

CHAPTER - 1

INTRODUCTION AND BACKGROUND

Status of watershed programme and approved plan by Steering committee, Govt. of India and status of previous Detailed Project Reports for Mahoba district, Deptt. of Agriculture, Uttar Pradesh is given in following Tables 1.1 and 1.2.

Table 1.1: Status of watershed programme

Details	No.	District- Mahoba
Area (ha.)		
Total Micro watersheds in the district		
	445	288400
Workable Micro Watersheds	61	23535
Micro Watersheds already treated (partially) by Deptt of Agriculture, Dist.- Mahoba Uttar Pradesh	384	264865
Micro Watersheds (MWS) available for treatment (beginning IWMP in the district)	87	26253

Table 1.2: Approved plan (PPRs) by Steering Committee (SC)/Govt. of India,

Year	Project	MWS	Area (Treatable) (ha)	Project Cost (Rs. Lakh)	Name of PIA	District- Mahoba	Date of Sanction by S.C. Govt. of India
2011-12	IWMP-XVI	12	4375.00	525.00	BSA (Agri), Mahoba		26.09.2011
2011-12	IWMP-XVIII	18	5483.00	657.96	BSA (Agri), Mahoba		-do-
2011-12	IWMP-XIX	23	6516.00	781.92	BSA (Agri), Charkhari		-do-
2011-12	IWMP-XX	13	4589.00	550.68	BSA (Agri), Charkhari		-do-
2011-12	IWMP-XXIII	21	5440.90	652.90	BSA (Agri), Kulpahar		-do-
Total		87	26403.9	3168.46			

1.1 Project Background

Integrated Watershed Management Programme-XXIII comprises twenty one micro-watersheds: Gorahari (2C2A3p1e), Gorkha (2C2A3p1f), Luhari (2C2A3p1g), Andhoura (2C2A3p1h), Vijaypur (2C2A3w2a), Budi (2C2A3w2b), Bagola (2C2A3w2d), Gugora (2C2A3q2b), Andwara (2C2A3q2f), Devganpura (2C2A3s1a), Panwari (2C2A3s1b), Bahdurpur Kala (2C2A3s1e), Didwara (2C2A3s2a), Tolapatar (2C2A3s2b), Riwai (2C2A3s2e), Parapatar (2C2A3s2d), Dulara (2C2A3f1a), Amanpura (2C2A3f1b), Ghutai (2C2A3e1e), Peepri (2C2A3e2e) and Rurikala (2C2A3e2f). Watershed project is situated in Kulpahar block of district Mahoba and spread over in 56 villages of 25 gram panchayat. The total geographical area of the IWMP-XXIII is 14660.09 ha, however treatable area 7867.90 ha is under Integrated Watershed Management Programme (IWMP-XXIII).

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

Watershed project	Micro Watersheds (MWS) detail	Micro watersheds code	Treatable Area (ha)	Treated Area	Name of Watershed in which MWS is falling (River / Nala name)
IWMP-XXIII	Gorahari	2C2A3p1e	440.60	92.72	Arjun River
	Gorkha	2C2A3p1f	210.00	390.88	Arjun River
	Luhari	2C2A3p1g	140.00	121.84	Arjun River
	Andhoura	2C2A3p1h	70.00	406.93	Arjun River
	Vijaypur	2C2A3w2a	80.00	474.02	Arjun River
	Budi	2C2A3w2b	390.00	197.85	Arjun River
	Bagola	2C2A3w2d	247.00	191.12	Arjun River
	Gugora	2C2A3q2b	188.10	324.00	Arjun River
	Andwara	2C2A3q2f	303.00	281.70	Arjun River
	Devgan Pura	2C2A3s1a	614.70	270.45	Arjun River
	Panwari	2C2A3s1b	597.70	221.40	Arjun River
	Bahdur pur kala	2C2A3s1e	685.00	473.30	Arjun River
	Didwara	2C2A3s2a	610.80	412.67	Arjun River
	Tolapatar	2C2A3s2b	548.00	428.61	Arjun River
	Riwai	2C2A3s2e	503.00	297.73	Arjun River
	Parapatar	2C2A3s2d	398.00	222.73	Arjun River
	Dulara	2C2A3f1a	380.00	297.79	Arjun River
	Amanpura	2C2A3f1b	375.00	195.26	Arjun River

	Ghutai	2C2A3e1e	388.00	272.97	Arjun River
	Peepri	2C2A3e2e	432.00	282.20	Arjun River
	Rurikala	2C2A3e2f	267.00	137.80	Arjun River
Total			7867.90	5993.97	

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

1.2 Need and Scope for Watershed Development

Bundelkhand region had been in a grip of severe drought continuously from 2004 to 2007. In the region, more than 85 per cent of open wells were dried up due to deficit rainfall during drought. Cattle were abandoned due to shortage of water and fodder. Most part of the region was dependent on drinking water supply through tanker. Therefore, management of natural resources on watershed basis is urgent need of the region. Watershed project was selected with following long term objectives:

- To optimize productivity of the land
- To restore ecological balance in degraded and fragile eco-system
- To narrow down the disparity between rainfed and irrigated areas
- To create sustained employment opportunities

1.3 Weightage for selection of Watershed

Watershed project was selected on the basis of criteria mentioned in Table 1.4. Weights were assigned for each criteria/ parameter during site visit of microwatershed by PIA and overall weightage was estimated for the project. The seventeen criteria were taken with total of 205 weightage points. The criterion taken are availability of drinking water, irrigation water availability, degree of soil erosion, water holding capacity, area under rainfed agriculture, status of field bund/contour bund / graded bund, presence of hard rock below the land, options for livelihood, percentage of small and marginal farmers, degraded land, ground water status, status of technical knowledge for improved farming systems, weather conditions, poverty index, virginity of land, productivity potential of land and soil organic carbon status. The weightage for project is about 82.93 per cent (Table 1.5).

Table 1.4: Criteria and weightage for selection of watershed

S. No.	Criteria	Maximum Score	Range & Score			
1	Drinking water	15	Very poor Dependence on water supply through tanker (15)	Poor Partial availability within the periphery of 3-4 km (10)	Good Round the year availability within the periphery of 3-4 km (5)	Very Good Round the year availability in watershed (0)
2	Irrigation	10	No irrigation (10)	Life saving irrigation (7.5)	Partial life saving irrigation (5)	Fully covered (0)
3	Degree of soil erosion	10	Severe (10)	Medium (7.5)	Low (5)	No erosion (0)
4	Water holding capacity	10	Very poor (10)	Poor (7.5)	Good (5)	Very Good (0)
5	Area under rainfed agriculture	15	More than 90% (15)	80 to 90 % (10)	70 to 80 % (5)	Below 70% (Reject) (0)
6	Status of field bund/contour bund / graded bund	10	Below 20 % (10)	50 to 20 % (7.5)	80 to 50 (5)	Above 80% (2.5)
7	Presence of hard rock below the land	15	Hard rock starts from 5 to 20 feet (15)	Hard rock starts from 21 to 50 feet (10)	Hard rock starts from 51 to 100 feet (5)	Deep soil depth (0)
8	Options for livelihood	10	Very poor (10)	Poor (7.5)	Good (5)	Very Good (0)
9	% of small and marginal farmers	10	More than 80% (10)	50 to 80 % (5)	Less than 50% (3)	
10	Degraded land	15	High above 50% (15)	Medium 25 to 50% (10)	Low less than 10 – 25 % (5)	Very low Less than 10% (0)
11	Ground water status	10	Very poor	Poor	Good	Very Good

			(10)	(7.5)	(5)	(0)
12	Status of Technical Knowledge for improved farming systems	10	Very poor (10)	Poor (7.5)	Good (5)	Very Good (0)
13	Weather condition	15	Uncertain weather condition / Continuous drought for three years (15)	Drought comes one in five years (10)	Drought comes one in ten years (5)	Normal weather condition (0)
14	Poverty index (% of poor population)	10	Above 80% (10)	80 to 50 (7.5)	50 to 20 % (5)	Below 20 % (2.5)
15	Virginity (No treatment /intervention in last five years)	10	Above 80% (10)	80 to 50 (7.5)	50 to 20 % (5)	Below 20 % (2.5)
16	Productivity potential of land	15	Lands with low production & where productivity can be significantly enhanced with reasonable efforts (15)	Lands with moderate production & where productivity can be enhanced with reasonable efforts (10)	Lands with high production & where productivity can be marginally enhanced with reasonable efforts (5)	-
17	Organic carbon status	15	Very low (15)	Low (10)	Medium (5)	Normal (0)

Table 1.5: Weightage of the project

S. No.	Criteria	Weightage points
1	Drinking water	5
2	Irrigation	10
3	Degree of soil erosion	10
4	Water holding capacity	10
5	Area under rainfed agriculture	10
6	Status of field bund/contour bund / graded bund	10
7	Presence of hard rock below the land	10
8	Options for livelihood	10
9	% of small and marginal farmers	10
10	Degraded land	15
11	Ground water status	10
12	Status of Technical Knowledge for improved farming systems	10
13	Weather condition	10
14	Poverty index (% of poor population)	10
15	Virginity	10
16	Productivity potential of land	10
17	Organic carbon status	10
Total Weightage (Out of total 205)		170
Weightage Percentage		82.93

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

1.4 Details of ongoing watershed programme

Presently, no watershed development programme is going on in the micro-watershed. There is no on going watershed management program/ activities on thre microwatershed.

CHAPTER - 2

GENERAL DESCRIPTION OF PROJECT AREA

2.1 Location:

The micro-watersheds of IWMP-XXIII is located in Kulpahar block of Mahoba district. It is about 40 km. from Mahoba on Mahoba to Kharela road. Location (lat/long), Gram Panchayat, villages and its geographical area for each micro-watershed are depicted in Table 2.1. Total area of the project is 14660.09 ha, out of which 7867.90 ha is treatable. The geographical area of micro-watershed varied in the range between 335.69 to 770.36 ha.

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

Sl. No.	Name of micro watershed with Code	Names of villages	Longitude	Latitude	Name of Block	Area of village included in MWS(Geographical)	Details of important /approach road with distance km
1	Gorahari 2C2A3p1e	Gaurhari, Guda	79° 37'0" E – 79° 39'30" E	25° 26'0" N – 25° 28'0" N-	Kulpahar	683.74	Mahoba to Kharela road and Kulpahar to Panwari
2	Gorkha 2C2A3p1f	Gaurhari, Guda, Lidhaura Soyam, Gorkha, Dhanawan	79° 36'30" E – 79° 39'0" E	25° 24'30" N – 25° 27'0" N	Kulpahar	770.36	-do-
3	Luhari 2C2A3p1g	Lidhaura Soyam, Guda	79° 38'0" E – 79° 40'30" E	25° 25'0" N – 25° 27'0" N	Kulpahar	335.69	-do-
4	Andhoura 2C2A3p1h	Guda, Ragaul, Pratistha, Andhaura	79° 38'30" E – 79° 40'30" E	25° 26'30" N- 25° 30'0" N	Kulpahar	611.45	-do-
5	Vijaypur 2C2A3w2a	Gorkha, Lidhaura Soyam,	79° 37'0" E – 79° 39'30" E	25° 23'30" N– 25° 26'0" N	Kulpahar	710.28	-do-

		Luhari , Bejalpur					
6	Budi 2C2A3w2b	Luhari, Gorkha, Panara, Budhi	79° 36'30" E – 79° 39' 30" E	25° 22'30" N – 25° 25'0" N	Kulpahar	753.66	-do-
7	Bagola 2C2A3w2d	Gorkha, Bagaul, Rampura Kadeem , Chedimau	79° 39'30" E – 79° 42'0" E	25° 23'0" N – 25° 25'30" N	Kulpahar	561.69	-do-
8	Gugora 2C2A3q2b	Bhatwera Kala, Nauka, Khera Nankari	79° 33'0" E – 79° 35'0" E	25° 24'0" N – 25° 26'30" N	Kulpahar	656.54	-do-
9	Andwara 2C2A3q2f	Dhanawan, Andwara, Gaurhari , Bhatewara Kala	79° 35'0" E – 79° 37'0" E	25° 25'30" N – 25° 27'0" N	Kulpahar	749.61	-do-
10	Devgan Pura 2C2A3s1a	Alipura, Remalpuwa, Chatesar, Hebatpur Brahmin, Panwari	79° 27'30" – 79° 30'30" E	25° 24'30" – 25° 27'0" N	Panwari	936.09	Mahoba to Panwari road
11	Panwari 2C2A3s1b	Panwari, Nepura, Saragpura, Hebatpur, Brahman, Govindpur,	79° 26'30" – 79° 29'0" E	25° 24'0" – 25° 26'30" N	Panwari	910.38	-do-

		Chanchari					
12	Bahdur pur kala 2C2A3s1e	Hebatpur Brahmin, Chatesar, Koniya, Bijrari, Bahadurpur Kala, Saragpura, Nepura	79° 27'30" – 79° 30'0" E	25° 22'30" – 25° 25'30" N	Panwari	1042.95	-do-
13	Didwara 2C2A3s2a	Koniya, Bijrari, Chandanhas, Pahadiya Byarjaun, Parapantar, Didwara	79° 27'30" – 79° 30'0" E	25° 21'30" – 25° 24'30" N	Panwari	926.76	-do-
14	Tolapatar 2C2A3s2b	Parpantar, Didwara Rivai, Tola Pantar	79° 26' 30" – 79° 28'30" E	25° 19'30" – 25° 22'0" N	Panwari	835.40	-do-
15	Riwai 2C2A3s2e	Rivai, Tolapantar, Bhoora , Toondar	79° 25'30" – 79° 27'30" E	25° 19'30" – 25° 21'30" N	Panwari	766.32	-do-
16	Parapatar 2C2A3s2d	Parapantar, Byarjo, Didwara, Pahariya	79° 28'0" – 79° 31'0" E	25° 21'0" – 25° 24'0" N	Panwari	606.07	-do-
17	Dulara 2C2A3f1a	Tingara, Parapantar, Rivai,	79° 27'30" – 79° 31'0" E	25° 18'30" – 25° 22'0" N	Panwari	578.32	-do-

		Dulara, Bhujpura, Gadaura					
18	Amanpura 2C2A3f1b	Gadaura, Bhujpura, Amanpura Bhaddevra, Pachara	79° 28'0" – 79° 29' 30" E	25° 17' 0" – 25° 18'30" N	Panwari	570.85	-do-
19	Ghutai 2C2A3e1e	Devgaon, Rurikeela, Ghutai	79° 24'0" – 79° 26'0" E	25° 16'30" – 25° 18'30" N	Panwari	591.63	-do-
20	Peepri 2C2A3e2e	Peepri, Kanaura, Imaliya	79° 25'30" – 79° 28'0" E	25° 16' 0" – 25° 18'30" N	Panwari	658.33	-do-
21	Rurikala 2C2A3e2f	Rurikalan, Dulara, Kanaura, Imaliya	79° 25'30" – 79° 28'0" E	25° 17' 0" – 25° 19'30" N	Panwari	403.97	-do-
	Total					14660.09	

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

LOCATION MAP

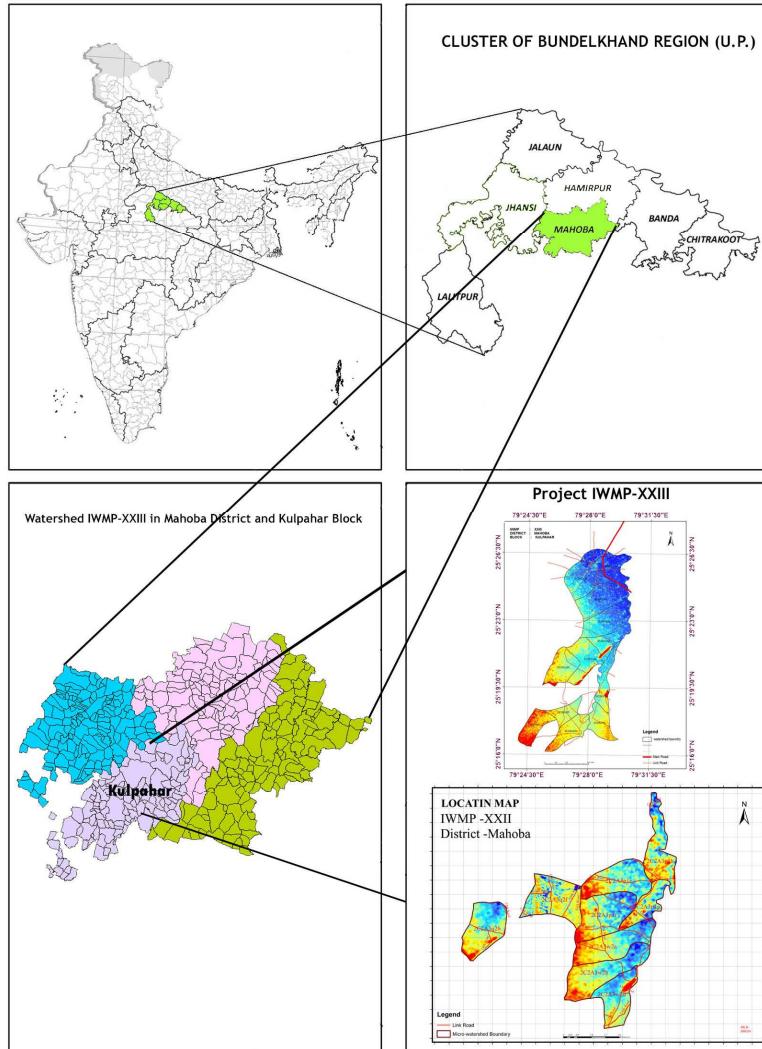


Fig 1 : Location map of the Project

2.2 Area and Landuse:

Each micro-watershed covers partly or fully lands of many village. Details of various categories of land was estimated on the basis of villages, MWS area, PRA meetings and other source such as village meetings. Village wise detailed information on type of land is depicted in Table 2.2. The total culturable land of the project is 11434.87 ha, out of which 1760.71 (15.40%) ha land is under assured irrigation mainly by means of open shallow dug wells. The cultivable rainfed, temporary and permanent wastelands are about 78.10, 5.20 and 1.30 per cent, respectively, of culturable land of the project.

Table 2.2: Details of land resources in IWMP-XXIII of Mahoba district

Sl . N o.	Name of MWS with code	Name of Village	Cultiva ted rainfed area	Cultiva ted irrigate d area	Uncultivated wasteland/ fallow		Pvt. Agri. Land				For est Lan d	Commu nity land	Other s	Total area (ha)
					Tem p.	Perman ent	Gen	SC	OBC	Total				
1	Gorahari 2C2A3p1e	Gaurhari, Guda	413.32	85.33	29.33	5.33	93.33	98.66	341.32	533.32	0	47.86	102.56	683.74
2	Gorkha 2C2A3p1f	Gaurhari, Guda, Lidhaura Soyam, Gorkha, Dhanawan	465.68	96.14	33.05	6.01	105.15	111.16	384.56	600.88	0	53.93	115.55	770.36
3	Luhari 2C2A3p1g	Lidhaura Soyam, Guda	202.92	41.89	14.4	2.62	45.82	48.44	167.58	261.84	0	23.5	50.35	335.69
4	Andhaura 2C2A3p1h	Guda, Ragaul, Pratistha, Andhaura	369.62	76.31	26.23	4.77	83.46	88.23	305.24	476.93	0	42.8	91.72	611.45

5	Vijaypur 2C2A3w2a	Gorkha, Lidhaura Soyam, Luhari , Bejalpur	429.36	88.64	30.47	5.54	96.95	102.49	354.57	554.02	0	49.72	106.54	10.28
6	Budi 2C2A3w2b	Luhari, Gorkha, Panara, Budhi	455.59	94.06	32.33	5.88	102.87	108.75	376.23	587.85	0	52.76	113.05	753.66
7	Bagola 2C2A3w2d	Gorkha, Bagaul, Rampura Kadeem , Chedimau	339.54	70.1	24.1	4.38	76.67	81.05	280.4	438.12	0	39.32	84.25	561.69
8	Gugora 2C2A3q2b	Bhatwera Kala, Nauka, Khera Nankari	396.88	81.94	28.17	5.12	89.62	94.74	327.74	512.1	0	45.96	98.48	656.54
9	Andwara 2C2A3q2f	Dhanawan, Andwara, Gaurhari , Bhatewara Kala	453.14	93.55	32.16	5.85	102.32	108.17	374.21	584.7	0	52.47	112.44	749.61
10	Devgan Pura 2C2A3s1a	Alipura, Remalpua, Chatesar, Hebatpur Brahmin, Panwari	573.17	109.52	36.51	10.95	131.43	138.73	459.99	730.15	0	65.53	140.41	936.09
11	Panwari 2C2A3s1b	Panwari, Nepura, Saragpura, Hebatpur, Brahman, Govindpur,	557.43	106.51	35.5	10.65	127.82	134.92	447.36	710.1	0	63.73	136.56	910.38

		Chanchari												
12	Bahdur pur kala 2C2A3s1e	Hebatpur Brahmin, Chatesar, Koniya, Bijnari, Bahadurpur Kala, Saragpura, Nepura	638.6	122.03	40.68	12.2	146.43	154.57	512.51	813.5	0	73.01	156.44	1042.95
13	Didwara 2C2A3s2a	Koniya, Bijnari, Chandanhas, Pahadiya Byarjaun, Parapantar, Didwara	567.46	108.43	36.14	10.84	130.12	137.35	455.41	722.87	0	64.87	139.01	926.76
14	Tolapatar 2C2A3s2b	Parapantar, Didwara Rivai, Tola Pantar	511.52	97.74	32.58	9.77	117.29	123.81	410.52	651.61	0	58.48	125.31	835.4
15	Riwai 2C2A3s2e	Rivai, Tolapantar, Bhoora , Toondar	469.22	89.66	29.89	8.97	107.59	113.57	376.57	597.73	0	53.64	114.95	766.32
16	Parapatar 2C2A3s2d	Parapantar, Byarjo, Didwara, Pahariya	371.1	70.91	23.64	7.09	85.09	89.82	297.82	472.73	0	42.42	90.91	606.07
17	Dulara 2C2A3f1a	Tingara, Parapantar, Rivai, Dulara, Bhujpura, Gadaura	354.11	67.66	22.55	6.77	81.2	85.71	284.19	451.09	0	40.48	86.75	578.32

18	Amanpura 2C2A3f1b	Gadaura, Bhujpura, Amanpura Bhaddevra, Pachara	349.53	66.79	22.26	6.68	80.15	84.6	280.52	445.26	0	39.96	85.63	570.85	
19	Ghutai 2C2A3e1e	Devgaon, Rurikeela, Ghutai	362.26	69.22	23.07	6.92	83.06	87.68	290.73	461.47	0	35.5	94.66	591.63	
20	Peepri 2C2A3e2e	Peepri, Kanaura, Imaliya	403.1	77.02	25.67	7.7	92.43	97.56	323.5	513.5	0	39.5	105.33	658.33	
21	Rurikala 2C2A3e2f	Rurikalan, Dulara, Kanaura, Imaliya	247.35	47.26	15.75	4.73	56.72	59.87	198.51	315.1	0	24.24	64.64	403.97	
	Total		8930.90	1760.71	594.48	148.77	2035.52	2149.88	7249.48	11434.8	7	0.00	1009.68	2215.54	14660.09

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

2.3 Physiography

The micro-watersheds of IWMP-XXIII is situated at an elevation of some 44 to 291 m above mean sea level and has relief from 18 to 107 m. General topography of the watershed is mild to gentle.

