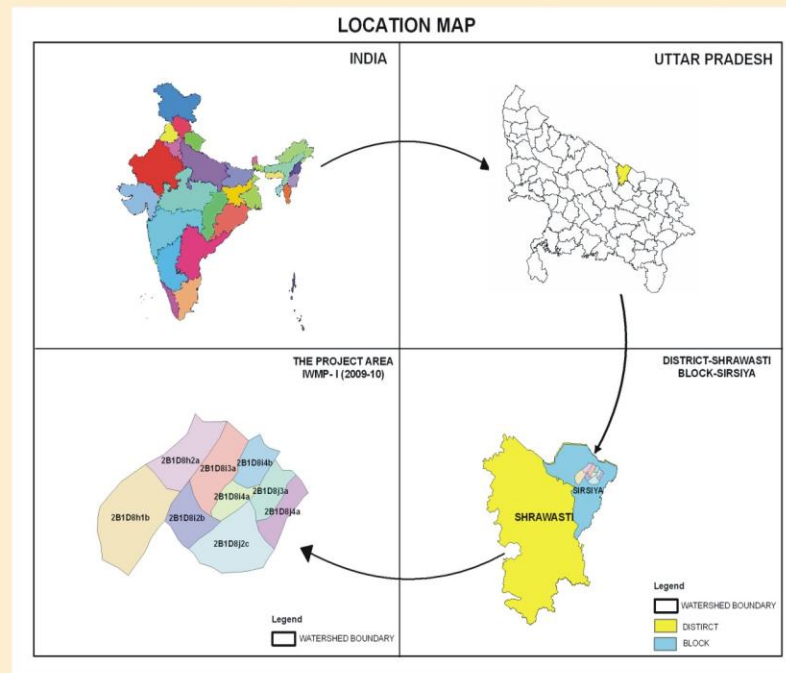


DETAILED PROJECT REPORT



OF INTEGRATED WATERSHED MANAGEMENT PROGRAMME-I SHRAVASTI (2009-10)



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Submitted to :
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CERTIFICATE

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

Bhoomi Sanrakshan Adhikari

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EXECUTIVE SUMMARY

IWMP-I Project is located in Sirsiya Block of Shravasti district, Uttar Pradesh. The Project comprises of 9 Micro-watersheds with code no:-2B1D8h1b, 2B1D8h2a, 2B1D8i3a, 2B1D8j2c, 2B1D8i2b, 2B1D8i4a, 2B1D8i4b, 2B1D8j3a, and 2B1D8j4a. The total geographical area of the project is 7168.49 ha, out of which 4701 ha area has been taken for treatment under Integrated Watershed Management Programme starting year 2009-10. Total 17 villages are being covered under this project. This watershed has been identified by the state department under NWDPPRA scheme by proper prioritization of different parameters for watershed selection criteria. The above watershed is located in the North-East part of the district, between 27°46'24"N to 27°51'26"N latitude and 82°01'07" E to 82°08'59" E longitude. Brief details of various component of the project are given below.

Shravasti was the capital of the Kosala Kingdom during 6th century BC to 6th century AD. This prosperous trading centre was well known for its religious associations. The project area is important from Buddhism point of view because Lord Buddha performed a number of miracles here.

The altitude of the area, on an average, ranges from 129 to 172 m above the Mean Sea Level (MSL).

The texture of the Soils are fine loamy to clayey.

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

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

Table 1: PROJECT AT A GLANCE

1.	Name of Project	IWMP –I, L.B. Rapti RIVER WATERSHED				
2.	Name of Block	SIRSIYA				
3.	Name of District	SHRAVASTI				
4.	Name of State	UTTAR PRADESH				
5.	No of Micro Watershed	09				
6.	Name of Village under Micro Watershed	Sachuli, Piprahwa Ranjeetpur, Sonbarsa, Chailahi, Ahlad Nagar, Gabbapur, Lalpur Kushmahwa, Sirsiya, Belhari, Bhagwanpur, Ghoghwa Kala, Tangpasari, Jokhniya, Koilhawa, Balapur, Suhelwa & Medhikiya				
7.	Micro Watershed Code	2B1D8h1b	2B1D8i3a	2B1D8i3a	2B1D8j2c	2B1D8i2b
		2B1D8i4a	2B1D8i4b	2B1D8j3a	2B1D8j4a	
8.	Total Area of the Project	6316.52 ha				
9.	Proposed Area for Treatment	4701.00 ha				
10.	Cost per Hectare	Rs. 12000 per ha				
11.	Project Period	YEAR 2009-10 TO 2013-14				
12.	Total Cost of Project	Rs. 564.12 Lacs				
13.	Proposed man days	282000 Nos.				

Table 2: IWMP - I (2009-2010) , DISTRICT-SRAVASTI

YEAR WISE PHASING OF IWMP WORKS (COMPONENTS - WISE)

District : SRAVASTI

Starting Year : 2009-2010

Amount : In Lacs, Area : ha

S. No.	Particulars	2009-10		2010-11		2011-12		2012-13		2013-14		TOTAL	
		Fin.	Ph y.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.
1	Administrative Cost - 10%	2.82	-	8.46	-	15.23	-	15.23	-	14.67	-	56.41	-
2	Monitoring - 1%	-	-	1.13	-	1.13	-	1.13	-	2.26	-	5.64	-
3	Evaluation - 1%	-	-	1.69	-	0.99	-	0.99	-	1.97	-	5.64	-
4	Entry Point Activity - 4%	22.56	-	-	-	-	-	-	-	-	-	22.56	-
5	Institution & Capacity Building - 5%	2.82	-	14.10	-	4.23	-	4.23	-	2.82	-	28.21	-
6	DPR - 1%	5.64	-	-	-	-	-	-	-	-	-	5.64	-
7	Watershed Development work - 56%	-	-	42.31	629.46	92.23	1372.69	90.26	1343.08	91.11	1355.77	315.91	4701
8	Livelihood Activity - 9%	-	-	5.64	-	14.10	-	14.10	-	16.92	-	50.77	-
9	Production System & Micro Enterprise - 10%	-	-	5.64	-	14.10	-	14.10	-	22.56	-	56.41	-
10	Consolidation - 3%	-	-	-	-	-	-	-	-	16.92	-	16.92	-
	Total	33.85		78.98	629.46	142.02	1372.69	140.04	1343.08	169.24	1355.77	564.12	4701

Table 3: Budget for Various Components (I.W.M.P. - I, SHRAVASTI (U.P.))

S.N.	Budget Component	%	Total (lakhs)
A.	1. Administrative	10	56.41
	2. Monitoring	1	5.64
	3. Evaluation	1	5.64
B.	Preparatory Phase		22.56
	1. Entry point activities	4	28.21
	2. Institution and capacity building	5	5.64
	3. Detailed Project Report(DPR)	1	
C.	WATERSHED WORKS PHASE		
	1. Watershed development works,	56	315.91
	2. Livelihood activities for the asset less persons	9	50.77
	3. Production system and micro enterprises.	10	56.41
D.	CONSOLIDATION PHASE	3	16.92
	GRAND TOTAL	100	564.12

CHAPTER-1

INTRODUCTION & BACKGROUND

The IWMP – Ist (2009-10) project of Shravasti district in Sirsiya Block, of Uttar Pradesh, is located about 30 km from district head quarter on Bhinga to Chaudharideeh road. There are Nine (9) Micro Watershed included in the project. Which comprise of 17 revenue villages.

The watershed is proposed to be taken by Bhoomi Sanrakshan Adhikari, Department of Land Development & Water Resources, Shravasti, for IWMP programme starting from 2009-10. It is proposed to be completed by 2013-14.

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

Table 1.1: Status of watershed programme, District- Shravasti,

Details	No.	Area (Lac ha.)
1	2	3
Total Micro watersheds in the district	217	2,45800
Workable Micro Watersheds	178	2,01586
Micro Watersheds already treated by DLWR & other agencies	39	0.44000
Balance Micro Watersheds (MWS) for treatment (Before start of IWMP in district)	152	1,64386

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

Year	Project/ Phase IWMP.....	MWS	Area (ha)	Project Cost Rs. lakh	Name of PIA	S.C. Meeting Date
1	2	4	5	6	7	8
2009-10	IWMP- I	9	4701.00	564.12	BSA, LDWR, Shravasti,	16-03-2010

Table 1.3: Status of previous DPRs, District- Shravasti,

Sl. No.	Approve d Project (IWMP)	Status of DPR under preparation/ prepared/appro ved by SLNA with date	Project Area ha	Treatabl e Area ha	Project cost Rs. (Lakh)	Project period (Fin. Year from...to...)	PIA
1	2	3	4	5	6	7	8
1.	IWMP- I	Prepared/ under revision	6316.52	4701.00	564.12	2009-10 to 2013-14	BSA, LDWR Shravasti,

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

Watershed project IWMP	Micro Watersheds (MWS) detail	Micro watersheds code	Treatable Area in (ha)	Name of Watershed in which MWS is falling (River / Nala name)
IWMP-I	Piprahwaranjitpur	2B1D8h1b	715.00	L.B. Rapti River/
IWMP-I	Bhagwanpur-I	2B1D8i4b	373.00	-
IWMP-I	Lalpur Kushmahwa-I	2B1D8i4a	226.00	-
IWMP-I	Ahlanagar-I	2B1D8i2b	780.00	-
IWMP-I	Lalpur Kushmahwa-II	2B1D8j3a	328.00	-
IWMP-I	Bhagwanpur-II	2B1D8i3a	632.00	-
IWMP-I	Ahlanagar -II	2B1D8h2a	484.00	-
IWMP-I	Tangpasri	2B1D8j2c	878.00	-
IWMP-I	Ghogwakalan	2B1D8j4a	285.00	-
Total	-	-	4701	

MAIN OBJECTIVES FOR WATERSHED DEVELOPMENT

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

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

Table 1.5: Problem identification and prioritization for watershed

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

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

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

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

Table 1.7: Weightage of the Project

District	Name of the Project	No. of micro-watersheds proposed to be covered	Proposed project area (ha)	Proposed cost (Rs. in lakh)	Weightage								
					i	ii	iii	iv	v	vi	vii	viii	ix
Shravasti	IWMP-I	09	4701.00	564.12	7.5	5	5	5	0	10	10	5	10
					x	xi	xii	xiii	xiv				
					15	10	10	0	92.50				

CHAPTER – 2

GENERAL DESCRIPTION OF PROJECT AREA

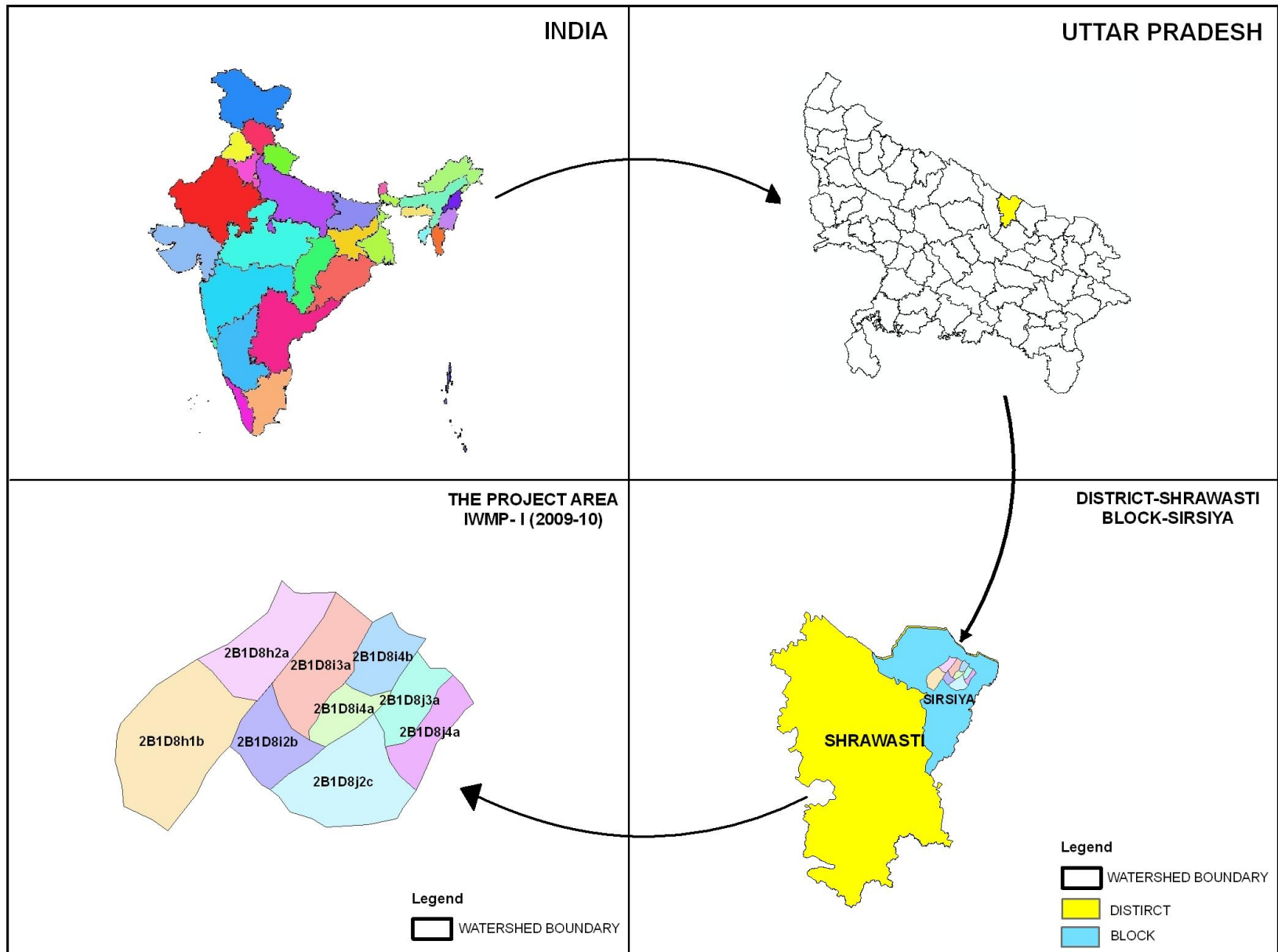
Location: - The micro-watershed IWMP- I, is situated in in Sirsiya Block of Shravasti district, U.P. It is located about 30 km, from district headquarter. The details about micro-watersheds, their geographical location (lat/long), Gram Panchayat, villages and its geographical area, etc. is given in Table 2.1

Table 2.1: Micro-watershed wise details of location, Gram Panchayat, villages and geographical area of IWMP- I, SHRAVASTI,

S. No.	Name of micro watershed with Code	Latitude / Longitude	Name of GP	Names of villages	Name of Block	Area of village included in MWS(ha)	Details of important /approach road with distance km
1	2	3	4	5	6	7	8
1	Piprahwaranjitpur/ 2B1D8h1b	27°46'29" N To 27°49'53"N And 82°1'54" E To 82°4'16" E	Gabbapur, Ahladnagar, Sonbarsa, Piprahwaranjitpur, Chailahi	Sachauli, Piprahwa Ranjeetpur, Sonbarsa, Chailahi, Jokhniya, Koilahwa, Gabbapur,	SIRSIYA	921.18	approach road Kakardari to Chaudharideeh Sirsiya to Sirsiya 0 Km Sirsiya to Belhari 03 Km Sirsiya to lalpur 0.4 Km Sirsiya to Balapur 01 Km Sirsiya to Bhagwanpur 02 Km Sirsiya to Tangpasari 02 Km Sirsiya to Medhakiya 04 Km Sirsiya to Ghoghwa kala 04 Km Sirsiya to Suhelwa 05 Km Sirsiya to Chailahi 0.50 Km Sirsiya to Sonbarsa 01 km Sirsiya to Piprahwa 01 Km Sirsiya to Ahladnagar 1.50 Km Sirsiya to Koilahwa 01 Km Sirsiya to Jokhniya
2	Bhagwanpur -I/ 2B1D8i4b	27°49'5" N To 27°50'56"N And 82°6'02" E To 82°7'59" E	Bhagwanpur, Lalpur Kushmahwa	Bhagwanpur, Lalpur Kushmahwa	SIRSIYA	471.61	
3	Lalpur Kushmahwa-I/ 2B1D8i4a	27°48'44" N To 27°49'23"N And 82°5'10" E To 82°7'15" E	Bhagwanpur, Lalpur Kushmahwa Sirsiya	Bhagwanpur, Lalpur Kushmahwa Sirsiya, Balapur	SIRSIYA	336.07	
4	Ahladnagar-I/ 2B1D8i2b	27°47'17" N To 27°49'22"N And 82°3'36" E To	Ahladnagar, Lalpur Kushmahwa Sirsiya Belhari	Ahladnagar, Sirsiya Belhari, Kolahwa, Balapur	SIRSIYA	938.73	

		82°3'58" E					2.50 km
5	Lalpur Kushmahwa-II/ 2B1D8j3a	27°48'16" N To 27°51'10" N And 82°4'36" E To 82°6'50" E	Lalpur Kushmahw, Ghogwakalan	Lalpur Kushmahw, Ghogwakalan	SIRSIYA	463.30	Sirsiya to Chailahi 0.50 Km Sirsiya to Sonbarsa 01 km Sirsiya to Piprahwa 01 Km Sirsiya to Ahladnagar 1.50 Km Sirsiya to Koilahwa 01 Km Sirsiya to Jokhniya 2.50 km
6	Bhagwanpur-II/ 2B1D8i3a	27°48'09" N To 27°50'01" N And 82°06'08" E To 82°08'38" E	Ahlanagar, Lalpur Kushmahwa Bhagwanpur Sirsiya	Sohelwa, Ahlanagar, Bhagwanpur, Balapur, Koyalahwa, Sirsiya	SIRSIYA	885.04	
7	Ahlanagar –II/ 2B1D8h2a	27°49'01" N To 27°51'25" N And 82°02'04" E To 82°06'26" E	Gabbapur, Bhagwanpur, Ahlanagar,	Gabbapur, Ahlanagar, Sohelwa, Jokhniya, Koilahwa,	SIRSIYA	761.37	
8	Tangpasri/ 2B1D8j2c	27°46'09" N To 27°48'47" N And 82°04'29" E To 82°07'47" E	Lalpur Kushmahwa, Ghogwakalan, Sirsiya, Belhari, Tangpasri	Ghogwakalan, Sirsiya, Belhari, Tangpasri, Balapur, Merkiya,	SIRSIYA	1134.66	
9	Ghogwakalan/ 2B1D8j4a	27°47'13" N To 27°49'33" N And 82°07'33" E To 82°09'04" E	Lalpur Kushmahwa, Ghogwakalan	Lalpur Kushmahwa, Ghogwakalan	SIRSIYA	404.56	
			Total Area (ha)			6316.52	

LOCATION MAP



Area and Land use: Total area of the watershed is 6316.52 ha out of which treatable area is 4701 ha. Micro-watershed-wise details of the land use/land cover are depicted in Table 2.2.

Table 2.2: Land Use/Land Cover Statistics of the Project Area

SN	Name of micro watershed with Code	Name of village	Cultivated and wasteland area of the village (ha)				Area details (ha) (falling within the projects)								
			Cultivated rainfed area (in ha.)	Cultivated irrigated area (in ha.)	Uncultivated wasteland/ fallow		Pvt. Agri. Land					Forest Land	Community land	Others (Pl. specify)	Total area (ha)
					Temp.	Permanent	Gen	SC	ST	OBC	Total				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1	Piprahwa ranjeetpur 2B1D8h1b	Sachuli	98.10	34.20	20.50	-	84.01	7.24	-	53.60	144.85	-	9.64	3.29	157.78
		Piprahwa Ranjeetpur	228.40	72.85	47.93	-	195.75	16.87	-	124.88	337.50	-	22.53	7.81	368.84
		Sonbarsa	73.00	29.10	15.50	-	63.52	5.47	-	4.53	109.52	-	7.28	2.49	119.29
		Chailahi	16.72	7.05	3.58	-	13.77	1.26	-	10.28	25.31	-	1.68	0.57	27.56
		Jokhniya	68.00	26.19	14.29	-	58.55	5.04	-	37.36	100.95	-	6.71	2.29	109.95
		Koilahwa	11.09	3.95	2.34	-	9.62	0.83	-	6.15	16.60	-	1.10	0.37	18.07
		Gabbapur	73.20	27.24	15.59	-	63.71	5.49	-	40.65	109.85	-	7.34	2.50	119.69
Total			568.51	200.58	119.73	-	489.83	42.20	-	313.55	845.58	-	56.28	19.32	921.18
2	Lalpur Kushmahwa 2B1D8i4b, 2B1D8i4a, 2B1D8j2b, 2B1D8j3a	Ahlahd Nagar	20.16	8.12	4.20	-	16.92	1.78	-	11.00	29.70	-	1.97	0.67	32.34
		Koilahwa	164.20	58.47	34.08	-	139.63	13.24	-	87.88	240.75	-	16.02	5.48	262.25
		Lalpur Kushmahwa	424.00	154.40	87.47	-	314.53	37.06	-	266.27	617.86	-	91.12	14.06	673.04
		Balapur	102.15	36.29	22.03	-	91.82	7.78	-	56.01	155.61	-	10.35	3.54	169.50
		Sirsiya	97.60	37.20	12.75	-	59.95	3.99	-	35.98	99.92	-	6.64	2.27	108.83
		Belhari	108.40	43.012	21.30	-	82.74	9.02	-	58.69	150.45	-	10.04	3.40	163.89
		Bhagwanpur	354.10	158.52	77.99	-	308.30	27.04	-	205.54	540.88	-	35.99	12.31	589.10

Total			1270.61	596.70	259.82	-	1013.89	99.91	-	721.32	1835.12	-	122.14	41.77	1999.03
3	Ahladnagar 2B1D8i3a, 2B1D8h2a	Gabbapur	72.10	26.42	17.48	-	70.40	6.17	-	46.95	123.51	-	8.22	2.81	134.55
		Bhagwanpur	90.40	34.29	21.79	-	89.29	6.92	-	57.74	153.95	-	10.24	3.50	167.69
		Suhelwa	327.20	113.59	63.96	-	253.01	27.10	-	171.71	451.82	-	30.07	10.28	492.17
		Ahladnagar	380.30	96.07	80.58	-	325.87	34.15	-	199.26	569.28	-	37.89	12.96	620.13
		Jokhniya	39.40	14.24	10.32	-	43.72	4.00	-	25.15	72.87	-	4.85	1.65	79.37
		Koilahwa	14.70	5.42	3.43	-	14.55	1.28	-	8.43	24.26	-	1.62	0.55	26.43
		Balapur	145.65	52.35	29.68	-	121.44	10.46	-	77.49	209.39	-	13.93	4.73	228.05
Total			1069.75	342.38	227.24	-	828.28	90.08	-	686.77	1605.13	-	106.82	36.54	1748.39
4	Ghoghwa Kala 2B1D8j2c, 2B1D8j4a	Lalpur Kushmahwa	184.90	72.80	41.08	-	143.72	13.62	-	90.47	247.81	-	16.49	5.64	269.94
		Balapur	68.14	26.71	15.67	-	66.40	4.42	-	39.85	110.67	-	7.36	2.51	120.54
		Ghoghwa Kala	136.10	50.80	38.63	-	134.48	13.91	-	83.48	231.87	-	15.52	5.24	252.63
		Medhikiya	147.80	57.62	33.59	-	137.59	9.84	-	89.81	237.24	-	15.79	5.40	258.43
		Belhari	76.15	28.60	16.10	-	75.09	7.37	-	51.64	134.10	-	7.57	2.59	123.94
		Tangpasari	240.64	92.20	47.09	-	181.61	16.21	-	126.49	324.31	-	21.58	7.38	353.27
		Sirsiya	117.40	14.70	22.05	-	143.31	9.88	-	93.91	247.10	-	16.45	5.62	269.17
Total			971.13	343.34	214.21	-	882.20	75.25	-	555.27	1512.72	-	100.76	34.44	1647.92
Grand Total			3880.00	1483.00	821.00	-	3213.65	307.44	-	2276.91	5798.00	-	386.00	132.52	6316.52

LAND CAPABILITY CLASSIFICATION (LCC)

Land capability classification(LCC) is crucial for appropriate land use planning consisting of practiced like choice of vegetation /crops, tillage practices, use of scientific method of cultivation and desirous conservation practices, Detailed LCC Survey carried out in the watershed brought out the prevailing LCC classes as I,II,III,IV,V, VI and VII. The watershed area is also classified under different Land Capability Classes (LCC) II to VII as detailed in Table 2.4.

