.00
6	Irrigation	1 Nos.	800.00	800.00
7	Harvesting	-	1500.00	1500.00
	Total			11530.00
	Say			11500.00

Cost for 0.40 ha= 4600.00**Cost for 0.25 ha= 2875.00**

Table 11.1(D): Estimate for Crop Demonstration (Per ha)

Bazra :-

S. No.	Particulars	Quantity	Rate	Amount
1	Preparation of Field for sowing	-	2500.00	2500.00
2	Seed Rate	4-5 kg	60.00	300.00
3	Sowing	-	1000.00	1000.00
4	Fertilizer (NPK) 100,40,40 DAP 46% Urea 46% MOP 60%	87 kg 170 kg 68 kg	915.00/Bag 299.00/Bag 625.00/Bag	1592.00 1017.00 850.00
5	Irrigation	2 Nos.	800.00	1600.00
6	Harvesting	-	1200.00	2000.00
	Total			10859.00
	Say			10820.00

Cost for 0.40 ha= 4328.00

Table 11.1(E): Estimate for Crop Demonstration (Per ha)

Fodder (Barseem) :-

S. No.	Particulars	Quantity	Rate	Amount
1	Preparation of Field for sowing	-	4000.00	4000.00
2	Seed Rate	25-30 kg	100.00	3000.00
3	Fertilizer (NP) 25,75 DAP 46%	164 kg	915.00	3000.00
4	Irrigation	5-6 kg	800.00	4800.00
5	Harvesting	5-6	1050.00	5250.00
	Total			20050.00
	Say			20000.00

Cost for 0.25 ha= 5000.00

ANNEXURE-V (PARAMETERS)

Soil type	Sandy loam
Labour rate	Rs. 120/day

Structure Code	Name of Structure	Top width (m)	Base width (m)	Height (m)	Earth work cum / man-day
CB	Contour Bund	0.45	2.25	0.60	3.07 including dressing
FB	Field Bund	0.30	1.65	0.45	3.07 including dressing
PB/MB	Peripheral/Marginal Bund	0.60	3.60	1.00	3.07 including dressing
PND	Pond	Deepening of existing ponds			2.60 including dressing

PREPARATION OF DPR

Detail Project Report of Integrated Watershed Management Program (IWMP- 1st) Bhimnagar has been prepared through base line/ benchmark survey for physiographic, climate, soil, land use, vegetation, hydrology and socio economic data collection. PRA exercises have been done to collect primary data. Secondary data have been collected from Revenue, Statistics department, Statistical Magazine of the district, department of animal Husbandry development etc. Top sheets on 1:50,000 scale, online high resolution satellite image and SRTM data has been used. Suggestions related to technical & specific inputs were taken from external expert in preparation and drafting of detail project report.

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