Name of MWS	Minimum (m)	Maximum (m)	Relief (m)
Gorahari 2C2A3p1e	142	167	25
Gorkha 2C2A3p1f	147	171	24
Luhari 2C2A3p1g	138	156	18
Andhoura 2C2A3p1h	133	153	20
Vijaypur 2C2A3w2a	138	178	40
Budi 2C2A3w2b	143	179	36
Bagola 2C2A3w2d	148	237	89
Gugora 2C2A3q2b	155	212	57
Andwara 2C2A3q2f	44	96	52
Devgan Pura 2C2A3s1a	159	191	32
Panwari 2C2A3s1b	160	194	34
Bahdur pur kala 2C2A3s1e	161	193	32
Didwara 2C2A3s2a	161	191	30
Tolapatar 2C2A3s2b	169	261	92
Riawai 2C2A3s2e	173	277	104
Parapatar 2C2A3s2d	161	191	30
Dulara 2C2A3f1a	165	253	88
Amanpura 2C2A3f1b	175	203	28
Ghutai 2C2A3e1e	184	291	107
Peepri 2C2A3e2e	179	213	34
Rurikala 2C2A3e2f	175	206	31

Slope: Spatial distribution of different slope classes was prepared using Arc GIS. Slope was divided into five classes' viz. 0-0.5, 0.5-1.0, 1-3, 3-5, and more than 5 per cent. The dominant slope category in the project were 1-3 per cent (60%) followed by 3-5 per cent (21%).

2.4 Climate

The annual rainfall of the Mahoba district varies from 454 to 1009.10 mm, about 92% of which is received during South-West monsoon starting from June, July and August. The total rainy days/year vary from 35-50 in the district with an average of 38. The distribution of rainfall is very erratic. Low rainfall and drought are common features. Long dry spells during rainy season are also experienced often, which adversely affect the crops. The climate of Mahoba is characterized by a hot dry summer and cold winter and is marked for high variability of rainfall year to year. There are primarily four seasons: – Dry Summer season – from March to May i.e. before advent of monsoon, moist summer season – from June to September (Monsoon) transition period - in October and November, which is the post monsoon period, and winter season – from December to February The coldest months in the year are December and January. Average monthly rainfall and temperature is presented in Table 2.3.

Table 2.3: Average monthly rainfall and Temperature at IWMP-XXIII, Charkhari, Mahoba , U.P.

Month	Average Annual Rainfall (mm)					Average Temperature °c	
	2006	2007	2008	2009	2010	Max.	Min.
January	0	0	0	2.8	2.2	16.8	4.5
February	0	57.8	0	1.8	22.1	24.2	12.6
March	10.7	7.1	0	2.0	0	31.8	21.6
April	0	0	0	5.2	0	37.4	29.7
May	13.2	0.7	2.2	31.2	0.5	44.4	34.2
June	43.3	56.9	219.5	10.7	14.2	46.2	35.1
July	228.2	115.2	431.0	179.4	148.8	47.4	33.6
August	87.5	155.8	229.3	204.4	166.9	42.3	30.7
September	55.7	60.4	109.9	135.1	139.0	37.4	20.20
October	7.3	1.1	5.8	86.4	25.0	34.7	28.5
November	8.1	0	11.4	17.2	20.7	31.4	18.8
December	0	3.3	0	6.8	0.5	24.4	10.3
Total	454.00	458.30	1009.1	683.0	539.9		

Source: <http://www.imd.gov.in/section/hydro/distrainfall/webrain/up>

The open pan evaporation varied in the range of 0.5 to 23 mm/day during the year with average of about 5 mm/day. Average relative humidity varied in the range of 25 to 98 per cent, however the range of wind speed is 0.9 to 16 kmph. The details of flood and drought in the project area are showed in Table 2.5.

Table 2.5: Details of flood and drought in the Project IWMP- XXIII

Name of Micro Watershed	Particulars	Villages	Periodicity		Not affected
			Annual	Any other (please specify)	
Gorahari	Flood	No. of villages: 56	NA	NA	NA
Gorkha		Name(s) of villages	NA	NA	NA
Luhari	Drought	No. of villages- 56 Name of Village: Gaurhari, Guda, Lidhaura Soyam, Gorkha, Dhanawan, Ragaul, Pratistha, Andhaura, Luhari , Bejalpur, Panara, Budhi, Bagaul, Rampura Kadeem , Chedimau, Bhatwera Kala, Nauka, Khera Nankari, Andwara and Bhatewara Kala, Alipura, Remalpua, Chatesar, Panwari, Hebatpur, Brahman, Govindpur, Chanchari, Koniya, Bijnari, Bahadurpur Kala, Saragpura, Nepura, Chandanhas, Pahadiya, Byarjaun, Parapantar, Didwara, Rivai, Tolapantar, Bhoora , Toondar, Byarjo, Tingara, Bhujpura, Gadaura, Amanpura, Bhadevra, Pachara, Devganpura, Ghutai, Peepri, Rurikalan, Dulara, Kanaura and Imaliya	NA	NA	NA
Andhaura		twice in 5 years however, the region experienced severe drought during 2004-2007 and 2009 & 2010 were deficit by about 17 to 20 per cent			
Vijaypur					
Budi					
Bagola					
Gugora					
Andwara					
Devgan Pura					
Panwari					
Bahdurpur kala					
Didwara					
Tolapatar					
Riwai					
Parapatar					
Dulara					
Amanpura					
Ghutai					
Peepri					
Rurikala					

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

CHAPTER – 3

BASELINE SURVEY AND PARTICIPATORY RURAL APPRAISAL

Participatory rural appraisal (PRA) is a tool to appraise the socio-economic conditions along with all kind of resources available in the watershed through the active participation of the villagers. There are several tools and techniques of PRA. The PRA including house hold survey of Gorahari, Gorkha, Luhari, Andhaura, Vijaypur, Budi , Bagola, Gugora, Andwara, Devgan Pura, Panwari, Bahdurpur kala, Didwara, Tolapatar, Riwai, Parapatar, Dulara, Amanpura, Ghutai, Peepri and Rurikala micro-watershed was conducted by PIA and described in the subsequent sections.

3.1. Social-Economic Analysis

About 19.75 per cent of the population is scheduled caste. Population details of the IWMP-XXIII are given in Table 3.1. In general 9.0 per cent population migrate from the project area due to drought and earn livelihood, however, migration was more than 50 per cent during 2007-08 due to continuous drought from 2004 to 2007 in the region. Majority of population migrate to New Delhi, Haryana and Punjab during drought year. The scenario of migration, infrastructure and common properties resources available in the project was analysed through house hold survey and is presented in Table 3.2, 3.3 and 3.4, respectively³ and 3.4, respectively.

Table 3.1: Demographic Features in the project area (IWMP-XXIII, Mahoba)

Sr. No.	Name of Micro Watershed	Name of village	Total Population			Population of SC/ST		
			Total	Male	Female	Total	Male	Female
1	Gorahari 2C2A3p1e	Gaurhari, Guda	1150	598	552	217	113	104
2	Gorkha 2C2A3p1f	Gaurhari, Guda, Lidhaura Soyam, Gorkha, Dhanawan	550	286	264	104	54	50
3	Luhari 2C2A3p1g	Lidhaura Soyam, Guda	364	189	175	69	36	33
4	Andhaura 2C2A3p1h	Guda, Ragaul, Pratistha, Andhaura	200	104	96	37	19	18
5	Vijaypur	Gorkha,	225	117	108	42	22	20

	2C2A3w2a	Lidaura Soyam, Luhari , Bejalpur						
6	Budi 2C2A3w2b	Luhari, Gorkha, Panara, Budhi	1050	546	504	198	103	95
7	Bagola 2C2A3w2d	Gorkha, Bagaul, Rampura Kadeem , Chedimau	650	338	312	123	64	59
8	Gugora 2C2A3q2b	Bhatwera Kala, Nauka, Khera Nankari	500	260	240	94	49	45
9	Andwara 2C2A3q2f	Dhanawan, Andwara, Gaurhari , Bhatewara Kala	825	429	396	156	81	75
10	Devgan Pura 2C2A3s1a	Alipura, Remalpua, Chatesar, Hebatpur Brahmin, Panwari	1825	949	876	346	180	166
11	Panwari 2C2A3s1b	Panwari, Nepura, Saragpura, Hebatpur, Brahman, Govindpur, Chanchari	1850	962	888	350	182	168
12	Bahdur pur kala 2C2A3s1e	Hebatpur Brahmin, Chatesar,	1103	107	996	394	205	189

		Koniya, Bijnari, Bahadurpur Kala, Saragpura, Nepura						
13	Didwara 2C2A3s2a	Koniya, Bijnari, Chandanhas, Pahadiya Byarjaun, Parapantar, Didwara	1725	897	828	327	170	157
14	Tolapatar 2C2A3s2b	Parapantar, Didwara Rivai, Tola Pantar	1625	845	780	308	160	148
15	Riwai 2C2A3s2e	Rivai, Tolapantar, Bhoora , Toondar	1500	780	720	284	148	136
16	Parapatar 2C2A3s2d	Parapantar, Byarjo, Didwara, Pahariya	1204	626	578	228	119	109
17	Dulara 2C2A3f1a	Tingara, Parapantar, Rivai, Dulara, Bhujpura, Gadaura	1100	572	528	208	108	100
18	Amanpura 2C2A3f1b	Gadaura, Bhujpura, Amanpura Bhadevra, Pachara	1150	598	552	217	113	104
19	Ghutai 2C2A3e1e	Devgaon,	1225	637	588	232	121	111

		Rurikeela, Ghutai						
20	Peepri 2C2A3e2e	Peepri, Kanaura, Imaliya	1325	689	636	250	130	120
21	Rurikala 2C2A3e2f	Rurikalan, Dulara, Kanaura, Imaliya	775	403	372	146	76	70
	Total		21921	10932	10989	4330	2253	2077

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Table 3.2: Details of land holding pattern in IWMP-XXIII, Mahoba

Sr. No.	Names MWS with code	Name of Village	Type of Farmer	No. of households	No. of BPL households	Land holding (ha)		
						Irrigate d	Rainfed	Total
1	Gorahari 2C2A3p1e	Gaurhari, Guda	(i) Big (above 4 ha.)	18	-	49.49	52.21	101.70
			(ii) Medium (2-4 ha.)	73	-	29.01	175.39	204.40
			(iii) Small (1-2 ha.)	75	-	6.83	90.67	97.50
			(iv) Marginal (0-1ha.)	54	54	-	37.00	37.00
			(v) Landless	10	10	-	-	-
			Total	230	64	85.33	355.27	440.60
2	Gorkha 2C2A3p1f	Gaurhari, Guda, Lidhaura Soyam, Gorkha, Dhanawan	(i) Big (above 4 ha.)	8	-	55.76	-2.56	53.20
			(ii) Medium (2-4 ha.)	28	-	32.69	65.31	98.00
			(iii) Small (1-2 ha.)	33	-	7.69	35.21	42.90
			(iv) Marginal (0-1ha.)	37	37	-	15.90	15.90

			(v) Landless	4	4	-	-	-
			Total	110	41	96.14	113.86	210.00
3	Luhari 2C2A3p1g	Lidhaura Soyam, Guda	(i) Big (above 4 ha.)	6	-	24.30	17.70	42.00
			(ii) Medium (2-4 ha.)	18	-	14.24	41.56	55.80
			(iii) Small (1-2 ha.)	20	-	3.35	22.65	26.00
			(iv) Marginal (0-1ha.)	28	28	-	16.20	16.20
			(v) Landless	1	1	-	-	-
			Total	73	29	41.89	98.11	140.00
4	Andhoura 2C2A3p1h	Guda, Ragaul, Pratistha, Andhaura	(i) Big (above 4 ha.)	4	-	44.26	-20.98	23.28
			(ii) Medium (2-4 ha.)	7	-	25.95	-4.81	21.14
			(iii) Small (1-2 ha.)	9	-	6.10	5.60	11.70
			(iv) Marginal (0-1ha.)	20	20	-	13.88	13.88
			(v) Landless	0	0	-	-	-
			Total	40	20	76.31	-6.31	70.00
5	Vijaypur 2C2A3w2a	Gorkha, Lidhaura Soyam, Luhari , Bejalpur	(i) Big (above 4 ha.)	4	-	51.41	-28.81	22.60
			(ii) Medium (2-4 ha.)	9	-	30.14	-4.85	25.29
			(iii) Small (1-2 ha.)	12	-	7.09	11.39	18.48
			(iv) Marginal (0-1ha.)	20	20	-	13.63	13.63
			(v) Landless	0	0	-	-	-
			Total	45	20	88.64	-8.64	80.00
6	Budi 2C2A3w2b	Luhari, Gorkha, Panara, Budhi	(i) Big (above 4 ha.)	20	-	54.55	58.45	113.00
			(ii) Medium (2-4 ha.)	48	-	31.98	102.42	134.40
			(iii) Small (1-2 ha.)	63	-	7.52	87.61	95.13
			(iv) Marginal (0-1ha.)	75	75	-	47.47	47.47
			(v) Landless	4	4	-	-	-

			Total	210	79	94.06	295.94	390.00
7	Bagola 2C2A3w2d	Gorkha, Bagaul, Rampura Kadeem , Chedimau	(i) Big (above 4 ha.)	13	-	40.66	32.40	73.06
			(ii) Medium (2-4 ha.)	29	-	23.83	62.01	85.84
			(iii) Small (1-2 ha.)	36	-	5.61	57.75	63.36
			(iv) Marginal (0-1ha.)	49	49	-	24.74	24.74
			(v) Landless	3	3	-	-	-
			Total	130	52	70.10	176.90	247.00
8	Gugora 2C2A3q2b	Bhatwera Kala, Nauka, Khera Nankari	(i) Big (above 4 ha.)	12	-	47.52	20.28	67.80
			(ii) Medium (2-4 ha.)	24	-	27.86	39.34	67.20
			(iii) Small (1-2 ha.)	28	-	6.55	32.65	39.20
			(iv) Marginal (0-1ha.)	35	35	-	13.90	13.90
			(v) Landless	1	1	-	-	-
			Total	100	36	81.94	106.16	188.10
9	Andwara 2C2A3q2f	Dhanawan, Andwara, Gaurhari , Bhatewara Kala	(i) Big (above 4 ha.)	19	-	54.26	53.09	107.35
			(ii) Medium (2-4 ha.)	35	-	31.81	67.94	99.75
			(iii) Small (1-2 ha.)	47	-	7.48	58.32	65.80
			(iv) Marginal (0-1ha.)	60	60	-	30.10	30.10
			(v) Landless	4	4	-	-	-
			Total	165	64	93.55	209.45	303.00
10	Devgan Pura 2C2A3s1a	Alipura, Remalpua, Chatesar, Hebatpur Brahmin, Panwari	(i) Big (above 4 ha.)	27	-	54.76	96.44	151.20
			(ii) Medium (2-4 ha.)	115	-	32.86	335.14	368.00
			(iii) Small (1-2 ha.)	119	14	21.90	156.60	178.50
			(iv) Marginal (0-1ha.)	96	81	-	32.45	32.45
			(v) Landless	8	8	-	-	-
			Total	365	103	109.52	620.63	730.15
11	Panwari 2C2A3s1b	Panwari, Nepura, Saragpura,	(i) Big (above 4 ha.)	25	-	53.26	86.74	140.00

		Hebatpur, Brahman, Govindpur, Chanchari	(ii) Medium (2-4 ha.)	105	-	31.95	293.55	325.50
			(iii) Small (1-2 ha.)	125	15	21.30	166.20	187.50
			(iv) Marginal (0-1ha.)	108	91	-	57.10	57.10
			(v) Landless	7	7	-	-	-
			Total	370	113	106.51	603.59	710.10
12	Bahdur pur kala 2C2A3s1e		(i) Big (above 4 ha.)	30	-	61.01	106.99	168.00
		Hebatpur Brahmin, Chatesar, Koniya, Bjrari, Bahadurpur Kala, Saragpura, Nepura	(ii) Medium (2-4 ha.)	125	-	36.61	350.89	387.50
			(iii) Small (1-2 ha.)	130	15	24.41	177.09	201.50
			(iv) Marginal (0-1ha.)	115	97	-	56.50	56.50
			(v) Landless	15	15	-	-	-
			Total	415	127	122.03	691.47	813.50
13	Didwara 2C2A3s2a	Koniya, Bjrari, Chandanhas, Pahadiya Byarjaun, Parapantar, Didwara	(i) Big (above 4 ha.)	25	-	54.22	94.53	148.75
			(ii) Medium (2-4 ha.)	105	-	32.53	320.27	352.80
			(iii) Small (1-2 ha.)	115	13	21.69	176.11	197.80
			(iv) Marginal (0-1ha.)	90	76	-	23.52	23.52
			(v) Landless	10	10	-	-	-
			Total	345	99	108.43	614.44	722.87
14	Tolapatar 2C2A3s2b	Parpantar, Didwara Rivai, Tola Pantar	(i) Big (above 4 ha.)	19	-	48.87	59.43	108.30
			(ii) Medium (2-4 ha.)	94	-	29.32	290.28	319.60
			(iii) Small (1-2 ha.)	106	12	19.55	150.05	169.60
			(iv) Marginal (0-1ha.)	98	83	-	54.11	54.11
			(v) Landless	8	8	-	-	-
			Total	325	103	97.74	553.87	651.61
15	Riwai 2C2A3s2e	Rivai, Tolapantar, Bhoora , Toondar	(i) Big (above 4 ha.)	20	-	44.83	71.17	116.00
			(ii) Medium (2-4 ha.)	90	-	26.90	261.10	288.00
			(iii) Small (1-2 ha.)	102	12	17.93	140.17	158.10
			(iv) Marginal (0-	80	68	-	35.63	35.63

			1ha.)					
			(v) Landless	8	8	-	-	-
			Total	300	88	89.66	508.07	597.73
16	Parapatar 2C2A3s2d	Parapantar, Byarjo, Didwara, Pahariya	(i) Big (above 4 ha.)	15	-	35.46	51.54	87.00
			(ii) Medium (2-4 ha.)	70	-	21.27	202.73	224.00
			(iii) Small (1-2 ha.)	80	9	14.18	113.82	128.00
			(iv) Marginal (0-1ha.)	70	59	-	33.73	33.73
			(v) Landless	6	6	-	-	-
			Total	241	74	70.91	401.82	472.73
17	Dulara 2C2A3f1a	Tingara, Parapantar, Rivai, Dulara, Bhujpura, Gadaura	(i) Big (above 4 ha.)	15	-	33.83	53.17	87.00
			(ii) Medium (2-4 ha.)	65	-	20.30	194.20	214.50
			(iii) Small (1-2 ha.)	70	8	13.53	105.47	119.00
			(iv) Marginal (0-1ha.)	65	55	-	30.59	30.59
			(v) Landless	5	5	-	-	-
			Total	220	68	67.66	383.43	451.09
18	Amanpura 2C2A3f1b	Gadaura, Bhujpura, Amanpura Bhaddevra, Pachara	(i) Big (above 4 ha.)	16	-	33.39	57.81	91.20
			(ii) Medium (2-4 ha.)	65	-	20.04	187.96	208.00
			(iii) Small (1-2 ha.)	75	9	13.36	106.64	120.00
			(iv) Marginal (0-1ha.)	68	57	-	26.06	26.06
			(v) Landless	6	6	-	-	-
			Total	230	72	66.79	378.47	445.26
19	Ghutai 2C2A3e1e	Devgaon, Rurikeela, Ghutai	(i) Big (above 4 ha.)	16	-	34.61	54.99	89.60
			(ii) Medium (2-4 ha.)	70	-	20.77	196.23	217.00
			(iii) Small (1-2 ha.)	85	10	13.84	113.66	127.50
			(iv) Marginal (0-1ha.)	65	55	-	27.37	27.37
			(v) Landless	9	9	-	-	-
			Total	245	74	69.22	392.25	461.47