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

S. No.	Name of MWS & code	Land Capability Class						Main Problem
		II	III	IV	V	VI	VII	
1	2	3	4	5	6	7	8	9
1	Piprahwaranjitpur/2B1D8h1b	1702.02	10.778	77.91				Sheet Erosion, Class-ii, iii Gully Erosion, Class-vi High Gully Erosion,Class-v, vi,
2	Bhagwanpur -I/2B1D8i4b	446.55	5.479	15.94	285.88	42.48	67.256	
3	Lalpur Kushmahwa-I/2B1D8i4a	544.779	19.09	52.29				
4	Ahlanagar-I/2B1D8i2b	592.485	10.425	4.968	189.028	24.856	3.352	
5	Lalpur Kushmahwa-II/2B1D8j3a	298.56	0.358	0.065	42.392			
6	Bhagwanpur-II/2B1D8i3a	100.563	3.044	306.99	54.251	16.174		
7	Ahlanagar -II/2B1D8h2a	1020.07	25.149	50.645	2.08	115.423		
8	Tangpasri/2B1D8j2c	194.488	18.437	171.831	21.846	10.149	48.212	
9	Ghogwakalan/2B1D8j4a	121.637	0.792	213.747	26.792	47.76	43.92	
	Total	5021.15	93.55	894.38	622.36	256.82	162.75	

Physiography:

The micro watershed of the IWMP-I is located at an elevation of 129 to 172 m above mean sea level (msl) and Relief height difference from 12 m to 29 m. Elevation range and relief are given in Table 2.4.

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

S. No.	Watershed Code	Location		Elevation of watershed from Mean Sea level		
		Latitude (N)	Longitude (E)	Highest (M)	Lowest (M)	Relief (M)
1	2B1D8h1b	27°46'29" N to 27°49,53"N	82°1'54" E to 82°4,16" E	147	129	18
2	2B1D8i4b	27°49'5" N to 27°50,56"N	82°6'02" E to 82°7,59" E	172	143	29
3	2B1D8i4a	27°48'44" N to 27°49,23"N	82°5'10" E to 82°7,15" E	172	144	28
4	2B1D8i2b	27°47'17" N to 27°49,22"N	82°5'10" E to 82°7,15" E	152	140	12
5	2B1D8j3a	27°48'16" N to 27°51,10"N	82°4'36" E to 82°6,50" E	172	155	17
6	2B1D8i3a	27°48'09" N to 27°50,01"N	82°06'08" E to 82°08,38" E	162	143	19
7	2B1D8h2a	27°49'01" N to 27°51,25"N	82°02'04" E to 82°06,26" E	172	149	23
8	2B1D8j2c	27°46'09" N to 27°48,47"N	82°04'29" E to 82°07,47" E	172	149	23
9	2B1D8j4a	27°47'13" N to 27°49,33"N	82°07'33" E to 82°09,04" E	155	140	15

Slope: Slope map of the micro watershed was prepared using Arc GIS software. Slope was divided into different class viz. 0-0.5%, 0.5-1.0%, 1-3%, 3-5% and more than 5% and data is presented in Table 2.5 below. The maximum slope area, in the micro-watershed, falls in the category were 1-3% (2549.673 ha) followed by 3-5% (1583.265 ha)

Table 2.5: Slope Range in the Project Area

Sl. No.	Name of MWS & code	Slope range wise area (ha)						
		0-05%	0.5-1%	1-3%	3-5%	>5%		Others
						5-10%	10-15%	Specify
1	2	3	4	5	6	7	8	9
1	Pipraharanjitpur/2B1D8h1b	308.495	678.559	790.856	12.8			
2	Bhagwanpur -I/2B1D8i4b	227.468	147.256	394.061	49.444	106.381		
3	Lalpur Kushmahwa-I/2B1D8i4a	61.867	136.395	397.429	20.48			
4	Ahlanagar-I/2B1D8i2b	84.982	200.213	552.823	35.282	8.32		
5	Lalpur Kushmahwa-II/2B1D8j3a	11.448	60.711	269.15	0.065			
6	Bhagwanpur-II/2B1D8i3a	204.39	35.069	180.687	60.876			
7	Ahlanagar –II/2B1D8h2a	91.826	320.899	766.194	34.449			
8	Tangpasri/2B1D8j2c	104.522	42.233	256.505	47.623	14.08		
9	Ghogwakalan/2B1D8j4a	69.531	58.648	231.207	39.611	55.663		
	Total	1164.52	1679.98	3838.91	300.63	184.44		

Climate:

The climate of the region is characterized as arid to semi-arid with average annual rainfall less than 684 mm annually with an average of 35 rainy days. Out of which 85% is received during the monsoon season from July to September. The area received very less rainfall in the winter season. Temperature ranges from as high as 46°C in the May-June to as low as 2.5°C during December-January. The trend of the rainfall is very erratic and maximum (62%) water goes as runoff.

Table 2.6: Average monthly rainfall, and Temperature of the last five years

Month	Year/Rainfall in mm.						Temperature c	
	2004	2005	2006	2007	2008	Average	Max.	Min.
January	20	-	30	-	40	30	20	5
February	-	-	-	-	-	-	26	14
March	-	-	-	-	-	-	30	20
April	-	-	-	-	-	-	38	20
May	-	-	-	-	-	-	42	22
June	110	120	135	105	105	115	45	25
July	240	260	275	255	240	260	42	24
August	180	140	160	205	140	165	41	23
September	105	75	95	100	55	86	38	24
October	-	-	-	-	-	-	35	20
November	-	15	-	20	10	15	32	19
December	10	-	10	-	20	13	24	8

Agro-Climate Conditions

The Agro-Climate condition of the project area of Shrivasthi district is briefly described in Table 2.7 below.

Table- 2.7: DETAILS OF AGRO-CLIMATE CONDITIONS

S. No.	Name of the District	Name of the Project	Name of the Agro-climatic zone covers project area	Area in ha	No. of the villages	Major soil types		Topography	Average rainfall in mm (preceding 5 years average)	Major crops	
						a)Type	b) Area in ha			a) Name	b) Area in ha
1.	SHRAVASTI,	I.W.M.P. - I	Tarai Zone-3	6316.5	17	Fine Loamy & Coarse Loamy	3570	Undulating	715	KhariF: Paddy Til,	2370
							2746			Rabi: Wheat, Mustard, Masoor	2500
										Total	4870

Source: PPR 2009-10

The Wind velocity of the Project area ranges from 4-17 Km/hr. The open pan evaporation varied in the range of 0.5 to 20 mm/day during the year with average of about 5 mm/day. Average relative humidity varied in the range of 25% to 98%.

Table 2.8: Details of Flood and Drought in the Project Area (IWMP-I, Shravasti,)

1 Sl. No.	Name of Micro Watershed	2	3	4		5
		Particulars	Villages	Periodicity		Not affected
				Annual	Periodically	
IWMP-I SHRAVASTI	Piprahwaranjitpur/ 2B1D8h1b	Flood	No. of villages	-	-	
			Name(s) of villages	-	-	
	Bhagwanpur -I/ 2B1D8i4b	Drought	No. of villages	-	17	
	Lalpur Kushmahwa-I/ 2B1D8i4a		Name(s) of villages	-	Lalpur Kushmahwa, Balapur, Sirsiya, Ghoghwa kala, Medhikiya, Belhari, Tamgpasari	
	Ahlnadnagar-I/ 2B1D8i2b					
	Lalpur Kushmahwa-II/ 2B1D8j3a					
	Bhagwanpur-II/ 2B1D8i3a					
	Ahlnadnagar -II/ 2B1D8h2a					
	Tangpasri/ 2B1D8j2c					
	Ghogwakalan/ 2B1D8j4a					

Watershed Characteristics

Shape and Size

The shape of watershed IWMP -I, Shravasti is more or less rectangle in shape. The direction of the slope in the project area is north-west to south-east. The shape and size of the micro watershed is given in Table 2.9.

Table- 2.9: SHAPE AND SIZE OF WATERSHED

S. No.	Micro watershed Code	Area (ha)	Shape	Approximate size (m)	
				Length	Width
1	2B1D8h1b	715.00	Rectangle	5719	4173
2	2B1D8i4b	373.00	Rectangle	5457	2005
3	2B1D8i4a	226.00	Rectangle	4847	2056
4	2B1D8i2b	780.00	Rectangle	2160	2768
5	2B1D8j3a	328.00	Rectangle	2696	1889
6	2B1D8i3a	632.00	Rectangle	2725	1531
7	2B1D8h2a	484.00	Rectangle	3012	1675
8	2B1D8j2c	878.00	Rectangle	3845	1464
9	2B1D8j4a	285.00	Rectangle	4342	3265

Geomorphology:

The watershed is located in the North-East corner of the Shravasti district. The entire watershed is topographically divided into three major landforms. Accordingly, the soils of watershed can be grouped into two major categories, Such as Plain land, Moderate land, and eroded land. The annual soil erosion in the project area is 20 to 25 tons/year as detailed below.

Table- 2.10: DETAIL OF SOIL EROSION (I.W.M.P-I), SHRAVASTI,

S.N.	Name of Micro Watershed	1	2	3	4	5
		Cause	Type of erosion	Area affected (ha)	Run off (mm/ year)	Average soil loss (Tonnes/ ha/ year)
1 2 3 4 5 6 7 8 9	Piprahwaranjitpur/	Water erosion			410	15-25
	Bhagwanpur -I/	a	Sheet	4301		
	Lalpur	b	Rill	1945		
	Kushmahwa-I/	c	Gully	70.52		
	Ahlnadnagar-I/					
	Lalpur					
	Kushmahwa-II/					
	Bhagwanpur-II/					
	Ahlnadnagar -II/					
Tangpasri/						
Ghogwakalan/						
		Total		6316.52		

CHAPTER-3

BASELINE SURVEY

SOCIO-ECONOMIC CONDITIONS

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

Table 3.1: Demographic Features in the project area IWMP – I of Shravasti

SN	Name of Micro Watershed	Name of village	Total Population			Population of SC/ST		
			Total	Male	Female	Total	Male	Female
1	2	3	4	5	6	7	8	9
	2B1D8h1b, 2B1D8i4b, 2B1D8i4a, 2B1D8i2b, 2B1D8j3a, 2B1D8i3a, 2B1D8h2a, 2B1D8j2c, 2B1D8j4a,	Sachauli	87	50	35	33	20	15
		Piprahwa Ranjeetpur	1909	1136	873	332	183	149
		Sonbarsa	1415	771	644	229	132	97
		Chailahi	2395	1330	1096	184	108	76
		Bhagwanpur	2603	1508	1095	1029	596	433
		Suhelwa	2131	1235	896	842	487	355
		Belhari	2212	1264	948	329	184	145
		Ahladnagar	2840	1643	1197	1122	650	472
		Jokhniya	946	548	398	374	216	158
		koylahwa	948	549	399	375	216	159
		Gabbapur	820	475	385	331	281	215
		Ghoghwa Kala	1650	955	695	652	377	275
		Merkiya	707	409	298	279	160	119
		Tangpasari	2981	1608	1733	1178	682	496
		Lalpur Kushmahwa	2168	1254	914	857	496	361
		Balapur	1774	1026	748	701	406	295
		Sirsiya	2331	1263	1068	414	268	196
Total			29917	17024	13422	9261	5462	4016

Table 3.2: Details of Employment Generation

S. No.	Name Of District	NO. of the villages	Wage employment										Self employment				
			No. of mandays					No. of beneficiaries					No. of beneficiaries				
			SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1-	Shravasti	17	0.567	-	1.247	0.454	2.268	665	-	1195	102	1962	78	-	92	24	194

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

Sl. No.	Names of Watershed	Name of village	No. of persons migrating	No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs. in lakh)
1	2	3	4	5	6		7	8
	2B1D8h1b, 2B1D8i4b, 2B1D8i4a, 2B1D8i2b, 2B1D8j3a, 2B1D8i3a, 2B1D8h2a, 2B1D8j2c, 2B1D8j4a,	Piprahwa Ranjeetpur & Sachuli	132	51	To Earn more Money, Due to lack of Employment	700 to 1600	Labour Work	12.50
		Sonbarsa	58	65	To Earn more Money, Due to lack of Employment	700 to 1600	Labour Work	8.25
		Chailahi	38	55	To Earn more Money, Due to lack of Employment	700 to 1600	Labour Work	4.18
		Bhagwanpur & Suhelwa	198	85	To Earn more Money, Due to lack of Employment	700 to 1600	Labour Work	3.40
		Belhari	85	71	To Earn more Money, Due to	700 to 1600	Labour	13.50

					lack of Employment		Work	
		Ahladnagar	131	87	To Earn more Money, Due to lack of Employment	700 to 1600	Labour Work	22.80
		Jokhniya	117	34	To Earn more Money, Due to lack of Employment	700 to 1600	Labour Work	1.17
		koylahwa	232	66	To Earn more Money, Due to lack of Employment	700 to 1600	Labour Work	3.50
		Gabbapur	128	58	To Earn more Money, Due to lack of Employment	700 to 1600	Labour Work	12.50
		Ghoghwa Kala	215	63	To Earn more Money, Due to lack of Employment	700 to 1600	Labour Work	12.50
		Merkiya	106	59	To Earn more Money, Due to lack of Employment	700 to 1600	Labour Work	12.50

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

Horizon	Depth (cm)	Morphology
A	0-150	Brown & Black in color, clay content 28%, with free CaCO ₃ , sticky when moist, hard when dry, high elasticity, fissures and cracks, occasional occurrence of free calcium carbonate granules pH 8.0-8.5
B	150-600	Soil is poorly managed and deficient in nutrients such as zinc. Sulphur and boron etc. It lacks in organic matter and generally has slightly higher PH value
C	> 600	Brown and white sand

Soil Texture:

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

Table 3.5: Details of Soil texture in IWMP-I, Shravasti

I. No.	Area in different Soil Group (ha)			
	Light textured soil (sand, loamy sand)	Medium textured soil (Sandy loam, loam, silt loam)	Heavy textured soil (Clayey)	Others specify
IWMP-1	3225.19	2015.91	1075.42	Heavy texture soil not in bunch, Only in patches and some area of light textured soil variable, due to shifting of seasonal nala after monsoon, yearly

Table 3.6: Details of land holding pattern

1	2	3	4	5	6	7		
S. No.	Names MWS with code	Name of Village	Type of Farmer	No. of households	No. of BPL households	Land holding (ha)		
						Irrigated	Rain fed	Total
	Piprahwaranjitpur/ 2B1D8h1b Bhagwanpur -I/ 2B1D8i4b	Piprahwa Ranjeetpur & Sachuli	Large farmer	27	-	60.70	76.95	
			Small farmer	27	5	33.48	47.52	
			Marginal farmer	186	150	13.32	202.08	
			Landless person	25	6	-	-	
			Sub-Total	265	151	107.05	326.50	433.55
	Lalpur Kushmahwa-I/ 2B1D8i4a Ahladnagar-I/ 2B1D8i2b	Sonbarsa	Large farmer	30	-	8.00	28.50	
			Small farmer	33	8	15.70	20.46	
			Marginal farmer	226	160	5.40	24.04	
			Landless person	04	3	-	-	
			Sub-Total	293	171	29.10	73	1021.00
	Lalpur Kushmahwa-II/ 2B1D8j3a Bhagwanpur-II/ 2B1D8i3a	Chailahi	Large farmer	25	-	2.15	12.10	
			Small farmer	58	44	4.48	2.20	
			Marginal farmer	77	64	0.42	2.42	
			Landless person	16	12	-	-	
			Sub-Total	176	110	7.05	16.72	23.77
	Ahladnagar -II/ 2B1D8h2a Tangpasri/ 2B1D8j2c	Bhagwanpur & Suhelwa	Large farmer	08	-	49.60	22.24	
			Small farmer	35	7	50.32	55.65	
			Marginal farmer	140	102	106.48	693.81	
			Landless person	10	08	-	-	
			Sub-Total	193	117	206.40	771.70	978.10
	Ghogwakalan/ 2B1D8j4a	Belhari	Large farmer	29	-	28.35	49.01	
			Small farmer	72	05	23.27	72.00	
			Marginal farmer	264	132	20.10	63.54	
			Landless person	16	13	-	-	
			Sub-Total	281	150	71.72	184.55	256.27
		Ahladnagar,	Large farmer	14	-	27.60	40.46	

		Jokhniya & koylahwa	Small farmer	34	03	16.74	57.46	
			Marginal farmer	1109	401	168.12	599.93	
			Landless person	13	06	-	-	
			Sub-Total	1170	410	212.46	697.85	910.31
		Gabbapur	Large farmer	12	-	23.10	34.80	
			Small farmer	36	8	16.52	63.36	
			Marginal farmer	111	104	14.34	47.14	
			Landless person	46	39	-	-	
			Sub-Total	205	151	53.96	145.30	199.26
		Ghoghwa Kala & Medhakiya	Large farmer	22	-	46.74	60.50	
			Small farmer	75	24	29.60	121.50	
			Marginal farmer	307	198	32.08	101.90	
			Landless person	83	76	-	-	
			Sub-Total	487	298	108.42	283.90	392.32
		Tangpasari	Large farmer	20	-	59.60	59	
			Small farmer	55	20	29.45	98.45	
			Marginal farmer	155	133	3.15	83.19	
			Landless person	02	02	-	-	
			Sub-Total	232	155	92.20	240.64	332.84
		Lalpur Kushmahwa & Balapur	Large farmer	21	-	108.29	58.59	
			Small farmer	130	25	204.10	143.00	
			Marginal farmer	1136	302	30.16	577.60	
			Landless person	16	13	-	-	
			Sub-Total	1303	340	342.55	779.19	1121.74
		Sirsiya	Large farmer	39	-	10.05	40.00	
			Small farmer	59	17	2.30	47.00	
			Marginal farmer	157	54	2.34	30.40	
			Landless person	99	71	-	-	
			Sub-Total	354	142	14.70	117.40	132.10

Table 3.7: Major Crops, their Productivity and Production

Due to mono cropping and non manageable condition of soil are the specific characteristics of the district. Mono cropping is the most common farming system. Mixed farming in the combination of agriculture and live stock is also quite common in the project area. Details of grown crops, their productivity and production are given below:

S.No	Crop.	Area (ha)		Productivity (q/ha)		Production (q)			
		Irrigated	Rainfed	Irrigated	Rainfed	Grain/Main product		Fodder/Fuel/other Product	
						Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Paddy	200.53	736.50	0.00	8.00	0.00	5892.00	0.00	8838.00
2	Maize	0.00	875.98	0.00	1.47	0.00	1287.69	0.00	1931.54
3	Arhar	0.00	435.26	0.00	7.87	0.00	3425.50	0.00	5138.24
4	Urd/Mung	0.00	41.00	0.00	5.08	0.00	208.28	0.00	208.28
5	vegetables (Cropwise)	21.50	0.00	0.00	220.40	0.00	21788.74	0.00	21788.74
6	Fodder	27.50	98.86	0.00	0.00	0.00	0.00	0.00	0.00
..	Other, specify	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	249.53	2187.60				32602.21		37904.80
B	Rabi								
1	Wheat	485.65	854.25	25.00	18.00	12141.25	15376.50	1890.00	23064.75
2	Barley	0.00	0.00	0.00	10.47	0.00	0.00	0.00	0.00
3	Masoor	0.00	1073.27	0.00	4.80	0.00	5151.70	0.00	6439.62
4	Gram	0.00	5.60	0.00	6.56	0.00	36.74	0.00	45.92
5	Pea	0.00	7.50	0.00	10.43	0.00	78.23	0.00	78.23
6	Mustard	0.00	496.35	0.00	4.26	0.00	2114.45	0.00	3171.68
7	Potato	20.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	vegetables (Cropwise)	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	Fodder	0.00	12.70	0.00	0.00	0.00	0.00	0.00	0.00
..	Other, specify	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	513.85	2449.67	25.00	54.52	12141.25	22757.61	1890.00	32800.19
C	Zaid								
	Sugarcane	269		0		0		0	
	Cultivable Area	3880		Cropping Intensity		146.13			

Summary

It was found that the wheat, Gram, Paddy, Arhar and Masoor are mainly grown in the project area. Overall cropping intensity of the project area is 146.13%.

3.9 Horticulture Status

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

Table 3.8: Horticulture Status

S. N.	Name of micro watershed with code	Name of village	Name of Important horticultural crop						
			Whole Fruit Crop				Scattered Fruit Crop		
			Name	Area ha	Productivity q/ha	Production q	No.	Productivity q/ha	Production q
1	2	3	4	5	6		7	8	
	Piprahwaranjitpur/ 2B1D8h1b Bhagwanpur -I/ 2B1D8i4b Lalpur Kushmahwa-I/ 2B1D8i4a Ahladnagar-I/ 2B1D8i2b Lalpur Kushmahwa-II/ 2B1D8j3a Bhagwanpur-II/ 2B1D8i3a Ahladnagar -II/ 2B1D8h2a Tangpasari/ 2B1D8j2c Ghogwakalan/ 2B1D8j4a	Piprahwa Ranjeetpur & Sachuli	Mango & Guava	2.25	345	9150	146	1.25 Per Tree	3736.00
		Sonbarsa	Mango	1.20			82		
		Chailahi	Mango	0.24			32		
		Bhagwanpur & Suhelwa	Mango	4.42			804		
		Belhari	Mango	1.20			105		
		Ahladnagar, Jokhniya & koylahwa	Mango & Guava	5.12			570		
		Gabbapur	Mango & Guava	2.05			140		
		Ghoghwa Kala & Merkiya	Mango & Guava	3.70			380		
		Tangpasari	Mango	1.82			115		
		Lalpur Kushmahwa & Balapur	Mango & Guava	3.05			405		
		Sirsiya	Mango & Guava	1.48			210		
		Total		26.53	345	9150	2989	1.25	3736.00

Table 3.9: Forest, Vegetative Cover/Grass Land

Project- IWMP I						District - Shravasti						
S. No.	Name of micro watershed with code	Name of village	Forest (Area ha)			Grass Land (Area ha)		Other vegetative cover (Area ha)				
			Reserve	Gram Samaj (Natural/Planted)	Total	Gram Samaj	Private	Gram Samaj	Private			
1	2	3	4	5	6	7		8	9			
	Piprahwaranjitpur/ 2B1D8h1b	Piprahwa Ranjeetpur & Caculi	-	-	-	8.22	-	15.00	1.13			
	Bhagwanpur -I/ 2B1D8i4b	Sonbarsa	-	-	-		-					
		Chailahi	-	-	-		-					
	Lalpur Kushmahwa-I/ 2B1D8i4a	Bhagwanpur & Suhelwa	-	-	-		-					
		Belhari	-	-	-		-					
	Ahlnadnagar-I/ 2B1D8i2b	Ahlnadnagar, Jokhniya & koylahwa	-	-	-		-					
		Gabbapur	-	-	-		-					
	Lalpur Kushmahwa-II/ 2B1D8j3a	Ghoghwa Kala & Merkiya	-	-	-		-					
	Bhagwanpur-II/ 2B1D8i3a	Tangpasari	-	-	-		-					
	Ahlnadnagar –II/ 2B1D8h2a	Lalpur Kushmahwa & Balapur	-	-	-		-					
	Tangpasri/ 2B1D8j2c	Sirsiya	-	-	-							
	Ghogwakalan/ 2B1D8j4a											
			-	-	-		-					

Livestock Population

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

Table 3.10: Livestock Population in IWMP- I, Shravasti

S. No.	Name of Micro watershed with code.	Name of Village	Cow		Buffalow		Ox/Bull	Goat	Sheep	Piggeries	Poultry		
			Desi	Crossed	Desi	Murrah					Broiler	Layers	Total
1	2	3	4		5	6	7	7	8	9	10	11	12
1	Piprahwaranjitpur/2B1D8h1b	Piprahwa Ranjeetpur & Sachuli	118		89		28	134	-		-	70	70
	Bhagwanpur -I/2B1D8i4b	Sonbarsa	85		42		26	115	-	-	-	110	110
	Lalpur Kushmahwa-I/2B1D8i4a	Chailahi	135		32		18	75	-	-	-	40	40
	Ahladnagar-I/2B1D8i2b	Bhagwanpur & Suhelwa	680		130		150	440	42	-	-	380	380
	Lalpur Kushmahwa-II/2B1D8j3a	Belhari	110		43		24	116	-	-	60	115	185
	Bhagwanpur-II/2B1D8i3a	Ahladnagar, Jokhniya & koylahwa	710		49		34	105	-	25	220	560	780
	Ahladnagar -II/2B1D8h2a	Gabbapur	146		58		34	154	-	-	43	108	201
	Tangpasri/2B1D8j2c	Ghoghwa Kala & Merkiya	282		105		62	239	-	-	106	315	421
	Ghogwakalan/2B1D8j4a	Tangpasari	120		75		28	128	-	35	60	115	175
		Lalpur Kushmahwa & Balapur	80		42		26	438	-	-	210	425	635
		Sirsiya	128		46		30	380	178	48	680	1290	1970