20	Peepri 2C2A3e2e	Peepri, Kanaura, Imaliya	(i) Big (above 4 ha.)	14	-	38.51	42.69	81.20
			(ii) Medium (2-4 ha.)	75	-	23.11	224.39	247.50
			(iii) Small (1-2 ha.)	95	11	15.40	146.10	161.50
			(iv) Marginal (0-1ha.)	75	63	-	23.30	23.30
			(v) Landless	6	6	-	-	-
			Total	265	80	77.02	436.48	513.50
21	Rurikala 2C2A3e2f	Rurikalan, Dulara, Kanaura, Imaliya	(i) Big (above 4 ha.)	10	-	23.63	34.37	58.00
			(ii) Medium (2-4 ha.)	46	-	14.18	137.62	151.80
			(iii) Small (1-2 ha.)	50	6	9.45	70.55	80.00
			(iv) Marginal (0-1ha.)	43	36	-	25.30	25.30
			(v) Landless	6	6	-	-	-
			Total	155	48	47.26	267.84	315.10
		Total		4579	1454	1760.71	7193.1	8953.81

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Table 3.3: Details of migration from Project area (IWMP-XXIII, Mahoba): 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	Gorahari 2C2A3p1e	Gaurhari, Guda	92	140-190	Drought / Earn money	450-1200 Km	Labour	0.25-0.40
2	Gorkha 2C2A3p1f	Gaurhari, Guda, Lidaura Soyam, Gorkha, Dhanawan	104	140-190	-do-	450-1200 Km	Labour	0.25-0.40
3	Luhari 2C2A3p1g	Lidaura Soyam, Guda	45	140-190	-do-	450-1200 Km	Labour	0.25-0.40
4	Andhoura 2C2A3p1h	Guda, Ragaul, Pratistha, Andhaura	82	140-190	-do-	450-1200 Km	Labour	0.25-0.40
5	Vijaypur 2C2A3w2a	Gorkha, Lidaura Soyam, Luhari , Bejalpur	96	140-190	-do-	450-1200 Km	Labour	0.25-0.40
6	Budi 2C2A3w2b	Luhari, Gorkha, Panara, Budhi	102	140-190	Drought / Earn money	450-1200 Km	Labour	0.25-0.40
7	Bagola	Gorkha,	76	140-190	-do-	450-1200 Km	Labour	0.25-0.40

	2C2A3w2d	Bagaul, Rampura Kadeem , Chedimau						
8	Gugora 2C2A3q2b	Bhatwera Kala, Nauka, Khera Nankari	88	140-190	-do-	450-1200 Km	Labour	0.25-0.40
9	Andwara 2C2A3q2f	Dhanawan, Andwara, Gaurhari , Bhatewara Kala	102	140-190	-do-	450-1200 Km	Labour	0.25-0.40
10	Devgan Pura 2C2A3s1a	Alipura, Remalpua, Chatesar, Hebatpur Brahmin, Panwari	127	130-180	Drought / Earn money	550-1100 Km	Labour	0.25-0.40
11	Panwari 2C2A3s1b	Panwari, Nepura, Saragpura, Hebatpur, Brahman, Govindpur, Chanchari	129	130-180	-do-	550-1100 Km	Labour	0.25-0.40
12	Bahdur pur kala 2C2A3s1e	Hebatpur Brahmin, Chatesar, Koniya, Bijrari,	145	130-180	-do-	550-1100 Km	Labour	0.25-0.40

		Bahadurpur Kala, Saragpura, Nepura						
13	Didwara 2C2A3s2a	Koniya, Bijrari, Chandanhas, Pahadiya Byarjaun, Parapantar, Didwara	120	130-180	-do-	550-1100 Km	Labour	0.25-0.40
14	Tolapatar 2C2A3s2b	Parpantar, Didwara Rivai, Tola Pantar	113	130-180	-do-	550-1100 Km	Labour	0.25-0.40
15	Riwai 2C2A3s2e	Rivai, Tolapantar, Bhoora , Toondar	105	130-180	-do-	550-1100 Km	Labour	0.25-0.40
16	Parapatar 2C2A3s2d	Parapantar, Byarjo, Didwara, Pahariya	84.	130-180	-do-	550-1100 Km	Labour	0.25-0.40
17	Dulara 2C2A3f1a	Tingara, Parapantar, Rivai, Dulara, Bhujpura, Gadaura	77	130-180	-do-	550-1100 Km	Labour	0.25-0.40
18	Amanpura 2C2A3f1b	Gadaura, Bhujpura, Amanpura	80.	130-180	-do-	550-1100 Km	Labour	0.25-0.40

		Bhaddevra, Pachara						
19	Ghutai 2C2A3e1e	Devgaon, Rurikeela, Ghutai	85.	130-180	-do-	550-1100 Km	Labour	0.25-0.40
20	Peepri 2C2A3e2e	Peepri, Kanaura, Imaliya	92	130-180	-do-	550-1100 Km	Labour	0.25-0.40
21	Rurikala 2C2A3e2f	Rurikalan, Dulara, Kanaura, Imaliya	54	130-180	-do-	550-1100 Km	Labour	0.25-0.40
	Total		1211					

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Table 3.4: Details of infrastructure in IWMP-XXIII, Mahoba

Sr. No.	Name of Project	Parameters		Status			
1	IWMP-XXIII	(i)	Name of villages connected to the main road by an all-weather road	Mahoba to Kharela, Kulpahar to Panwari			
		(ii)	Village's Name provided with electricity	All villages			
		(iii)	No. of households without access to drinking water	About 5-10 per cent house holds depends on others' source of drinking water			
		(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 39	(S) 03	(HS) 01	(VI) -
		(v)	Names of villages with access to Primary Health Centre	NA			
		(vi)	Names of villages with access to Veterinary Dispensary	02			
		(vii)	Names of villages with access to Post Office	02			
		(viii)	Names of villages with access to Banks	01			
		(ix)	Names of villages with access to Markets/ mandis	01			
		(x)	Names of villages with access to Agro-industries	N.A			
		(xi)	Total quantity of surplus milk/ deficit	-			
		(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) -	(S) -	(PA) -	(O) 04
		(xiii)	Name of villages with access to Anganwadi Centre	At each Gram Panchayat			
		(xiv)	Community centre, Panchayat Ghar	Available			

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Note: Micro-watershed wise information is kept in project file

Table 3.5: Details of common property resources In IWMP-XXIII, Mahoba

Names of Project	CPR Particulars	Total Area (ha) Area owned/ In possession of				Area available for treatment (ha)			
		Pvt. persons	Govt. Revenue	PRI	Any other (Pl. Specify)	Pvt. persons	Govt. (specify dept.)	PRI	Any other (Pl. Specify)
IWMP-XXIII	(i) Wasteland/ degraded land	769.63	-	110.43	-	769.63	-	110.43	
	(ii) Pastures	-	-	-	-	-	-	-	-
	(iii) Orchards	-	-	-	-	-	-	-	-
	(iv) Village Woodlot	84.17	-	61.10	-	84.17	-	61.10	-
	(v) Forest	-	-	-	-	-	-	-	-
	(vi) Village Ponds/ Tanks	-	-	15.79	-	-	-	-	-
	(vii) Community Buildings	-	-	86.39	-	-	-	-	-
	(viii) Weekly Markets	-	-	-	-	-	-	-	--
	(ix) Permanent markets	-	-	-	-	-	-	-	--
	(x) Temples/ Places of worship	-	-	30.82	-	-	-	-	--
	(xi) Habitat, Chakmarg, Sector, Road etc	-	677.14	-	-	-	-	-	-
Total		853.84	677.14	297.38	-	853.84	-	171.53	-

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

3.2 Soil and Land Holding Pattern

Major soils of the project are light and medium textured soil (sandy loam, loam and silty loam). Area details of each micro watershed are given in Table 3.6

Table 3.6: Details of Soil texture in IWMP-XXIII, Mahoba

Sr. No.	MWS Project	Area in different Soil Group (ha)			
		Light textured soil (sand, loamy sand)	Medium textured soil (Sandy loam, loam, silt loam)	Heavy textured soil (Clayey)	Details
1	Gorahari 2C2A3p1e	143.59	348.71	191.45	Purwa, Mar+kabar
2	Gorkha 2C2A3p1f	192.59	392.88	184.89	Purwa, Mar+kabar
3	Luhari 2C2A3p1g	60.42	174.56	100.71	Purwa, Mar+kabar
4	Andhoura 2C2A3p1h	146.75	336.30	128.40	Purwa, Mar+kabar
5	Vijaypur 2C2A3w2a	127.85	340.93	241.50	Purwa, Mar+kabar
6	Budi 2C2A3w2b	150.73	422.05	180.88	Purwa, Mar+kabar
7	Bagola 2C2A3w2d	123.57	325.78	112.34	Purwa, Mar+kabar
8	Gugora 2C2A3q2b	128.03	374.23	154.29	Purwa, Mar+kabar
9	Andwara 2C2A3q2f	153.67	397.29	198.65	Purwa, Mar+kabar
10	Bragpur (2C1B3d1a)	196.58	477.41	262.11	Purwa, Mar+kabar
11	Bamhauli kala (2C1B3d1b)	227.60	464.29	218.49	Purwa, Mar+kabar
12	Kurara dang (2C1B3d1c)	187.73	542.33	312.89	Purwa, Mar+kabar
13	Maharajpura (2C1B3d3a)	222.42	509.72	194.62	Purwa, Mar+kabar
14	Karhara kala (2C1B3d3b)	150.37	400.99	284.04	Purwa, Mar+kabar
15	Supa (2C1B3d3c)	153.26	429.14	183.92	Purwa, Mar+kabar
16	Bagraun (2C1B3d3d)	133.34	351.52	121.21	Purwa, Mar+kabar
17	Bamrara (2C1B3d2a)	112.77	329.64	135.91	Purwa, Mar+kabar
18	Sohjana (2C1B3d2b)	117.02	302.55	151.28	Purwa, Mar+kabar
19	Itawa (2C1B3d2c)	121.28	313.56	156.78	Purwa, Mar+kabar
20	Majhol (2C1B3d2d)	134.96	348.91	174.46	Purwa, Mar+kabar
21	Nathupura (2C1B3d2f)	82.81	214.10	107.05	Purwa, Mar+kabar
		3067.34	7796.89	3795.87	8827.07

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

3.3 Major Crops, its Productivity and Production

Micro-watershed wise grown crops, their productivity and production under irrigated and rainfed condition is given in Table 3.7. As far as productivity of cereals is concerned, it is significantly lower than the state and national average. Micro-watershed wise cropping intensity varies from 103.07 to 110.22 per cent with an average 106.81 per cent for the project.

Table 3.7: Micro-watershed wise details of Crops, their Productivity and Production in IWMP-XXIII, Mahoba Gorahari 2C2A3p1e

S.No	Crop	Area in (ha.)		Productivity q/ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	72.15	0.00	3.30	0.00	238.10	0.00	476.19
2	Moong	0.00	22.15	0.00	2.90	0.00	64.24	0.00	115.62
3	Arhar	0.00	30.16	0.00	5.40	0.00	162.86	0.00	27.69
4	Sorghum	0.00	16.26	0.00	5.90	0.00	95.93	0.00	441.30
5	Til	0.00	53.12	0.00	1.80	0.00	95.62	0.00	181.67
	Total		193.84				656.74		8001.17
B	Rabi								
1	Wheat	85.33	11.32	22.60	12.30	1928.47	139.24	2024.90	137.84
2	Masoor	0.00	21.64	0.00	11.20	0.00	242.37	0.00	239.94
3	Gram	0.00	72.02	0.00	4.50	0.00	324.09	0.00	7720.24
4	Pea	0.00	158.35	0.00	5.70	0.00	902.60	0.00	866.49
5	Mustard	0.00	35.26	0.00	7.10	0.00	250.35	0.00	876.21
	Total	85.33	298.59			1928.47	1858.64	2024.90	9840.73
C	Zaid	Nil							
	Cultivable Area	533.32	Cropping Intensity		108.33				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Gorkha 2C2A3p1f

S.No	Crop	Area in (ha.)		Productivity q/ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	91.26	0.00	3.30	0.00	301.16	0.00	602.32
2	Moong	0.00	18.48	0.00	2.90	0.00	53.59	0.00	96.47
3	Arhar	0.00	32.34	0.00	5.40	0.00	174.64	0.00	29.69
4	Sorghum	0.00	16.84	0.00	5.90	0.00	99.36	0.00	457.04
5	Til	0.00	72.36	0.00	1.80	0.00	130.25	0.00	247.47
	Total		231.28				758.99		8001.17
B	Rabi								
1	Wheat	96.14	15.48	22.60	12.30	2172.78	190.40	2281.42	188.50
2	Masoor	0.00	26.40	0.00	11.20	0.00	295.68	0.00	292.72
3	Gram	0.00	70.35	0.00	4.50	0.00	316.58	0.00	7720.24
4	Pea	0.00	192.35	0.00	5.70	0.00	1096.40	0.00	1052.54
5	Mustard	0.00	24.78	0.00	7.10	0.00	175.94	0.00	615.78
	Total	96.14	329.36			2172.78	2074.99	2281.42	9869.79
C	Zaid	Nil							
	Cultivable Area	600.88	Cropping Intensity		109.30				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Luhari 2C2A3p1g

S.No	Crop	Area in (ha.)		Productivity q/ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Grain/Main product	Fodder/Fuel/ Other Product.		
						Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	38.59	0.00	3.30	0.00	127.35	0.00	254.69
2	Moong	0.00	12.48	0.00	2.90	0.00	36.19	0.00	65.15
3	Arhar	0.00	14.01	0.00	5.40	0.00	75.68	0.00	12.86
4	Sorghum	0.00	5.97	0.00	5.90	0.00	35.22	0.00	162.03
5	Til	0.00	30.26	0.00	1.80	0.00	54.47	0.00	103.49
	Total		101.31				328.91		8001.17
B	Rabi								
1	Wheat	41.89	4.89	22.60	12.30	946.81	60.15	994.15	59.55
2	Masoor	0.00	12.34	0.00	11.20	0.00	138.21	0.00	136.83
3	Gram	0.00	26.25	0.00	4.50	0.00	118.11	0.00	7720.24
4	Pea	0.00	84.15	0.00	5.70	0.00	479.66	0.00	460.47
5	Mustard	0.00	10.38	0.00	7.10	0.00	73.70	0.00	257.94
	Total	41.89	138.01			946.81	869.82	994.15	8635.02
C	Zaid	Nil							
	Cultivable Area	261.84		Cropping Intensity	107.40				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Andhoura 2C2A3p1h

S.No	Crop	Area in (ha.)		Productivity q/ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	75.36	0.00	3.30	0.00	248.69	0.00	497.38
2	Moong	0.00	19.48	0.00	2.90	0.00	56.49	0.00	101.69
3	Arhar	0.00	25.87	0.00	5.40	0.00	139.71	0.00	23.75
4	Sorghum	0.00	12.54	0.00	5.90	0.00	73.99	0.00	340.34
5	Til	0.00	56.24	0.00	1.80	0.00	101.23	0.00	192.34
	Total		189.49				620.11		8001.17
B	Rabi								
1	Wheat	76.31	11.16	22.60	12.30	1724.58	137.24	1810.81	135.87
2	Masoor	0.00	16.48	0.00	11.20	0.00	184.58	0.00	182.73
3	Gram	0.00	52.49	0.00	4.50	0.00	236.22	0.00	7720.24
4	Pea	0.00	161.25	0.00	5.70	0.00	919.13	0.00	882.36
5	Mustard	0.00	18.49	0.00	7.10	0.00	131.28	0.00	459.48
	Total	76.31	259.87			1724.58	1608.45	1810.81	9380.68
C	Zaid	Nil							
	Cultivable Area	476.93	Cropping Intensity		110.22				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Vijaypur 2C2A3w2a

S.No	Crop	Area in (ha.)		Productivity q/ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	70.26	0.00	3.30	0.00	231.86	0.00	463.72
2	Moong	0.00	23.48	0.00	2.90	0.00	68.09	0.00	122.57
3	Arhar	0.00	28.03	0.00	5.40	0.00	151.35	0.00	25.73
4	Sorghum	0.00	15.84	0.00	5.90	0.00	93.46	0.00	429.90
5	Til	0.00	49.26	0.00	1.80	0.00	88.67	0.00	168.47
	Total		186.87				633.43		8001.17
B	Rabi								
1	Wheat	88.64	16.98	22.60	12.30	2003.33	208.85	2103.50	206.77
2	Masoor	0.00	21.37	0.00	11.20	0.00	239.34	0.00	236.95
3	Gram	0.00	60.57	0.00	4.50	0.00	272.57	0.00	7720.24
4	Pea	0.00	174.26	0.00	5.70	0.00	993.28	0.00	953.55
5	Mustard	0.00	23.15	0.00	7.10	0.00	164.37	0.00	575.28
	Total	88.64	296.33			2003.33	1878.41	2103.50	9692.78
C	Zaid	Nil							
	Cultivable Area	554.02	Cropping Intensity		103.22				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Budi 2C2A3w2b

S.No	Crop	Area in (ha.)		Productivity q/ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Grain/Main product	Fodder/Fuel/ Other Product.		
						Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	85.26	0.00	3.30	0.00	281.36	0.00	562.72
2	Moong	0.00	23.19	0.00	2.90	0.00	67.25	0.00	121.05
3	Arhar	0.00	29.54	0.00	5.40	0.00	159.50	0.00	27.12
4	Sorghum	0.00	18.49	0.00	5.90	0.00	109.09	0.00	501.82
5	Til	0.00	74.26	0.00	1.80	0.00	133.67	0.00	253.97
	Total		230.74				750.87		8001.17
B	Rabi								
1	Wheat	94.06	18.49	22.60	12.30	2125.68	227.43	2231.97	225.15
2	Masoor	0.00	27.85	0.00	11.20	0.00	311.92	0.00	308.80
3	Gram	0.00	63.40	0.00	4.50	0.00	285.28	0.00	7720.24
4	Pea	0.00	160.26	0.00	5.70	0.00	913.48	0.00	876.94
5	Mustard	0.00	26.48	0.00	7.10	0.00	188.01	0.00	658.03
	Total	94.06	296.48			2125.68	1926.12	2231.97	9789.16
C	Zaid	Nil							
	Cultivable Area	587.85	Cropping Intensity		105.68				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Bagola 2C2A3w2d

S.No	Crop	Area in (ha.)		Productivity q/ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Grain/Main product	Fodder/Fuel/ Other Product.		
						Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	69.63	0.00	3.30	0.00	229.78	0.00	459.56
2	Moong	0.00	15.49	0.00	2.90	0.00	44.92	0.00	80.86
3	Arhar	0.00	21.56	0.00	5.40	0.00	116.42	0.00	19.79
4	Sorghum	0.00	8.64	0.00	5.90	0.00	50.98	0.00	234.49
5	Til	0.00	45.16	0.00	1.80	0.00	81.29	0.00	154.45
	Total		160.48				523.39		8001.17
B	Rabi								
1	Wheat	70.10	10.68	22.60	12.30	1584.24	131.36	1663.45	130.05
2	Masoor	0.00	23.45	0.00	11.20	0.00	262.64	0.00	260.01
3	Gram	0.00	40.38	0.00	4.50	0.00	181.71	0.00	7720.24
4	Pea	0.00	124.26	0.00	5.70	0.00	708.28	0.00	679.95
5	Mustard	0.00	26.84	0.00	7.10	0.00	190.56	0.00	666.97
	Total	70.10	225.61			1584.24	1474.56	1663.45	9457.23
C	Zaid	Nil							
	Cultivable Area	438.12	Cropping Intensity		104.12				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Gugora 2C2A3q2b

S.No	Crop	Area in (ha.)		Productivity q/ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Grain/Main product		Fodder/Fuel/ Other Product.	
						Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	82.16	0.00	3.30	0.00	271.14	0.00	542.28
2	Moong	0.00	24.68	0.00	2.90	0.00	71.57	0.00	128.83
3	Arhar	0.00	32.16	0.00	5.40	0.00	173.66	0.00	29.52
4	Sorghum	0.00	22.39	0.00	5.90	0.00	132.10	0.00	607.66
5	Til	0.00	56.24	0.00	1.80	0.00	101.23	0.00	192.34
	Total		217.63				749.71		8001.17
B	Rabi								
1	Wheat	81.94	13.24	22.60	12.30	1851.76	162.85	1944.35	161.22
2	Masoor	0.00	28.47	0.00	11.20	0.00	318.86	0.00	315.68
3	Gram	0.00	51.69	0.00	4.50	0.00	232.59	0.00	7720.24
4	Pea	0.00	135.26	0.00	5.70	0.00	770.98	0.00	740.14
5	Mustard	0.00	19.67	0.00	7.10	0.00	139.66	0.00	488.80
	Total	81.94	248.33			1851.76	1624.94	1944.35	9426.08
C	Zaid	Nil							
	Cultivable Area	512.10	Cropping Intensity		106.99				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Andwara 2C2A3q2f

S.No	Crop	Area in (ha.)		Productivity q/ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Grain/Main product		Fodder/Fuel/ Other Product.	
						Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	89.46	0.00	3.30	0.00	295.22	0.00	590.44
2	Moong	0.00	21.48	0.00	2.90	0.00	62.29	0.00	112.13
3	Arhar	0.00	31.58	0.00	5.40	0.00	170.53	0.00	28.99
4	Sorghum	0.00	13.67	0.00	5.90	0.00	80.65	0.00	371.00
5	Til	0.00	55.26	0.00	1.80	0.00	99.47	0.00	188.99
	Total		211.45				708.16		8001.17
B	Rabi								
1	Wheat	93.55	16.48	22.60	12.30	2114.26	202.70	2219.97	200.68
2	Masoor	0.00	25.61	0.00	11.20	0.00	286.83	0.00	283.96
3	Gram	0.00	69.15	0.00	4.50	0.00	311.18	0.00	7720.24
4	Pea	0.00	164.28	0.00	5.70	0.00	936.40	0.00	898.94
5	Mustard	0.00	22.14	0.00	7.10	0.00	157.19	0.00	550.18
	Total	93.55	297.66			2114.26	1894.30	2219.97	9654.00
C	Zaid	Nil							
	Cultivable Area	584.70	Cropping Intensity		103.07				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Devgan Pura 2C2A3s1a

S.No	Crop	Area (ha.)		Productivity q./ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	92.52	0.00	3.10	0.00	286.81	0.00	573.62
2	Moong	0.00	86.65	0.00	2.90	0.00	251.29	0.00	452.31
3	Arhar	0.00	38.15	0.00	5.00	0.00	190.75	0.00	32.43
4	Sorghum	0.00	27.48	0.00	5.80	0.00	159.38	0.00	733.17
5	Til	0.00	53.26	0.00	1.90	0.00	101.19	0.00	192.27
	Total		298.06				989.42		8001.17
B	Rabi								
1	Wheat	109.52	13.32	20.20	12.50	2212.36	166.50	2322.97	164.84
2	Masoor	0.00	37.48	0.00	12.50	0.00	468.50	0.00	463.82
3	Gram	0.00	100.00	0.00	4.80	0.00	480.00	0.00	7720.24
4	Pea	0.00	180.00	0.00	5.70	0.00	1026.00	0.00	984.96
5	Mustard	0.00	61.64	0.00	7.00	0.00	431.48	0.00	1510.18
	Total	109.52	392.44			2212.36	2572.48	2322.97	10844.03
C	Zaid								
	Nil								
	Cultivable Area	730.15		Cropping Intensity	109.57				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Panwari 2C2A3s1b

S.No	Crop	Area (ha.)		Productivity q./ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	85.63	0.00	3.10	0.00	265.45	0.00	530.91
2	Moong	0.00	59.76	0.00	2.90	0.00	173.30	0.00	311.95
3	Arhar	0.00	32.47	0.00	5.00	0.00	162.33	0.00	27.60
4	Sorghum	0.00	18.64	0.00	5.80	0.00	108.11	0.00	497.32
5	Til	0.00	75.36	0.00	1.90	0.00	143.18	0.00	272.05
	Total		271.86				852.38		8001.17
B	Rabi								
1	Wheat	106.51	31.64	20.20	12.50	2151.59	395.50	2259.17	391.55
2	Masoor	0.00	46.97	0.00	12.50	0.00	587.13	0.00	581.25
3	Gram	0.00	58.64	0.00	4.80	0.00	281.47	0.00	7720.24
4	Pea	0.00	174.36	0.00	5.70	0.00	993.85	0.00	954.10
5	Mustard	0.00	61.34	0.00	7.00	0.00	429.38	0.00	1502.83
	Total	106.51	372.95			2151.59	2687.33	2259.17	11149.97
C	Zaid								
	Nil								
	Cultivable Area	710.10		Cropping Intensity	105.81				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Bahdur pur kala 2C2A3s1e

S.No	Crop	Area (ha.)		Productivity q./ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	71.36	0.00	3.10	0.00	221.22	0.00	442.43
2	Moong	0.00	34.59	0.00	2.90	0.00	100.31	0.00	180.56
3	Arhar	0.00	34.64	0.00	5.00	0.00	173.20	0.00	29.44
4	Sorghum	0.00	57.32	0.00	5.80	0.00	332.46	0.00	1529.30
5	Til	0.00	102.30	0.00	1.90	0.00	194.37	0.00	369.30
	Total		300.21				1021.55		8001.17
B	Rabi								
1	Wheat	122.03	13.25	20.20	12.50	2464.91	165.63	2588.15	163.97
2	Masoor	0.00	120.00	0.00	12.50	0.00	1500.00	0.00	1485.00
3	Gram	0.00	69.48	0.00	4.80	0.00	333.50	0.00	7720.24
4	Pea	0.00	210.35	0.00	5.70	0.00	1199.00	0.00	1151.04
5	Mustard	0.00	52.37	0.00	7.00	0.00	366.59	0.00	1283.07
	Total	122.03	465.45			2464.91	3564.71	2588.15	11803.31
C	Zaid								
	Nil								
	Cultivable Area	813.50		Cropping Intensity	109.12				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Didwara 2C2A3s2a

S.No	Crop	Area (ha.)		Productivity q./ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	94.38	0.00	3.10	0.00	292.58	0.00	585.16
2	Moong	0.00	45.36	0.00	2.90	0.00	131.54	0.00	236.78
3	Arhar	0.00	32.16	0.00	5.00	0.00	160.80	0.00	27.34
4	Sorghum	0.00	39.48	0.00	5.80	0.00	228.98	0.00	1053.33
5	Til	0.00	54.38	0.00	1.90	0.00	103.32	0.00	196.31
	Total		265.76				917.23		8001.17
B	Rabi								
1	Wheat	108.43	12.36	20.20	12.50	2190.30	154.50	2299.82	152.96
2	Masoor	0.00	104.35	0.00	12.50	0.00	1304.38	0.00	1291.33
3	Gram	0.00	89.00	0.00	4.80	0.00	427.20	0.00	7720.24
4	Pea	0.00	152.36	0.00	5.70	0.00	868.45	0.00	833.71
5	Mustard	0.00	36.48	0.00	7.00	0.00	255.36	0.00	893.76
	Total	108.43	394.55			2190.30	3009.89	2299.82	10892.00
C	Zaid								
	Nil								
	Cultivable Area	722.87		Cropping Intensity	106.35				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Tolapatar 2C2A3s2b

S.No	Crop	Area (ha.)		Productivity q./ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	75.36	0.00	3.10	0.00	233.62	0.00	467.23
2	Moong	0.00	46.97	0.00	2.90	0.00	136.21	0.00	245.18
3	Arhar	0.00	34.15	0.00	5.00	0.00	170.75	0.00	29.03
4	Sorghum	0.00	40.16	0.00	5.80	0.00	232.93	0.00	1071.47
5	Til	0.00	61.34	0.00	1.90	0.00	116.55	0.00	221.44
	Total		257.98				890.05		8001.17
B	Rabi								
1	Wheat	97.74	13.25	20.20	12.50	1974.38	165.63	2073.10	163.97
2	Masoor	0.00	136.24	0.00	12.50	0.00	1703.00	0.00	1685.97
3	Gram	0.00	75.36	0.00	4.80	0.00	361.73	0.00	7720.24
4	Pea	0.00	102.36	0.00	5.70	0.00	583.45	0.00	560.11
5	Mustard	0.00	31.58	0.00	7.00	0.00	221.06	0.00	773.71
	Total	97.74	358.79			1974.38	3034.87	2073.10	10904.00
C	Zaid								
	Nil								
	Cultivable Area	651.61		Cropping Intensity	109.65				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Riwai 2C2A3s2e

S.No	Crop	Area (ha.)		Productivity q./ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	49.35	0.00	3.10	0.00	152.99	0.00	305.97
2	Moong	0.00	39.35	0.00	2.90	0.00	114.12	0.00	205.41
3	Arhar	0.00	15.36	0.00	5.00	0.00	76.80	0.00	13.06
4	Sorghum	0.00	25.36	0.00	5.80	0.00	147.09	0.00	676.60
5	Til	0.00	89.35	0.00	1.90	0.00	169.77	0.00	322.55
	Total		218.77				660.75		8001.17
B	Rabi								
1	Wheat	89.66	12.34	20.20	12.50	1811.12	154.25	1901.68	152.71
2	Masoor	0.00	100.00	0.00	12.50	0.00	1250.00	0.00	1237.50
3	Gram	0.00	95.36	0.00	4.80	0.00	457.73	0.00	7720.24
4	Pea	0.00	78.36	0.00	5.70	0.00	446.65	0.00	428.79
5	Mustard	0.00	21.65	0.00	7.00	0.00	151.55	0.00	530.43
	Total	89.66	307.71			1811.12	2460.18	1901.68	10069.66
C	Zaid								
	Nil								
	Cultivable Area	597.73		Cropping Intensity	103.08				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Parapatar 2C2A3s2d

S.No	Crop	Area (ha.)		Productivity q./ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	64.63	0.00	3.10	0.00	200.35	0.00	400.71
2	Moong	0.00	10.49	0.00	2.90	0.00	30.42	0.00	54.76
3	Arhar	0.00	44.34	0.00	5.00	0.00	221.70	0.00	37.69
4	Sorghum	0.00	29.16	0.00	5.80	0.00	169.13	0.00	777.99
5	Til	0.00	50.36	0.00	1.90	0.00	95.68	0.00	181.80
	Total		198.98				717.29		8001.17
B	Rabi								
1	Wheat	70.91	10.68	20.20	12.50	1432.39	133.50	1504.01	132.17
2	Masoor	0.00	56.32	0.00	12.50	0.00	704.00	0.00	696.96
3	Gram	0.00	43.64	0.00	4.80	0.00	209.47	0.00	7720.24
4	Pea	0.00	96.00	0.00	5.70	0.00	547.20	0.00	525.31
5	Mustard	0.00	26.19	0.00	7.00	0.00	183.33	0.00	641.66
	Total	70.91	232.83			1432.39	1777.50	1504.01	9716.33
C	Zaid								
	Nil								
	Cultivable Area	472.73		Cropping Intensity	106.34				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Dulara 2C2A3f1a

S.No	Crop	Area (ha.)		Productivity q./ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	58.36	0.00	3.10	0.00	180.92	0.00	361.83
2	Moong	0.00	24.35	0.00	2.90	0.00	70.62	0.00	127.11
3	Arhar	0.00	34.39	0.00	5.00	0.00	171.95	0.00	29.23
4	Sorghum	0.00	18.85	0.00	5.80	0.00	109.33	0.00	502.92
5	Til	0.00	39.97	0.00	1.90	0.00	75.94	0.00	144.29
	Total		175.92				608.75		8001.17
B	Rabi								
1	Wheat	67.66	14.36	20.20	12.50	1366.80	179.50	1435.14	177.71
2	Masoor	0.00	56.38	0.00	12.50	0.00	704.75	0.00	697.70
3	Gram	0.00	49.35	0.00	4.80	0.00	236.88	0.00	7720.24
4	Pea	0.00	91.34	0.00	5.70	0.00	520.64	0.00	499.81
5	Mustard	0.00	31.48	0.00	7.00	0.00	220.36	0.00	771.26
	Total	67.66	242.91			1366.80	1862.13	1435.14	9866.72
C	Zaid								
	Nil								
	Cultivable Area	451.09		Cropping Intensity	107.85				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Amanpura 2C2A3f1b

S.No	Crop	Area (ha.)		Productivity q./ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	56.38	0.00	3.10	0.00	174.78	0.00	349.56
2	Moong	0.00	36.48	0.00	2.90	0.00	105.79	0.00	190.43
3	Arhar	0.00	16.34	0.00	5.00	0.00	81.70	0.00	13.89
4	Sorghum	0.00	13.67	0.00	5.80	0.00	79.29	0.00	364.72
5	Til	0.00	38.36	0.00	1.90	0.00	72.88	0.00	138.48
	Total		161.23				514.44		8001.17
B	Rabi								
1	Wheat	66.79	10.36	20.20	12.50	1349.15	129.50	1416.60	128.21
2	Masoor	0.00	100.34	0.00	12.50	0.00	1254.25	0.00	1241.71
3	Gram	0.00	51.36	0.00	4.80	0.00	246.53	0.00	7720.24
4	Pea	0.00	68.35	0.00	5.70	0.00	389.60	0.00	374.01
5	Mustard	0.00	12.36	0.00	7.00	0.00	86.52	0.00	302.82
	Total	66.79	242.77			1349.15	2106.39	1416.60	9766.98
C	Zaid								
	Nil								
	Cultivable Area	445.26		Cropping Intensity	105.73				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Ghutai 2C2A3e1e

S.No	Crop	Area (ha.)		Productivity q./ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	62.34	0.00	3.10	0.00	193.25	0.00	386.51
2	Moong	0.00	45.36	0.00	2.90	0.00	131.54	0.00	236.78
3	Arhar	0.00	26.35	0.00	5.00	0.00	131.75	0.00	22.40
4	Sorghum	0.00	23.48	0.00	5.80	0.00	136.18	0.00	626.45
5	Til	0.00	79.36	0.00	1.90	0.00	150.78	0.00	286.49
	Total		236.89				743.52		8001.17
B	Rabi								
1	Wheat	69.22	12.09	20.20	12.50	1398.26	151.13	1468.17	149.61
2	Masoor	0.00	130.25	0.00	12.50	0.00	1628.13	0.00	1611.84
3	Gram	0.00	72.36	0.00	4.80	0.00	347.33	0.00	7720.24
4	Pea	0.00	94.36	0.00	5.70	0.00	537.85	0.00	516.34
5	Mustard	0.00	23.36	0.00	7.00	0.00	163.52	0.00	572.32
	Total	69.22	332.42			1398.26	2827.95	1468.17	10570.36
C	Zaid								
	Nil								
	Cultivable Area	591.63		Cropping Intensity	107.93				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Peepri 2C2A3e2e

S.No	Crop	Area (ha.)		Productivity q./ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	45.36	0.00	3.10	0.00	140.62	0.00	281.23
2	Moong	0.00	26.35	0.00	2.90	0.00	76.42	0.00	137.55
3	Arhar	0.00	13.46	0.00	5.00	0.00	67.30	0.00	11.44
4	Sorghum	0.00	26.16	0.00	5.80	0.00	151.73	0.00	697.95
5	Til	0.00	79.46	0.00	1.90	0.00	150.97	0.00	286.85
	Total		190.79				587.03		8001.17
B	Rabi								
1	Wheat	77.02	12.36	20.20	12.50	1555.90	154.50	1633.69	152.96
2	Masoor	0.00	103.36	0.00	12.50	0.00	1292.00	0.00	1279.08
3	Gram	0.00	84.65	0.00	4.80	0.00	406.32	0.00	7720.24
4	Pea	0.00	55.36	0.00	5.70	0.00	315.55	0.00	302.93
5	Mustard	0.00	21.38	0.00	7.00	0.00	149.66	0.00	523.81
	Total	77.02	277.11			1555.90	2318.03	1633.69	9979.01
C	Zaid								
	Nil								
	Cultivable Area	513.50		Cropping Intensity	106.12				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Rurikala 2C2A3e2f

S.No	Crop	Area (ha.)		Productivity q./ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	45.36	0.00	3.10	0.00	140.62	0.00	281.23
2	Moong	0.00	19.36	0.00	2.90	0.00	56.14	0.00	101.06
3	Arhar	0.00	12.04	0.00	5.00	0.00	60.20	0.00	10.23
4	Sorghum	0.00	12.36	0.00	5.80	0.00	71.69	0.00	329.76
5	Til	0.00	24.36	0.00	1.90	0.00	46.28	0.00	87.94
	Total		113.48				374.93		8001.17
B	Rabi								
1	Wheat	47.26	8.16	20.20	12.50	954.74	102.00	1002.48	100.98
2	Masoor	0.00	74.36	0.00	12.50	0.00	929.50	0.00	920.21
3	Gram	0.00	55.36	0.00	4.80	0.00	265.73	0.00	7720.24
4	Pea	0.00	26.36	0.00	5.70	0.00	150.25	0.00	144.24
5	Mustard	0.00	12.35	0.00	7.00	0.00	86.45	0.00	302.58
	Total	47.26	176.59			954.74	1533.93	1002.48	9188.24
C	Zaid								
	Nil								
	Cultivable Area	315.10		Cropping Intensity	107.06				

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

It was observed that the productivity of wheat, gram, mustard, arhar and linseed was about 66, 37, 33,49 and 26 per cent, respectively, less than the average of last 10 years crop yield (*Source: Directorate of Economics and Statistics, Department of Agriculture and Cooperation*). productivity of the state of Uttar Pradesh.

Table 3.8: Food, fodder and fuel production in the project area (IWMP-XXIII, District- Mahoba)

Summary	Unit	Production During Kharif	Production during Rabi	Total Production	Remarks
Food Production					
Cereals	q	5690.65	40826.17	23602.80	-
Pulses	q	6610.17	37236.96	18889.12	-
Oilseed	q	2306.82	4216.31	3777.87	-
Total	q	14607.65	82279.44	46269.80	-
					-
Fodder Production					
Dry Fodder	q	402434.17		232777.47	-
Green Fodder	q				-
Fuel Production					
Arhar+Mustard+Til Plants	q	15265.99			-
Over all Cropping Intensity		106.81			

3.4 Agroforestry and Horticulture

There is no systematic agroforestry and orchard in the project area, however, few scattered trees of desi ber, aonla, guava, kathal, etc. was found in the micro-watersheds which is consumed locally (Table 3.9).

Table 3.9: Horticulture Status

S. N.	Name of micro watershed with code	Name of village	Name of Important horticultural crop						
			Orchard				Scattered Fruit Crop		
			Name	Area ha.	Productivity qtl/ha	Production qtls	No.	Productivity qtl/No.	Production qtls
1	Gorahari 2C2A3p1e	Gaurhari, Guda	Nil	Nil	Nil	Nil	40	0.25	10
2	Gorkha 2C2A3p1f	Gaurhari, Guda, Lidhaura Soyam, Gorkha, Dhanawan	Nil	Nil	Nil	Nil	27	0.23	6.21
3	Luhari 2C2A3p1g	Lidhaura Soyam, Guda	Nil	Nil	Nil	Nil	39	0.21	8.19
4	Andhaura 2C2A3p1h	Guda, Ragaul, Pratistha, Andhaura	Nil	Nil	Nil	Nil	41	0.26	10.66
5	Vijaypur 2C2A3w2a	Gorkha, Lidhaura Soyam, Luhari, Bejalpur	Nil	Nil	Nil	Nil	48	0.28	13.44
6	Budi 2C2A3w2b	Luhari, Gorkha, Panara, Budhi	Nil	Nil	Nil	Nil	30	0.31	9.3
7	Bagola 2C2A3w2d	Gorkha, Bagaul, Rampura Kadeem, Chedimau	Nil	Nil	Nil	Nil	33	0.28	9.24
8	Gugora 2C2A3q2b	Bhatwera Kala, Nauka, Khera Nankari	Nil	Nil	Nil	Nil	39	0.24	9.36
9	Andwara 2C2A3q2f	Dhanawan, Andwara, Gaurhari, Bhatewara Kala	Nil	Nil	Nil	Nil	40	0.25	10
10	Devgan Pura 2C2A3s1a	Alipura, Remalpua, Chatesar, Hebatpur Brahmin, Panwari	Nil	Nil	Nil	Nil	31	0.26	8.06
11	Panwari 2C2A3s1b	Panwari, Nepura, Saragpura, Hebatpur, Brahman, Govindpur, Chanchari	Nil	Nil	Nil	Nil	35	0.25	8.75

12	Bahdur pur kala 2C2A3s1e	Hebatpur Brahmin, Chatesar, Koniya, Bijnari, Bahadurpur Kala, Saragpura, Nepura	Nil	Nil	Nil	Nil	36	0.23	8.28
13	Didwara 2C2A3s2a	Koniya, Bijnari, Chandanhas, Pahadiya Byarjaun, Parapantar, Didwara	Nil	Nil	Nil	Nil	34	0.21	7.14
14	Tolapatar 2C2A3s2b	Parapantar, Didwara Rivai, Tola Pantar	Nil	Nil	Nil	Nil	29	0.26	7.54
15	Riwai 2C2A3s2e	Rivai, Tolapantar, Bhoora , Toondar	Nil	Nil	Nil	Nil	28	0.28	7.84
16	Parapantar 2C2A3s2d	Parapantar, Byarjo, Didwara, Pahariya	Nil	Nil	Nil	Nil	23	0.31	7.13
17	Dulara 2C2A3f1a	Tingara, Parapantar, Rivai, Dulara, Bhujpura, Gadaura	Nil	Nil	Nil	Nil	34	0.28	9.52
18	Amanpura 2C2A3f1b	Gadaura, Bhujpura, Amanpura Bhaddevra, Pachara	Nil	Nil	Nil	Nil	25	0.24	6
19	Ghutai 2C2A3e1e	Devgaon, Rurikeela, Ghutai	Nil	Nil	Nil	Nil	27	0.31	8.37
20	Peepri 2C2A3e2e	Peepri, Kanaura, Imaliya	Nil	Nil	Nil	Nil	26	0.32	8.32
21	Rurikala 2C2A3e2f	Rurikalan, Dulara, Kanaura, Imaliya	Nil	Nil	Nil	Nil	25	0.28	7
Total		(Scattered fruit plant of Papaya, Kathal, Ber, Aonla, Guava, etc)							

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

3.5 Livestock and Fisheries

In the name of cattle mainly desi cow are found in the project which productivity is significantly lower than the average productivity of the state. The Details of livestock and its productivity are available in Table 3.8 and 3.9, respectively.