Table 3.11: Details of Livestock Productivity

Project- IWMP I

District- Shravasti

S. N.	Name of Micro watershed with code.	Name of Village	Milk Production (Liter Per day)				Goatry	Poultry		Piggeries weight Kg/Pig
			Cows		Buffalos		Weight in Kg/goat	Broiler Weight in Kg/ Brl	Layers No. of eggs/day	
			Desi	Crossed	Desi	Murrah				
1	2	3	4	5	6	7		9	10	11
	Piprahwaranjitpur/ 2B1D8h1b	Piprahwa Ranjeetpur & Sachuli	0.50	-	2.00	-	12.00	1.25	58	
	Bhagwanpur -I/ 2B1D8i4b	Sonbarsa	0.50	-	2.00	-	12.00	1.25	90	
		Chailahi	0.50	-	2.00	-	12.00	1.25	35	
	Lalpur Kushmahwa-I/ 2B1D8i4a	Bhagwanpur & Suhelwa	0.50	-	2.00	-	12.00	1.25	342	
	Ahladnagar-I/ 2B1D8i2b	Belhari	0.50	-	2.00	-	12.00	1.25	99	
		Ahladnagar, Jokhniya & koylahwa	0.50	-	2.00	-	12.00	1.25	408	
		Gabbapur	0.50	-	2.00	-	12.00	1.25	141	
	Lalpur Kushmahwa-II/ 2B1D8j3a	Ghoghwa Kala & Merkiya	0.50	-	2.00	-	12.00	1.25	289	
	Bhagwanpur-II/ 2B1D8i3a	Tangpasari	0.50	-	2.00	-	12.00	1.25	89	
		Lalpur Kushmahwa & Balapur	0.50	-	2.00	-	12.00	1.25	403	
	Tangpasri/ 2B1D8j2c	Sirsiya	0.50	-	2.00	-	12.00	1.25	1156	
	Ghogwakalan/ 2B1D8j4a									

Table 3.12: Livelihood Status of Landless People
Project- IWMP I

District - Shravasti

S. N.	Name of Micro watershed with code.	Name of Village	Name of Livelihood Activity	No. of house hold engaged					Pre project Average Income	Desired Activities	Expected Income from desired activities	Remarks
				Sc	St	Other	Women	Total				
1		3	4	5	6	7	8	9	10	11	12	13
	Piprahwaranjitpur/ 2B1D8h1b	Piprahwa Ranjeetpur & Sacvhuri	Agri. Labour	4	-	6	-	10	100/120 Rs. Per Day	Dairy, Goat Keeping Poultry, Fisheries, Aqua Farming, Basket Making, Rope Making, Band Baja, Tea Stall, Carpentry, Bee Keeping	600 per day	
	Bhagwanpur -I/ 2B1D8i4b	Sonbarsa	Agri. Labour	1	-	3		4				
	Lalpur Kushmahwa-I/ 2B1D8i4a	Chailahi	Agri. Labour, Rope maker	6	-	4	2	12				
	Ahladnagar-I/ 2B1D8i2b	Bhagwanpur & Suhelwa	Agri. Labour	12	-	27	3	42				
	Lalpur Kushmahwa-II/ 2B1D8j3a	Belhari	Agri. Labour	6	-	9	1	16				
	Bhagwanpur-II/ 2B1D8i3a	Ahladnagar, Jokhniya & koylahwa	Agri. Labour	14	-	32	4	50				
	Ahladnagar -II/ 2B1D8h2a	Gabbapur	Agri. Labour	14	-	23	3	40				
	Tangpasri/ 2B1D8j2c	Ghoghwa Kala & Merkiya	Agri. Labour	22	-	47	4	72				
	Ghogwakalan/ 2B1D8j4a	Tangpasari	Agri. Labour	11	-	19	2	32				
		Lalpur Kushmahwa & Balapur	Agri. Labour	6	-	31	-	37				
		Sirsiya	Agri. Labour	12	-	21	2	35				

Table 3.13: Details of Livelihood Status Other Farmers

Project- IWMP I

District - Shravasti

S. N.	Name of Micro watershed with code.	Name of Village	Name of Livelihood Activity	No. of Persons engaged					Pre project Average Income	Desired Activities	Expected Income from desired activities	Remarks
				Sc	St	Other	Women	Total				
1	2	3	4	5	6	7	8	9	10	11	12	13
	Piprahwaranjitpur/ 2B1D8h1b	Piprahwa Ranjeetpur & Sachuli	Agri. Forming only	5	-	4	3	12	Based on Agri. Production	Dairy, Goat Keeping Poultry, Fisheries, Aqua Farming, Basket Making, Rope Making, Band Baja, Tea Stall, Carpentry, Bee Keeping	600 per day	
	Bhagwanpur -I/ 2B1D8i4b	Sonbarsa		1	-	8	2	11				
		Chailahi		4	-	6	4	14				
	Lalpur Kushmahwa-I/ 2B1D8i4a	Bhagwanpur & Suhelwa		3	-	7	1	11				
		Belhari		2	-	8	3	13				
	Ahlnadnagar-I/ 2B1D8i2b	Ahlnadnagar, Jokhniya & koylahwa		5	-	5	4	14				
	Lalpur Kushmahwa-II/ 2B1D8j3a	Gabbapur		4	-	4	2	10				
		Ghoghwa Kala & Merkiya		2	-	6	1	9				
	Bhagwanpur-II/ 2B1D8i3a	Tangpasari		3	-	8	3	14				
	Ahlnadnagar -II/ 2B1D8h2a	Lalpur Kushmahwa & Balapur		1	-	7	4	12				
	Tangpasri/ 2B1D8j2c	Sirsiya		4	-	4	2	10				
	Ghogwakalan/ 2B1D8j4a											

Present Livelihood Status (No. of households/Income per year)
Project- IWMP I

District- Shravasti
Income in Rs

S. N.	Name of Micro watershed with code.	Name of Village	Activities																				
			Dairy		Poultry		Goatry		Piggeries		Fisheries		Blacksmith		Carpentry		Stitching/ knitting		Wages		Others (Specify)		
			No	Av. income	No	Av. income	No	Av. income	No	Av. income	No	Av. income	No	Av. income	No	Av. income	No	Av. income	No	Av. income	No	Av. income	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	Piprahwaranjitpur/ 2B1D8h1b	Piprahwa Ranjeetpur & Sachuli	-	-	12	26000	-	-	-	-	-	-	-	-	1	21000	-	-	23	8400	-	-	
	Bhagwanpur -I/ 2B1D8i4b	Sonbarsa	3	191000	16	28000	-	-	-	-	-	-	-	-	1	24000	-	-	25	7600	-	-	
		Chailahi	-	-	6	24000	-	-	-	-	-	-	-	-	2	22000	-	-	18	7500	-	-	
	Lalpur Kushmahwa-I/ 2B1D8i4a	Bhagwanpur & Suhelwa	-	-	38	19000	-	-	1	24000	-	-	-	-	3	36000	-	-	40	6800	-	-	
		Belhari	-	-	9	21000	-	-	-	-	-	-	-	-	1	11000	-	-	21	5600	-	-	
	Ahladnagar-I/ 2B1D8i2b	Ahladnagar, Jokhniya & koylahwa	-	-	27	38000	-	-	-	-	-	-	-	-	5	60000	-	-	47	6200	-	-	
	Lalpur Kushmahwa-II/ 2B1D8j3a	Gabbapur	-	-	17	9000	-	-	-	-	-	-	-	-	2								
		Ghoghwa Kala & Merkiya	-	-	32	16000	-	-	-	-	-	-	-	-	4	46000	-	-	35	7300	-	-	
	Bhagwanpur-II/ 2B1D8i3a	Tangpasari	-	-	9	17000	-	-	-	-	-	-	-	-	1	14000	-	-	28	8100	-	-	
	Ahladnagar -II/ 2B1D8h2a	Lalpur Kushmahwa & Balapur	-	-	13	42000	-	-	2	34000	-	-	-	-	3	39000	-	-	55	7900	-	-	
	Tangpasri/ 2B1D8j2c	Sirsiya		-	-	21	15000	-	-	1	18000	-	-	-	-	3	45000	-	-	37	8700	-	-
	Ghogwakalan/ 2B1D8i4a1.																						

Irrigation Status

S.No.	Name of Micro watershed with code.	Name of Village	Gross Cultivated Area				Net Cultivated Area	Gross Irrigated Area				Net Irrigated Area	Rainfed Area
			Kharif	Rabi	Zaid	Total		Kharif	Rabi	Zaid	Total		
1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Piprahwaranjitpur/ 2B1D8h1b Bhagwanpur -I/ 2B1D8i4b	Sachuli Piprahwa Ranjeetpur, Sonbarsa, Chailahi, Jokhniya, Koilhawa, Gabbapur	733.51	525.50	48.00	1307.01	759.09	165.00	200.58	48.58	414.16	200.58	3880
	Lalpur Kushmahwa-I/ 2B1D8i4a Ahladnagar-I/ 2B1D8i2b Lalpur Kushmahwa-II/ 2B1D8j3a Bhagwanpur-II/ 2B1D8i3a Ahladnagar -II/ 2B1D8h2a Tangpasri/ 2B1D8j2c Ghogwakalan/ 2B1D8j4a1.	Ahladnagar, Koilhawa, Lalpur Kushmahwa Balapur, Sirsiya, Belhari, Bhagwanpur Gabbapurt, Bhagwanpur, Suhelwa, Ahladnagar, Jokhniya, Koilahwa, Balapur Lalpur Kushmahwa, Balapur, Ghoghwa Kala, Medhikiya, Belhari, Tangpasari, Sirsiya	1667.31	1666.30	315.00	3648.61	1867.31	196.70	396.70	269.50	862.90	596.70	
			1386.25	1212.13	92.30	2690.68	1412.13	292.38	342.38	70.30	706.06	342.38	
			1259.47	1154.30	122.60	2536.41	1314.47	288.34	343.34	87.00	718.68	343.34	
Total			5046.54	4558.27	577.90	6898.71	5363	2713.42	1283.00	476.38	2701.80	1483	

Source wise Area Irrigated

Project- IWMP I

District - Shravasti

Area in ha.

S. No.	Name of Micro watershed with code.	Name of Village	Canal Area	State Tube wells		Tanks		Open well		Bore wells		Lift irrigation		Others (Specify)		Total Irrigated Area	Remarks
				No.	Area	No.	Area	No.	Area	No.	Area	No.	Area	No.	Area		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	Piprahwaranjitpur/ 2B1D8h1b	Piprahwa Ranjeetpur & Sachuli	38	-	-	-		1		27						1483	
	Bhagwanpur -I/ 2B1D8i4b	Sonbarsa	45			2		2		25							
		Chailahi				1		1		3							
	Lalpur Kushmahwa-I/ 2B1D8i4a	Bhagwanpur & Suhelwa				3		2		53		14					
		Belhari				-		1		21		6					
	Ahladnagar-I/ 2B1D8i2b	Ahladnagar, Jokhniya & koylahwa	77			5		1		165		12					
		Gabbapur						-									
	Lalpur Kushmahwa-II/ 2B1D8j3a	Ghoghwa Kala & Merkiya				4		2		23							
	Bhagwanpur-II/ 2B1D8i3a	Tangpasari				-		1		37							
	Ahladnagar –II/ 2B1D8h2a	Lalpur Kushmahwa & Balapur				2		1		10							
	Tangpasri/ 2B1D8j2c	Sirsiya				2		2		38		7					
	Ghogwakalan/ 2B1D8j4a1.																
Total			1218.80			19	47.50	14	2.80	302	135.90	39	78.00				

Ground Water Status

Project- IWMP I

District - Shravasti

S. No.	Name of Micro watershed with code.	Name of Block	Depth of Ground Water Table (Below Ground level) in Meter		No. of Observation well	Remarks
			Before Monsoon	After Monsoon		
1	2	3	4	5	6	7
	Piprahwaranjitpur/ 2B1D8h1b Bhagwanpur -I/ 2B1D8i4b Lalpur Kushmahwa-I/ 2B1D8i4a Ahladnagar-I/ 2B1D8i2b Lalpur Kushmahwa-II/ 2B1D8j3a Bhagwanpur-II/ 2B1D8i3a Ahladnagar -II/ 2B1D8h2a Tangpasri/ 2B1D8j2c Ghogwakalan/ 2B1D8j4a	Sirsiya	6.00	4.50	5	

Details of infrastructure in the project areas*

Project- IWMP I

District - Shravasti

S N	Name of Micro Watershed		Parameters		Status			
1	2	3	4		5			
	Piprahwaranjitpur / 2B1D8h1b		(i)	Name of villages connected to the main road by an all-weather road	Yes			
	Bhagwanpur -I/ 2B1D8i4b		(ii)	Village's Name provided with electricity	Yes			
	Lalpur Kushmahwa-I/ 2B1D8i4a		(iii)	No. of households without access to drinking water	1480			
	Ahlanagar-I/ 2B1D8i2b		(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) Yes	(S) Yes	(HS) No	(VI) No
	Lalpur Kushmahwa-II/ 2B1D8j3a		(v)	Names of villages with access to Primary Health Centre	No			
	Ahlanagar -II/ 2B1D8h2a		(vi)	Names of villages with access to Veterinary Dispensary	No			
	Tangpasri/ 2B1D8j2c		(vii)	Names of villages with access to Post Office	No			
	Ghogwakalan/ 2B1D8j4a		(viii)	Names of villages with access to Banks	No			
			(ix)	Names of villages with access to Markets/ mandis	No			
			(x)	Names of villages with access to Agro-industries	Yes			
			(xi)	Total quantity of surplus milk deficit	deficit			
			(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) No	(S) No	(PA) Yes	(O) No
			(xiii)	Name of villages with access to Anganwadi Centre	Yes			
			(xiv)	Any other facilities with names of villages (please specify)	Weekly local Market facility Available			
			(i)	Name of villages connected to the main road by an all-weather road	Yes			
			(ii)	Village's Name provided with electricity	Yes			

	(iii)	No. of households without access to drinking water	2235			
	(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) yes	(S) Yes	(HS) No	(VI) No
	(v)	Names of villages with access to Primary Health Centre	No			
	(vi)	Names of villages with access to Veterinary Dispensary	No			
	(vii)	Names of villages with access to Post Office	No			
	(viii)	Names of villages with access to Banks	No			
	(ix)	Names of villages with access to Markets/ mandis	No			
	(x)	Names of villages with access to Agro-industries	Yes			
	(xi)	Total quantity of surplus milk deficit	deficit			
	(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) No	(S) No	(PA) Yes	(O) No
	(xiii)	Name of villages with access to Anganwadi Centre	Yes			
	(xiv)	Any other facilities with names of villages (please specify)	Weekly local Market facility Available			
	(i)	Name of villages connected to the main road by an all- weather road	Yes			
	(ii)	Village's Name provided with electricity	Yes			
	(iii)	No. of households without access to drinking water	2630			
	(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) Yes	(S) Yes	(HS) Yes	(VI) No
	(v)	Names of villages with access to Primary Health Centre	No			
	(vi)	Names of villages with access to Veterinary Dispensary	No			
	(vii)	Names of villages with access to Post Office	No			
	(viii)	Names of villages with access to Banks	No			
	(ix)	Names of villages with access to Markets/ mandis	No			
	(x)	Names of villages with access to Agro-industries	Yes			
	(xi)	Total quantity of surplus milk deficit	deficit			

		(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) No	(S) No	(PA) Yes	(O) Yes
		(xiii)	Name of villages with access to Anganwadi Centre	Yes			
		(xiv)	Any other facilities with names of villages (please specify)	Weekly local Market facility Available			
		(i)	Name of villages connected to the main road by an all- weather road	Yes			
		(ii)	Village's Name provided with electricity	Yes			
		(iii)	No. of households without access to drinking water	1865			
		(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) Yes	(S) Yes	(HS) Yes	(VI) Yes
		(v)	Names of villages with access to Primary Health Centre	Yes			
		(vi)	Names of villages with access to Veterinary Dispensary	Yes			
		(vii)	Names of villages with access to Post Office	Yes			
		(viii)	Names of villages with access to Banks	Yes			
		(ix)	Names of villages with access to Markets/ mandis	Yes			
		(x)	Names of villages with access to Agro-industries	Yes			
		(xi)	Total quantity of surplus milk deficit	deficit			
		(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) No	(S) No	(PA) Yes	(O) No
		(xiii)	Name of villages with access to Anganwadi Centre	Yes			
		(xiv)	Any other facilities with names of villages (please specify)	Market Facility available			

DETAILS OF COMMON PROPERTY RESOURCES IN THE PROJECT AREA

Project- IWMP I

District- Shravasti

1	2	3	4	5				6			
S. No.	Names of MWS with code		CPR Particulars	Total Area (ha) Area owned/ In possession of				Area available for treatment (ha)			
				Pvt. persons	Govt. (Specify deptt.)	PRI	Any other (Pl. Specify)	Pvt. persons	Govt. (specify deptt.)	PRI	Any other (Pl. Specify)
	Piprahwaranjitpur/ 2B1D8h1b	Sirsiya	(i) Wasteland/ degraded land	66.02	-			66.02	1.06		
	Bhagwanpur -I/ 2B1D8i4b		(ii) Pastures	-	-						
	Lalpur Kushmahwa-I/ 2B1D8i4a		(iii) Orchards	2.56	-						
	Ahladnagar-I/ 2B1D8i2b		(iv) Village Woodlot	-	-						
	Lalpur Kushmahwa-II/ 2B1D8j3a		(v) Forest	-	-						
	Bhagwanpur-II/ 2B1D8i3a		(vi) Village Ponds/ Tanks	1.06	-						
	Ahladnagar -II/ 2B1D8h2a		(vii) Community Buildings	-	0.12						
	Tangpasri/ 2B1D8j2c		(viii) Weekly Markets	-	-						
	Ghogwakalan/ 2B1D8j4a		(ix) Permanent markets	4.00							
			(x) Temples/ Places of worship	0.01	-						
			(xi) Others (Pl. specify)		-						

For more Detail Can See the Project File

The details of PRA exercise in the Project Area



SOCIAL & RESOURCES MAP VILLAGE AHLADNAGAR



SOCIAL & RESOURCES MAP VILLAGE SUHELWA



GROUP DISCUSSION IN VILLAGE MAP AHLADNAGAR



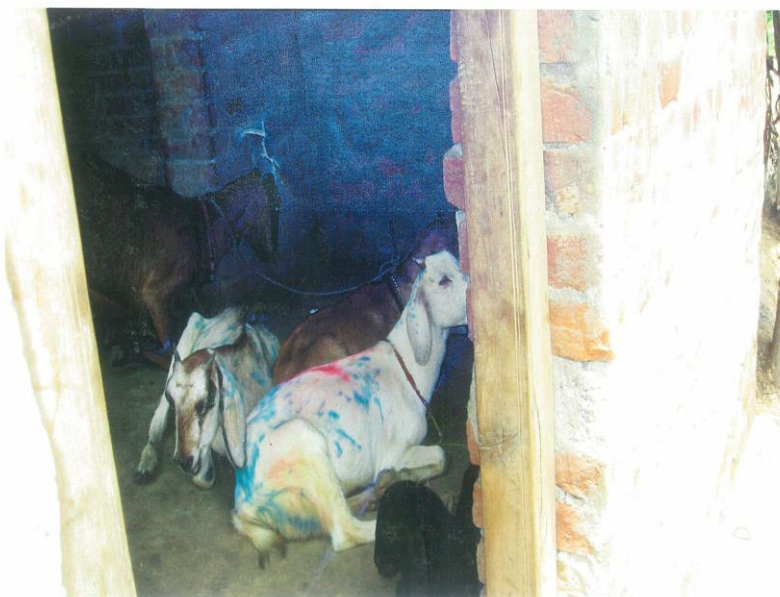
GROUP DISCUSSION IN VILLAGE MAP SUHELWA



WATER RESOURCES VILLAGE CHAILAHI



SOCIAL & RESOURCES MAP CHAILAHI



INCOME GENERATION PROGRAME CHAILAHI



GROUP DISCUSSION VILL. CHAILAHI

CHAPTER - 4

INSTITUTION BUILDING & PROJECT MANAGEMENT

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

Table 4.1: Details of Project Implementing Agency (PIA)
Project- IWMP I **District - Shravasti,**

S. No.	Particulars of PIA	
1	2	3
(i)	Date of selection of PIA	
(ii)	Type of organization#	Line Department
(iii)	Name of organization	Land Development & Water Resources
(iv)	Designation & Address	Bhoomi Sanrakshan Adhikari
(v)	Telephone	05250222337
(vi)	Fax	05250222337
(vii)	E-mail	bsaldwrsv-up@nic.in

Table 4.2: Details of Staff at PIA

S. NO.	Designation	Name	M/F	Qualification	Field of Experience & Period	Remarks
1	2	3		4	5	6
1	Bhoomi Sanrakshan Adhikari I/O	Sri N.K. Singh	M	B.Tech	32 Year	
2	Junior Engineer	Sri R.B. Yadav	M	Diploma in Mech. Engineering	20 Years	
3	Junior Engineer	Sri R.C. Tiwari	M	Diploma in Civil Engineering	30 Year	
4	Accountant	Sri R.P. Shukla	M	M.Com.	32 Years	
5	Accountant	Sri V.K. Verma	M	M.Com.	32 Years	
6	Tracer	Sri S.P. Mishra	M	Intermediate	32 Years	
7	Senior Clerk	Sri R.P. Ravat	M	B.A.	32 Years	
8	Junior Clerk	Sri Abdul Tawwab	M	Intermediate	32 Years	
9	Junior Clerk	Sri V.K. Shrivastwa	M	M.A.	32 Years	
10	Junior Clerk	Sri R.K. Shrivastwa	M	B.A.	32 Years	
11	A.S.C.I.	Sri Ramgyan Mauriya	M	B.Sc.(Ag)	05 Year	
12	A.S.C.I.	Sri B.K. Gautam	M	B.Sc.(Ag)	08 Year	
13	A.S.C.I.	Sri Vinay Kumar	M	M.Sc.(Ag), Ph.D.	08 Year	
14	A.S.C.I.	Sri J.R. Sharma	M	Diploma(Ag.)	32 Year	
15	Seench Paryavekhak	Sri R.K. Shrivastwa	M	B.A.	32 Year	
16	Munshi	Sri B.D. Gupta	M	Intermediate	32 Year	
17	Seenchpal	Sri Ram Narayan	M	High School	30 Year	
18	Seenchpal	Sri Ran Kumar	M	Intermediate	29 Year	
19	Seenchpal	Sri Shyan Avadh	M	Intermediate	34 Year	
20	Fourth Class	Sri Sambhu Mauriya	M	High School	28 Year	
21	Fourth Class	Sri Jagdeesh	M	High School	28 Year	
22	Fourth Class	Sri Basant Lal	M	High School	30 Year	
23	Fourth Class	Sri Bans Raj Yadav	M	Literate	31 Year	
24	Fourth Class	Sri Ram Prasad	M	Intermediate	03 Year	
25	Fourth Class	Sri Rameshwar Prasad	M	High School	32 Year	

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

The Watershed Development Team (WDT): It is an integral part of the PIA. WDT will assist gram Sabha in a) constitution of Watershed Committee and its functioning, b) organize and strengthening User groups, Self Help Groups, c) conducting participatory baseline survey, d) training and Capacity Building, e) preparing detailed resource development plan including Soil & Water Conservation, f) undertake engineering surveys, g) prepare engineering drawings and cost estimate for structure to be built.