Table 3.10: Livestock Population (no.) in IWMP-XXIII, Mahoba

Sr. No .	Name of Micro watershed with code	Name of Village	Cow		Buffalo		Ox/Bull	Goat	Sheep	Piggeries	Poultry		
			Desi	Crossed	Desi	Murrah					Broiler	Layers	Total
1	Gorahari 2C2A3p1e	Gaurhari, Guda	85	7	39	7	10	294	8	12	-	10	472
2	Gorkha 2C2A3p1f	Gaurhari, Guda, Lidaura Soyam, Gorkha, Dhanawan	40	4	20	2	5	140	6	16	-	6	239
3	Luhari 2C2A3p1g	Lidaura Soyam, Guda	26	3	13	1	3	93	0	15	-	12	166
4	Andhoura 2C2A3p1h	Guda, Ragaul, Pratistha, Andaura	15	1	8	0	5	51	5	6	-	11	102
5	Vijaypur 2C2A3w2a	Gorkha, Lidaura Soyam, Luhari, Bejalpur	17	1	8	1	5	57	6	4	-	0	99
6	Budi 2C2A3w2b	Luhari, Gorkha, Panara, Budhi	78	6	35	7	9	268	0	8	-	14	425
7	Bagola 2C2A3w2d	Gorkha, Bagaul, Rampura	47	5	21	5	6	166	8	18	-	17	293

		Kadeem, Chedimau											
8	Gugora 2C2A3q2b	Bhatwera Kala, Nauka, Khera Nankari	37	3	16	4	4	128	7	15	-	0	214
9	Andwara 2C2A3q2f	Dhanawan, Andwara, Gaurhari, Bhatewara Kala	60	6	27	6	7	211	11	10	-	22	360
10	Devgan Pura 2C2A3s1a	Alipura, Remalpuwa, Chatesar, Hebatpur Brahmin, Panwari	126	20	77	14	21	584	14	12	-	13	881
11	Panwari 2C2A3s1b	Panwari, Nepura, Saragpura, Hebatpur, Brahman, Govindpur, Chanchari	130	18	77	15	26	592	13	14	-	15	900
12	Bahdur pur kala 2C2A3s1e	Hebatpur Brahmin, Chatesar, Koniya, Bijrari, Bahadurpur Kala,	151	15	91	12	24	664	14	13	-	19	1003

		Saragpura, Nepura											
13	Didwara 2C2A3s2a	Koniya, Bijrari, Chandanha s, Pahadiya Byarjaun, Parapantar, Didwara	120	18	72	14	26	552	12	12	-	23	849
14	Tolapatar 2C2A3s2b	Parapantar, Didwara Rivai, Tola Pantar	115	15	69	12	25	520	15	11	-	21	803
15	Riwai 2C2A3s2e	Rivai, Tolapantar, Bhoora , Toondar	105	15	50	25	22	480	13	16	-	0	726
16	Parapatar 2C2A3s2d	Parapantar, Byarjo, Didwara, Pahariya	82	14	50	10	24	385	16	15	-	21	617
17	Dulara 2C2A3f1a	Tingara, Parapantar, Rivai, Dulara, Bhujpura, Gadaura	77	11	43	12	23	352	14	14	-	26	572
18	Amanpura 2C2A3f1b	Gadaura, Bhujpura, Amanpura Bhaddevra, Pachara	79	13	46	11	26	368	12	12	-	0	567

19	Ghutai 2C2A3e1e	Devgaon, Rurikeela, Ghutai	83	15	52	9	27	392	14	15	-	12	619
20	Peepri 2C2A3e2e	Peepri, Kanaura, Imaliya	93	13	58	8	24	424	13	14	-	15	663
21	Rurikala 2C2A3e2f	Rurikalan, Dulara, Kanaura, Imaliya	53	9	30	8	10	248	12	12	-	26	408
	Total		1619	212	902	183	332	6969	213	264	1619	212	902

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Table 3.11: Productivity of livestock in IWMP-XXIII, Mahoba

SN	Name of Micro watershed with code	Name of Village	Milk Production (Liter Per day)				Goatry	Poultry			
			Cows		Buffalos			Weight in Kg/goat	Broiler Weight in Kg/ Brl	Layers No. of eggs/day	
			Desi	Crossed	Desi	Murrah					
1	Gorahari 2C2A3p1e	Gaurhari, Guda	1.2	5.2	2.1	6.2	20.0	0.0	165		
2	Gorkha 2C2A3p1f	Gaurhari, Guda, Lidaura Soyam, Gorkha, Dhanawan	1.3	5.3	2.5	6.5	21.0	0.0	174		
3	Luhari 2C2A3p1g	Lidaura Soyam, Guda	1.4	5.4	2.1	6.4	19.0	0.0	162		
4	Andhaura 2C2A3p1h	Guda, Ragaul, Pratistha, Andhaura	1.2	5.8	2.5	5.9	24.0	0.0	157		
5	Vijaypur 2C2A3w2a	Gorkha, Lidaura Soyam, Luhari, Bejalpur	1.1	5.1	2.3	6.7	21.0	0.0	159		
6	Budi 2C2A3w2b	Luhari, Gorkha, Panara, Budhi	1.3	4.8	2.1	6.0	25.0	0.0	157		
7	Bagola 2C2A3w2d	Gorkha, Bagaul, Rampura Kadeem, Chedimau	1.5	5.2	2.2	6.9	26.0	0.0	153		
8	Gugora 2C2A3q2b	Bhatwera Kala, Nauka, Khera Nankari	1.2	5.6	2.3	6.7	21.0	0.0	164		
9	Andwara 2C2A3q2f	Dhanawan, Andwara, Gaurhari, Bhatewara Kala	1.3	5.5	2.1	6.4	20.0	0.0	128		
10	Devgan Pura 2C2A3s1a	Alipura, Remalpua, Chatesar, Hebatpur Brahmin, Panwari	1.2	5.8	2.7	6.0	25.0	0.0	180.0		
11	Panwari 2C2A3s1b	Panwari, Nepura, Saragpura, Hebatpur, Brahman, Govindpur, Chanchari	1.1	6.1	3.0	6.9	23.0	0.0	172.0		
12	Bahdur pur	Hebatpur Brahmin,	1.0	6.0	3.1	5.9	21.0	0.0	174.0		

	kala 2C2A3s1e	Chatesar, Koniya, Bijnari, Bahadurpur Kala, Saragpura, Nepura							
13	Didwara 2C2A3s2a	Koniya, Bijnari, Chandanhas, Pahadiya Byarjaun, Parapantar, Didwara	1.3	5.6	3.3	6.4	23.0	0.0	184.0
14	Tolapatar 2C2A3s2b	Parapantar, Didwara Rivai, Tola Pantar	1.5	6.1	2.5	5.6	25.0	0.0	174.0
15	Riwai 2C2A3s2e	Rivai, Tolapantar, Bhoora , Toondar	1.3	5.9	2.4	5.9	26.0	0.0	178.0
16	Parapatar 2C2A3s2d	Parapantar, Byarjo, Didwara, Pahariya	1.2	5.2	2.6	5.7	24.0	0.0	165.0
17	Dulara 2C2A3f1a	Tingara, Parapantar, Rivai, Dulara, Bhujpura, Gadaura	1.4	5.4	3.0	5.9	21.0	0.0	186.0
18	Amanpura 2C2A3f1b	Gadaura, Bhujpura, Amanpura Bhadevra, Pachara	1.6	5.3	3.2	6.7	26.0	0.0	168.0
19	Ghutai 2C2A3e1e	Devgaon, Rurikeela, Ghutai	1.2	5.4	2.6	5.4	21.0	0.0	187.0
20	Peepri 2C2A3e2e	Peepri, Kanaura, Imaliya	1.3	5.9	2.5	6.9	25.0	0.0	175.0
21	Rurikala 2C2A3e2f	Rurikalan, Dulara, Kanaura, Imaliya	1.2	5.7	2.1	6.1	24.0	0.0	168.0
Average			1.3	5.5	2.5	6.2	22.9	0.0	168.1

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

3.6 Forest and Grassland

There is no grassland available in the project area, however, information on naturally generated/grown degraded forest is given in Table 3.10.

Table 3.12: Forest, vegetative cover/grassland in IWMP-XXIII, Mahoba

Sr. No .	Name & Code of Micro watershed	Name of Village	Forest (Area ha)			Grassland (Area ha)		Other vegetative cover (Area ha)	
			Reserv e	Gram Samaj (Natural /Planted)	Total	Gram Samaj	Private	Gram Samaj	Private
1	Gorahari 2C2A3p1e	Gaurhari, Guda	-	-	-	5.98	-	2.18	2.15
2	Gorkha 2C2A3p1f	Gaurhari, Guda, Lidaura Soyam, Gorkha, Dhanawan	-	-	-	6.14	-	2.17	1.58
3	Luhari 2C2A3p1g	Lidaura Soyam, Guda	-	-	-	6.14	-	2.62	2.48
4	Andhaura 2C2A3p1h	Guda, Ragaul, Pratistha, Andhaura	-	-	-	5.92	-	2.15	1.64
5	Vijaypur 2C2A3w2a	Gorkha, Lidaura Soyam, Luhari, Bejalpur	-	-	-	7.14	-	1.85	2.78
6	Budi 2C2A3w2b	Luhari, Gorkha, Panara, Budhi	-	-	-	6.92	-	1.94	1.91
7	Bagola 2C2A3w2d	Gorkha, Bagaul, Rampura Kadeem, Chedimau	-	-	-	6.87	-	2.41	2.05
8	Gugora 2C2A3q2b	Bhatwera Kala, Nauka, Khera Nankari	-	-	-	5.93	-	2.10	2.84
9	Andwara 2C2A3q2f	Dhanawan, Andwara, Gaurhari, Bhatewara Kala	-	-	-	6.97	-	1.98	1.72
10	Devgan Pura 2C2A3s1a	Alipura, Remalpua, Chatesar, Hebatpur Brahmin, Panwari	-	-	-	5.48	-	2.19	1.48
11	Panwari 2C2A3s1b	Panwari, Nepura, Saragpura, Hebatpur,	-	-	-	5.36	-	2.67	2.15

		Brahman, Govindpur, Chanchari							
12	Bahdur pur kala 2C2A3s1e	Hebatpur Brahmin, Chatesar, Koniya, Bijrari, Bahadurpur Kala, Saragpura, Nepura	-	-	-	5.12	-	2.74	2.36
13	Didwara 2C2A3s2a	Koniya, Bijrari, Chandanhas, Pahadiya Byarjaun, Parapantar, Didwara	-	-	-	5.29	-	2.48	2.15
14	Tolapatar 2C2A3s2b	Parapantar, Didwara Rivai, Tola Pantar	-	-	-	4.68		2.61	2.12.6 24
15	Riwai 2C2A3s2e	Rivai, Tolapantar, Bhoora , Toondar	-	-	-	6.15	-	2.15	2.18
16	Parapatar 2C2A3s2d	Parapantar, Byarjo, Didwara, Pahariya	-	-	-	4.18	-	2.48	2.97
17	Dulara 2C2A3f1a	Tingara, Parapantar, Rivai, Dulara, Bhujpura, Gadaura	-	-	-	5.92	-	2.61	2.18
18	Amanpura 2C2A3f1b	Gadaura, Bhujpura, Amanpura Bhadevra, Pachara	-	-	-	6.14	-	2.84	2.34
19	Ghutai 2C2A3e1e	Devgaon, Rurikeela, Ghutai	-	-	-	4.35	-	2.95	1.94
20	Peepri 2C2A3e2e	Peepri, Kanaura, Imaliya	-	-	-	3.15	-	2.18	1.95
21	Rurikala 2C2A3e2f	Rurikalan, Dulara, Kanaura, Imaliya	-	-	-	3.25	-	1.95	1.74
Total			-	-	-	117.08	-	49.25	42.59

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

3.7 Livelihood Status

Assestless/landless people earn their livelihood mainly from labour and *batai* (*share cropping*). They about Rs. 3000/per month for share cropping. It is expected that their income will enhance due to watershed management as it will generate share cropping employment opportunity on sustainable basis. Intervention presently on piggeries, fisheries, black smithy and carpentry are not in practice. Livelihood status of landless, farmers and interventions based livelihood status are shown in Table 3.13, 3.14 and 3.15, respectively.

Table 3.13: Livelihood Status of Landless People

Sr. No.	Name & Code of micro watershed	Name of Village	Name of Livelihood Activity	No. of house hold engaged					Pre project Average Income/ Year	Desired Activities	Expected Income from desired activities Rs/Year	Remarks
				Sc	St	Other	Women	Total				
1	Gorahari 2C2A3p1e	Gaurhari, Guda	Labour/ Batai	2	-	6	2	10	25,000- 30,000	The landless people can increase their income by adoting one or two activities of goatary, poultry, dairy, technical shop, general store, dona making, Rope making, etc.	50,000- 55,000	Income may be increased by about two times
2	Gorkha 2C2A3p1f	Gaurhari, Guda, Lidaura Soyam, Gorkha, Dhanawan		3	-	6	1	10				
3	Luhari 2C2A3p1g	Lidaura Soyam, Guda		1	-	3	1	5				
4	Andhoura 2C2A3p1h	Guda, Ragaul, Pratistha, Andhaura		2	-	4	1	7				
5	Vijaypur 2C2A3w2a	Gorkha, Lidaura Soyam, Luhari, Bejalpur		3	-	8	2	13				
6	Budi 2C2A3w2b	Luhari, Gorkha, Panara, Budhi		3	-	7	2	12				
7	Bagola 2C2A3w2d	Gorkha, Bagaul, Rampura Kadeem, Chedimau		2	-	6	1	9				
8	Gugora 2C2A3q2b	Bhatwera Kala, Nauka, Khera Nankari		3	-	6	1	10				
9	Andwara	Dhanawan, Andwara,		3	-	6	1	10				

	2C2A3e2e											
21	Rurikala 2C2A3e2f	Rurikalan, Dulara, Kanaura, Imaliya		1	-	4	1	6				
	Total			39	-	116	25	180	25,000- 30,000	-	50,000- 55,000	-

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Table 3.14: Details of Livelihood Status of the Farmers

Sr. No.	Name & Code of micro watershed	Name of Village	Name of Livelihood Activity	No. of House hold engaged					Pre project Average Income	Desired Activities	Expected Income from desired activities	Remarks
				Sc	St	Other	Women	Total				
1	Gorahari 2C2A3p1e	Gaurhari, Guda	Agriculture + A.H., Labour, Batai	41	-	169.00	10	220	40000- 50000	Productivity could be enhance through natural resource conservation, livestock management and micro- enterprises	55,000- 65,000	Income may be increased by about 30 to 40 per cent
2	Gorkha 2C2A3p1f	Gaurhari, Guda, Lidhaura Soyam, Gorkha, Dhanawan		47	-	191.00	12	250				
3	Luhari 2C2A3p1g	Lidhaura Soyam, Guda		19	-	77.00	9	105				
4	Andhaura 2C2A3p1h	Guda, Ragaul, Pratistha, Andhaura		37	-	149.00	12	198				
5	Vijaypur 2C2A3w2a	Gorkha, Lidhaura Soyam, Luhari, Bejalpur		43	-	171.00	13	227				
6	Budi 2C2A3w2b	Luhari, Gorkha, Panara, Budhi		46	-	182.00	15	243				
7	Bagola 2C2A3w2d	Gorkha, Bagaul, Rampura Kadeem, Chedimau		34	-	137.00	10	181				
8	Gugora 2C2A3q2b	Bhatwera Kala, Nauka, Khera Nankari		40	-	166.00	9	215				
9	Andwara 2C2A3q2f	Dhanawan, Andwara, Gaurhari, Bhatewara Kala		46	-	185.00	14	245				
10	Devgan	Alipura, Remalpua, Chatesar,		67	-	278	12	357				

	Pura 2C2A3s1a	Hebatpur Brahmin, Panwari									
11	Panwari 2C2A3s1b	Panwari, Nepura, Saragpura, Hebatpur, Brahman, Govindpur, Chanchari	68	-	284	11	363				
12	Bahdur pur kala 2C2A3s1e	Hebatpur Brahmin, Chatesar, Koniya, Bijnari, Bahadurpur Kala, Saragpura, Nepura	76	-	310	14	400				
13	Didwara 2C2A3s2a	Koniya, Bijnari, Chandanhas, Pahadiya Byarjaun, Parapantar, Didwara	63	-	260	12	335				
14	Tolapatar 2C2A3s2b	Parapantar, Didwara Rivai, Tola Pantar	60	-	246	11	317				
15	Riwai 2C2A3s2e	Rivai, Tolapantar, Bhoora , Toondar	55	-	224	13	292				
16	Parapatar 2C2A3s2d	Parapantar, Byarjo, Didwara, Pahariya	44	-	176	15	235				
17	Dulara 2C2A3f1a	Tingara, Parapantar, Rivai, Dulara, Bhujpura, Gadaura	40	-	161	14	215				
18	Amanpura 2C2A3f1b	Gadaura, Bhujpura, Amanpura Bhaddevra, Pachara	42	-	170	12	224				
19	Ghutai 2C2A3e1e	Devgaon, Rurikeela, Ghutai	44	-	179	13	236				
20	Peepri 2C2A3e2e	Peepri, Kanaura, Imaliya	49	-	199	11	259				
21	Rurikala 2C2A3e2f	Rurikalan, Dulara, Kanaura, Imaliya	28	-	115	6	149				
	Total		-	989	-	4029	248	5266	40000- 50000	-	55,000- 65,000

Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Kulpahar, District- Mahoba, U.P.)

Table 3.15: Present Livelihood Status (No. of households/Income per year) in IWMP-XXIII, Mahoba

'Income in Rs

Sr. No	Name of MWS with code	Name of village	Activities																			
			Dairy		Poultry		Goatry		Piggeries		Fisheries		Black Smithy		Carpentry		Stitching / knitting		Wages			
			No	Av. inco me	No	Av. inco me	No	Av. inco me	No	Av. inco me	No	Av. inco me	No	Av. inco me	No	Av. inco me	No	Av. inco me	No	Av. inco me		
1	Gorahari 2C2A3p 1e	Gaurhari, Guda	26 4	11,5 00- 13,5 00	2 5	13,0 00- 16,0 00	250	2250 0 - 3500	19	7500 - 9000	-	-	2	2000 - 4000	2	2500 - 4500	-	-	88	11,0 00- 13,0 00	42 2	25,0 00- 27,0 00
2	Gorkha 2C2A3p 1f	Gaurhari, Guda, Lidhaura Soyam, Gorkha, Dhanawan	19 8		1 8		120	0	10		-	3		1				66		31 7		
3	Luhari 2C2A3p 1g	Lidhaura Soyam, Guda	16 5		1 5		135		28		-	1		3				55		26 5		
4	Andhaura 2C2A3p 1h	Guda, Ragaul, Pratistha, Andhaura	97		0		124		6		-	5		2				33		15 7		
5	Vijaypur 2C2A3 w2a	Gorkha, Lidhaura Soyam, Luhari, Bejalpur	13 0		2 4		50		20		-	2		4				44		20 9		
6	Budi 2C2A3 w2b	Luhari, Gorkha, Panara, Budhi	14 1		2 0		180		18		-	1		3				47		22 3		
7	Bagola 2C2A3 w2d	Gorkha, Bagaul, Rampura Kadeem, Chedimau	10 2		0		135		17		-	2		1				34		16 3		

8	Gugora 2C2A3q 2b	Bhatwera Kala, Nauka, Khera Nankari	12 6		2 6		142		12			1		2			42		20 3	
9	Andwar a 2C2A3q 2f	Dhanawan, Andwara, Gaurhari, Bhatewara Kala	16 3		3 0		123		31		-	3		2		-	55		26 4	
10	Devgan Pura 2C2A3s 1a	Alipura, Remalpua, Chatesar, Hebatpur Brahmin, Panwari	1 2 0		1 2		420. 0		12		-	2		2		-	42		3 7 2	
11	Panwari 2C2A3s 1b	Panwari, Nepura, Saragpura, Hebatpur, Brahman, Govindpur, Chanchari	1 8 0		1 2		630. 0		14		-	0		2		-	31		2 6 7	
12	Bahdur pur kala 2C2A3s 1e	Hebatpur Brahmin, Chatesar, Koniya, Bjrari, Bahadurpur Kala, Saragpura, Nepura	1 0 5		1 0		360. 0		15		-	3		1		-	41		2 1 5	
13	Didwara 2C2A3s 2a	Koniya, Bjrari, Chandanhas, Pahadiya Byarjaun, Parapantar,	1 3 0		8		455. 0		12		-	0		3		-	39		1 0 7	

		Didwara																	
14	Tolapata r 2C2A3s 2b	Parpantar, Didwara Rivai, Tola Pantar	1 2 6		0		440. 0		14		-		2		2		-		35
15	Riwai 2C2A3s 2e	Rivai, Tolapantar, Bhoora , Toondar	1 6 9		1 5		590. 0		10		-		4		2		-		51
16	Parapata r 2C2A3s 2d	Parapantar, Byarjo, Didwara, Pahariya	1 6 7		2 4		580. 0		18		-		2		1		-		53
17	Dulara 2C2A3f 1a	Tingara, Parapantar, Rivai, Dulara, Bhujpura, Gadaura	1 6 5		1 3		570. 0		12		-		3		3		-		58
18	Amanpu ra 2C2A3f 1b	Gadaura, Bhujpura, Amanpura Bhaddevra, Pachara	1 6 3		1 8		570. 0		15		-		1		2		-		52
19	Ghutai 2C2A3e 1e	Devgaon, Rurikeela, Ghutai	1 5 5		1 3		540. 0		8		-		5		4		-		54
20	Peepri 2C2A3e 2e	Peepri, Kanaura, Imaliya	1 9 8		0		690. 0		12		-		2		3		-		48
21	Rurikala 2C2A3e 2f	Rurikalan, Dulara, Kanaura,	1 4 7		9		510. 0		10		-		1		1		-		46

		Imaliya																				
	Total		32 11	11,5 00-	2 9	13,0 00-	7614	2250 0- 3500	313	7500 - 9000	-	-	4 5	2000 - 4000	4 6	2500 - 4500	-	-	101 4	11,0 00-	47 07	25,0 00-

3.8 Hydrology, Water resources and Soil and moisture Conservation

Shallow dug wells are the only means of irrigation in the area and these wells support only for life saving irrigation. In general, irrigation interval is short e to short due water holding capacity of the soils. For soil and water conservation only field bund exist presently Use of micro-irrigation is almost nil in the area. Groundwater status, irrigation status and source are given in Table 3.16, 3.17 and 3.18, respectively.