Table 4.3: Details of Watershed Development Team (WDT) in the project area
Project- IWMP - I PIA- BSA, LDWR, District - Shravasti

1	2	3	4	5	6	7	8
S. N.	Name of WDT member	M/F	Age	Qualification / Experience	Description of professional training	Role/ Function##	Date of appointment of WDT member
1	Sri R.B. Yadev	M	55 Year	Diploma in Agri Engineering/ 20 Years	LDWR	J.E.	1992
2	Sri. B K. Gautam	M	32 Year	B.Sc. (Ag.)/ 8 Year	LDWR	A.S.C.I	2004
3	Sri C.S. Tripathi	M	28 Year	M.A. (Socio)	LDWR	W.D.T.	2011
4	Sri V.K. Shukla	M	31 Year	B.Sc. (Ag)	LDWR	W.D.T.	2011
5	Sri A.K. Tiwari	M	25 Year	B.Sc. (Ag)	LDWR	W.D.T.	2011
6	Sri Mussaraf Ali	M	27 Year	Diploma in Agri Engineering	LDWR	W.D.T.	2011

Watershed Committees:

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

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

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

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

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

Table 4.4: Details of Watershed Committee (WC)

**Name of Project:- IWMP -I, District- SHRAVASTI,
Details of Watershed Committee (WC)**

Name of Micro watershed- Ahlad Nagar Name of Project:- IWMP I District- Shravasti

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Sl. No.	Name of Gram Sabha/ GP	Date of Constitution/ Registration as a Society (dd/mm/yyyy)	Designation	M/F	SC	ST	SF	MF	LF	Land-less	UG	SHG	GP	Any other	Educational qualification	Function(s) assigned#
	Sirsiya	27.10.2010/ 08.07.2011	President	M			√				√	√			Graduate	
			Secretary	M							√		√			
			Member	M	√			√					√		literate	
			Member	M	√			√					√			
			Member	M	√			√					√			

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

Formation of Self Help Groups:

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

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

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

Table 4.5, Details of Formation of Self Help Groups**IWMP-I****District- Shravasti**

S . N .	Name of micro watershed	Name of village	Name of group	Date of constitution	Name of Adhyaksh	Name of Sachiv	Total No. of Members				Name of Bank and Address	Account No. & Date	Up to date Saving Rs.	Group activities
							Women	Sc / St	Other	Total				
1	2	3	4		5	6	7	8	9	10	11	12		13
	Ghpghw a lal	Sirsiy a	Sri Bhole Baba SHG		Sri Pyare	Sri Sundar	-	8	3	11				
			Sri Radhe Krishna SHG		Sri Teerath Ram	Sri Sitaram		9	2	11				
			Prabhu Nath Ji SHG		Sri hajuri Prasad	Sri Gyan Shandra		5	6	11				
			Sri Kali Man SHG		Sri Deve Prasad	Sri Ram Das Maurya		3	8	11				
			Jai Sri Santishi man		Sri Jai Pattar	Sri Putti lal		3	8	11				
			Sri Sonpathri Baba SHG		Sri Bekaru	Sri Parash Nath		1	10	11				
			Sri hanuman		Sri Aslam	Sri Ram sagar		4	7	11				
			Jai Bheem SHG		Sri Ram Sevak	Sri Ghanshya m		1	10	11				
			Nirankari		Sri	Sri Maya		1	10	11				

			SHG		Chinta ram	ram								
			Sri Saheb SHG		Smt. Sudhra	Smt. Samundr a	11			11				
			Man Chauriya dai SHG		Smt. Dhanda i	Smt. Savitri Devi	11			11		-		

User groups:

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

Table 4.7: Details of User Groups

1		2	3				4				5			6			7
S N	Name of Micro watershed with code	Names of villages	Total no. of UGs				No. of members				No. of SC/ST in each category			No. of BPL in each category			Date of formation of UGs
			Men	Wome n	Both	Total	Categories	M	F	Total	M	F	Total	M	F	Total	
1	Ghoghwa Kala	Sirsiya	8	6	2	16	(i) Landless	-	-	-	-	-	-	-	-	-	-
							(ii) SF			55			18		-		16.12.2010
							(iii) MF			72			52		2		
							(iv) LF			1			-		-		

Table 4.10: List of Central/State sponsored schemes

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

Table 4.11: Details of Convergence of IWMP with other Schemes in IWMP- I, Shravasti, (Rs. In Lakh)

S. No.	Name of Micro Watershed	Names of Departments with Schemes converging with IWMP	Fund made available to IWMP due to convergence (Rs. in lakh)	Was this fund included in Rs.12,000/ 15,000 per ha.		Name of activity/task/structure undertaken with converged funds	Reference no. of activity/ task/ structure in DPR®	Level at which decision for convergence was taken\$	
				Yes	No				
1	2	3	4	5	6	7	8	9	10
1	2B1D8h1b	MNREGA	2.584			Structures			
2	2B1D8h2a	MNREGA	1.508			Structures			
3	2B1D8i2b	MNREGA	1.960			Structures			
4	2B1D8i3a	MNREGA	1.584			Structures			
5	2B1D8i4a	MNREGA	0.712			Structures			
6	2B1D8i4b	MNREGA	0.676			Structures			
7	2B1D8j2c	MNREGA	1.936			Structures			
8	2B1D8j3a	MNREGA	0.936			Structures			
9	2B1D8j4a	MNREGA	0.920			Structures			
	Total for project		12.816						

CHAPTER – 5

MANAGEMENT / ACTION PLAN

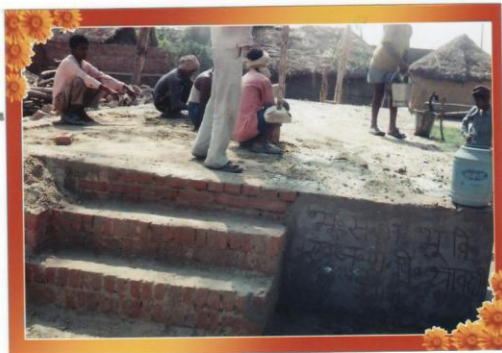
ENTRY POINT ACTIVITY (EPA)

EPA activities are taken up under watershed projects to newly build or repair the already existing structures with the consultation of village community at the beginning of the project; generally, certain important works which are in urgent demand of the local community are taken up. A group Discussion was conducted with watershed Development Committee regarding the EPA activity, it was conveyed to the WC that an amount of 22.56 Lakhs was allotted for EPA activity, which was 4 per cent of total allocated budget. The villagers discussed various activities which they felt is important but after a brief discussion it was conveyed to them that only those activities can be taken, which revive the common natural resources. It was also taken into priority that there should be an instrument of convergence which will result in sustainability of activities.

In total 48 EPA activities were executed in the project area with a budget of Rs. 22.56 Lakhs. Photographs of Entry Point Activities done in the project are given below:

आई0डब्लू0एम0पी0- प्रथम् योजनान्तर्गत किसान विकास मंच निर्माण का कार्य
परियोजना- लालपुर कुशमहवा, चयनित वर्ष 2009-10, विकास खण्ड- सिरसिया

कार्य के मध्य की स्थिति



कार्य के बाद की स्थिति

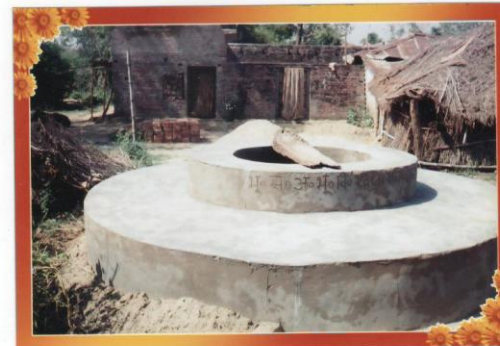


आई0डब्लू0एम0पी0- प्रथम् योजनान्तर्गत कूप मरम्मत का कार्य
परियोजना- लालपुर कुशमहवा, चयनित वर्ष 2009-10, विकास खण्ड- सिरसिया

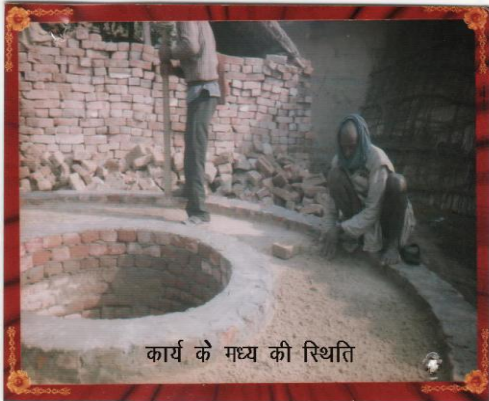
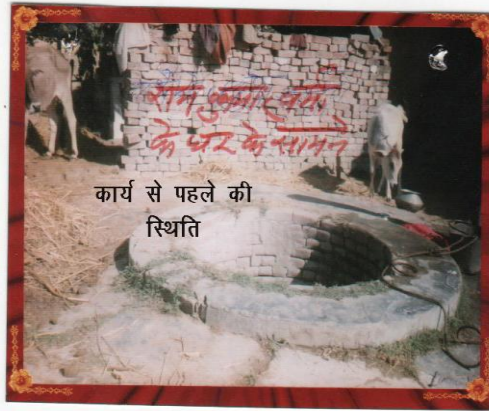
कार्य से पहले की स्थिति



कार्य के बाद की स्थिति



आई0डब्लू0एम0पी0- प्रथम् योजना के अन्तर्गत कूप मरम्मत का कार्य
परियोजना- पिपरहवा रंजीतपुर, चयनित वर्ष 2009-10



आई0डब्लू0एम0पी0- प्रथम् योजनान्तर्गत कूप मरम्मत का कार्य
परियोजना- पिपरहवा रंजीतपुर, चयनित वर्ष 2009-10

कार्य से पहले की स्थिति



कार्य के मध्य की स्थिति



कार्य के बाद की स्थिति





Table 5.1: Entry point activities (EPA)

S. No.	Code of The Project	Amount Earmarked for EPA	Entry Point Activities	Estimated Cost (Rs. in Lakh)
1	2B1D8h1b	22.56	1-Repair of Well 2-Soaking Pit 3- Kisan vikas manch	3.43
2	2B1D8h2a			2.32
3	2B1D8i2b			3.74
4	2B1D8i3a			3.03
5	2B1D8i4a			1.08
6	2B1D8i4b			1.79
7	2B1D8j2c			4.21
8	2B1D8j3a			1.57
9	2B1D8j4a			1.37

The details and each and every activity would be available on concern project file.

Details of Livelihood Activities in the project area

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

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

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

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

Table 5.2: LIVELIHOOD ACTION PLAN-LAP**YEARWISE FINANCIAL PHASING OF LIVELIHOOD ACTIVITIES IWMP-I, DISTRICT- Sharvasti**

Amount in Lacs

S. No.	Micro watershed	Project Area	Proposed Amount	Livelihood Activities 9% of the Total project Cost					
				2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
1	2B1D8h1b	715	7.72	0.00	0.86	2.15	2.15	2.57	7.72
2	2B1D8h2a	484	5.23	0.00	0.58	1.45	1.45	1.74	5.23
3	2B1D8i2b	780	8.42	0.00	0.94	2.34	2.34	2.81	8.42
4	2B1D8i3a	632	6.83	0.00	0.76	1.90	1.90	2.28	6.83
5	2B1D8i4a	226	2.44	0.00	0.27	0.68	0.68	0.81	2.44
6	2B1D8i4b	373	4.03	0.00	0.45	1.12	1.12	1.34	4.03
7	2B1D8j2c	878	9.48	0.00	1.05	2.63	2.63	3.16	9.48
8	2B1D8j3a	328	3.54	0.00	0.39	0.98	0.98	1.18	3.54
9	2B1D8j4a	285	3.08	0.00	0.34	0.86	0.86	1.03	3.08
	Total	4701	50.77	0.00	5.64	14.10	14.10	16.92	50.77

GRAM PANCHAYAT WISE FINANCIAL PHASING OF LIVELIHOOD ACTIVITIES, IWMP-I, DISTRICT- Sharvasti

CODE- 2B1D8h1b

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Proposed Amount	Livelihood Activities 9% of the Total project Cost					
				2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
1	Ahalad Nagar	84	0.91	0.00	0.10	0.25	0.25	0.30	0.91
2	Sonebarasa	94	1.02	0.00	0.11	0.28	0.28	0.34	1.02
3	Chailahi	25	0.27	0.00	0.03	0.08	0.08	0.09	0.27
4	Piprahwa Ranjitpur	421	4.55	0.00	0.51	1.26	1.26	1.52	4.55
5	Gabbapur	91	0.98	0.00	0.11	0.27	0.27	0.33	0.98
	Total	715	7.72	0.00	0.86	2.15	2.15	2.57	7.72

GRAM PANCHAYAT WISE FINANCIAL PHASING OF LIVELIHOOD ACTIVITIES, IWMP-I, DISTRICT- Sharvasti

CODE-2B1D8h2a

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Proposed Amount	Livelihood Activities 9% of the Total project Cost					
				2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
1	Gabbapur	101.00	1.09	0.00	0.12	0.30	0.30	0.36	1.09
2	Bhagwanpur	183.00	1.98	0.00	0.22	0.55	0.55	0.66	1.98
3	Ahalad Nagar	200.00	2.16	0.00	0.24	0.60	0.60	0.72	2.16
	Total	484.00	5.23	0.00	0.58	1.45	1.45	1.74	5.23

GRAM PANCHAYAT WISE FINANCIAL PHASING OF LIVELIHOOD ACTIVITIES, IWMP-I, DISTRICT- Sharvasti

CODE-2B1D8i2b

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Proposed Amount	Livelihood Activities 9% of the Total project Cost					
				2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
1	Ahalad Nagar	470.00	5.08	0.00	0.56	1.41	1.41	1.69	5.08
3	Sirsiya	160.00	1.73	0.00	0.19	0.48	0.48	0.58	1.73
4	Belhari	150.00	1.62	0.00	0.18	0.45	0.45	0.54	1.62
	Total	780.00	8.42	0.00	0.94	2.34	2.34	2.81	8.42

GRAM PANCHAYAT WISE FINANCIAL PHASING OF LIVELIHOOD ACTIVITIES, IWMP-I, DISTRICT- Sharvasti

CODE-2B1D8i3a

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Proposed Amount	Livelihood Activities 9% of the Total project Cost					
				2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
1	Ahalad Nagar	146.00	1.58	0.00	0.18	0.44	0.44	0.53	1.58
2	Bhagwanpur	365.00	3.94	0.00	0.44	1.10	1.10	1.31	3.94
3	Lalpur Kushmahwa	121.00	1.31	0.00	0.15	0.36	0.36	0.44	1.31
4	Sirsia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	632.00	6.83	0.00	0.76	1.90	1.90	2.28	6.83

GRAM PANCHAYAT WISE FINANCIAL PHASING OF LIVELIHOOD ACTIVITIES, IWMP-I, DISTRICT- Sharvasti

CODE-2B1D8i4a

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Proposed Amount	Livelihood Activities 9% of the Total project Cost					
				2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
1	Bhagwanpur	17.00	0.18	0.00	0.02	0.05	0.05	0.06	0.18
2	Lalpur Kushmahwa	209.00	2.26	0.00	0.25	0.63	0.63	0.75	2.26
3	Sirsia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	226.00	2.44	0.00	0.27	0.68	0.68	0.81	2.44

GRAM PANCHAYAT WISE FINANCIAL PHASING OF LIVELIHOOD ACTIVITIES, IWMP-I, DISTRICT- Sharvasti

CODE-2B1D8i4b

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Proposed Amount	Livelihood Activities 9% of the Total project Cost					
				2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
1	Bhagwanpur	336.00	3.63	0.00	0.40	1.01	1.01	1.21	3.63
2	Lalpur Kushmahwa	37.00	0.40	0.00	0.04	0.11	0.11	0.13	0.40
	Total	373.00	4.03	0.00	0.45	1.12	1.12	1.34	4.03

GRAM PANCHAYAT WISE FINANCIAL PHASING OF LIVELIHOOD ACTIVITIES, IWMP-I, DISTRICT- Sharvasti

CODE-2B1D8j2c

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Proposed Amount	Livelihood Activities 9% of the Total project Cost					
				2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
1	Lalpur Kushmahwa	113.00	1.22	0.00	0.14	0.34	0.34	0.41	1.22
2	Ghogwa Kala	244.00	2.64	0.00	0.29	0.73	0.73	0.88	2.64
3	Sirsya	145.00	1.57	0.00	0.17	0.44	0.44	0.52	1.57
4	Belhari	114.00	1.23	0.00	0.14	0.34	0.34	0.41	1.23
5	Tangpasri	262.00	2.83	0.00	0.31	0.79	0.79	0.94	2.83
	Total	878.00	9.48	0.00	1.05	2.63	2.63	3.16	9.48

GRAM PANCHAYAT WISE FINANCIAL PHASING OF LIVELIHOOD ACTIVITIES, IWMP-I, DISTRICT- Sharvasti

CODE-2B1D8j3a

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Proposed Amount	Livelihood Activities 9% of the Total project Cost					
				2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
1	Lalpur Kushmahwa	328.00	3.54	0.00	0.39	0.98	0.98	1.18	3.54
2	Ghogwa Kala	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	328.00	3.54	0.00	0.39	0.98	0.98	1.18	3.54

GRAM PANCHAYAT WISE FINANCIAL PHASING OF LIVELIHOOD ACTIVITIES, IWMP-I, DISTRICT- Sharvasti

CODE-2B1D8j4a

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Proposed Amount	Livelihood Activities 9% of the Total project Cost					
				2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
1	Lalpur Kushmahwa	115.00	1.24	0.00	0.14	0.35	0.35	0.41	1.24
2	Ghogwa Kala	170.00	1.84	0.00	0.20	0.51	0.51	0.61	1.84
	Total	285.00	3.08	0.00	0.34	0.86	0.86	1.03	3.08

DETAILS OF LIVELIHOOD ACTIVITIES AT GLANCE UNDER IWMP-I, DISTRICT-SHRAVASTI

S. No.	Gram Panchayat	General Merchant Shop						Goat Keeping						Poultry					
		2009-10	2010-11	2011-12	2012-13	2013-14	Total	2009-10	2010-11	2011-12	2012-13	2013-14	Total	2009-10	2010-11	2011-12	2012-13	2013-14	Total
1	Ahalad Nagar		1			1	2			1		1	2					1	1
2	Sonebarasa			1		1	2		1		1	1	3			1	1	1	3
3	Chailahi				1	2	3					1	1		1			1	2
4	Piprahwa Ranjitpur			1		1	2					2	2					2	2
5	Gabbapur			1		2	3				1	1	2			1		1	2
6	Sirsya		2	1	1	1	5		2	1	1	1	5		2		1	1	4
7	Belhari			1		1	2				1	2	3					2	2
8	Tangpasri			1	1	2	4			1	1	1	3					1	1
9	Lalpur Kushmahwa					1	1				1	1	2			1		2	3
10	Ghogwa Kala			1		1	2					2	2			1	1	1	3
11	Bhagwanpur		1		1	2	4			1		1	2			1		1	2
	Total	0	4	7	4	15	30	0	3	4	6	14	27	0	3	5	3	14	25

Dairy						Rope Making						Sheep Keeping						Piggery					
2009-10	2010-11	2011-12	2012-13	2013-14	Total	2009-10	2010-11	2011-12	2012-13	2013-14	Total	2009-10	2010-11	2011-12	2012-13	2013-14	Total	2009-10	2010-11	2011-12	2012-13	2013-14	Total
	1	1		1	3			1		1	2			1		1	2			1		1	2
				1	1				1	1	2		2	1	1	1	5		1		2	1	4
			1	1	2			1		2	3			1		2	3					1	1
	1	1	1	2	5		1			1	2		1	1		1	3		1	1	1	1	4
	1		1	1	3				1	2	3			1	1	2	4				1	1	2
	1		1	1	3		1	1	1	1	4		2	1		1	4		1		2	1	4
			1	1	2		1		1	1	3			1		2	3			1	1	1	3
	1	1	1	1	4				1	2	3				1	2	3		1		2	1	4
			1	1	2			1	1	1	3		1	1		1	3					1	1
		1		1	2				1	2	3			1		1	2		1	1	1	1	4
	1			1	2				1	1	2		1			1	2					1	1
0	6	4	7	12	29	0	3	4	8	15	30	0	7	9	3	15	34	0	5	4	10	11	30

General Merchant Shop @ Rs. 23000/- per shop.

Goat Keeping @ Rs. 25000/- per Goat and 02 Goat will be given per beneficiary costin Rs. 3000/- per number

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

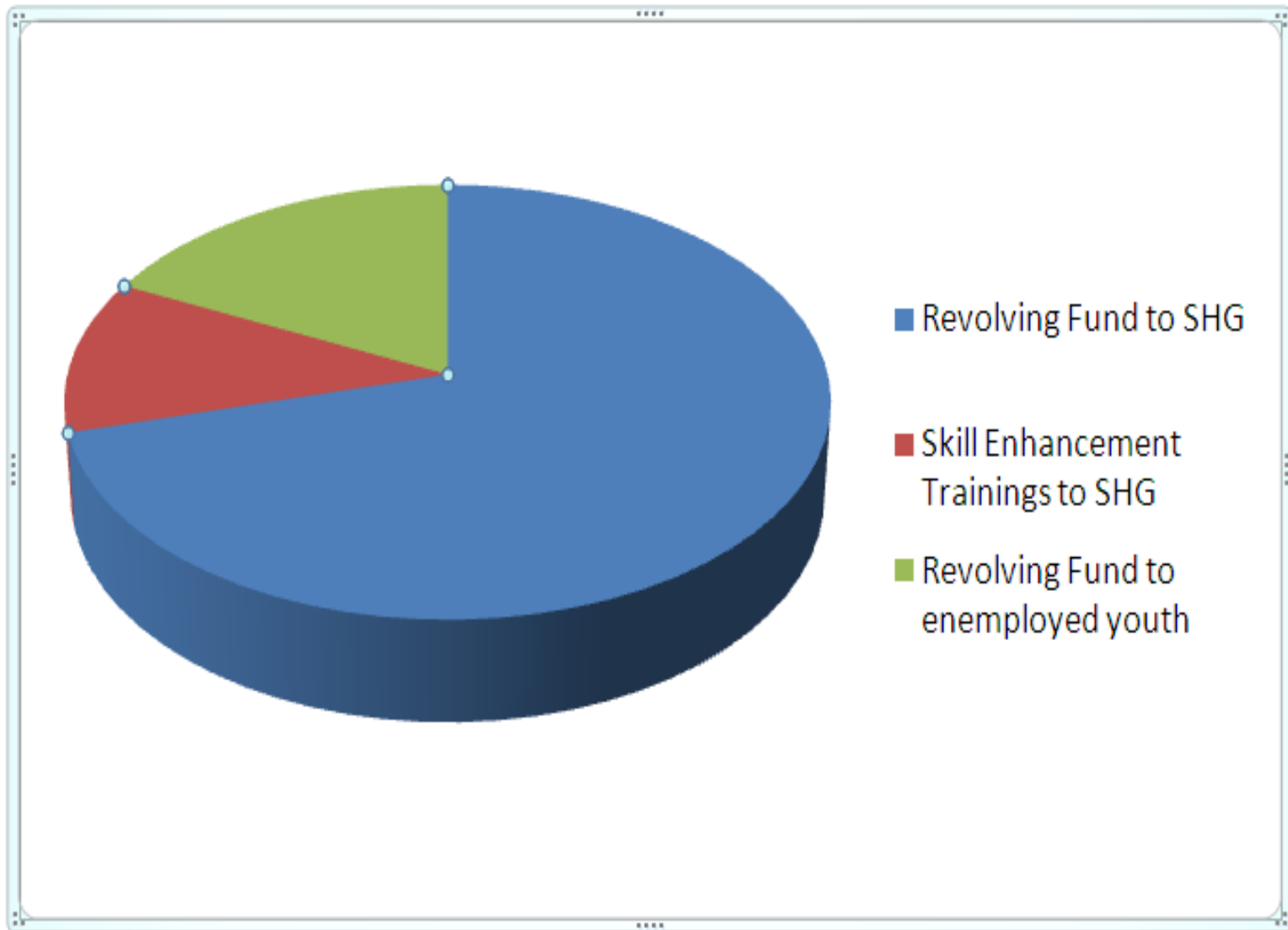
Deary @ Rs. 25000/- per beneficiary

Rope Making @ Rs. 20000/- per beneficiary

Sheep Reaing @ Rs. 15000/- per beneficiary

Pigrise @ Rs. 25000/- per beneficiary

Livelihood Expenditure on Different Activities



ACTIVITIES RELATED TO SHGs: Activities relating to income generation have been identified after several discussions with village communities. However final discussion in this regard will be taken after SHGs matures for 1st grading.

There appears to be great potential for these activities and these activities are likely to generate income of Rs.2000/- to Rs.2500/- per member/per month. However no activities would be forced upon any SHGs and they would be free to decide the activity they would like to opt for their additional income. Based on their choice, Project report for the specified activity would be prepared and revolving fund of Rs.20000/Rs.25000/- per SHG would be given for running their respective micro enterprise. If need arises for more funds for their Income Generation Activities at later stage, they would be assisted in getting loan from banks. SHGs thus formed would be provided all possible assistance to uplift for their Socio-Economic upliftment.