Table 3.16: Ground Water Status in IWMP-XXIII, Kulpahar, Mahoba

Sr. No.	Name & Code of Micro watershed	Name of Village	Depth of Ground Water Table (Below Ground level) in Meter		No. of Observation well	Remarks
			Before Monsoon	After Monsoon		
1	Gorahari - 2C2A3p1e	Gaurhari, Guda	Avrg.12.15	Avrg.10.35	08	-
2	Gorkha -2C2A3p1f	Gaurhari, Guda, Lidhaura Soyam, Gorkha, Dhanawan	Avrg.13.18	Avrg.11.25	07	-
3	Luhari- 2C2A3p1g	Lidhaura Soyam, Guda	Avrg.13.65	Avrg.10.65	08	-
4	Andhoura- 2C2A3p1h	Guda, Ragaul, Pratistha, Andhaura	Avrg.14.15	Avrg.11.95	09	-
5	Vijaypur- 2C2A3w2a	Gorkha, Lidhaura Soyam, Luhari, Bejalpur	Avrg.14.35	Avrg.10.25	07	-
6	Budi-2C2A3w2b	Luhari, Gorkha, Panara, Budhi	Avrg.14.25	Avrg.11.15	06	-
7	Bagola-2C2A3w2d	Gorkha, Bagaul, Rampura Kadeem, Chedimau	Avrg.13.55	Avrg.11.35	08	-
8	Gugora-2C2A3q2b	Bhatwera Kala, Nauka, Khera Nankari	Avrg.13.85	Avrg.10.85	07	-
9	Andwara-2C2A3q2f	Dhanawan, Andwara, Gaurhari, Bhatewara Kala	Avrg.13.45	Avrg.11.85		
10	Devgan Pura 2C2A3s1a	Alipura, Remalpua, Chatesar,	Avrg.14.74	Avrg.11.28	05	

		Hebatpur Brahmin, Panwari				
11	Panwari 2C2A3s1b	Panwari, Nepura, Saragpura, Hebatpur, Brahman, Govindpur, Chanchari	Avrg.14.47	Avrg.12.64	07	
12	Bahdur pur kala 2C2A3s1e	Hebatpur Brahmin, Chatesar, Koniya, Bijnari, Bahadurpur Kala, Saragpura, Nepura	Avrg.13.18	Avrg.09.49	08	
13	Didwara 2C2A3s2a	Koniya, Bijnari, Chandanhas, Pahadiya Byarjaun, Parapantar, Didwara	Avrg.14.95	Avrg.12.44	06	
14	Tolapatar 2C2A3s2b	Parapantar, Didwara Rivai, Tola Pantar	Avrg.15.13	Avrg.11.46	07	
15	Riwai 2C2A3s2e	Rivai, Tolapantar, Bhoora , Toondar	Avrg.13.94	Avrg.10.50	08	
16	Parapatar 2C2A3s2d	Parapantar, Byarjo, Didwara, Pahariya	Avrg.14.94	Avrg.12.60	07	
17	Dulara 2C2A3f1a	Tingara, Parapantar, Rivai, Dulara, Bhujpura, Gadaura	Avrg.13.94	Avrg.09.14	06	
18	Amanpura 2C2A3f1b	Gadaura, Bhujpura, Amanpura Bhadevra, Pachara	Avrg.15.30	Avrg.11.87	07	
19	Ghutai 2C2A3e1e	Devgaon, Rurikeela, Ghutai	Avrg.15.70	Avrg.12.80	06	
20	Peepri 2C2A3e2e	Peepri, Kanaura, Imaliya	Avrg.11.94	Avrg.09.70	07	
21	Rurikala 2C2A3e2f	Rurikalan, Dulara, Kanaura, Imaliya	Avrg.13.68	Avrg.10.90	08	
	Average		11.94-15.70	9.14-12.80		

Generally stony layer is observed at a depth ranging between 1-5 m in all districts of Bundelkhand in Uttar Pradesh except Jalaun and Hamirpur district. Depth of water table in open shallow dug wells in the project area was about 12 to 16 m during pre monsoon, however it was in the range of 9-13 m during post monsoon season.

Table 3.17: Irrigation Status in IWMP-XXIII, Mahoba

Sr. No .	Name & Micro Watershed with code	Name of Village	Gross Cultivated Area				Net Cultivate d Area	Gross Irrigated Area				Net Irrigate d Area	Rainfed Area
			Kharif	Rabi	Zai d	Total		Khari f	Rabi	Zai d	Total		
1	Gorahari 2C2A3p1e	Gaurhari, Guda	193.84	383.92	-	577.761	533.32	-	85.33	-	85.33	85.33	447.99
2	Gorkha 2C2A3p1f	Gaurhari, Guda, Lidaura Soyam, Gorkha, Dhanawan	231.28	425.50	-	656.781	600.88	-	96.14	-	96.14	96.14	504.74
3	Luhari 2C2A3p1g	Lidaura Soyam, Guda	101.31	179.90	-	281.215	261.84	-	41.89	-	41.89	41.89	219.94
4	Andhoura 2C2A3p1h	Guda, Ragaul, Pratistha, Andhaura	189.49	336.18	-	525.673	476.93	-	76.31	-	76.31	76.31	400.62
5	Vijaypur 2C2A3w2a	Gorkha, Lidaura Soyam, Luhari, Bejalpur	186.87	384.97	-	571.841	554.02	-	88.64	-	88.64	88.64	465.38
6	Budi 2C2A3w2b	Luhari, Gorkha, Panara, Budhi	230.74	390.53	-	621.271	587.85	-	94.06	-	94.06	94.06	493.80
7	Bagola 2C2A3w2d	Gorkha, Bagaul, Rampura Kadeem, Chedimau	160.48	295.71	-	456.189	438.12	-	70.10	-	70.10	70.10	368.02
8	Gugora 2C2A3q2b	Bhatwera Kala, Nauka, Khera Nankari	217.63	330.26	-	547.896	512.10	-	81.94	-	81.94	81.94	430.17
9	Andwara 2C2A3q2f	Dhanawan, Andwara,	211.45	391.21	-	602.661	584.70	-	93.55	-	93.55	93.55	491.14

		Gaurhari, Bhatewara Kala											
10	Devgan Pura 2C2A3s1a	Alipura, Remalpua, Chatesar, Hebatpur Brahmin, Panwari	298.06	501.96	-	800.02	730.15	-	109.52	-	109.52	109.52	620.63
11	Panwari 2C2A3s1b	Panwari, Nepura, Saragpura, Hebatpur, Brahman, Govindpur, Chanchari	271.86	479.46	-	751.32	710.10	-	106.51	-	106.51	106.51	603.58
12	Bahdur pur kala 2C2A3s1e	Hebatpur Brahmin, Chatesar, Koniya, Bijnari, Bahadurpur Kala, Saragpura, Nepura	300.21	587.48	-	887.69	813.50	-	122.03	-	122.03	122.03	691.48
13	Didwara 2C2A3s2a	Koniya, Bijnari, Chandanhas, Pahadiya Byarjaun, Parapantar, Didwara	265.76	502.98	-	768.74	722.87	-	108.43	-	108.43	108.43	614.44
14	Tolapatar 2C2A3s2b	Parapantar, Didwara Rivai, Tola Pantar	257.98	456.53	-	714.51	651.61	-	97.74	-	97.74	97.74	553.87

15	Riwai 2C2A3s2e	Rivai, Tolapantar, Bhoora , Toondar	218.77	397.37	-	616.14	597.73	-	89.66	-	89.66	89.66	508.07
16	Parapatar 2C2A3s2d	Parapantar, Byarjo, Didwara, Pahariya	198.98	303.74	-	502.72	472.73	-	70.91	-	70.91	70.91	401.82
17	Dulara 2C2A3f1a	Tingara, Parapantar, Rivai, Dulara, Bhujpura, Gadaura	175.92	310.57	-	486.49	451.09	-	67.66	-	67.66	67.66	383.43
18	Amanpura 2C2A3f1b	Gadaura, Bhujpura, Amanpura Bhadevra, Pachara	161.23	309.56	-	470.79	445.26	-	66.79	-	66.79	66.79	378.47
19	Ghutai 2C2A3e1e	Devgaon, Rurikeela, Ghutai	236.89	401.64	-	638.53	591.63	-	69.22	-	69.22	69.22	522.41
20	Peepri 2C2A3e2e	Peepri, Kanaura, Imaliya	190.79	354.13	-	544.92	513.50	-	77.02	-	77.02	77.02	436.47
21	Rurikala 2C2A3e2f	Rurikalan, Dulara, Kanaura, Imaliya	113.48	223.85	-	337.33	315.10	-	47.26	-	47.26	47.26	267.83
	Total		4413.02	7947.45	-	12360.49	11565.03	-	1760.71	-	1760.71	1760.71	9804.30

Table 3.18: Source wise Area Irrigated in IWMP-XXIII, Mahoba (area in ha)

Sr . N o.	Name &Micro watershed with code	Name of Village	Cana l Area	State Tube wells		Tanks		Open well		Bore wells		Lift irrigation		Others (Specify)		Total Irrigate d Area	Rem.
				No .	Are a	No.	Area	No .	Area	No .	Area	No .	Area	No .	Are a		
1	Gorahari 2C2A3p1e	Gaurhari, Guda	-	-	0	3	8.53	44	42.67	5	4.69	-	17.07	-	-	85.33	Availability of water from these sources are mainly dependent upon rainfall and its distribution pattern. Therefore, these are not assured source of irrigation
2	Gorkha 2C2A3p1f	Gaurhari, Guda, Lidaura Soyam, Gorkha, Dhanawan	-	-	0	2	9.61	25	48.07	3	5.29	-	19.23	-	-	96.14	
3	Luhari 2C2A3p1g	Lidaura Soyam, Guda	-	-	0	3	4.19	37	20.95	4	2.30	-	8.38	-	-	41.89	
4	Andhoura 2C2A3p1h	Guda, Ragaul, Pratistha, Andhaura	-	-	0	2	7.63	27	38.15	3	4.20	-	15.26	-	-	76.31	
5	Vijaypur 2C2A3w2a	Gorkha, Lidaura Soyam, Luhari, Bejalpur	-	-	0	3	8.86	31	44.32	4	4.88	-	17.73	-	-	88.64	
6	Budi 2C2A3w2b	Luhari, Gorkha, Panara, Budhi	-	-	0	3	9.41	30	47.03	4	5.17	-	18.81	-	-	94.06	
7	Bagola 2C2A3w2d	Gorkha, Bagaul, Rampura Kadeem, Chedimau	-	-	0	2	7.01	24	35.05	3	3.86	-	14.02	-	-	70.10	
8	Gugora 2C2A3q2b	Bhatwera Kala, Nauka, Khera Nankari	-	-	0	3	8.19	30	40.97	4	4.51	-	16.39	-	-	81.94	
9	Andwara 2C2A3q2f	Dhanawan, Andwara, Gaurhari, Bhatewara Kala	-	-	0	3	9.36	39	46.78	5	5.15	-	18.71	-	-	93.55	
10	Devgan Pura 2C2A3s1a	Alipura, Remalpuwa, Chatesar, Hebatpur Brahmin, Panwari	-	-	0	4	10.95	25	54.76	3	6.02	-	21.90	-	-	109.52	

11	Panwari 2C2A3s1b	Panwari, Nepura, Saragpura, Hebatpur, Brahman, Govindpur, Chanchari	-	-	0	3	10.65	21	53.26	3	5.86	-	21.30	-	-	106.51	
12	Bahdur pur kala 2C2A3s1e	Hebatpur Brahmin, Chatesar, Koniya, Bijrari, Bahadurpur Kala, Saragpura, Nepura	-	-	0	4	12.20	26	61.01	3	6.71	-	24.41	-	-	122.03	
13	Didwara 2C2A3s2a	Koniya, Bijrari, Chandanhas, Pahadiya Byarjaun, Parapantar, Didwara	-	-	0	4	10.84	24	54.22	4	5.96	-	21.69	-	-	108.43	
14	Tolapatar 2C2A3s2b	Parapantar, Didwara Rivai, Tola Pantar	-	-	0	3	9.77	25	48.87	3	5.38	-	19.55	-	-	97.74	
15	Riwai 2C2A3s2e	Rivai, Tolapantar, Bhoora , Toondar	-	-	0	6	8.97	30	44.83	5	4.93	-	17.93	-	-	89.66	
16	Parapatar 2C2A3s2d	Parapantar, Byarjo, Didwara, Pahariya	-	-	0	3	7.09	25	35.46	2	3.90	-	14.18	-	-	70.91	
17	Dulara 2C2A3f1a	Tingara, Parapantar, Rivai, Dulara, Bhujpura, Gadaura	-	-	0	4	6.77	26	33.83	3	3.72	-	13.53	-	-	67.66	
18	Amanpura 2C2A3f1b	Gadaura, Bhujpura, Amanpura Bhadevra, Pachara	-	-	0	3	6.68	20	33.39	2	3.67	-	13.36	-	-	66.79	
19	Ghutai 2C2A3e1e	Devgaon, Rurikeela, Ghutai	-	-	0	3	6.92	20	34.61	3	3.81	-	13.84	-	-	69.22	
20	Peepri 2C2A3e2e	Peepri, Kanaura, Imaliya	-	-	0	2	7.70	18	38.51	2	4.24	-	15.40	-	-	77.02	
21	Rurikala 2C2A3e2f	Rurikalan, Dulara, Kanaura, Imaliya	-	-	0	3	4.73	21	23.63	2	2.60	-	9.45	-	-	47.26	
Total			-	-	0	66	176.06	568	880.37	70	96.85	-	352.14	-	-	1760.71	

CHAPTER – 4

INSTITUTIONAL BUILDING AND PROJECT MANAGEMENT

4.1 Project Implementing Agency

The Project Implementing Agency (PIA) is Soil Conservation Officer, Deptt. of Agriculture, IWMP-XXIII, Kulpahar, Mahoba, Uttar Pradesh. The PIA was given responsibility to develop the micro-watershed by Watershed Cell and Data Centre (WCDC) 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. Most of the staff of PIA has exposure of several watershed projects. In addition the PIA has access for technical backstopping from the ICAR viz. IGFRI and NRCAF at Jhansi and KVK located at Mahoba. Details of PIA are presented in subsequent section.

Table 4.1: Details of Project Implementing Agency (PIA), IWMP-XXIII, Mahoba

Sr. No.	Particulars of PIA	
(i)	Date of selection of PIA	
(ii)	Type of organization	U.P. Government
(iii)	Name of organization	Soil Conservation Division, Deptt. of Agriculture
(iv)	Designation & Address	Soil Conservation Officer, Kulpahar
(v)	Telephone	
(vi)	Fax	
(vii)	E-mail	

Table 4.2: Details of Staff at PIA, IWMP-XXIII, Mahoba

Sr. No.	Designation	Name	M/F	Qualification	Field of Experience & Period (Years)
1	B.S.A	J.P Singh	M	M.Sc (Agriculture)	NRM, 26
2	J.E.	C. D. Yadav	M	Diploma in Civil. Engg.	Water Management, 22
3	J.E.	R.K Srivastava	M	Diploma in Mechanical Engg.	3
4	SCI	B.Ram Ahirwar	M	Inter, Diploma	Water Management, 26
5	SCI	V.P Singh	M	Inter, Diploma	Water Management, 31
6	SCI	D.R Verma	M	Inter, Diploma	Water Management, 28
7	SCI	G.P. Sachan	M	High school	NRM, 32
8	ASCI	Ram Pal Yadav	M	Diploma Agriculture	Water Management, 25
9	ASCI	Uday Vir Singh	M	Graduate (Agri)	Crop Production
10	ASCI	Prem Chand	M	Graduate (Agri)	Crop Production, 24
11	ASCI	L.P Kushwaha	M	Graduate (Agri)	Crop Production, 28
12	ASCI	M.P. Singh	M	Inter, Diploma	
13	ASCI	Chunnulal Patel	M	Graduate (Agri)	
14	ASCI	Lala Ram Rajput	M	High school, Diploma	
18	ASCI	Amar Singh	M	Graduate (Agri)	
19	ASCI	H. P.Tiwari	M	Inter, Diploma	
20	ASCI	D.S. Soni	M	Inter, Diploma	
21	ASCI	J. P. Agrawal	M	Inter, Diploma	
22	ASCI	M.L. Gupta	M	Inter, Diploma	
23	ASCI	Madan Rajput	M	Graduate (Agri)	
24	ASCI	T.N Diskhit	M	Inter, Diploma	
25	ASCI	S. K. Dubey	M	Graduate	
26	ASCI	Alok Kumar Vyas	M	Diploma	
27	ASCI	R.C. Singh	M	Diploma	
28	ASCI	Bobu Ram Soni	M	Diploma	

**Table 4.3: Details of Watershed Development Team (WDT) in the project area
Project- IWMP- XXIII PIA- BSA, Kulpahar, Mahoba**

District – Mahoba

Sr. No.	Name of WDT member	M/F	Age	Qualification / Experience	Description of professional training	Role/ Function	Date of appointment of WDT member
1.	C. D. Yadav	M	46	Diploma in Civil. Engg	All the members are having work experience of watershed management.	WDT members will be accountable for the activities mentioned in Common Guidelines for watershed Development Projects 2008	25.11.2011
2.	B. Ram Ahirwar	M	55	Inter, Diploma			
3.	Ram Pal Yadav	M	47	Diploma Agriculture			
4.	Smt Ram Sakhi	F	22	Social Sciences			

Table 4.4: Details of Watershed Committee (WC)- Gram Panchayat wise

Jal Sanrakshan Samiti- Guda,

Gram Panchayat: Guda

Name of Project:- IWMP- XXIII

District- Mahoba

Sl. No .	Name of Gram Sabha / GP	Date of Constitutio n/ Registratio n as a Society (dd/mm/yyyy)	Designatio n	M/ F	S C	S T	O B C	Ge n	S F	M F	L F	Land -less	U G	SH G	G P	Educa-tional qualificatio n	Function(s) assigned
1	Guda	10.10.11	President	M	-	-	Y	-	-	-	-	-	-	Y	5 TH	WC will act as per Common Guidelines for watershed Development Projects 2008	
			Secretary	M	-	-	-	Y	-	-	-	-	-	-	-	10 TH	
			Team leader	M	Y	-	-	-	-	Y	-	-	Y	-	-	Diploma Ag	
			Member	M	-	-	Y	-	Y	-	-	-	-	-	-	8 TH	
			Member	M	-	-	Y	-	-	-	-	-	-	-	-	8 TH	
			Member	M	Y	-	-	-	-	-	Y	-	-	Y	-	5 TH	
			Member	F	-	-	Y	-	Y	-	-	-	Y	-	-	5 TH	
			Member	M	-	-	Y	-	-	-	-	-	Y	-	Y	5 TH	
			Member	M	Y	-	-	-	-	-	-	Y	-	Y	-	8 TH	
			Member	M	-	-	-	Y	-	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	-	-	-	-	-	-	8 TH	

Male-M, Female-F, Schedule caste- SC, Schedule tribe- ST, Other backward clan- OBC, General- Gen, Small farmer- SF, Medium farmer-MF, Large farmer- LF, User Group- UG, Self help Group-SHG, Gram Panchayat Member- GP

Jal Sanrakshan Samiti: Gouhari,
District- Mahoba

Gram Panchayat: Gouhari

Name of Project:- IWMP- XXIII

Sl. No .	Name of Gram Sabha/ GP	Date of Constitutio n/ Registratio n as a Society (dd/mm/ yyyy)	Designati on	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa-tional qualificati on	Function(s) assigned
2	Gouha ri	13.10.11	President	M	-	-	Y	-	-	-	Y	-	-	-	-	5 TH	WC will act as per Common Guidelines for watershed Development Projects 2008
			Secretary	M	-	-	-	Y	Y	-	-	-	-	-	-	B.A	
			Team Leader	M	Y	-	-	-	Y	-	-	-	-	-	-	B.Sc AG	
			Member	M	-	-	Y	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	-	-	-	-	-	-	10 TH	
			Member	M	-	-	-	-	-	-	Y	-	-	-	-	8 TH	
			Member	F	-	-	-	Y	Y	Y	-	-	-	Y	-	8 TH	
			Member	M	-	-	Y		Y	-	-	-	Y	-	-	8 TH	
			Member	M	Y	-	-	-	-	Y	-	Y	-	-	-	5 TH	
			Member	M	-	-	Y	-	Y	-	-	-	-	-	-	5 TH	
			Member	M	-	-	-	Y	-	-	-	-	Y	-	Y	5 TH	

Jal Sanrakshan Samiti - Luhari,
District- Mahoba

Gram Panchayat: Luhari

Name of Project:- IWMP- XXIII

Sl. No . .	Name of Gram Sabh a/ GP	Date of Constitutio n/ Registratio n as a Society (dd/mm/ yyyy)	Designatio n	SC	S T	O B C	Gen	SF	MF	LF	L an d- les s	UG	SH G	GP	S C	Educa- tional qualificati on	Function(s) assigned
3	Luhar i	11.10.11	President	-	-	-	Y	-	Y	-	-	-	-	-	-	5 TH	WC will act as per Common Guidelines for watershed Developm ent Projects 2008
			Secretary	-	-	Y		-	Y	-	-	Y	-	-	-	B.A	
			Team leader	-	-	-	Y	-	-	-	-	-	-	-	-	B.Sc AG	
			Member	-	-	-	Y	-	Y	-	-	Y	-	-	-	8 TH	
			Member	-	-	Y	-	-	Y	-	-	-	-	-	-	10 TH	
			Member	Y	-	-	-	-	-	-	Y	-	Y	-	Y	8 TH	
			Member	-	-	Y	-	-	Y	-	-	-	-	-	-	8 TH	
			Member	-	-	Y	-	-	-	-	Y	-	Y	-	-	8 TH	
			Member	Y	-	-	-	Y	-	-	-	Y	-	-	Y	5 TH	
			Member	-	-	Y	-	-	Y	-	-	-	-	-	-	5 TH	
			Member	-	-	Y	-	-	Y	-	-	Y	-	-	-	5 TH	