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

FARM PRODUCTION SYSTEM (10%)

Micro watershed WISE FINANCIAL PHASING OF PRODUCTION & MICRO ENTERPRISES, IWMP-I, DISTRICT- Sharvasti

Amount in Lacs

S. No.	Micro watershed	Project Area	Proposed Amount	Production System & Microenterprises 10% of the Total Project Cost					
				2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
1	2B1D8h1b	715	8.58	0.00	0.86	2.15	2.15	3.43	8.58
2	2B1D8h2a	484	5.81	0.00	0.58	1.45	1.45	2.32	5.81
3	2B1D8i2b	780	9.36	0.00	0.94	2.34	2.34	3.74	9.36
4	2B1D8i3a	632	7.58	0.00	0.76	1.90	1.90	3.03	7.58
5	2B1D8i4a	226	2.71	0.00	0.27	0.68	0.68	1.08	2.71
6	2B1D8i4b	373	4.48	0.00	0.45	1.12	1.12	1.79	4.48
7	2B1D8j2c	878	10.54	0.00	1.05	2.63	2.63	4.21	10.54
8	2B1D8j3a	328	3.94	0.00	0.39	0.98	0.98	1.57	3.94
9	2B1D8j4a	285	3.42	0.00	0.34	0.86	0.86	1.37	3.42
	Total	4701	56.41	0.00	5.64	14.10	14.10	22.56	56.41

GRAM PANCHAYAT WISE FINANCIAL PHASING OF PRODUCTION & MICRO ENTERPRISES, IWMP-I, DISTRICT-Sharvasti

CODE- 2B1D8h1b

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Proposed Amount	Production System & Microenterprises 10% of the Total Project Cost					
				2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
1	Ahalad Nagar	84	1.01	0.00	0.10	0.25	0.25	0.40	1.01
2	Sonebarasa	94	1.13	0.00	0.11	0.28	0.28	0.45	1.13
3	Chailahi	25	0.30	0.00	0.03	0.08	0.08	0.12	0.30
4	Piprahwa Ranjitpur	421	5.05	0.00	0.51	1.26	1.26	2.02	5.05
5	Gabbapur	91	1.09	0.00	0.11	0.27	0.27	0.44	1.09
	Total	715.00	8.58	0.00	0.86	2.15	2.15	3.43	8.58

GRAM PANCHAYAT WISE FINANCIAL PHASING OF PRODUCTION & MICRO ENTERPRISES, IWMP-I, DISTRICT-Sharvasti

CODE-2B1D8h2a

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Proposed Amount	Production System & Microenterprises 10% of the Total Project Cost					
				2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
1	Gabbapur	101.00	1.21	0.00	0.12	0.30	0.30	0.48	1.21
2	Bhagwanpur	183.00	2.20	0.00	0.22	0.55	0.55	0.88	2.20
3	Ahalad Nagar	200.00	2.40	0.00	0.24	0.60	0.60	0.96	2.40
	Total	484.00	5.81	0.00	0.58		2.90	2.32	5.81

**GRAM PANCHAYAT WISE FINANCIAL PHASING OF PRODUCTION & MICRO ENTERPRISES, IWMP-I,
DISTRICT- Sharvasti**

CODE-2B1D8i2b

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Proposed Amount	Production System & Microenterprises 10% of the Total Project Cost					
				2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
1	Ahalad Nagar	470.00	5.64	0.00	0.56	1.41	1.41	2.26	5.64
3	Sirsiya	160.00	1.92	0.00	0.19	0.48	0.48	0.77	1.92
4	Belhari	150.00	1.80	0.00	0.18	0.45	0.45	0.72	1.80
	Total	780.00	9.36	0.00	0.94	2.34	2.34	3.74	9.36

**GRAM PANCHAYAT WISE FINANCIAL PHASING OF PRODUCTION & MICRO ENTERPRISES, IWMP-I,
DISTRICT- Sharvasti**

CODE-2B1D8i3a

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Proposed Amount	Production System & Microenterprises 10% of the Total Project Cost					
				2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
1	Ahalad Nagar	146.00	1.75	0.00	0.18	0.44	0.44	0.70	1.75
2	Bhagwanpur	365.00	4.38	0.00	0.44	1.10	1.10	1.75	4.38
3	Lalpur Kusmahwa	121.00	1.45	0.00	0.15	0.36	0.36	0.58	1.45
4	Sirsia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	632.00	7.58	0.00	0.76	1.90	1.90	3.03	7.58

GRAM PANCHAYAT WISE FINANCIAL PHASING OF PRODUCTION & MICRO ENTERPRISES, IWMP-I, DISTRICT-Sharvasti

CODE-2B1D8i4a

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Proposed Amount	Production System & Microenterprises 10% of the Total Project Cost					
				2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
1	Bhagwanpur	17.00	0.20	0.00	0.02	0.05	0.05	0.08	0.20
2	Lalpur Kusmahwa	209.00	2.51	0.00	0.25	0.63	0.63	1.00	2.51
3	Sirsia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	226.00	2.71	0.00	0.27	0.68	0.68	1.08	2.71

GRAM PANCHAYAT WISE FINANCIAL PHASING OF PRODUCTION & MICRO ENTERPRISES, IWMP-I, DISTRICT-Sharvasti

CODE-2B1D8i4b

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Proposed Amount	Production System & Microenterprises 10% of the Total Project Cost					
				2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
1	Bhagwanpur	336.00	4.03	0.00	0.40	1.01	1.01	1.61	4.03
2	Lalpur Kusmahwa	37.00	0.44	0.00	0.04	0.11	0.11	0.18	0.44
	Total	373.00	4.48	0.00	0.45	1.12	1.12	1.79	4.48

GRAM PANCHAYAT WISE FINANCIAL PHASING OF PRODUCTION & MICRO ENTERPRISES, IWMP-I, DISTRICT-Sharvasti

CODE-2B1D8j2c

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Proposed Amount	Production System & Microenterprises 10% of the Total Project Cost					
				2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
1	Lalpur Kushmahwa	113.00	1.36	0.00	0.14	0.34	0.34	0.54	1.36
2	Ghogwa Kala	244.00	2.93	0.00	0.29	0.73	0.73	1.17	2.93
3	Sirsya	145.00	1.74	0.00	0.17	0.44	0.44	0.70	1.74
4	Belhari	114.00	1.37	0.00	0.14	0.34	0.34	0.55	1.37
5	Tangpasri	262.00	3.14	0.00	0.31	0.79	0.79	1.26	3.14
	Total	878.00	10.54	0.00	1.05	2.63	2.63	4.21	10.54

GRAM PANCHAYAT WISE FINANCIAL PHASING OF PRODUCTION & MICRO ENTERPRISES, IWMP-I, DISTRICT-Sharvasti

CODE-2B1D8j3a

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Proposed Amount	Production System & Microenterprises 10% of the Total Project Cost					
				2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
1	Lalpur Kushmahwa	328.00	3.94	0.00	0.39	0.98	0.98	1.57	3.94
2	Ghogwa Kala	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	Total	328.00	3.94	0.00	0.39	0.98	0.98	1.57	3.94

**GRAM PANCHAYAT WISE FINANCIAL PHASING OF PRODUCTION & MICRO ENTERPRISES, IWMP-I, DISTRICT-
Sharvasti**

CODE-2B1D8j4a

Amount in Lacs

S. No.	GRAM PANCHAYAT	Project Area	Proposed Amount	Production System & Microenterprises 10% of the Total Project Cost					
				2009-10	2010-11	2011-12	2012-13	2013-14	TOTAL
1	Lalpur Kushmahwa	115.00	1.38	0.00	0.14	0.35	0.35	0.55	1.38
2	Ghogwa Kala	170.00	2.04	0.00	0.20	0.51	0.51	0.82	2.04
	Total	285.00	3.42	0.00	0.34	0.86	0.86	1.37	3.42

Details of Details of Production System & Micro-Enterprises activities:

Type	Crop Demonstration Details	
Rabi Season	Wheat	Sorghum
	<ol style="list-style-type: none"> Variety K 8027 , NW-1012, 1076, HDR-77, Raj -107 Sowing Time: 15 November to 25 December Seed rate – 100 -125 Kg/ hectare Requirement of fertilizers / ha N- 125 Kg , P- 70 -75 Kg, K-70-75 Kg FYM: 60 Ou. Flowering Period: 80 to 85 days. Crop Duration: 120-145 days. Harvesting time : April to May Yield: Irrigated: 50-60 Q/ha Un-irrigated: 30-35 Q/ha <p>Note- Hence demonstration cost of wheat /ha is Rs 13000.00 and the Total cost increases @ 10 % for next year</p>	<ol style="list-style-type: none"> Variety: CSH-16, 9, 14, CSB-13, 15 Requirement of Seed /ha - 15 kg Sowing Time - 15 th July to 15 th August Requirement of fertilizers/ha N- 60.0 Kg , P- 40.00Kg, K- 40.00 Kg Fertilizers requirement / ha N- 80.0 Kg , P- 50Kg, K- 40 Kg FYM: 50q Flowering Period: 80-85 days. Crop Duration: 120 to 130 days. Harvesting time : 25 September to 5 October Yield: Grain: 18-20 q/ha Dry Fodder: 200-250q/ha <p>Note- Hence demonstration cost of SORGHUM /ha is Rs 6500.00 and the Total cost increases @ 10 % for next year.</p>
Kharif Season	Arahar	Maize
	<ol style="list-style-type: none"> Variety -Long Durition: Malviya -13 NA -1, NA-2 Short Duration: UPAS-120, ICPL-151, 8801 Seed rate /ha – 20 Kg Sowing Time: June-July Fertilizers requirement / ha N- 20.0 Kg , P- 50Kg, K- 40 Kg FYM: 50 Q Flowering Period: Long Duration:160 to 175 days. Short Duration: 110-120 days Crop Duration: Long Duration: 270-280 days. Short Duration: 130-140 days Harvesting time : Long Duration: March To April, Short Duration: November to December Yield : Long Duration: 18-20 Q/ha Short Duration: 20-25 Q/ha <p>Note- Hence demonstration cost of Arahar /ha is Rs 10000.00 and the Total cost increases @ 10 % for next year.</p>	<ol style="list-style-type: none"> Variety: Hybrid: Ganga-2, 11, Shaktiman, Dakkan-7, Prakash, Sartaj Sankul: Tarun, Naveen, Kanchan, Sweta, Prabhat, Gaurav Requirement of Seed /ha - 15 kg l Sowing Time - 15 th July to 15 th August Requirement of fertilizers / ha N- 60.0 Kg , P- 40.00Kg, K- 40.00 Kg Fertilizers requirement / ha N- 80.0 Kg , P- 50Kg, K- 40 Kg FYM: 50 Q Flowering Period: 80-85 days. Crop Duration: 120 to 130 days. Harvesting time : 25 September to 5 October Yield: Grain: 18-20 Q/ha Dry Fodder: 200-250 Q/ha <p>Note- Hence demonstration cost of SORGHUM /ha is Rs 6500.00 and the Total cost cost increases @ 10 % for next year.</p>

	Seed Distribution	Distribution of high yield variety seed of Arhar, Wheat and maize, etc.
	Animal Husbandry	Organize of health camp animals, and feed for animals.
	Agriculture Toolkit	Distribution of agriculture toolkit to the individual.

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

Annual Action Plan of Watershed Development Works

MAJOR PROBLEMS OF THE WATERSHEDS

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

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

Annual Action Plan of IWMP-Ist, Shravasti

Financial Phasing of Watershed Works										Fin. : in Lacs								
For Project sanctioned 2009-10										Gram Panchayat - Ahalad Nagar								
	Activity	Target as AAP												Actual Achievement				
		2009-10		2010-11		2011-12		2012-13		2013-14		Total		2010-11		2011-12		Justification
		PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	
Land Development	Afforestation																	
	Scattered Plantation	0.00	0.00	11.45	0.69	35.00	1.85	35.00	1.85	34.00	1.82	115.45	6.21					
	Agriculture																	
	Pasture																	
SMC	Staggered trenching																	
	Contour Bund	0.00	0.00	27.00	0.61	30.00	0.50	28.00	0.58	28.00	0.57	113.00	2.26					
	Peripheral Bund																	
	Marginal Bund	0.00	0.00	54.00	2.96	188.50	10.66	187.50	10.52	164.55	10.36	594.55	34.50					
Veg. & Engg. Structures	Earthen Checks																	
	Brushwood Checks																	
	Gully Plugs																	
	Loose Boulders																	
	Gabion Structures																	
	Others																	
WHS	Farm Ponds	0.00	0.00	25.00	0.90							25.90	0.90					
	Check dams/Tanks					2/17.50	5.57	2/17.50	5.57	2/17.00	5.47	52.00	16.61					
	Nallah Bunds																	
	Percolation Tanks																	
	Ground Water Recharge Structures																	
	Others WHB/SB																	
Livelihood	on-Farm activities		0.00		0.30		1.17		0.87		0.58		2.92					
	off-Farm activities		0.00		0.68		2.72		2.04		1.36		6.80					
	Pdn. System		0.00		0.91		3.62		3.88		2.39		10.80					
	Total	0.00	0.00	117.45	7.05	253.50	26.09	250.50	25.31	226.55	22.55	900.90	81.00					

Financial Phasing of Watershed Works														Fin. : in Lacs				
For Project sanctioned 2009-10														Gram Panchayat - Sonebarasa				
	Activity	Target as AAP												Actual Achievement				Justification
		2009-10		2010-11		2011-12		2012-13		2013-14		Total		2010-11		2011-12		
		PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	
Land Development	Afforestation																	
	Scattered Plantation	0.00	0.00	2.75	0.17	1.05	0.13	2.70	0.20	2.50	0.15	9.00	0.64					
	Agriculture																	
	Pasture																	
SMC	Staggered trenching																	
	Contour Bund	0.00	0.00	22.00	1.65	19.60	0.56	19.20	0.70	13.40	0.34	74.20	3.25					
	Peripheral Bund																	
	Marginal Bund	0.00	0.00			3.80	0.13	1.95	0.13	2.15	0.14	7.90	0.40					
Veg. & Engg. Structures	Earthen Checks																	
	Brushwood Checks																	
	Gully Plugs																	
	Loose Boulders																	
	Gabion Structures																	
	Others																	
WHS	Farm Ponds					1.75	1.13					1.75	1.13					
	Check dams/Tanks							1.15	0.91			1.15	0.91					
	Nallah Bunds																	
	Percolation Tanks																	
	Ground Water Recharge Structures																	
	Others WHB/SB																	
Livelihood	on-Farm activities		0.00		0.03		0.12		0.09		0.06		0.30					
	off-Farm activities		0.00		0.08		0.28		0.21		0.14		0.71					
	Pdn. System		0.00		0.09		0.38		0.41		0.25		1.13					
	Total	0.00	0.00	24.75	2.02	26.20	2.72	25.00	2.65	18.05	1.07	94.00	8.46					

Financial Phasing of Watershed Works													Fin. : in Lacs					
For Project sanctioned 2009-10													Gram Panchayat - Gabbapur					
	Activity	Target as AAP												Actual Achievement				
		2009-10		2010-11		2011-12		2012-13		2013-14		Total		2010-11		2011-12		Justification
		PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	
Land Development	Afforestation																	
	Scattered Plantation	0.00	0.00	0.00	0.00	7.50	0.45	8.20	0.45	7.60	0.40	23.30	1.30					
	Agriculture																	
	Pasture																	
SMC	Staggered trenching																	
	Contour Bund	0.00	0.00	0.00	0.00	19.70	0.43	24.15	0.75	4.90	0.18	48.75	1.35					
	Peripheral Bund	0.00	0.00	0.00	0.00	13.10	1.14	9.75	0.50	24.00	1.48	46.85	3.12					
	Marginal Bund	0.00	0.00	0.00	0.00	22.60	1.37	0.00	0.00	34.00	1.90	56.60	3.27					
Veg. & Engg. Structures	Earthen Checks																	
	Brushwood Checks																	
	Gully Plugs																	
	Loose Boulders																	
	Gabion Structures																	
	Others																	
WHS	Farm Ponds					5.10	1.10					5.10	1.10					
	Check dams/Tanks							11.40	2.77			11.40	2.77					
	Nallah Bunds																	
	Percolation Tanks																	
	Ground Water Recharge Structures																	
	Others WHB/SB																	
Livelihood	on-Farm activities		0.00		0.06		0.25		0.19		0.12		0.62					
	off-Farm activities		0.00		0.15		0.58		0.44		0.29		1.46					
	Pdn. System		0.00		0.19		0.77		0.83		0.51		2.30					
	Total	0.00	0.00	0.00	0.40	68.00	6.08	53.50	5.93	70.50	4.88	192.00	17.28					

Financial Phasing of Watershed Works														Fin. : in Lacs				
For Project sanctioned 2009-10							Gram Panchayat - Piprahwa Ranjitpur											
	Activity	Target as AAP												Actual Achievement				
		2009-10		2010-11		2011-12		2012-13		2013-14		Total		2010-11		2011-12		Justification
		PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	
Land Development	Afforestation																	
	Scattered Plantation	0.00	0.00	4.00	0.24	17.00	0.87	17.00	0.86	17.00	0.86	55.00	2.83					
	Agriculture																	
	Pasture																	
SMC	Staggered trenching																	
	Contour Bund	0.00	0.00	15.00	1.04	50.00	3.67	70.00	2.30	74.00	2.56	209.00	9.57					
	Peripheral Bund	0.00	0.00	8.00	0.43	33.00	2.20	25.00	1.26			66.00	3.89					
	Marginal Bund	0.00	0.00	9.00	0.59	29.00	1.95			20.00	0.98	58.00	3.52					
Veg. & Engg. Structures	Earthen Checks																	
	Brushwood Checks																	
	Gully Plugs																	
	Loose Boulders																	
	Gabion Structures																	
	Others																	
WHS	Farm Ponds																	
	Check dams/Tanks																	
	Nallah Bunds																	
	Percolation Tanks																	
	Ground Water Recharge Structures																	
	Others WHB/SB							2/16	4.24	2/17	4.24	4/33	8.48					
Livelihood	on-Farm activities		0.00		0.14		0.55		0.41		0.27		1.37					
	off-Farm activities		0.00		0.32		1.27		0.95		0.64		3.18					
	Pdn. System		0.00		0.42		1.69		1.82		1.12		5.05					
	Total	0.00	0.00	36.00	3.18	129.00	12.20	112.00	11.84	111.00	10.67	388.00	37.89					

Financial Phasing of Watershed Works											Fin. : in Lacs							
For Project sanctioned 2009-10											Gram Panchayat - Bhagwanpur							
	Activity	Target as AAP												Actual Achievement				
		2009-10		2010-11		2011-12		2012-13		2013-14		Total		2010-11		2011-12		Justification
		PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	
Land Development	Afforestation																	
	Scattered Plantation	0.00	0.00	12.00	0.87	30.00	1.75	35.00	1.85	38.00	1.99	115.00	6.46					
	Agriculture																	
	Pasture																	
SMC	Staggered trenching																	
	Contour Bund	0.00	0.00			54.00	1.80	63.70	2.50	225.16	5.23	342.86	9.53					
	Peripheral Bund	0.00	0.00			27.50	2.20	27.60	1.82	15.40	1.72	70.50	5.74					
	Marginal Bund	0.00	0.00	131.00	5.10	78.00	6.15	59.20	5.50	65.74	3.85	333.94	20.60					
Veg. & Engg. Structures	Earthen Checks																	
	Brushwood Checks																	
	Gully Plugs																	
	Loose Boulders																	
	Gabion Structures																	
	Others																	
WHS	Farm Ponds			9.00	1.50					4.70	3.07	13.70	4.57					
	Check dams/Tanks					12.50	6.70	21.50	6.88			34.00	13.58					
	Nallah Bunds																	
	Percolation Tanks																	
	Ground Water Recharge Structures																	
	Others WHB/SB																	
Livelihood	on-Farm activities		0.00		0.31		1.17		0.88		0.58		2.94					
	off-Farm activities		0.00		0.71		2.72		2.04		1.36		6.83					
	Pdn. System		0.00		0.94		3.63		3.88		2.40		10.85					
	Total	0.00	0.00	152.00	9.43	202.00	26.12	207.00	25.34	349.00	20.20	910.00	81.09					

Financial Phasing of Watershed Works													Fin. : in Lacs					
For Project sanctioned 2009-10													Gram Panchayat - Sirsiya					
	Activity	Target as AAP												Actual Achievement				
		2009-10		2010-11		2011-12		2012-13		2013-14		Total		2010-11		2011-12		Justification
		PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	
Land Development	Afforestation																	
	Scattered Plantation	0.00	0.00	4.50	0.30	9.00	0.60	9.00	0.60	8.00	0.55	30.50	2.05					
	Agriculture																	
	Pasture																	
SMC	Staggered trenching																	
	Contour Bund	0.00	0.00	1.10	0.03	42.75	1.16	44.60	1.00	38.00	2.10	126.45	4.29					
	Peripheral Bund	0.00	0.00	38.15	3.04	8.00	0.88	4.70	0.42			50.85	4.34					
	Marginal Bund	0.00	0.00	1.25	0.07	19.50	1.20	17.30	0.57	34.00	1.84	72.05	3.67					
Veg. & Engg. Structures	Earthen Checks																	
	Brushwood Checks																	
	Gully Plugs																	
	Loose Boulders																	
	Gabion Structures																	
	Others																	
WHS	Farm Ponds																	
	Check dams/Tanks																	
	Nallah Bunds																	
	Percolation Tanks																	
	Ground Water Recharge Structures																	
	Others WHB/SB					10.75	2.46	14.4	3.69			25.15	6.15					
Livelihood	on-Farm activities		0.00		0.10		0.40		0.30		0.20		1.00					
	off-Farm activities		0.00		0.22		0.92		0.69		0.46		2.29					
	Pdn. System		0.00		0.30		1.23		1.32		0.81		3.66					
	Total	0.00	0.00	45.00	4.05	90.00	8.85	75.60	8.59	80.00	5.96	305.00	27.45					

Financial Phasing of Watershed Works												Fin. : in Lacs						
For Project sanctioned 2009-10												Gram Panchayat - Belhari						
	Activity	Target as AAP												Actual Achievement				
		2009-10		2010-11		2011-12		2012-13		2013-14		Total		2010-11		2011-12		Justification
		PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	
Land Development	Afforestation																	
	Scattered Plantation	0.00	0.00	0.15	0.09	15.30	0.75	60.60	0.55	5.80	0.36	81.85	1.75					
	Agriculture																	
	Pasture																	
SMC	Staggered trenching																	
	Contour Bund	0.00	0.00	5.52	1.02	15.75	0.79	42.50	1.21	25.20	0.48	88.97	3.49					
	Peripheral Bund	0.00	0.00							38.32	1.32	38.32	1.32					
	Marginal Bund	0.00	0.00	6.83	2.40	14.28	0.82	26.10	1.45	33.75	1.19	80.96	5.86					
Veg. & Engg. Structures	Earthen Checks																	
	Brushwood Checks																	
	Gully Plugs																	
	Loose Boulders																	
	Gabion Structures																	
	Others																	
WHS	Farm Ponds																	
	Check dams/Tanks					12.10	3.09	14.80	2.23			26.90	5.32					
	Nallah Bunds																	
	Percolation Tanks																	
	Ground Water Recharge Structures																	
	Others WHB/SB																	
Livelihood	on-Farm activities		0.00		0.09		0.34		0.26		0.17		0.86					
	off-Farm activities		0.00		0.19		0.80		0.60		0.40		1.99					
	Pdn. System		0.00		0.27		1.06		1.14		0.70		3.17					
	Total	0.00	0.00	12.50	4.06	57.43	7.65	144.00	7.43	103.07	4.62	317.00	23.76					

Financial Phasing of Watershed Works														Fin. : in Lacs				
For Project sanctioned 2009-10														Gram Panchayat - Lalpur Kusmahwa				
	Activity	Target as AAP												Actual Achievement				
		2009-10		2010-11		2011-12		2012-13		2013-14		Total		2010-11		2011-12		Justification
		PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	
Land Development	Afforestation																	
	Scattered Plantation	0.00	0.00	15.70	0.94	30.00	1.90	30.00	1.90	28.00	1.68	103.70	6.42					
	Agriculture																	
	Pasture																	
SMC	Staggered trenching																	
	Contour Bund	0.00	0.00	74.00	1.56	143.00	6.63	198.00	10.55	124.30	5.65	539.30	24.39					
	Peripheral Bund	0.00	0.00	5.00	0.31	11.00	0.71	11.00	0.71	8.00	0.50	35.00	2.23					
	Marginal Bund	0.00	0.00	45.00	2.93	60.00	3.90	2.00	0.13	60.00	3.90	167.00	10.86					
Veg. & Engg. Structures	Earthen Checks																	
	Brushwood Checks																	
	Gully Plugs																	
	Loose Boulders																	
	Gabion Structures																	
	Others																	
WHS	Farm Ponds			25.00	1.50							25.00	1.50					
	Check dams/Tanks					16.00	5.91	19.00	5.70	18.00	5.02	53.00	16.63					
	Nallah Bunds																	
	Percolation Tanks																	
	Ground Water Recharge Structures																	
	Others WHB/SB																	
Livelihood	on-Farm activities		0.00		0.29		1.20		0.90		0.60		2.99					
	off-Farm activities		0.00		0.70		2.79		2.09		1.40		6.98					
	Pdn. System		0.00		0.93		3.71		3.98		2.45		11.07					
	Total	0.00	0.00	164.70	9.16	260.00	26.75	260.00	25.96	238.30	21.20	923.00	83.07					