Jal Sanrakshan Samiti - Goarkha,
District- Mahoba

Gram Panchayat: Goarkha

Name of Project:- IWMP- XXIII

Sl. No .	Name of Gram Sabha/ GP	Date of Constituti on/ Registrati on as a Society (dd/mm/ yyyy)	Designatio n	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa-tional qualificati on	Function(s) assigned
4	Goarkh a	28.10.11	President	M	Y	-	-	-	Y	-	-	-	-	Y	8 TH	WC will act as per Common Guidelines for watershed Development Projects 2008	
			Secretary	M	-	-	Y	-	-	Y	-	-	Y	-	-	10 TH	
			Team leader	M	-	-	Y	-	-	-	-	-	-	-	-	Diploma Ag	
			Member	M	-	-	Y	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	-	Y	-	Y	-	-	8 TH	
			Member	F	-	-	-	-	-	-	-	Y	-	Y	-	8 TH	
			Member	M	Y	-	-	-	Y	-	-	-	-	-	-	5 TH	
			Member	M	-	-	Y	-	-	Y	-	-	Y	-	-	5 TH	
			Member	F	Y	-	-	-	-	-	-	Y	-	Y	-	8 TH	
			Member	M	-	-	-	Y	-	Y	-	-	-	-	-	8 TH	
			Member	M	-	-	-	Y	-	Y	-	-	-	-	-	8 TH	

Jal Sanrakshan Samiti – Bhtewara Kalan,
District- Mahoba

Gram Panchayat: Bhtewara Kalan

Name of Project:- IWMP- XXIII

Sl. No .	Name of Gram Sabha/ GP	Date of Constituti on/ Registrati on as a Society (dd/mm/ yyyy)	Designatio n	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa-tional qualificati on	Function(s) assigned
5	Bhtew ara Kalan	29.10.11	President	M	-	-	-	Y	-	Y	-	-	-	-	-	10 TH	WC will act as per Common Guidelines for watershed Development Projects 2008
			Secretary	M	-	-	Y		-	Y	-	-	Y	-	-	10 TH	
			Team leader	M	-	-	-	Y	-	-	-	-	-	-	-	Diploma Ag	
			Member	M	-	-	-	Y	-	Y	-	-	Y	-	-	10 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	10 TH	
			Member	M	Y	-	-	-	-	-	-	Y	-	Y	-	B.A	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	5 TH	
			Member	M	-	-	Y	-	-	-	-	Y	-	Y	-	5 TH	
			Member	F	Y	-	-	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	8 TH	
			Member	M	-	-	Y	-	Y	-	-	-	Y	-	-	8 TH	

Jal Sanrakshan Samiti - Vijaypur,
District- Mahoba

Gram Panchayat: Vijaypur

Name of Project:- IWMP- XXIII

Sl. No . .	Name of Gram Sabha/ GP	Date of Constituti on/ Registrati on as a Society (dd/mm/ yyyy)	Designatio n	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa - tional qualificati on	Function(s) assigned
6	Vijaypu r	28.10.11	President	M	-	-	-	Y	-	Y	-	-	Y	-	Y	12 TH	WC will act as per Common Guidelines for watershed Developm ent Projects 2008
			Secretary	M	-	-	Y	-	-	Y	-	-	-	-	-	10 TH	
			Team leader	M	-	-	Y	-	-	-	-	-	-	-	-	Diploma Ag	
			Member	M	-	-	Y	-	-	Y	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	8 TH	
			Member	M	Y	-	-	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	-	8 TH	
			Member	M	-	-	-	Y	Y	-	-	-	Y	-	-	8 TH	
			Member	F	-	-	Y	-	-	-	-	Y	-	Y	-	10 TH	
			Member	M	Y	-	-	-	-	-	-	Y	-	Y	-	5 TH	
			Member	M	-	-	Y	-	-	Y	-	-	Y	-	-	5 TH	

Jal Sanrakshan Samiti – Gugoura,
District- Mahoba

Gram Panchayat: Gugoura

Name of Project:- IWMP- XXIII

Sl. No . .	Name of Gram Sabha/ GP	Date of Constituti on/ Registrati on as a Society (dd/mm/ yyyy)	Designatio n	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa - tional qualificati on	Function(s) assigned
7	Gugou ra	29.10.11	President	M	-	-	-	Y	-	Y	-	-	-	-	-	10 TH	WC will act as per Common Guidelines for watershed Developm ent Projects 2008
			Secretary	M	-	-	Y		-	Y	-	-	Y	-	-	10 TH	
			Team leader	M	-	-	-	Y	-	-	-	-	-	-	-	Diploma Ag	
			Member	M	-	-	-	Y	-	Y	-	-	Y	-	-	10 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	10 TH	
			Member	M	Y	-	-	-	-	-	-	Y	-	Y	-	B.A	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	5 TH	
			Member	M	-	-	Y	-	-	Y	-	-	Y	-	Y	-	5 TH
			Member	F	Y	-	-	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	8 TH	
			Member	M	-	-	Y	-	Y	-	-	-	Y	-	-	8 TH	

Jal Sanrakshan Samiti - Andwara,
District- Mahoba

Gram Panchayat: Andwara

Name of Project:- IWMP- XXIII

Sl. No . .	Name of Gram Sabha/ GP	Date of Constituti on/ Registrati on as a Society (dd/mm/ yyyy)	Designatio n	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa - tional qualificati on	Function(s) assigned
8	Andwara	29.10.11	President	M	-	-	-	Y	-	Y	-	-	-	-	-	10 TH	WC will act as per Common Guidelines for watershed Development Projects 2008
			Secretary	M	-	-	Y		-	Y	-	-	Y	-	-	10 TH	
			Team leader	M	-	-	-	Y	-	-	-	-	-	-	-	Diploma Ag	
			Member	M	-	-	-	Y	-	Y	-	-	Y	-	-	10 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	10 TH	
			Member	M	Y	-	-	-	-	-	-	Y	-	Y	-	B.A	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	5 TH	
			Member	M	-	-	Y	-	-	Y	-	-	Y	-	Y	5 TH	
			Member	F	Y	-	-	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	8 TH	
			Member	M	-	-	Y	-	Y	-	-	-	Y	-	-	8 TH	

Jal Sanrakshan Samiti- Panwari,
District- Mahoba

Gram Panchayat: Panwari

Name of Project:- IWMP- XXIII

Sl. No .	Name of Gram Sabha/ GP	Date of Constitutio n/ Registratio n as a Society (dd/mm/yyyy)	Designatio n	M/F	SC	ST	OBC	Gen	SF	M F	LF	Land-less	U G	SH G	G P	Educa-tional qualific-ation	Func-tion(s) assig-ne-d
9	Panw ari	10.10.1 1	President	M	-	-	Y	-	-	-	-	-	-	Y	5 TH	WC will act as per Common Guidelines for watershed Development Projects 2008	
			Secret ary	M	-	-	-	Y	-	-	-	-	-	-	-	10 TH	
			Team leader	M	Y	-	-	-	-	Y	-	-	Y	-	-	Diploma Ag	
			Member	M	-	-	Y	-	Y	-	-	-	-	-	-	8 TH	
			Member	M	-	-	Y	-	-	-	-	-	-	-	-	8 TH	
			Member	M	Y	-	-	-	-	-	Y	-	-	Y	-	5 TH	
			Member	F	-	-	Y	-	Y	-	-	-	Y	-	-	5 TH	
			Member	M	-	-	Y	-	-	-	-	-	Y	-	Y	5 TH	
			Member	M	Y	-	-	-	-	-	Y	-	Y	-	-	8 TH	
			Member	M	-	-	-	Y	-	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	-	-	-	-	-	-	8 TH	

**Jal Sanrakshan Samiti: Devgaonpurwa,
District- Devgaonpurwa**

Gram Panchayat: Devgaonpurwa

Name of Project:- IWMP- XXIII

Sl. No . .	Name of Gram Sabha/ GP	Date of Constitutio n/ Registratio n as a Society (dd/mm/ yyyy)	Designati on	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa tional qualificati on	Function(s) assigned
10	Devga onpur wa	13.10.11	President	M	-	-	Y	-	-	-	Y	-	-	-	-	5 TH	WC will act as per Common Guidelines for watershed Developm ent Projects 2008
			Secretary	M	-	-	-	Y	Y	-	-	-	-	-	-	B.A	
			Team Leader	M	Y	-	-	-	Y	-	-	-	-	-	-	B.Sc AG	
			Member	M	-	-	Y	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	-	-	-	-	-	-	10 TH	
			Member	M	-	-	-	-	-	-	Y	-	-	-	-	8 TH	
			Member	F	-	-	-	Y	Y	Y	-	-	-	Y	-	8 TH	
			Member	M	-	-	Y		Y	-	-	-	Y	-	-	8 TH	
			Member	M	Y	-	-	-	-	Y	-	Y	-	-	-	5 TH	
			Member	M	-	-	Y	-	Y	-	-	-	-	-	-	5 TH	
			Member	M	-	-	-	Y	-	-	-	Y	-	Y	-	5 TH	

Jal Sanrakshan Samiti - Peepri,
District- Mahoba

Gram Panchayat: Peepri

Name of Project:- IWMP- XXIII

Sl. No . .	Name of Gram Sabh a/ GP	Date of Constitutio n/ Registratio n as a Society (dd/mm/ yyyy)	Designatio n	SC	S T	O B C	Gen	SF	MF	LF	L an d- les s	UG	SH G	GP	S C	Educa- tional qualificati on	Function(s) assigned
11	Peepri	11.10.11	President	-	-	-	Y	-	Y	-	-	-	-	-	-	5 TH	WC will act as per Common Guidelines for watershed Development Projects 2008
			Secretary	-	-	Y		-	Y	-	-	Y	-	-	-	B.A	
			Team leader	-	-	-	Y	-	-	-	-	-	-	-	-	B.Sc AG	
			Member	-	-	-	Y	-	Y	-	-	Y	-	-	-	8 TH	
			Member	-	-	Y	-	-	Y	-	-	-	-	-	-	10 TH	
			Member	Y	-	-	-	-	-	-	Y	-	Y	-	Y	8 TH	
			Member	-	-	Y	-	-	Y	-	-	-	-	-	-	8 TH	
			Member	-	-	Y	-	-	-	-	Y	-	Y	-	-	8 TH	
			Member	Y	-	-	-	Y	-	-	-	Y	-	-	Y	5 TH	
			Member	-	-	Y	-	-	Y	-	-	-	-	-	-	5 TH	
			Member	-	-	Y	-	-	Y	-	-	Y	-	-	-	5 TH	

Jal Sanrakshan Samiti - Rurkila,
District- Mahoba

Gram Panchayat: Rurkila

Name of Project:- IWMP- XXIII

Sl. No .	Name of Gram Sabha/ GP	Date of Constituti on/ Registrati on as a Society (dd/mm/ yyyy)	Designatio n	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa-tional qualificati on	Function(s) assigned
12	Rurkila	28.10.11	President	M	Y	-	-	-	Y	-	-	-	-	Y	8 TH	WC will act as per Common Guidelines for watershed Development Projects 2008	
			Secretary	M	-	-	Y	-	-	Y	-	-	Y	-	-	10 TH	
			Team leader	M	-	-	Y	-	-	-	-	-	-	-	-	Diploma Ag	
			Member	M	-	-	Y	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	-	Y	-	Y	-	-	8 TH	
			Member	F	-	-	-	-	-	-	-	Y	-	Y	-	8 TH	
			Member	M	Y	-	-	-	Y	-	-	-	-	-	-	5 TH	
			Member	M	-	-	Y	-	-	Y	-	-	Y	-	-	5 TH	
			Member	F	Y	-	-	-	-	-	-	Y	-	Y	-	8 TH	
			Member	M	-	-	-	Y	-	Y	-	-	-	-	-	8 TH	
			Member	M	-	-	-	Y	-	Y	-	-	-	-	-	8 TH	

Jal Sanrakshan Samiti – Amanpura
District- Mahoba

Gram Panchayat: Amanpura

Name of Project:- IWMP- XXIII

Sl. No .	Name of Gram Sabha/ GP	Date of Constituti on/ Registrati on as a Society (dd/mm/ yyyy)	Designatio n	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa-tional qualificati on	Function(s) assigned
13	Amanp ura	29.10.11	President	M	-	-	-	Y	-	Y	-	-	-	-	-	10 TH	WC will act as per Common Guidelines for watershed Development Projects 2008
			Secretary	M	-	-	Y		-	Y	-	-	Y	-	-	10 TH	
			Team leader	M	-	-	-	Y	-	-	-	-	-	-	-	Diploma Ag	
			Member	M	-	-	-	Y	-	Y	-	-	Y	-	-	10 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	10 TH	
			Member	M	Y	-	-	-	-	-	-	Y	-	Y	-	B.A	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	5 TH	
			Member	M	-	-	Y	-	-	-	-	Y	-	Y	-	5 TH	
			Member	F	Y	-	-	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	8 TH	
			Member	M	-	-	Y	-	Y	-	-	-	Y	-	-	8 TH	

Jal Sanrakshan Samiti - Dular,
District- Mahoba

Gram Panchayat: Dular

Name of Project:- IWMP- XXIII

Sl. No . .	Name of Gram Sabha/ GP	Date of Constituti on/ Registrati on as a Society (dd/mm/ yyyy)	Designatio n	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa - tional qualificati on	Function(s) assigned
14	Dular	28.10.11	President	M	-	-	-	Y	-	Y	-	-	Y	-	Y	12 TH	WC will act as per Common Guidelines for watershed Developm ent Projects 2008
			Secretary	M	-	-	Y	-	-	Y	-	-	-	-	-	10 TH	
			Team leader	M	-	-	Y	-	-	-	-	-	-	-	-	Diploma Ag	
			Member	M	-	-	Y	-	-	Y	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	8 TH	
			Member	M	Y	-	-	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	-	8 TH	
			Member	M	-	-	-	Y	Y	-	-	-	Y	-	-	8 TH	
			Member	F	-	-	Y	-	-	-	-	Y	-	Y	-	10 TH	
			Member	M	Y	-	-	-	-	-	-	Y	-	Y	-	5 TH	
			Member	M	-	-	Y	-	-	Y	-	-	Y	-	-	5 TH	

Jal Sanrakshan Samiti – Koniya,
District- Mahoba

Gram Panchayat: Koniya

Name of Project:- IWMP- XXIII

Sl. No . .	Name of Gram Sabha/ GP	Date of Constituti on/ Registrati on as a Society (dd/mm/ yyyy)	Designatio n	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa - tional qualificati on	Function(s) assigned
15	Koniya	29.10.11	President	M	-	-	-	Y	-	Y	-	-	-	-	-	10 TH	WC will act as per Common Guidelines for watershed Developm ent Projects 2008
			Secretary	M	-	-	Y		-	Y	-	-	Y	-	-	10 TH	
			Team leader	M	-	-	-	Y	-	-	-	-	-	-	-	Diploma Ag	
			Member	M	-	-	-	Y	-	Y	-	-	Y	-	-	10 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	10 TH	
			Member	M	Y	-	-	-	-	-	-	Y	-	Y	-	B.A	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	5 TH	
			Member	M	-	-	Y	-	-	Y	-	-	Y	-	Y	5 TH	
			Member	F	Y	-	-	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	8 TH	
			Member	M	-	-	Y	-	Y	-	-	-	Y	-	-	8 TH	

Jal Sanrakshan Samiti - Didwara,
District- Mahoba

Gram Panchayat: Didwara

Name of Project:- IWMP- XXIII

Sl. No . .	Name of Gram Sabha/ GP	Date of Constituti on/ Registrati on as a Society (dd/mm/ yyyy)	Designatio n	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa - tional qualificati on	Function(s) assigned
16	Didwar a	29.10.11	President	M	-	-	-	Y	-	Y	-	-	-	-	-	10 TH	WC will act as per Common Guidelines for watershed Developm ent Projects 2008
			Secretary	M	-	-	Y		-	Y	-	-	Y	-	-	10 TH	
			Team leader	M	-	-	-	Y	-	-	-	-	-	-	-	Diploma Ag	
			Member	M	-	-	-	Y	-	Y	-	-	Y	-	-	10 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	10 TH	
			Member	M	Y	-	-	-	-	-	-	Y	-	Y	-	B.A	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	5 TH	
			Member	M	-	-	Y	-	-	Y	-	-	Y	-	Y	5 TH	
			Member	F	Y	-	-	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	8 TH	
			Member	M	-	-	Y	-	Y	-	-	-	Y	-	-	8 TH	

Jal Sanrakshan Samiti - Vjrari,
District- Mahoba

Gram Panchayat: Vjrari

Name of Project:- IWMP- XXIII

Sl. No . .	Name of Gram Sabha/ GP	Date of Constituti on/ Registrati on as a Society (dd/mm/ yyyy)	Designatio n	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa - tional qualificati on	Function(s) assigned
17	Vjrari	29.10.11	President	M	-	-	-	Y	-	Y	-	-	-	-	-	10 TH	WC will act as per Common Guidelines for watershed Development Projects 2008
			Secretary	M	-	-	Y		-	Y	-	-	Y	-	-	10 TH	
			Team leader	M	-	-	-	Y	-	-	-	-	-	-	-	Diploma Ag	
			Member	M	-	-	-	Y	-	Y	-	-	Y	-	-	10 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	10 TH	
			Member	M	Y	-	-	-	-	-	-	Y	-	Y	-	B.A	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	5 TH	
			Member	M	-	-	Y	-	-	-	-	Y	-	Y	-	5 TH	
			Member	F	Y	-	-	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	8 TH	
			Member	M	-	-	Y	-	Y	-	-	-	Y	-	-	8 TH	

Jal Sanrakshan Samiti - Tolapatar,
District- Mahoba

Gram Panchayat: Tolapatar

Name of Project:- IWMP- XXIII

Sl. No . .	Name of Gram Sabha/ GP	Date of Constituti on/ Registrati on as a Society (dd/mm/ yyyy)	Designatio n	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa - tional qualificati on	Function(s) assigned
18	Tolapa tar	29.10.11	President	M	-	-	-	Y	-	Y	-	-	-	-	-	10 TH	WC will act as per Common Guidelines for watershed Developm ent Projects 2008
			Secretary	M	-	-	Y		-	Y	-	-	Y	-	-	10 TH	
			Team leader	M	-	-	-	Y	-	-	-	-	-	-	-	Diploma Ag	
			Member	M	-	-	-	Y	-	Y	-	-	Y	-	-	10 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	10 TH	
			Member	M	Y	-	-	-	-	-	-	Y	-	Y	-	B.A	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	5 TH	
			Member	M	-	-	Y	-	-	Y	-	-	Y	-	Y	5 TH	
			Member	F	Y	-	-	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	8 TH	
			Member	M	-	-	Y	-	Y	-	-	-	Y	-	-	8 TH	

Jal Sanrakshan Samiti - Riwai,
District- Mahoba

Gram Panchayat: Riwai

Name of Project:- IWMP- XXIII

Sl. No .	Name of Gram Sabha/ GP	Date of Constituti on/ Registrati on as a Society (dd/mm/ yyyy)	Designatio n	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa-tional qualificati on	Function(s) assigned
19	Riwai	29.10.11	President	M	-	-	-	Y	-	Y	-	-	-	-	-	10 TH	WC will act as per Common Guidelines for watershed Development Projects 2008
			Secretary	M	-	-	Y		-	Y	-	-	Y	-	-	10 TH	
			Team leader	M	-	-	-	Y	-	-	-	-	-	-	-	Diploma Ag	
			Member	M	-	-	-	Y	-	Y	-	-	Y	-	-	10 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	10 TH	
			Member	M	Y	-	-	-	-	-	-	Y	-	Y	-	B.A	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	5 TH	
			Member	M	-	-	Y	-	-	Y	-	-	Y	-	Y	5 TH	
			Member	F	Y	-	-	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	8 TH	
			Member	M	-	-	Y	-	Y	-	-	-	Y	-	-	8 TH	

Jal Sanrakshan Samiti - Pahadiya,
District- Mahoba

Gram Panchayat: Pahadiya

Name of Project:- IWMP- XXIII

Sl. No .	Name of Gram Sabha/ GP	Date of Constituti on/ Registrati on as a Society (dd/mm/ yyyy)	Designatio n	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa-tional qualificati on	Function(s) assigned
20	Pahadi ya	29.10.11	President	M	-	-	-	Y	-	Y	-	-	-	-	-	10 TH	WC will act as per Common Guidelines for watershed Development Projects 2008
			Secretary	M	-	-	Y		-	Y	-	-	Y	-	-	10 TH	
			Team leader	M	-	-	-	Y	-	-	-	-	-	-	-	Diploma Ag	
			Member	M	-	-	-	Y	-	Y	-	-	Y	-	-	10 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	10 TH	
			Member	M	Y	-	-	-	-	-	-	Y	-	Y	-	B.A	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	5 TH	
			Member	M	-	-	Y	-	-	-	-	Y	-	Y	-	5 TH	
			Member	F	Y	-	-	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	8 TH	
			Member	M	-	-	Y	-	Y	-	-	-	Y	-	-	8 TH	

Jal Sanrakshan Samiti - Bhamhouri kurkin,
District- Mahoba

Gram Panchayat: Bhamhouri kurkin

Name of Project:- IWMP- XXIII

Sl. No . .	Name of Gram Sabha/ GP	Date of Constituti on/ Registrati on as a Society (dd/mm/ yyyy)	Designatio n	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa - tional qualificati on	Function(s) assigned
21	Bhamh ouri kurkin	29.10.11	President	M	-	-	-	Y	-	Y	-	-	-	-	-	10 TH	WC will act as per Common Guidelines for watershed Developm ent Projects 2008
			Secretary	M	-	-	Y		-	Y	-	-	Y	-	-	10 TH	
			Team leader	M	-	-	-	Y	-	-	-	-	-	-	-	Diploma Ag	
			Member	M	-	-	-	Y	-	Y	-	-	Y	-	-	10 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	10 TH	
			Member	M	Y	-	-	-	-	-	-	Y	-	Y	-	B.A	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	5 TH	
			Member	M	-	-	Y	-	-	Y	-	-	Y	-	Y	-	5 TH
			Member	F	Y	-	-	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	8 TH	
			Member	M	-	-	Y	-	Y	-	-	-	Y	-	-	8 TH	