Financial Phasing of Watershed Works										Fin. : in Lacs								
For Project sanctioned 2009-10										Gram Panchayat - Ghogwa Kala								
	Activity	Target as AAP												Actual Achievement				
		2009-10		2010-11		2011-12		2012-13		2013-14		Total		2010-11		2011-12		Justification
		PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	
Land Development	Afforestation																	
	Scattered Plantation	0.00	0.00	12.20	0.51	17.40	0.90	16.50	0.85	15.40	0.54	61.50	2.80					
	Agriculture																	
	Pasture																	
SMC	Staggered trenching																	
	Contour Bund	0.00	0.00	20.75	0.61	14.50	0.50	34.50	1.09	24.20	0.56	93.95	2.76					
	Peripheral Bund																	
	Marginal Bund	0.00	0.00	54.40	3.90	67.10	4.76	42.00	1.52	60.40	3.73	223.90	13.91					
Veg. & Engg. Structures	Earthen Checks																	
	Brushwood Checks																	
	Gully Plugs																	
	Loose Boulders																	
	Gabion Structures																	
	Others																	
WHS	Farm Ponds			4.15	0.90	13.00	2.39					17.15	3.29					
	Check dams/Tanks							17.50	5.06			17.50	5.06					
	Nallah Bunds																	
	Percolation Tanks																	
	Ground Water Recharge Structures																	
	Others WHB/SB																	
Livelihood	on-Farm activities		0.00		0.13		0.54		0.40		0.27		1.34					
	off-Farm activities		0.00		0.30		1.25		0.94		0.63		3.12					
	Pdn. System		0.00		0.42		1.67		1.79		1.10		4.98					
	Total	0.00	0.00	91.50	6.77	112.00	12.01	110.50	11.65	100.00	6.84	414.00	37.26					

Financial Phasing of Watershed Works													Fin. : in Lacs					
For Project sanctioned 2009-10													Gram Panchayat - Tangpasri					
	Activity	Target as AAP												Actual Achievement				
		2009-10		2010-11		2011-12		2012-13		2013-14		Total		2010-11		2011-12		Justification
		PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	
Land Development	Afforestation																	
	Scattered Plantation	0.00	0.00	4.10	0.25	11.00	0.54	12.00	0.54	7.00	0.31	34.10	1.64					
	Agriculture																	
	Pasture																	
SMC	Staggered trenching																	
	Contour Bund	0.00	0.00	26.50	3.17	24.00	0.89	28.00	1.50	40.00	1.17	118.50	6.72					
	Peripheral Bund																	
	Marginal Bund	0.00	0.00	4.50	0.28	37.60	1.25	32.10	1.73	13.20	0.70	87.40	3.96					
Veg. & Engg. Structures	Earthen Checks																	
	Brushwood Checks																	
	Gully Plugs																	
	Loose Boulders																	
	Gabion Structures																	
	Others																	
WHS	Farm Ponds																	
	Check dams/Tanks					8.00	2.73	8.00	1.62			16.00	4.35					
	Nallah Bunds																	
	Percolation Tanks																	
	Ground Water Recharge Structures																	
	Others WHB/SB									6.00	0.93	6.00	0.93					
Livelihood	on-Farm activities		0.00		0.08		0.34		0.25		0.17		0.84					
	off-Farm activities		0.00		0.20		0.79		0.59		0.40		1.98					
	Pdn. System		0.00		0.26		1.05		1.13		0.70		3.14					
	Total	0.00	0.00	35.10	4.24	80.60	7.59	80.10	7.36	60.20	4.38	262.00	23.57					

Financial Phasing of Watershed Works												Fin. : in Lacs						
For Project sanctioned 2009-10												Gram Panchayat - Chailahi						
	Activity	Target as AAP												Actual Achievement				
		2009-10		2010-11		2011-12		2012-13		2013-14		Total		2010-11		2011-12		Justification
		PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	
Land Development	Afforestation																	
	Scattered Plantation	0.00	0.00	2.50	0.15							2.50	0.15					
	Agriculture																	
	Pasture																	
SMC	Staggered trenching																	
	Contour Bund	0.00	0.00	22.50	1.61							22.50	1.61					
	Peripheral Bund																	
	Marginal Bund																	
Veg. & Engg. Structures	Earthen Checks																	
	Brushwood Checks																	
	Gully Plugs																	
	Loose Boulders																	
	Gabion Structures																	
	Others																	
WHS	Farm Ponds																	
	Check dams/Tanks																	
	Nallah Bunds																	
	Percolation Tanks																	
	Ground Water Recharge Structures																	
	Others WHB/SB																	
Livelihood	on-Farm activities		0.00		0.01		0.03		0.02		0.02		0.08					
	off-Farm activities		0.00		0.02		0.08		0.06		0.04		0.20					
	Pdn. System		0.00		0.03		0.10		0.11		0.07		0.31					
	Total	0.00	0.00	25.00	1.82	0.00	0.21	0.00	0.19	0.00	0.13	25.00	2.35					

CHAPTER – 6

CAPACITY BUILDING PLAN

The total amount in this activity is Rs 28.21 Lacs have been allocated. According to distribution of fund in different level, a comprehensive detail action plan has been prepared for proper execution of human resource development in the project activities.

YEARWISE FINANCIAL PHASING OF INST. & CAP. BULDG. PROGRAMME OF IWMP-I, DISTRICT- SHRAVASTI									
PIA LEVEL									
S. No.	Micro watershed	Project Area	Proposed Amount	Institutional & Capacity Building 5% of the Total Project					
				2009-10	2010-11	2011-12	2012-13	2013-14	Total
1	2B1D8h1b	715	4.29	0.00	0.79	1.18	0.99	0.30	3.26
2	2B1D8h2a	484	2.90	0.00	0.53	0.80	0.67	0.20	2.21
3	2B1D8i2b	780	4.68	0.00	0.86	1.29	1.08	0.33	3.56
4	2B1D8i3a	632	3.79	0.00	0.70	1.05	0.87	0.27	2.88
5	2B1D8i4a	226	1.36	0.00	0.25	0.37	0.31	0.09	1.03
6	2B1D8i4b	373	2.24	0.00	0.41	0.62	0.51	0.16	1.70
7	2B1D8j2c	878	5.27	0.00	0.97	1.45	1.21	0.37	4.00
8	2B1D8j3a	328	1.97	0.00	0.36	0.54	0.45	0.14	1.50
9	2B1D8j4a	285	1.71	0.00	0.31	0.47	0.39	0.12	1.30
	Total	4701	28.21	0.00	5.19	7.78	6.49	1.97	21.44

WCDC LEVEL									
1	2B1D8h1b	715	4.29	0.00	0.17	0.26	0.21	0.13	0.77
2	2B1D8h2a	484	2.90	0.00	0.12	0.17	0.15	0.09	0.52
3	2B1D8i2b	780	4.68	0.00	0.19	0.28	0.23	0.14	0.84
4	2B1D8i3a	632	3.79	0.00	0.15	0.23	0.19	0.11	0.68
5	2B1D8i4a	226	1.36	0.00	0.05	0.08	0.07	0.04	0.24
6	2B1D8i4b	373	2.24	0.00	0.09	0.13	0.11	0.07	0.40
7	2B1D8j2c	878	5.27	0.00	0.21	0.32	0.26	0.16	0.95
8	2B1D8j3a	328	1.97	0.00	0.08	0.12	0.10	0.06	0.35
9	2B1D8j4a	285	1.71	0.00	0.07	0.10	0.09	0.05	0.31
	Total	4701	28.21	0.00	1.13	1.69	1.41	0.85	5.08
SLNA LEVEL									
1	2B1D8h1b	715	4.29	0.00	0.07	0.10	0.09	0.00	0.26
2	2B1D8h2a	484	2.90	0.00	0.05	0.07	0.06	0.00	0.17
3	2B1D8i2b	780	4.68	0.00	0.07	0.11	0.09	0.00	0.28
4	2B1D8i3a	632	3.79	0.00	0.06	0.09	0.08	0.00	0.23
5	2B1D8i4a	226	1.36	0.00	0.02	0.03	0.03	0.00	0.08
6	2B1D8i4b	373	2.24	0.00	0.04	0.05	0.04	0.00	0.13
7	2B1D8j2c	878	5.27	0.00	0.08	0.13	0.11	0.00	0.32
8	2B1D8j3a	328	1.97	0.00	0.03	0.05	0.04	0.00	0.12
9	2B1D8j4a	285	1.71	0.00	0.03	0.04	0.03	0.00	0.10
	Total	4701	28.21	0.00	0.45	0.68	0.56	0.00	1.69

Year-wise bifurcation of capacity building activities IWMP -I, Shravasti,

				First Year				Second Year			
S. No.	Level	Total no of persons.		No of persons to be trained	No of training to be conduct	Training day	Total Cost	No of persons to be trained	No of training to be conduct	Training day	Total Cost
1	SLNA						0.00				0.45
2	WCDC	15		0	0	0	0.00	15	2	4	1.13
3	PIA	17		0	0	0	0.00	19	3	4	1.04
4	WDT	14		0	0	0	0.00	4	3	4	0.52
5	SHG	9		0	0	0	0.00	90	1	2	1.30
6	UG	18		0	0	0	0.00	180	1	2	1.82
7	WC	11		0	0	0	0.00	11	2	3	0.52
	TOTAL			0			0.00	319			6.77
Third Year				Fourth Year				Fifth Year			
No of persons to be trained	No of training to be conduct	Training day	Total Cost	No of persons to be trained	No of training to be conduct	Training day	Total Cost	No of persons to be trained	No of training to be conduct	Training day	Total Cost
			0.68				0.56				
15	2	4	1.69	15	2	3	1.41	15	2	3	0.85
19	3	4	1.56	19	3	4	1.30	19	2	2	0.39
4	3	5	0.78	4	3	3	0.65	4	3	3	0.20
100	2	2	1.95	120	1	2	1.62	80	1	1	0.49
200	1	2	2.72	250	1	2	2.27	95	1	1	0.69
11	2	4	0.78	11	2	3	0.65	5	2	3	0.20
349			10.15	419			8.46	218			2.82

List of identified training institutes for capacity building

Project IWMP - III

District – SHRAVASTI

Sr. No.	Name of the Training Institute	Full Address with contact no, website & e-mail	Designation of the Head of Institute	Type of Institute	Area(s) of specialization	No. of training assigned	No. of persons to be trained	Allocation to be made to the institute
1	2	3	4	5	6	7	8	9
1	Deen Dayal Upadhyaya State Ruler Development Training Center,	<i>D.U.S.R.D.T. Center</i> Bakshi ka Talab, Lucknow Contact- 0521-2298291 Mob. 9336726781	Dr. Vardani, Joint Director	Govt. Institute	Soil & Watershed Management, Agriculture, Horticulture, Production System, Livelihood, Animal Husbandry etc			
2	Deputy Director (Administrative) Land & Water Management Center (Walmi)	<i>Walmi Utterethiya, Lucknow</i> <i>Cont.- 0522-2440309</i> <i>Mob. 9044461661</i>	Dr. O.P. Duvey, Professor/ Nodal Officer	Govt. Institute				
3	Principal of Regional Ruler Development Center	<i>Principal R.R.D. Center</i> <i>Char Gaun, Gorakhpur</i> <i>Cont. 0551- 2298291</i> <i>Mob. 9336726781</i>	Dr. Vardani, Joint Director	Govt. Institute				
4	UP Land Development & Water Resources training Center	<i>UPLDWR Training Center</i> <i>Beli Kala, Lucknow</i> <i>Cont. 0522-2238425</i> <i>Mob 9415778898</i>	Sri. K.K. Rastogi, Deputy Director	Govt. Institute				
5	ND. University of Agriculture & Technology	<i>KVK Bahraich</i>	Dr. U.S. Yadav	Govt. Institute				

CHAPTER -7

PHASING OF PROGRAMME & BUDGETING

FINANCIAL BREAKUP OF VARIOUS COMPONENT IN TERMS OF % OF IWMP-I, DISTRICT-SRAVASTI

Amount in Lacs

S. No.	Micro Watershed Code	Project Area	Proposed Amount	Administrative 10%	EPA 4%	Institution and CB 5%	DPR 1%	Watershed development work 56%	Livelihood for asset less 9%	Production system and Microenterprises 10%	Monitoring 1%	Evaluation 1%	Consolidation 3%	Total 100%
1	2B1D8h1b	715	85.80	8.58	3.43	4.29	0.86	48.05	7.72	8.58	0.86	0.86	2.57	85.80
2	2B1D8h2a	484	58.08	5.81	2.32	2.90	0.58	32.52	5.23	5.81	0.58	0.58	1.74	58.08
3	2B1D8i2b	780	93.60	9.36	3.74	4.68	0.94	52.42	8.42	9.36	0.94	0.94	2.81	93.60
4	2B1D8i3a	632	75.84	7.58	3.03	3.79	0.76	42.47	6.83	7.58	0.76	0.76	2.28	75.84
5	2B1D8i4a	226	27.12	2.71	1.08	1.36	0.27	15.19	2.44	2.71	0.27	0.27	0.81	27.12
6	2B1D8i4b	373	44.76	4.48	1.79	2.24	0.45	25.07	4.03	4.48	0.45	0.45	1.34	44.76
7	2B1D8j2c	878	105.36	10.54	4.21	5.27	1.05	59.00	9.48	10.54	1.05	1.05	3.16	105.36
8	2B1D8j3a	328	39.36	3.94	1.57	1.97	0.39	22.04	3.54	3.94	0.39	0.39	1.18	39.36
9	2B1D8j4a	285	34.20	3.42	1.37	1.71	0.34	19.15	3.08	3.42	0.34	0.34	1.03	34.20
	Total	4701	564.12	56.41	22.56	28.21	5.64	315.91	50.77	56.41	5.64	5.64	16.92	564.12

YEARWISE PHYSICAL AND FINANCIAL PHASING OF WORK COMPONENT OF IWMP-I, DISTRICT-SRAVASTI

Phy. in ha. Amt. in Lacs

Watershed Development Works 56% of the Project Cost

S. No	Micro watershed	Project Area	Proposed Amount	2009-10		2010-11		2011-12		2012-13		2013-14		TOTAL	
				Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1	2B1D8h1b	715	42.90	0.00	0.00	95.74	6.44	208.78	14.03	204.28	13.73	206.21	13.86	715.00	48.05
2	2B1D8h2a	484	29.04	0.00	0.00	64.81	4.36	141.33	9.50	138.28	9.29	139.59	9.38	484.00	32.52
3	2B1D8i2b	780	46.80	0.00	0.00	104.44	7.02	227.76	15.30	222.85	14.98	224.95	15.12	780.00	52.42
4	2B1D8i3a	632	37.92	0.00	0.00	84.62	5.69	184.54	12.40	180.56	12.13	182.27	12.25	632.00	42.47
5	2B1D8i4a	226	13.56	0.00	0.00	30.26	2.03	65.99	4.43	64.57	4.34	65.18	4.38	226.00	15.19
6	2B1D8i4b	373	22.38	0.00	0.00	49.94	3.36	108.92	7.32	106.57	7.16	107.57	7.23	373.00	25.07
7	2B1D8j2c	878	52.68	0.00	0.00	117.56	7.90	256.38	17.23	250.84	16.86	253.22	17.02	878.00	59.00
8	2B1D8j3a	328	19.68	0.00	0.00	43.92	2.95	95.78	6.44	93.71	6.30	94.60	6.36	328.00	22.04
9	2B1D8j4a	285	17.10	0.00	0.00	38.16	2.57	83.22	5.59	81.42	5.47	82.19	5.52	285.00	19.15
	Total	4701	282.06	0.00	0.00	629.46	42.31	1372.69	92.23	1343.08	90.26	1355.77	91.11	4701.00	315.91

CHAPTER -8

CONSOLIDATION / EXIT STRATEGY

WATERSHED DEVELOPMENT FUND

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

USER CHARGES

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

SUSTAINABILITY AND ENVIRONMENT SECURITY

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

ECONOMIC ANALYSIS

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

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

AGRICULTURE

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

CHAPTER -9

EXPECTED OUTCOME

ABSTRACT OF EXPECTED OUTCOMES

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

SUMMARY OF EXPECTED OUTCOMES OF IWMP-I of District- Shravasti (2009-2010)

S. No.	Name of the District	Item	Unit of Measurement	Pre-project Status	Expected Post-project Status
1	2	3	4	5	6
1	Shravasti	Status of water table	Meter	6.00	4.00 to 4.50
2		Grand water structure repaired/ rejuvenated	-	-	-
3		Quality of drinking water	Good	Good	Good
4		Availability of drinking water	Meter	11 months	12 Months
5		Increase in irrigation potential			
6		Change in cropping/land use pattern	-	Single cropping	Double Cropping
7		Area under agriculture crop	Hector	3888.00	4200.00
8		i- Area under single crop	Hector	1180	1652

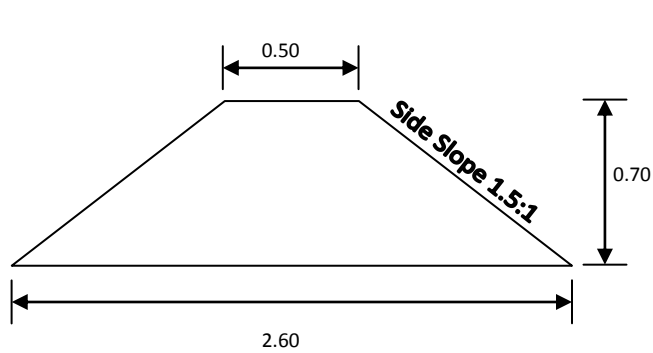
9		ii- Area under double crop	Hector	1914	2400
10		iii- Area under multiple crop	Hector	-	50
11		iv-Cropping Intensity	%	146.13	162.50
12		Increase in area under vegetation	Hector	175	250
13		Increase in area under horticulture	Hector	165	300
14		Increase in area under fuel & fodder	Hector	3.50	9.0
15		Increase in milk production	%	3	4
16		No. of SHGs	No.	16	25
17		Increase in no. of livelihoods	No.	-	54
18		Migration	No.	260	150
19		SHG Federation formed	No.	-	-
20		Credit Linkage with banks	-	-	-

Chapter-10

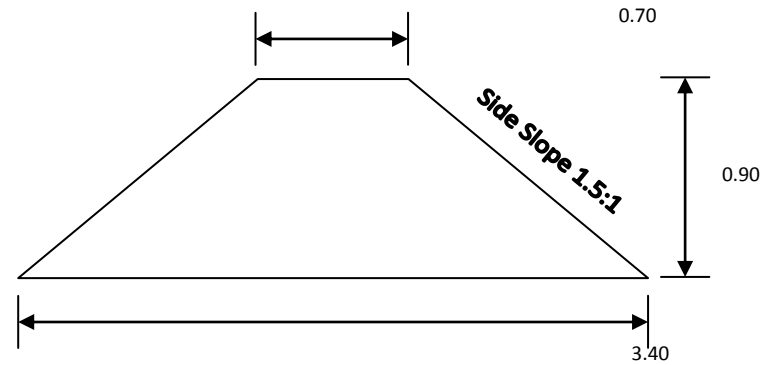
COST NORMS & DESIGN OF STRUCTURE PROPOSED

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

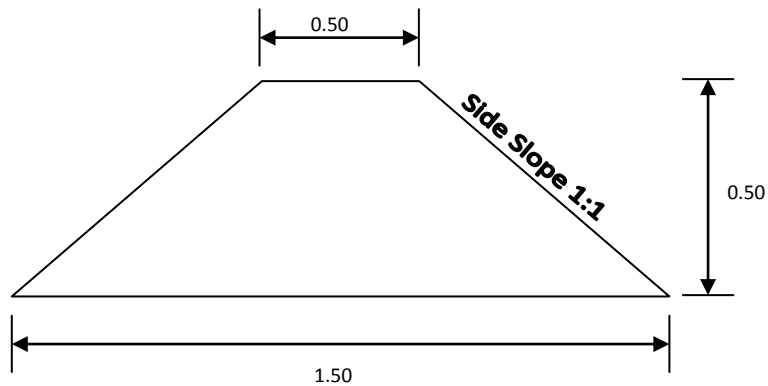
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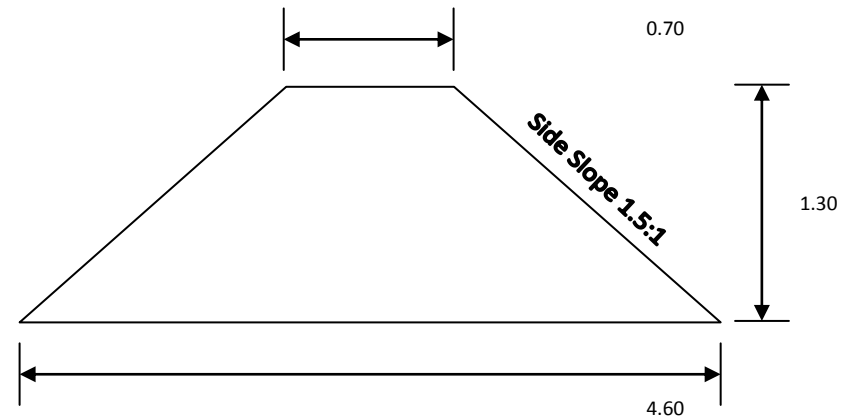
(C.B., Cross-Section – 1.085 m²)



(S.B., Cross-Section – 1.845m²)



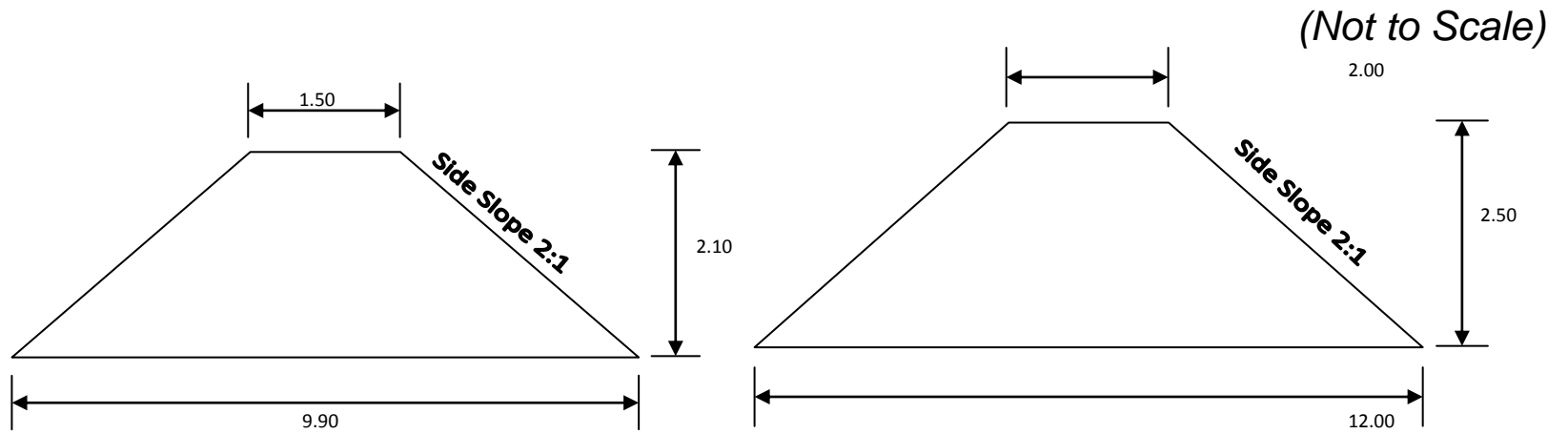
(Field Bund, Cross-Section – 0.50 m²)



(S.B. /P.B. /M.B., Cross-Section – 3.445 m²)

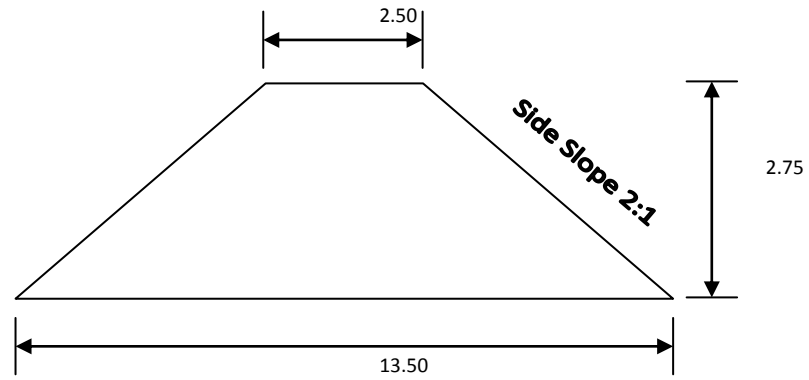
(All dimensions in Meter)

DRAWING OF EARTHEN CHEKDAM / GULLY PLUG



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

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



(W.H.B., Cross-Section – 22.00 m²)

(All dimensions in Meter)

DESIGN OF CONTOUR BUND

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

DESIGN OF SUBMERGENCE BUND

Types of soil – -Loam, Sandy Loam

Rainfall intensity for 24 hrs – 25cm

Field slope 3%

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

$$= 0.90 \text{ m}$$

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

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

$$= 30 \text{ m}$$

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

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

Free board 20% of height minimum 20cm

Total Height

$$= 0.90 \text{ m}$$

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

Bottom of bund

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

$$= 0.70 + 2.70$$

$$= 3.40$$

Cross Section of Submergence Bund

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

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

Length of bund

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

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

$$= 333 \text{ m}$$

Feasible length

$$100 + 25 + 25$$

$$= 150 \text{ m}$$

Earth work/ha

$$= 150 \times 1.845$$

$$= 276.75$$

Cost per ha

$$= 276.75 \times 39.16$$

$$= 10,837.53$$

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

TYPICAL SECTION OF FIELD BUND

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

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

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

TYPICAL SECTION OF EARTHEN CHECK DAM / GULLY PLUG

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

TYPICAL SECTION OF CHECK DAM / GULLY PLUG

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

TYPICAL SECTION OF W.H.B

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

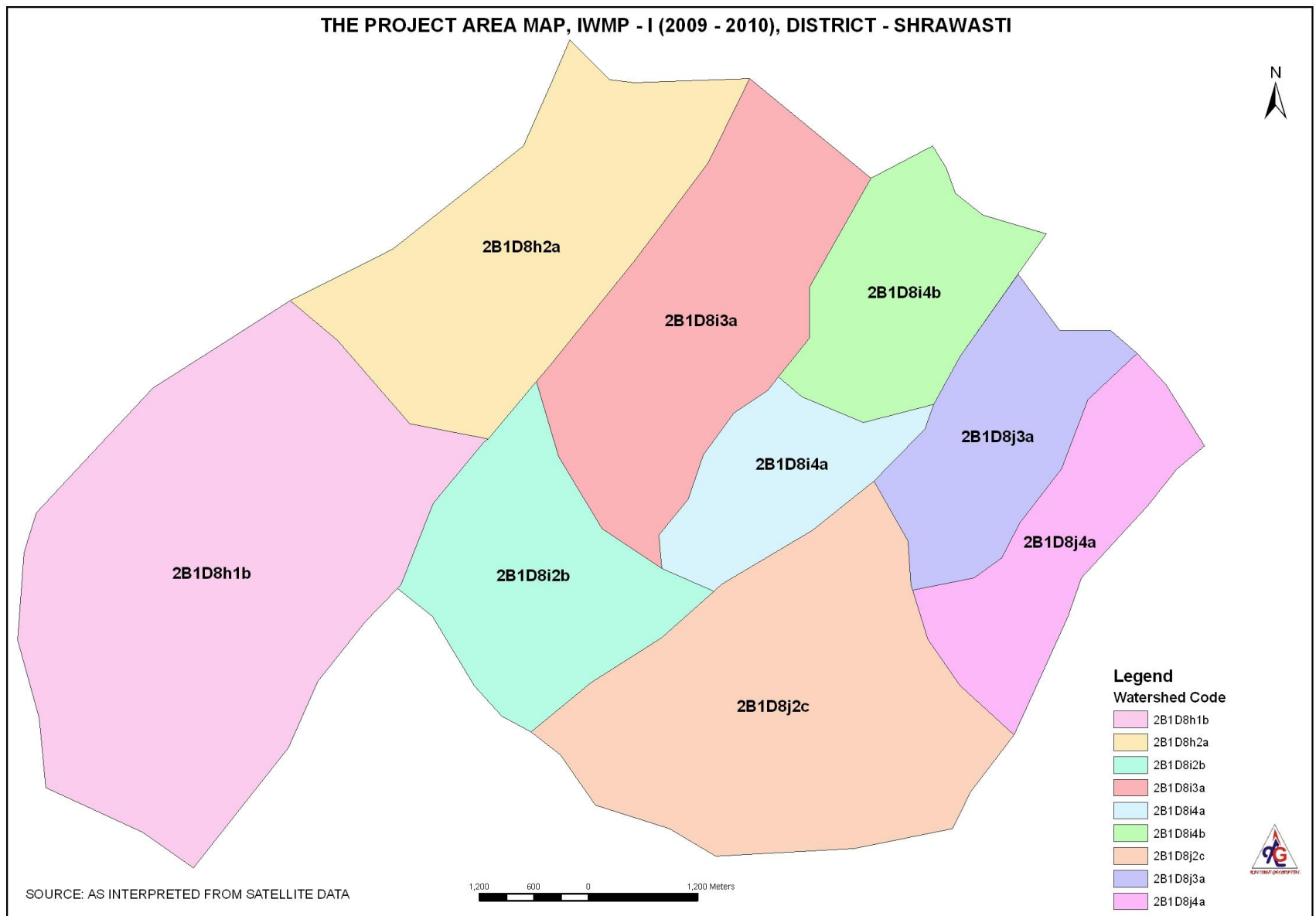
CHAPTER -11

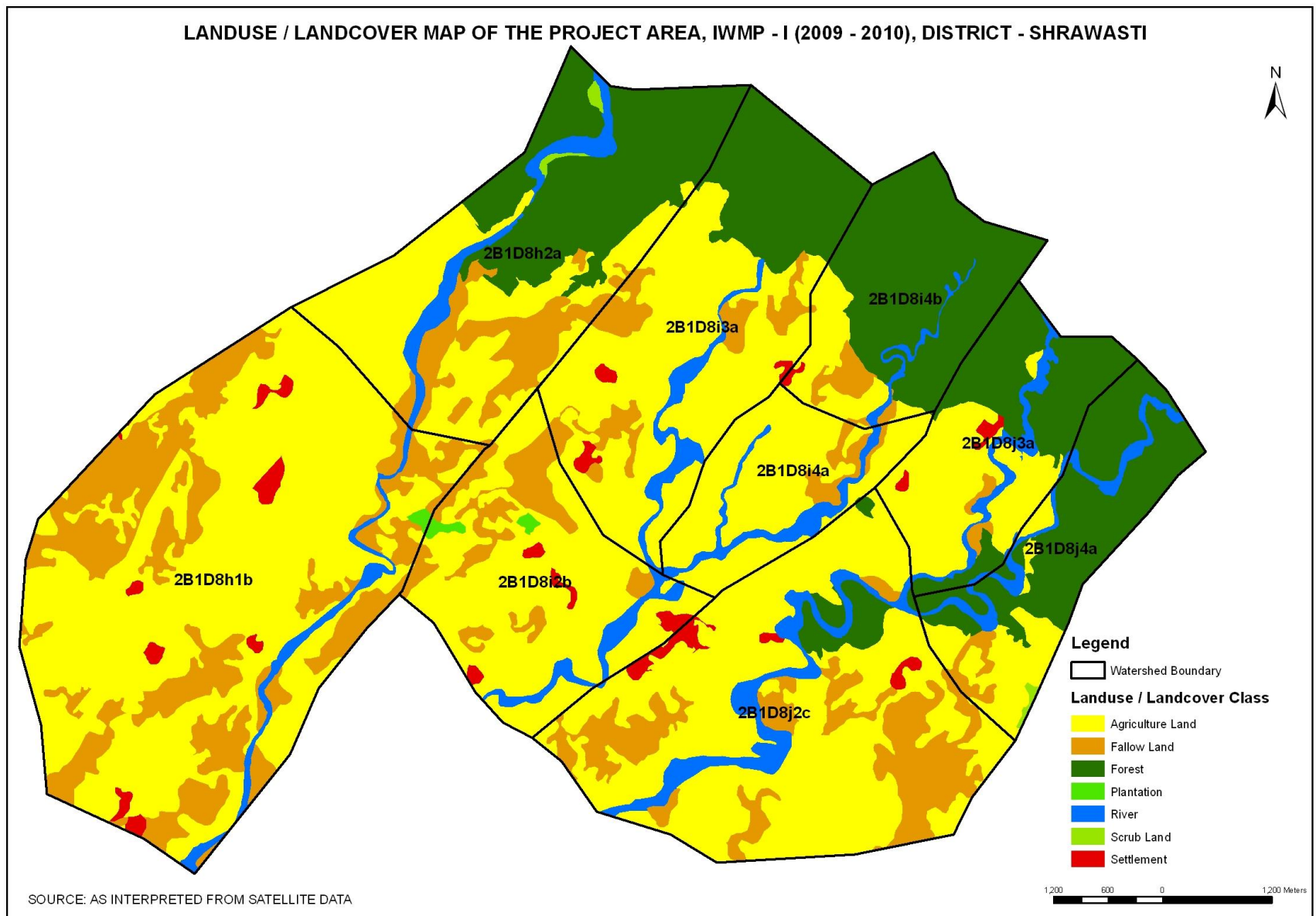
MAPS

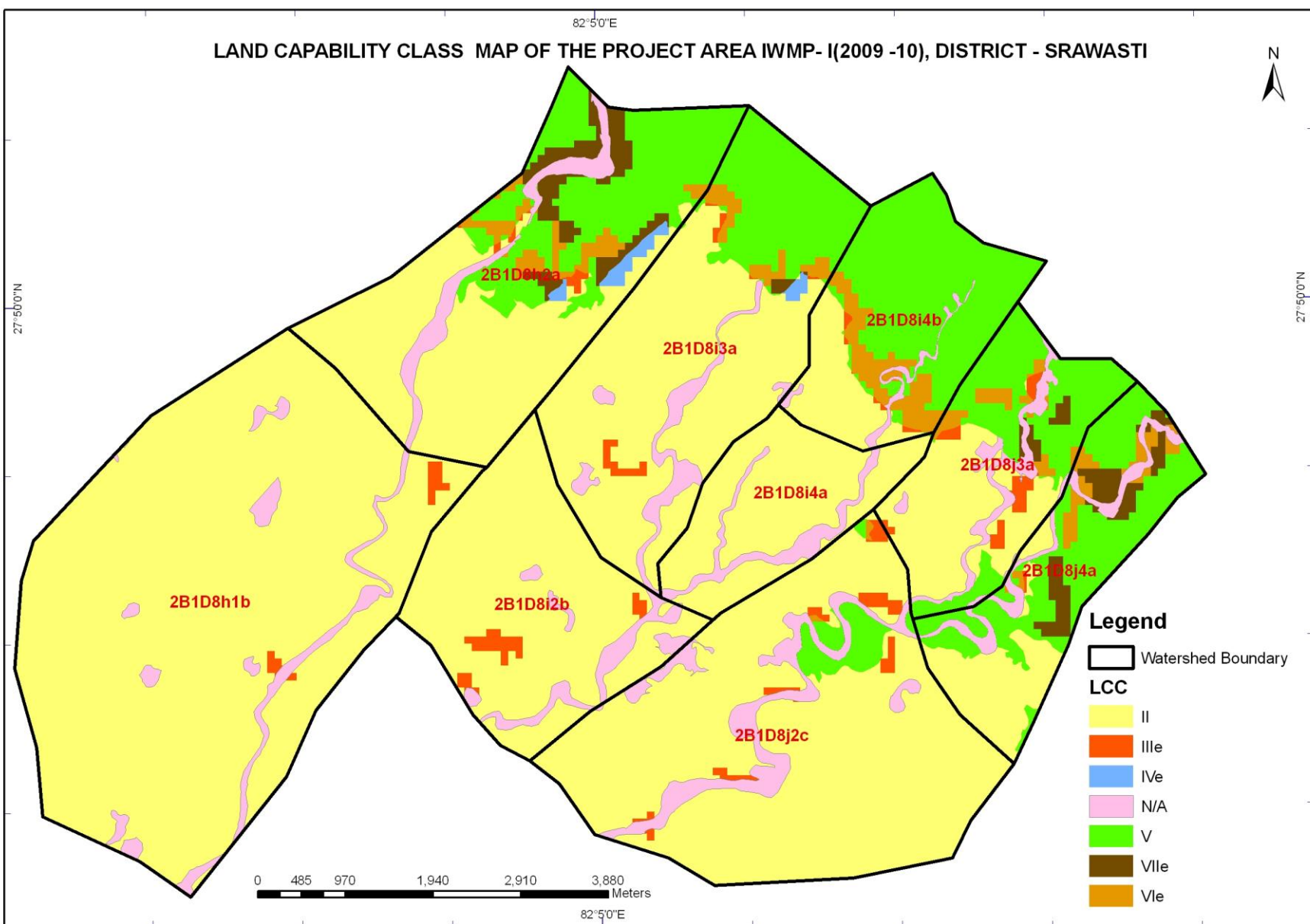
An attempt has been to map the surface details of the project area, as per the instruction of the common Guide lines-2008, All the thematic maps of the study area have been prepared through using remote sensing and geographical information system(G.I.S.) technique, following the fundamental norms of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

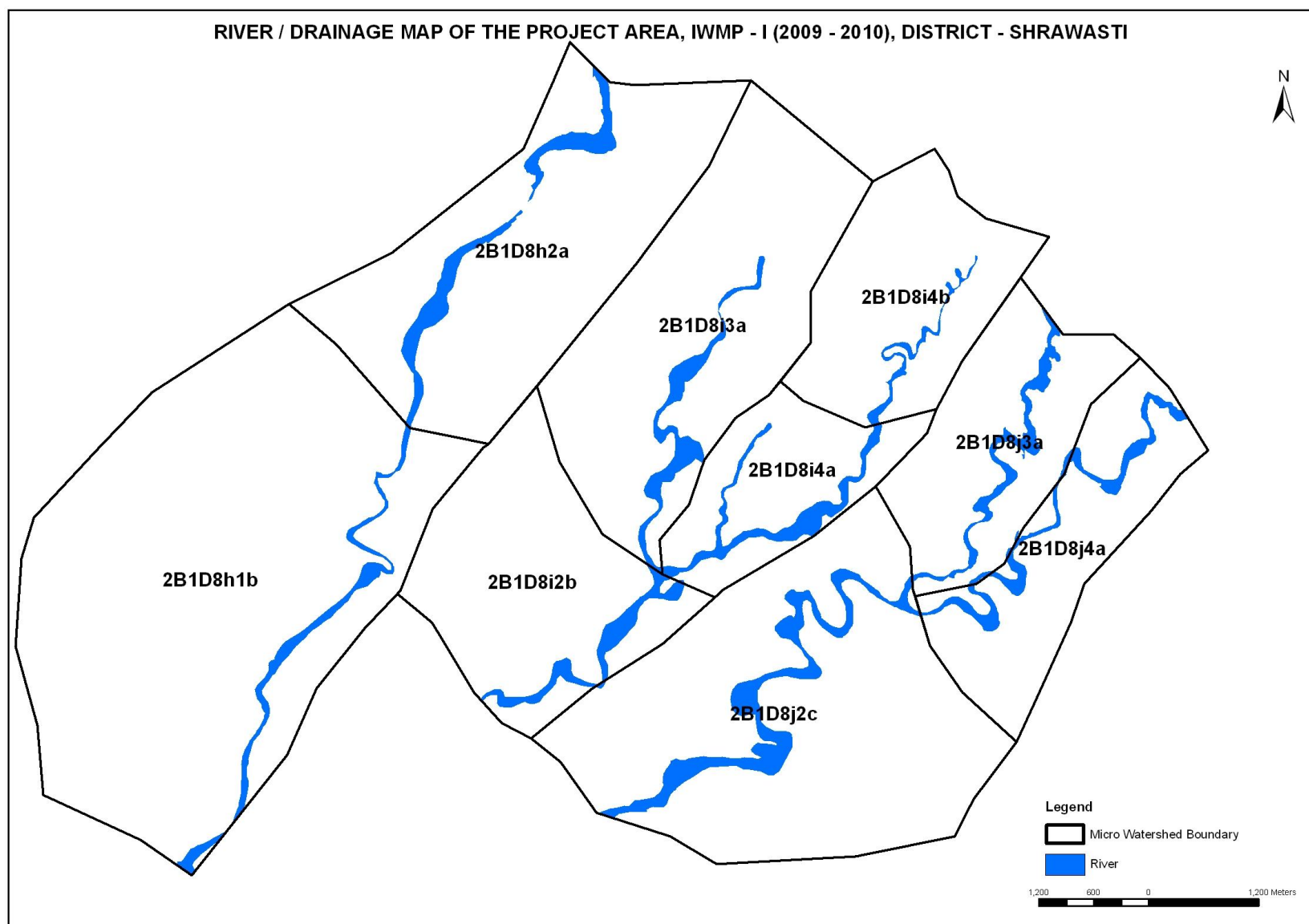
- 1- Project Area Map
- 2- Contour map
- 3- LCC Map
- 4- Land use/ Land cover map
- 5- Drainage Map
- 6- Slope Map
- 7- Soil Depth Map
- 8- Soil Erosion Map
- 9- Action Plan- Sirsiya

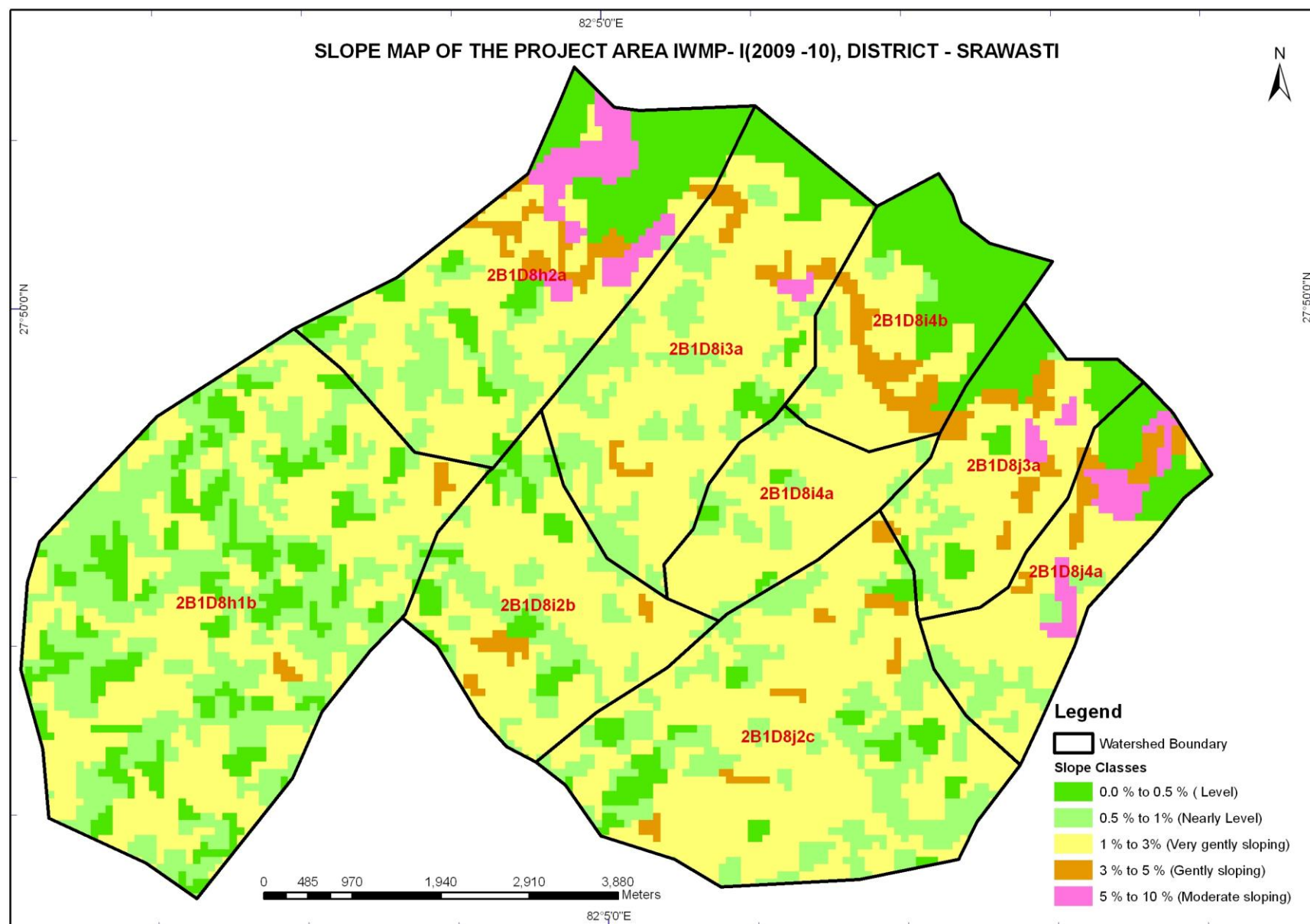
Action Plan- These maps were interpreted from the high resolution satellite data freely available on internet.

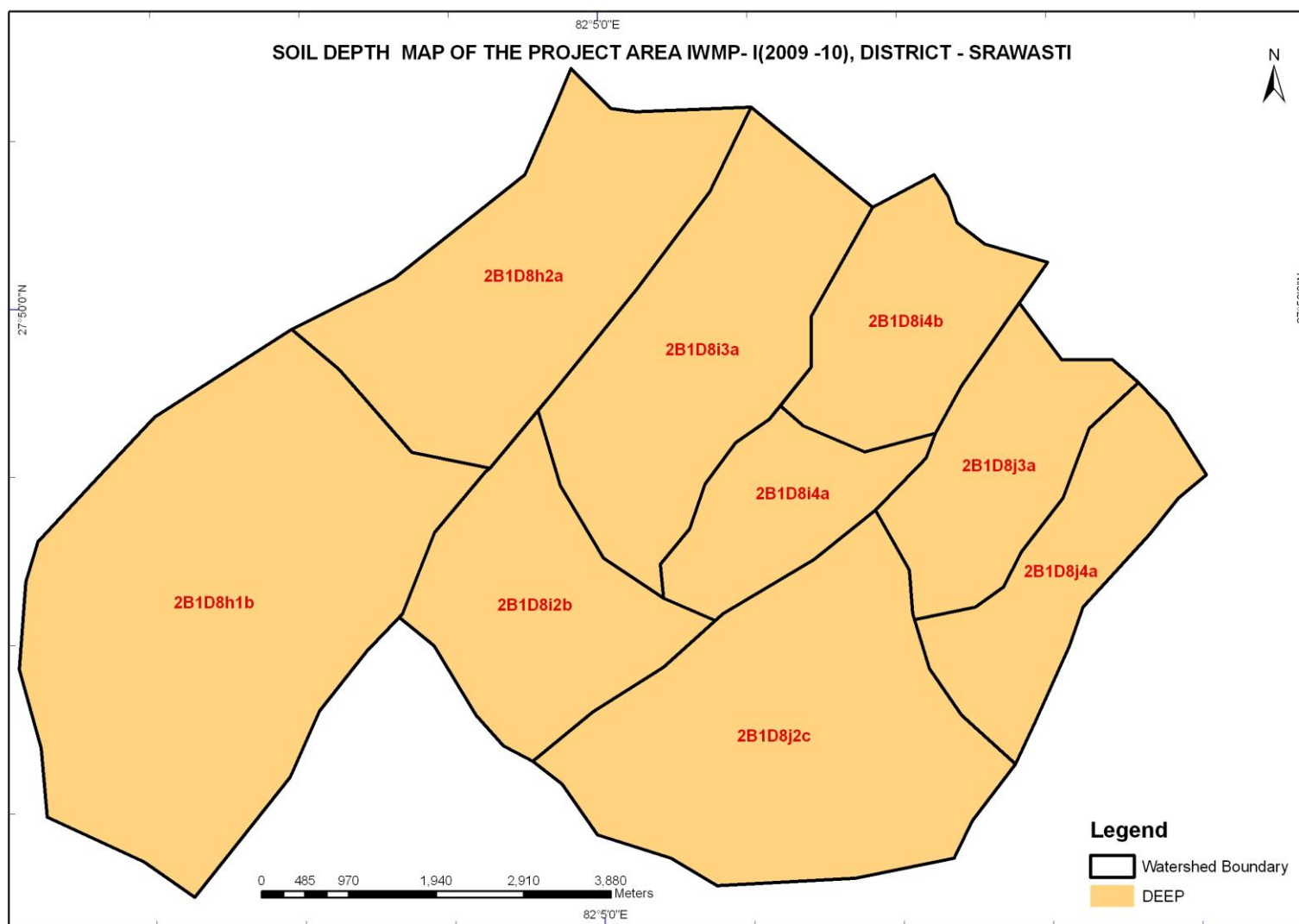


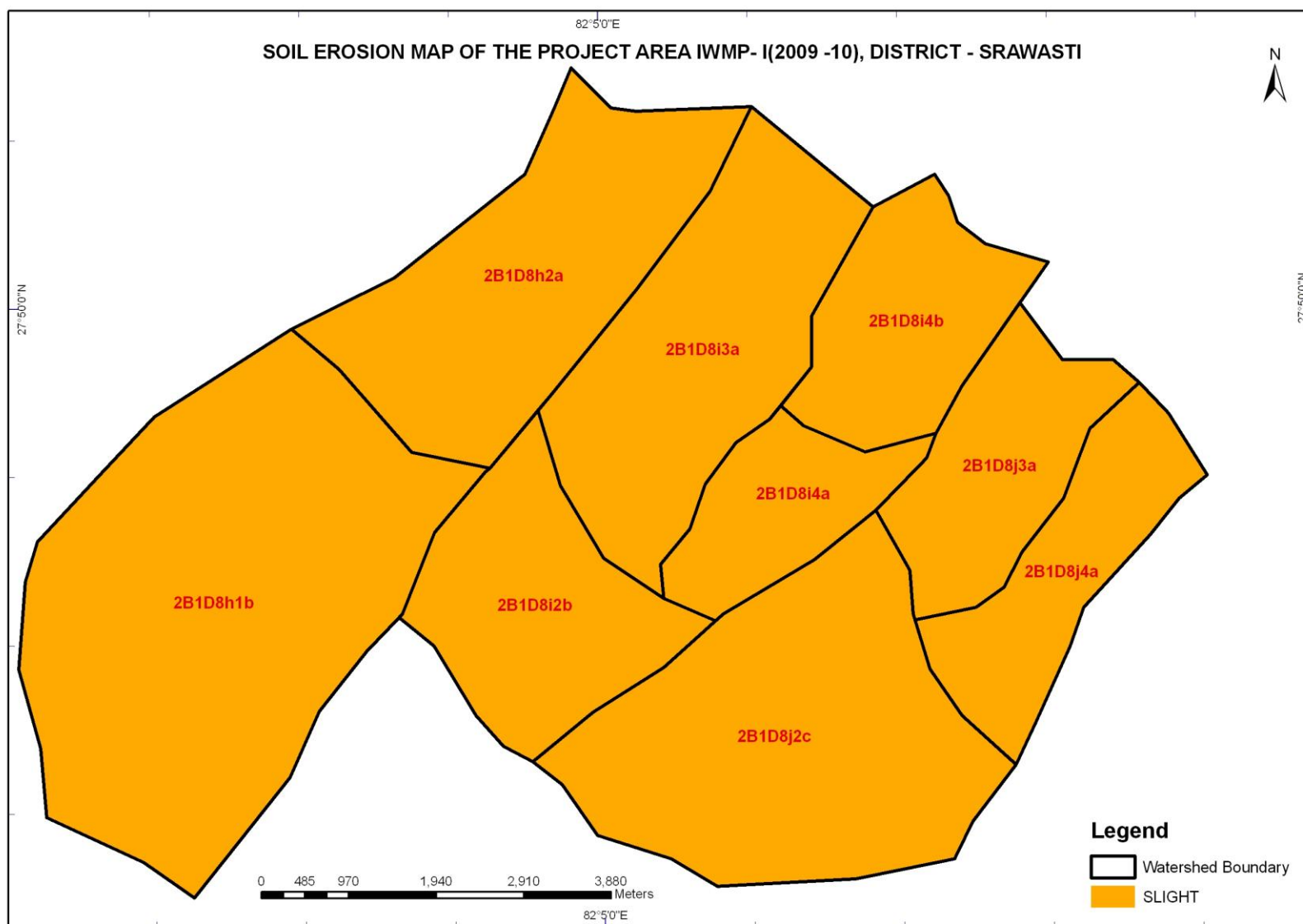


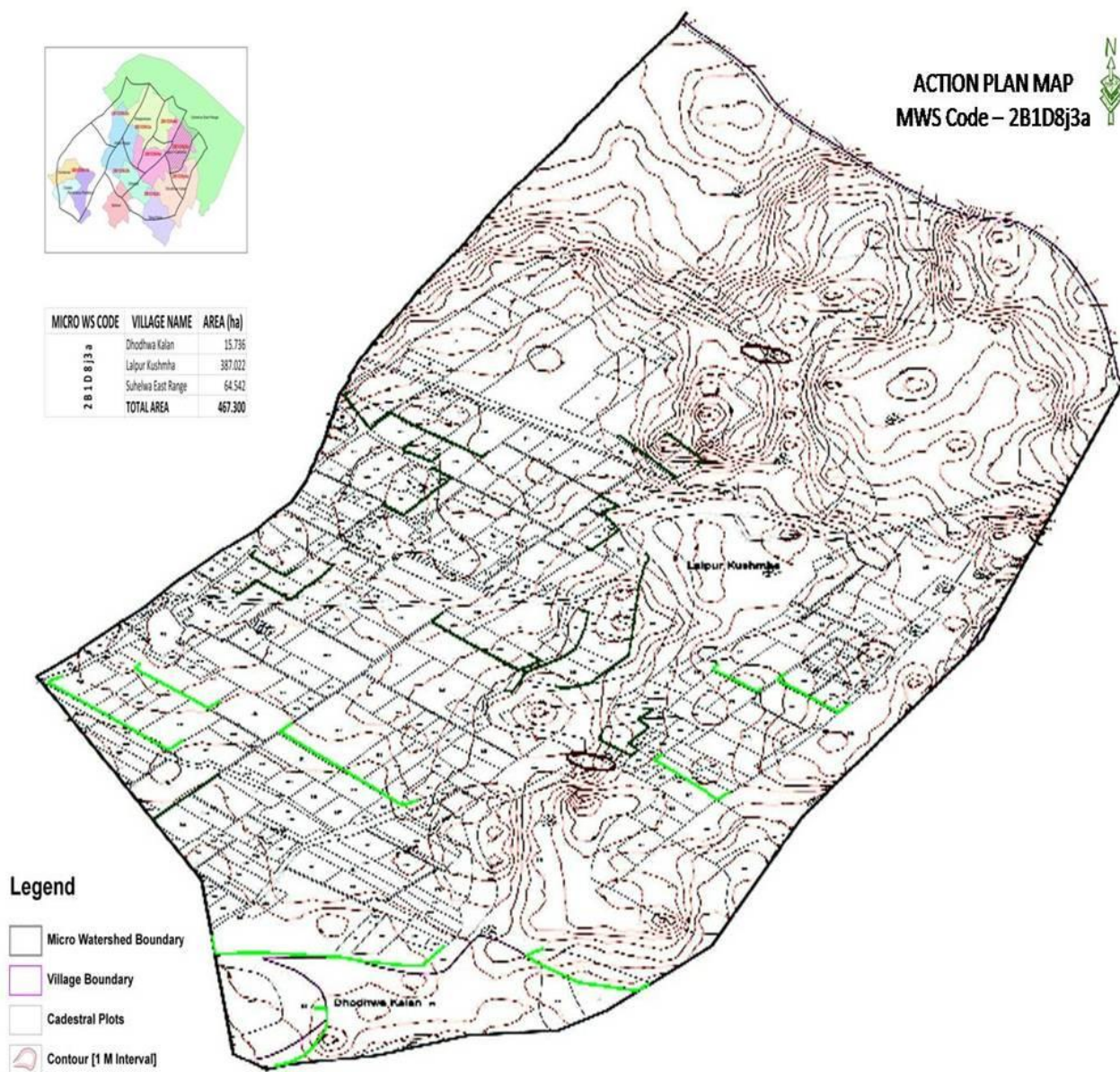




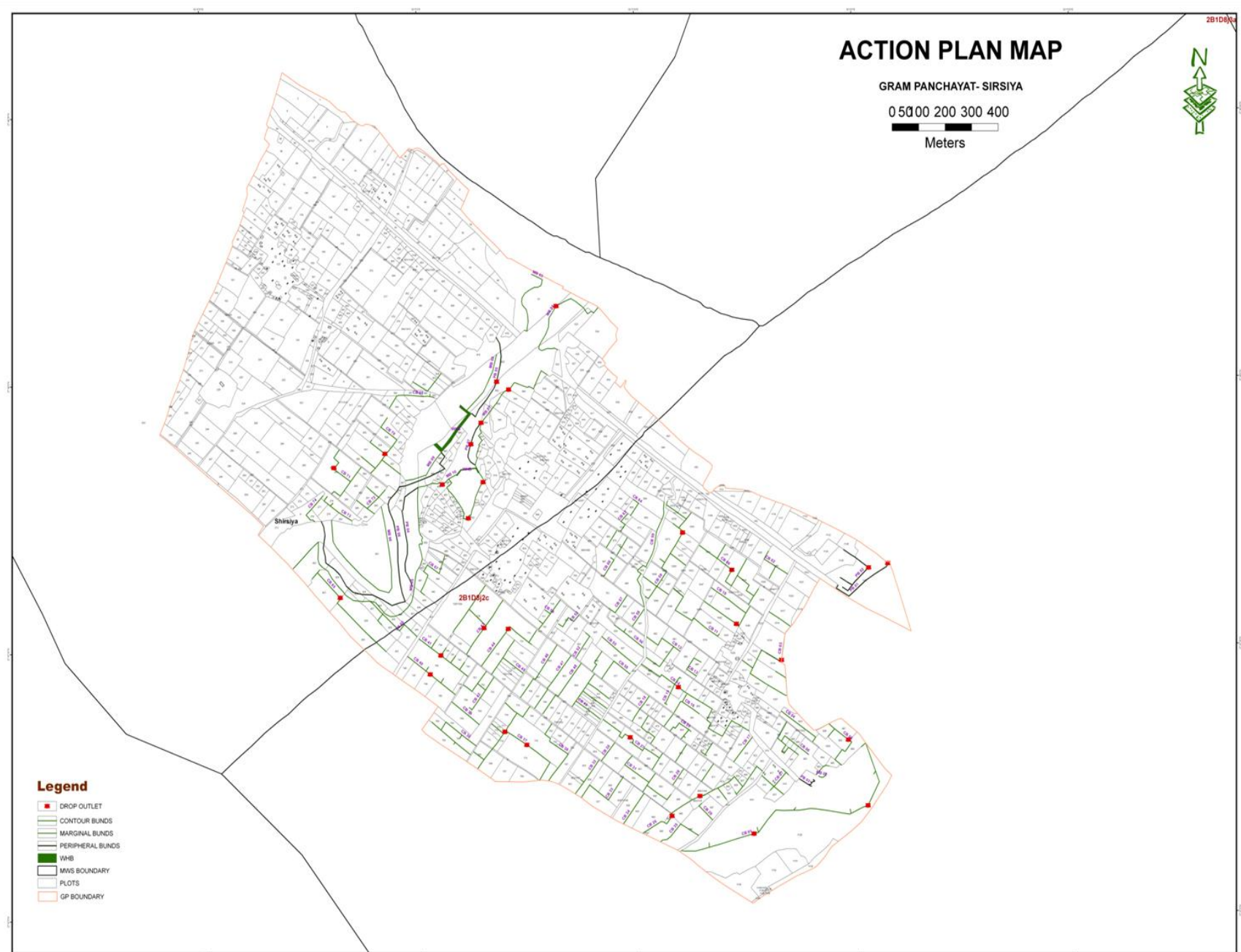








S. No.	Activity	Khasra No.	Area	Length	C.S. (Top+Base/2)*Height	E. W.	Rate	Amount	Village Name
1	CB-1	42, 94, 32, 31	2.835	20.0	$(0.45+2.25)/2 \times 0.60 = 0.81$	16.39	2.2	6350.4	Lalapur Kushma hwa
2	CB-2	73, 10, 31, 32	2.126	20.0	--	16.39	2.2	4763	Lalapur Kushma hwa
3	CB-3	59, 35, 134	5.670	30.0	--	24.39	2.2	1270.1	Lalapur Kushma hwa
4	CB-4	177, 184	2.834	25.0	--	20.39	2.5	6350	Lalapur Kushma hwa
5	CB-5	142, 178	3.543	25.0	--	20.39	2.5	7938	Lalapur Kushma hwa
6	MB-1	208, 207, 211	16.53	59.0	$(1.00+4.00)/2 \times 1.00 = 2.50$	43.14	1.6	6366.1	Lalapur Kushma hwa
7	MB-2	320, 328, 327, 326	21.01	75.0	--	18.43	1.6	8092.5	Lalapur Kushma hwa
8	MB-3	120, 249, 250	24.94	89.0	--	22.43	1.6	9603.1	Lalapur Kushma hwa
9	MB-4	120, 95, 88, 49	12.61	45.0	--	11.43	1.6	4855.5	Lalapur Kushma hwa
10	MB-5	323, 324, 326, 327	12.61	45.0	--	11.43	1.6	4855.5	Lalapur Kushma hwa
11	PB-1	320, 321, 322	50.49	45.0	$(1.00+4.75)/2 \times 1.25 = 3.60$	16.20	12.0	1944.00	Lalapur Kushma hwa
12	CD-1	225	35.72	20.0	$(2.50+10.00)/2 \times 2.50 = 15.63$	31.26	12.0	3751.20	Lalapur Kushma hwa
13	CD-2	125	44.65	25.0	$(2.50+10.00)/2 \times 2.50 = 15.63$	39.07	12.0	4689.00	Lalapur Kushma hwa
14	CD-3	328	35.72	20.0	$(2.50+10.00)/2 \times 2.50 = 15.63$	31.26	12.0	3751.20	Lalapur Kushma hwa
	EARTH WORK							1789.369.4	
	BRICK WORK							9926.30.6	
	TOTAL							2782.000	27.82 Lacs



Detail Cost Estimate of MWS SIRSIYA – 2B1D8j2c

Grampanchayat wise break up of Watershed Development Activities

Grampanchayat - Sirsia of IWMP-I Shrivasti

CONTOUR BUND

S. No.	Activity	Khasra No.	Area	Lenth	C.S. (Top+Base/2)*Height	E.W.	Rate	Amount	Village Name
1	CB-1	1017	0.75	100	$(0.45+2.25)/2*0.60$ =0.81	81	39.20	3175	SIRSIYA
2	CB-2	1085	1.00	150	" "	121.5	39.20	4763	SIRSIYA
3	CB-3	1014, 1013, 1012	3.00	400	" "	324	39.20	12701	SIRSIYA
4	CB-4	1003, 1002	1.20	200	" "	162	39.20	6350	SIRSIYA
5	CB-5	998, 999, 1000	1.50	250	" "	202.5	39.20	7938	SIRSIYA
6	CB-6	987, 988, 989, 990, 991	1.70	300	" "	243	39.20	9526	SIRSIYA
7	CB-7	917, 918, 916, 915	1.10	200	" "	162	39.20	6350	SIRSIYA
8	CB-8	1061, 1058, 1057, 1054	2.50	450	" "	364.5	39.20	14288	SIRSIYA
9	CB-9	1078, 1080, 1076, 1073, 1072, 1071, 1070, 1069, 1068, 1066, 1065	3.50	600	" "	486	39.20	19051	SIRSIYA
10	CB-10	1040, 1046, 1048, 1050	2.80	400	" "	324	39.20	12701	SIRSIYA
11	CB-11	1048, 1046, 1040	2.80	400	" "	324	39.20	12701	SIRSIYA

12	CB-12	962, 963, 961, 948	2.00	300	" "	243	39.20	9526	SIRSIYA
13	CB-13	965	1.00	150	" "	121.5	39.20	4763	SIRSIYA
14	CB-14	950, 947, 946, 945, 944, 1160,936/1176, 937, 931/1168, 932, 931	3.90	650	" "	526.5	39.20	20639	SIRSIYA
15	CB-15	953, 949	1.00	150	" "	121.5	39.20	4763	SIRSIYA
16	CB-16	935, 951, 950	1.20	250	" "	202.5	39.20	7938	SIRSIYA
17	CB-17	923	1.00	150	" "	121.5	39.20	4763	SIRSIYA
18	CB-18	883, 889	1.00	130	" "	105.3	39.20	4128	SIRSIYA
19	CB-19	882, 879, 878	1.00	180	" "	145.8	39.20	5715	SIRSIYA
20	CB-20	894	1.00	150	" "	121.5	39.20	4763	SIRSIYA
21	CB-21	874	0.75	100	" "	81	39.20	3175	SIRSIYA
22	CB-22	908	0.75	100	" "	81	39.20	3175	SIRSIYA
23	CB-23	871	0.75	100	" "	81	39.20	3175	SIRSIYA
24	CB-24	867	0.50	60	" "	48.6	39.20	1905	SIRSIYA
25	CB-25	912	1.00	150	" "	121.5	39.20	4763	SIRSIYA
26	CB-26	841, 842, 845, 865/1181, 869, 906	3.20	550	" "	445.5	39.20	17464	SIRSIYA
27	CB-27	857, 859, 860, 862	2.00	300	" "	243	39.20	9526	SIRSIYA
28	CB-28	863	0.75	100	" "	81	39.20	3175	SIRSIYA
29	CB-29	847	0.75	100	" "	81	39.20	3175	SIRSIYA
30	CB-30	854, 855	0.75	100	" "	81	39.20	3175	SIRSIYA
31	CB-31	851, 850, 849	2.50	400	" "	324	39.20	12701	SIRSIYA
32	CB-32	832, 832/1163, 833	1.20	200	" "	162	39.20	6350	SIRSIYA
33	CB-33	836, 835, 837	1.50	250	" "	202.5	39.20	7938	SIRSIYA
34	CB-34	839	1.00	150	" "	121.5	39.20	4763	SIRSIYA
35	CB-35	846	1.20	200	" "	162	39.20	6350	SIRSIYA

36	CB-36	782, 783	2.10	350	" "	283.5	39.20	11113	SIRSIYA
37	CB-37	779, 778, 777, 773, 772, 771, 770, 765, 774, 775	4.50	750	" "	607.5	39.20	23814	SIRSIYA
38	CB-38	761, 760, 762	3.00	400	" "	324	39.20	12701	SIRSIYA
39	CB-39	758	1.00	150	" "	121.5	39.20	4763	SIRSIYA
40	CB-40	745, 744	2.00	300	" "	243	39.20	9526	SIRSIYA
41	CB-41	738, 739, 740, 741, 742, 743	2.20	350	" "	283.5	39.20	11113	SIRSIYA
42	CB-42	751, 752, 750	2.00	300	" "	243	39.20	9526	SIRSIYA
43	CB-43	728, 726	4.10	600	" "	486	39.20	19051	SIRSIYA
44	CB-44	730, 731	2.30	350	" "	283.5	39.20	11113	SIRSIYA
45	CB-45	736, 735/1169, 735, 734, 733, 732	1.40	250	" "	202.5	39.20	7938	SIRSIYA
46	CB-46	798, 801, 802	1.40	250	" "	202.5	39.20	7938	SIRSIYA
47	CB-47	796, 803	1.40	250	" "	202.5	39.20	7938	SIRSIYA
48	CB-48	795, 800, 804	1.40	250	" "	202.5	39.20	7938	SIRSIYA
49	CB-49	812, 811, 810/1179, 810, 809, 807, 806, 805	2.70	500	" "	405	39.20	15876	SIRSIYA
50	CB-50	817	1.20	200	" "	162	39.20	6350	SIRSIYA
51	CB-51	818	0.75	100	" "	81	39.20	3175	SIRSIYA
52	CB-52	820	0.90	120	" "	97.2	39.20	3810	SIRSIYA
53	CB-53	823	0.70	100	" "	81	39.20	3175	SIRSIYA
54	CB-54	717, 716	1.00	200	" "	162	39.20	6350	SIRSIYA
55	CB-55	827	1.00	200	" "	162	39.20	6350	SIRSIYA
56	CB-56	829	1.00	150	" "	121.5	39.20	4763	SIRSIYA
57	CB-57	701	0.90	100	" "	81	39.20	3175	SIRSIYA
58	CB-58	698	0.90	100	" "	81	39.20	3175	SIRSIYA
59	CB-59	6954, 693, 692, 691, 690, 664, 666	2.40	450	" "	364.5	39.20	14288	SIRSIYA

60	CB-60	687	0.90	100	" "	81	39.20	3175	SIRSIYA
61	CB-61	678	0.90	100	" "	81	39.20	3175	SIRSIYA
62	CB-62	680	0.90	100	" "	81	39.20	3175	SIRSIYA
63	CB-63	674, 670	0.90	100	" "	81	39.20	3175	SIRSIYA
64	CB-64	665	0.90	80	" "	64.8	39.20	2540	SIRSIYA
65	CB-65	423, 430	2.50	500	" "	405	39.20	15876	SIRSIYA
66	CB-66	427, 434, 433	1.10	250	" "	202.5	39.20	7938	SIRSIYA
67	CB-67	440, 445, 447	1.10	250	" "	202.5	39.20	7938	SIRSIYA
68	CB-68	352, 353, 354	0.80	150	" "	121.5	39.20	4763	SIRSIYA
69	CB-69	344, 346, 348, 349, 350	1.50	250	" "	202.5	39.20	7938	SIRSIYA
70	CB-70	309, 308, 304, 302, 301, 299, 298	3.20	500	" "	405	39.20	15876	SIRSIYA
71	CB-71	283	3.00	400	" "	324	39.20	12701	SIRSIYA
72	CB-72	291, 292, 290	2.00	250	" "	202.5	39.20	7938	SIRSIYA
73	CB-73	276	1.50	200	" "	162	39.20	6350	SIRSIYA
74	CB-74	278, 277	1.00	150	" "	121.5	39.20	4763	SIRSIYA
		EARTH WORK	118.00					589635	
		BRICK WORK						118365	
		TOTAL						708000	7.08 Lacs

SUBMERGENCE BUND

S. No	Activity	Khasra No.	Area	Lenth	C.S. (Top+Base/2)*Height	E.W.	Rate	Amount	Village Name
1	MB-1	P	3	75	$(0.60+3.60)/2*1.00=2.10$	157.5	120	18900	Sirsiya
2	MB-2	993, 994	4	100	" "	210	120	25200	Sirsiya
3	MB-3	422, 427	8	200	" "	420	120	50400	Sirsiya
4	MB-4	491, 478, 479, 780, 781, 782, 502, 503, 504	7	175	" "	367.5	120	44100	Sirsiya
5	MB-5	426, 436, 437, 438, 439, 441, 442, 443, 450, 475, 474, 473, 472	14	425	" "	892.5	120	107100	Sirsiya
6	MB-6	421	14	425	" "	892.5	120	107100	Sirsiya
7	MB-7	513, 514, 5154, 516, 584, 585, 586, 588, 589	12	375	" "	787.5	120	94500	Sirsiya
8	MB-8	P	9	250	" "	525	120	63000	Sirsiya
9	MB-9	P	5	175	" "	367.5	120	44100	Sirsiya
10	MB-10	492	3	75	" "	157.5	120	18900	Sirsiya
		EARTH WORK	79					573300	
		BRICK WORK						137700	
		TOTAL						711000	7.11 Lacs

PERIPHERAL BUND

S. No	Activity	Khasra No.	Area	Lenth	C.S. (Top+Base/2)*Height	E.W.	Rate	Amount	Village Name
1	PB-1	914	8.00	650	$(1.00+4.00)/2*1.00=2.50$	1625	43.16	70135	SIRSIYA
2	PB-2	P	2.10	175	" "	437.5	43.16	18882.5	SIRSIYA
3	PB-3	1127	1.70	150	" "	375	43.16	16185	SIRSIYA
4	PB-4	1127	1.70	150	" "	375	43.16	16185	SIRSIYA
5	PB-5	1007, 1013, 1014, 1016, 1018, 1019, 1021, 1002	3.60	325	" "	812.5	43.16	35067.5	SIRSIYA
6	PB-6	P	2.60	250	" "	625	43.16	26975	SIRSIYA
7	PB-7	296, 496, 490, 425	9.00	675	" "	1687.5	43.16	72832.5	SIRSIYA
8	PB-8	P	2.30	125	" "	312.5	43.16	13487.5	SIRSIYA
9	PB-9	418	2.40	175	" "	437.5	43.16	18882.5	SIRSIYA
10	PB-10	61	2.30	135	" "	337.5	43.16	14566.5	SIRSIYA
11	PB-11	623	2.30	150	" "	375	43.16	16185	SIRSIYA
		EARTH WORK	38.00					319384	
		BRICK WORK						79616	
		TOTAL						399000	3.99 Lacs

WATER HORVESTING BUND

S. No	Activity	Khasra No.	Area	Lenth	C.S. (Top+Base/2)*Height	E.W.	Output	Mandays	rate	AMOUNT	Village Name
1	WHB-1	P	21.50	325	$(2.00+9.50)/2*2.50=14.38$	4671.875	3.07	1521	120	182520	Sirsiya
2	WHB-2	P	21.50	325	$(2.00+9.50)/2*2.50=14.38$	4671.875	3.07	1521	120	182520	Sirsiya
	EARTH WORK		43.00							365040	
	BRICK WORK									150960	
	TOTAL									516000	5.16 Lacs

CHAPTER -12

ABBREVIATIONS/ REFERENCES

LIST OF ABBRIVIATIONS/REFERENCES

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

REFERENCES

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

Preparation of DPR

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

S. NO.	Name	Designation
1	2	3
1	Sri N.K. Singh	Bhoomi Sanrakshan Adhikari
2	Sri R.B. Yadav	Junior Engineer
3	Sri R.C. Tiwari	Junior Engineer
4	Sri R.P. Shukla	Accountant
5	Sri V.K. Verma	Accountant
6	Sri A. K. Srivastava	Ex. Scientist, RSAC-UP, Lucknow
7	Dr. A. K. Kulshetra	Consultant
8	Sri Dipendra Kumar Sharma	Statistical Analyst
9	Ku. Sulochna Pareekh	GIS Analyst
10	Ku. Sunita	GIS Analyst
11	Sri Uday Bhan Singh	Planning Expert
12	Sri Rahul Sharma	Cad Designer