Jal Sanrakshan Samiti – Prapantar,
District- Mahoba

Gram Panchayat: Prapantar

Name of Project:- IWMP- XXIII

Sl. No . .	Name of Gram Sabha/ GP	Date of Constituti on/ Registrati on as a Society (dd/mm/ yyyy)	Designatio n	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa - tional qualificati on	Function(s) assigned
22	Prapan tar	29.10.11	President	M	-	-	-	Y	-	Y	-	-	-	-	-	10 TH	WC will act as per Common Guidelines for watershed Developm ent Projects 2008
			Secretary	M	-	-	Y		-	Y	-	-	Y	-	-	10 TH	
			Team leader	M	-	-	-	Y	-	-	-	-	-	-	-	Diploma Ag	
			Member	M	-	-	-	Y	-	Y	-	-	Y	-	-	10 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	10 TH	
			Member	M	Y	-	-	-	-	-	-	Y	-	Y	-	B.A	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	5 TH	
			Member	M	-	-	Y	-	-	Y	-	-	Y	-	Y	5 TH	
			Member	F	Y	-	-	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	8 TH	
			Member	M	-	-	Y	-	Y	-	-	-	Y	-	-	8 TH	

Jal Sanrakshan Samiti - Phandana,
District- Mahoba

Gram Panchayat: Phandana

Name of Project:- IWMP- XXIII

Sl. No . .	Name of Gram Sabha/ GP	Date of Constituti on/ Registrati on as a Society (dd/mm/ yyyy)	Designatio n	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa - tional qualificati on	Function(s) assigned
23	Phanda na	28.10.11	President	M	-	-	-	Y	-	Y	-	-	Y	-	Y	12 TH	WC will act as per Common Guidelines for watershed Developm ent Projects 2008
			Secretary	M	-	-	Y	-	-	Y	-	-	-	-	-	10 TH	
			Team leader	M	-	-	Y	-	-	-	-	-	-	-	-	Diploma Ag	
			Member	M	-	-	Y	-	-	Y	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	8 TH	
			Member	M	Y	-	-	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	-	Y	-	-	Y	-	-	-	-	8 TH	
			Member	M	-	-	-	Y	Y	-	-	-	Y	-	-	8 TH	
			Member	F	-	-	Y	-	-	-	-	Y	-	Y	-	10 TH	
			Member	M	Y	-	-	-	-	-	-	Y	-	Y	-	5 TH	
			Member	M	-	-	Y	-	-	Y	-	-	Y	-	-	5 TH	

Jal Sanrakshan Samiti - Ghutbai,
District- Mahoba

Gram Panchayat: Ghutbai

Name of Project:- IWMP- XXIII

Sl. No . .	Name of Gram Sabha/ GP	Date of Constituti on/ Registrati on as a Society (dd/mm/ yyyy)	Designatio n	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa - tional qualificati on	Function(s) assigned
24	Ghutba i	29.10.11	President	M	-	-	-	Y	-	Y	-	-	-	-	-	10 TH	WC will act as per Common Guidelines for watershed Developm ent Projects 2008
			Secretary	M	-	-	Y		-	Y	-	-	Y	-	-	10 TH	
			Team leader	M	-	-	-	Y	-	-	-	-	-	-	-	Diploma Ag	
			Member	M	-	-	-	Y	-	Y	-	-	Y	-	-	10 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	10 TH	
			Member	M	Y	-	-	-	-	-	-	Y	-	Y	-	B.A	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	5 TH	
			Member	M	-	-	Y	-	-	Y	-	-	Y	-	Y	5 TH	
			Member	F	Y	-	-	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	8 TH	
			Member	M	-	-	Y	-	Y	-	-	-	Y	-	-	8 TH	

Jal Sanrakshan Samiti – Bahadurpurkala,
District- Mahoba

Gram Panchayat: Bahadurpurkala

Name of Project:- IWMP- XXIII

Sl. No . .	Name of Gram Sabha/ GP	Date of Constituti on/ Registrati on as a Society (dd/mm/ yyyy)	Designatio n	M/ F	S C	S T	OBC	Gen	SF	M F	L F	Land -less	U G	SH G	G P	Educa - tional qualificati on	Function(s) assigned
25	Bahad urpurk ala	29.10.11	President	M	-	-	-	Y	-	Y	-	-	-	-	-	10 TH	WC will act as per Common Guidelines for watershed Developm ent Projects 2008
			Secretary	M	-	-	Y		-	Y	-	-	Y	-	-	10 TH	
			Team leader	M	-	-	-	Y	-	-	-	-	-	-	-	Diploma Ag	
			Member	M	-	-	-	Y	-	Y	-	-	Y	-	-	10 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	10 TH	
			Member	M	Y	-	-	-	-	-	-	Y	-	Y	-	B.A	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	5 TH	
			Member	M	-	-	Y	-	-	Y	-	-	Y	-	Y	5 TH	
			Member	F	Y	-	-	-	Y	-	-	-	Y	-	-	8 TH	
			Member	M	-	-	Y	-	-	Y	-	-	-	-	-	8 TH	
			Member	M	-	-	Y	-	Y	-	-	-	Y	-	-	8 TH	

Table 4.5: Village wise details of Self Help Groups (SHGs) in the project area IWMP- XXIII

Project- IWMP XXIII I

District – Mahoba

Sr. No .	Name of MWS	Names of villages	Total no. of Constituted/register ed SHGs				No. of members			No. of SC/ST in each category			No. of BPL in each category			Date of formation of SHGs	
			Wi th on ly M en	Wit h only Wo men	Wi th bo th	To tal	Categori es	M	F	To tal	M	F	To tal	M	F	To ta l	
1	Gorahari 2C2A3p1 e	Gaurhari, Guda	1	-	1	2	(i) Landless	4	2	6	-	-	-	4	2	6	These SHGs were formed during the month of February to April. Bye-laws of the SHGs were prepared and kept in the project file. Process to open the accounts in Gramin bank (service bank) has
							(ii) SF	6	3	9	-	-	-	6	3	9	
							(iii) MF	3	2	5	-	-	-	3	2	5	
							(iv) LF	-	-	-	-	-	-	-	-	-	
							Total	1			-	-	-	1			
2	Gorkha 2C2A3p1 f	Gaurhari, Guda, Lidhaura Soyam, Gorkha, Dhanawan	-	-	1	1	(i) Landless	2	1	3	-	-	-	2	1	3	These SHGs were formed during the month of February to April. Bye-laws of the SHGs were prepared and kept in the project file. Process to open the accounts in Gramin bank (service bank) has
							(ii) SF	3	1	4	-	-	-	3	1	4	
							(iii) MF	2	0	2	-	-	-	2	0	2	
							(iv) LF	-	-	-	-	-	-	-	-	-	
							Total	7	2	9	-	-	-	7	2	9	
3	Luhari 2C2A3p1 g	Lidhaura Soyam, Guda	1	-	-	1	(i) Landless	2	0	2	-	-	-	2	0	2	These SHGs were formed during the month of February to April. Bye-laws of the SHGs were prepared and kept in the project file. Process to open the accounts in Gramin bank (service bank) has
							(ii) SF	3	0	3	-	-	-	3	0	3	
							(iii) MF	1	0	1	-	-	-	1	0	1	
							(iv) LF	-	-	-	-	-	-	-	-	-	
							Total	6	0	6	-	-	-	6	0	6	
4	Andhoura	Guda, Ragaul,	-	-	-	-	(i)	1	1	2	-	-	-	1	1	2	

	2C2A3p1 h	Pratistha, Andhaura					Landless									been initiated	
							(ii) SF	1	0	1	-	-	-	1	0	1	
							(iii) MF	0	0	0	-	-	-	0	0	0	
							(iv) LF	-	-	-	-	-	-	-	-	-	
								2	1	3	-	-	-	2	1	3	
5	Vijaypur 2C2A3w 2a	Gorkha, Lidhaura Soyam, Luhari , Bejalpur	-	-	-	-	(i) Landless	2	0	2	-	-	-	2	0	2	
							(ii) SF	1	0	1	-	-	-	1	0	1	
							(iii) MF	0	0	0	-	-	-	0	0	0	
							(iv) LF	-	-	-	-	-	-	-	-	-	
							Total	3	0	3	-	-	-	3	0	3	
6	Budi 2C2A3w 2b	Luhari, Gorkha, Panara, Budhi	1	-	1	2	(i) Landless	4	1	5	-	-	-	4	1	5	
							(ii) SF	5	3	8	-	-	-	5	3	8	
							(iii) MF	3	1	4	-	-	-	3	1	4	
							(iv) LF	-	-	-	-	-	-	-	-	-	
							Total	1	2	5	17	-	-	1	2	5	17
7	Bagola 2C2A3w 2d	Gorkha, Bagaul, Rampura Kadeem , Chedimau	1	-	-	1	(i) Landless	2	1	3	-	-	-	2	1	3	
							(ii) SF	4	1	5	-	-	-	4	1	5	
							(iii) MF	2	1	3	-	-	-	2	1	3	
							(iv) LF	-	-	-	-	-	-	-	-	-	
							Total	8	3	11	-	-	-	8	3	11	
8	Gugora 2C2A3q2 b	Bhatwera Kala, Nauka, Khera Nankari	1	-	-	1	(i) Landless	2	0	2	-	-	-	2	0	2	
							(ii) SF	3	1	4	-	-	-	3	1	4	
							(iii) MF	1	1	2	-	-	-	1	1	2	
							(iv) LF	-	-	-	-	-	-	-	-	-	
							Total	6	2	8	-	-	-	6	2	8	

9	Andwara 2C2A3q2 f	Dhanawan, Andwara, Gaurhari , Bhatewara Kala	1	-	1	2	(i) Landless	3	1	4	-	-	-	3	1	4	
							(ii) SF	3	2	5	-	-	-	3	2	5	
							(iii) MF	2	1	3	-	-	-	2	1	3	
							(iv) LF	-	-	-	-	-	-	-	-	-	
							Total	8	4	12	-	-	-	8	4	12	
			1	-	1	2	(i) Landless	4	2	6	-	-	-	4	2	6	
10	Devgan Pura 2C2A3s1a	Alipura, Remalpua, Chatesar, Hebatpur Brahmin, Panwari					(ii) SF	7	2	9	-	-	-	7	2	9	
							(iii) MF	4	1	5	-	-	-	4	1	5	
							(iv) LF	-	-	-	-	-	-	-	-	-	
							Total	1			-	-	-	1			
								5	5	20	-	-	-	5	5	20	
			1	-	1	2	(i) Landless	4	2	6	-	-	-	4	2	6	
11	Panwari 2C2A3s1b	Panwari, Nepura, Saragpura, Hebatpur, Brahman, Govindpur, Chanchari					(ii) SF	8	2	9	-	-	-	8	2	9	
							(iii) MF	3	2	5	-	-	-	3	2	5	
							(iv) LF	-	-	-	-	-	-	-	-	-	
							Total	1	5	6	21	-	-	1	5	6	21
			1	-	1	2	(i) Landless	4	1	5	-	-	-	4	1	5	
							(ii) SF	4	3	7	-	-	-	4	3	7	
12	Bahdur pur kala 2C2A3s1e	Hebatpur Brahmin, Chatesar, Koniya, Bijrari, Bahadurpur Kala, Saragpura, Nepura					(iii) MF	3	1	4	-	-	-	3	1	4	
							(iv) LF	-	-	-	-	-	-	-	-	-	
							Total	1	1	4	15	-	-	1	1	4	15
			1	-	-	1	(i) Landless	3	1	4	-	-	-	3	1	4	
							(ii) SF	4	2	6	-	-	-	4	2	6	
							(iii) MF	2	1	3	-	-	-	2	1	3	
13	Didwara 2C2A3s2a	Koniya, Bijrari, Chandanhas, Pahadiya Byarjaun, Parapantar, Didwara					(iv) LF	-	-	-	-	-	-	-	-	-	
								9	4	13	-	-	-	9	4	13	

14	Tolapatar 2C2A3s2b	Parpantar, Didwara Rivai, Tola Pantar	1	-	-	1	(i) Landless	3	0	3	-	-	-	3	0	3	
							(ii) SF	4	1	5	-	-	-	4	1	5	
							(iii) MF	2	1	3	-	-	-	2	1	3	
							(iv) LF	-	-	-	-	-	-	-	-	-	
							Total	9	1	10	-	-	-	9	1	10	
15	Riwai 2C2A3s2e	Rivai, Tolapantar, Bhoora , Toondar	1	-	-	1	(i) Landless	3	1	4	-	-	-	3	1	4	
							(ii) SF	4	2	6	-	-	-	4	2	6	
							(iii) MF	2	1	3	-	-	-	2	1	3	
							(iv) LF	-	-	-	-	-	-	-	-	-	
							Total	9	4	13	-	-	-	9	4	13	
16	Parapatar 2C2A3s2d	Parapantar, Byarjo, Didwara, Pahariya	1	-	-	1	(i) Landless	2	1	3	-	-	-	2	1	3	
							(ii) SF	3	2	5	-	-	-	3	2	5	
							(iii) MF	2	1	3	-	-	-	2	1	3	
							(iv) LF	-	-	-	-	-	-	-	-	-	
							Total	7	4	11	-	-	-	7	4	11	
17	Dulara 2C2A3f1a	Tingara, Parapantar, Rivai, Dulara, Bhujpura, Gadaura	1	-	-	1	(i) Landless	1	1	2	-	-	-	1	1	2	
							(ii) SF	3	0	3	-	-	-	3	0	3	
							(iii) MF	1	1	2	-	-	-	1	1	2	
							(iv) LF	-	-	-	-	-	-	-	-	-	
							Total	5	2	7	-	-	-	5	2	7	
18	Amanpura 2C2A3f1b	Gadaura, Bhujpura, Amanpura Bhadevra, Pachara	1	-	-	1	(i) Landless	2	1	3	-	-	-	2	1	3	
							(ii) SF	3	2	5	-	-	-	3	2	5	
							(iii) MF	2	1	3	-	-	-	2	1	3	
							(iv) LF	-	-	-	-	-	-	-	-	-	
							Total	7	4	11	-	-	-	7	4	11	
19	Ghutai 2C2A3e1e	Devgaon, Rurikeela, Ghutai	1	-	-	1	(i) Landless	2	0	2	-	-	-	2	0	2	
							(ii) SF	3	1	4	-	-	-	3	1	4	
							(iii) MF	2	0	2	-	-	-	2	0	2	

			(iv) LF															
20	Peepri 2C2A3e2e	Peepri, Kanaura, Imaliya				Total			7	1	8	-	-	-	-	7	1	8
			1	-	-	(i) Landless	2	1	3	-	-	-	2	1	3			
						(ii) SF	3	2	5	-	-	-	3	2	5			
						(iii) MF	2	1	3	-	-	-	2	1	3			
						(iv) LF	-	-	-	-	-	-	-	-	-			
						Total	7	3	10	-	-	-	7	3	10			
21	Rurikala 2C2A3e2f	Rurikalan, Dulara, Kanaura, Imaliya	1	-	-	(i) Landless	2	0	2	-	-	-	2	0	2			
						(ii) SF	3	1	4	-	-	-	3	1	4			
						(iii) MF	2	0	2	-	-	-	2	0	2			
						(iv) LF	-	-	-	-	-	-	-	-	-			
						Total	7	1	8	-	-	-	7	1	8			
			18	-	7	25	1 7 3	6 3 3	23 6 6	-	-	-	1 7 3	6 3 3	236			

(M – Male, F – Female)

There are 20 villages in the project area and village-wise Self Help Groups (SHGs) constituted is given in Table 4.5. A total 25 SHGs were already constituted in the project villages, of them, 18, 0 and 7 are men SHGs, women SHGs and mixed SHGs, respectively. Total 236 SHGs have to be constituted to ensure the livelihood of marginalized population in the project. Formation of remaining 211 SHGs is in progress. Livelihood Action Plan is given in Annexure-I.

4.2: Details of Formation of User Groups (UGs)

User Groups were formed on the basis of beneficiaries of different natural resource conservation activities to be constructed in the watershed. The location of the activities/group mentioned in Table 4.6 can be seen on the proposed plan available in the map section.

Table 4.6: Details of User Groups in the project area

2C2A3w2b Village-Panra										
S. No .	Name of Work	Benefited area (ha)	Field No. / Khasara No.	Name of Farmers	Activity Proposed	Locatio n of the activity	Water storag e in cum	Area Propose d for irrigatio n (ha)	user Charge s (per ha)	
	WHB 1	31.879	265, 267, 249 to 270, 512, 523, 524, 527	Chandranarayan Singh	Crop production	265	-	-	-	
Village-Gorkha										
	CD2	5.073	665, 664	Munna	Crop production	665	-	-	-	
	CD3	6.298	768	Tuliya	Crop production	768	-	-	-	
	CD4	8.276	788, 789	Pahalvan	Crop production	788	-	-	-	
	CD5	3.58	887, 886	Mahipal	Crop production	887	-	-	-	
	CD6	6.911	1637/1	Ganpati	Crop production	1637	-	-	-	
	CD7	4.815	1209	Smt.Parvti	Crop production	1209	-	-	-	
	CD8	7.142	1623	Shivaram	Crop production	1623	-	-	-	

	CD9	14.988		1320	Lakshmiprasad	Crop production	1320	-	-	-
	CD10	5.182		1082	Baiju	Crop production	1082	-	-	-

**2C2A3p1g
Village-Guda**

	CD1	7.124	1139, 380, 482, 738,	Brajgopal etc.	Crop production	1139	-	-	-	-
	CD2	15.285	90, 625, 522, 483, 539,	Shatrughan etc.	Crop production	90	-	-	-	-
	CD3	12.87	179, 13, 662, 869	Karan Singh etc.	Crop production	179	-	-	-	-
	CD4	9.372	719, 267, 1144, 389,	Chandrashekhar etc.	Crop production	719	-	-	-	-
	CD5	6.989	28, 88, 1003, 470, 599, 325	Amarchandra etc.	Crop production	28	-	-	-	-
	CD6	11.52	999, 144, 409, 778, 346, 1076	Kalichandra etc.	Crop production	999	-	-	-	-
	CD7	13.21	900, 992, 506, 801, 740, 300,	Ratiram	Crop production	900	-	-	-	-
	CD8	14.23	1059, 1118, 116, 233,	Dev Singh	Crop production	1059	-	-	-	-

**2C2A3w2a
Village-Luhari**

	CD1	11.126		154	Mohanlal, lakshmiram	Crop production	154	-	-	-
	CD2	17.639		328	Mathura	Crop production	328	-	-	-
	WHB 1	24.693	308, 310, 331			Crop production	308	-	-	-

2C2A3p2f Village-Goarhari									
	CD1	12.293	431, 432, 433, 1783 to 1791	Ayodhya Prasad	Crop production	431	-	-	-
	CD2	8.393	484 TO 496	Ratan	Crop production	484	-	-	-
	CD3	12.403	651 to 660, 1674 to 1678	Madanpal, Brajendra Singh	Crop production	651	-	-	-
	CD4	13.466	16.28 to 1635, 1640 to 1646	Shyam, Vidya Devi, Kishorilal	Crop production	1628	-	-	-
2C2A3q2f Village-Bhatevra Kala									
	CD7	3.96	1243		Crop production	1243	-	-	-
	CD8	3.96	1314	Bhagvandas	Crop production	1314	-	-	-
	CD9	3.96	1535	Pritam, Surendra	Crop production	1535	-	-	-
	CD10	3.96	1497	Nanda	Crop production	1497	-	-	-
	CD11	3.96	1576	Khyaliram	Crop production	1576	-	-	-
	CD12	2.96	1583	Mutiya	Crop production	1583	-	-	-
	CD13	3.96	1468, 1467	Shambhu	Crop production	1468	-	-	-
	CD14	3.96	1472, 1476	Shambhu	Crop production	1472	-	-	-
	WHB 2	19.97	1300	Sajjan Singh	Crop production	1300	-	-	-
Village-Dhanavan									

	CD1	4.94	121	Shambhu		121			
	CD2	4.94	86	Sitaram	Crop production	86	-	-	-
	CD3	3.96	65	Alibaksh	Crop production	65	-	-	-
	CD4	4.94	76, 80	Babulal, Kandhi	Crop production	76	-	-	-
	CD5	3.96	74	Indar, Jayhind	Crop production	74	-	-	-
	CD6	18.13	173	Jagat	Crop production	173	-	-	-
	CD15	20.64	288, 289	Sundar, Ghanshyam	Crop production	288	-	-	-
	CD16	26.12	33, 379.	Narendra	Crop production	33	-	-	-
	WHB 1	21.16	242, 243	Shankar, Devendra	Crop production	242	-	-	-
	WHB 3	21.87	203, 6	Kusumrani, Devi Singh	Crop production	203	-	-	-
	WHB 4	24.87	360, 362	Raghunath	Crop production	360	-	-	-

Village-Andvara

	CD17	4.94	186	Gyaprasad	Crop production	186	-	-	-
	WHB 5	18.53	252	Brajbhushan	Crop production	252	-	-	-

Village-Gourhari

	CD18	5.04	357	Yashodanandan	Crop production		-	-	-
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**2C2A3q2b
Village-Kheda Nankari**

	CD2	13.15	175	Bhukaiya Pal	Crop production	175	-	-	-
	CD3	7.3	199, 203	Smt.Lila Devi, Tara Devi etc.	Crop production	199	-	-	-
	CD4	6.1	230, 231	Basantlal, Rameshchandra etc.	Crop production	230	-	-	-

Village-Bhatevra Kala

	CD1	7.3	627, 619	Nandram, Suraj etc.	Crop production	627	-	-	-
	CD5	4.38	677	Jagannath	Crop production	677	-	-	-
	CD6	28.7	522	Balram	Crop production	522	-	-	-
	CD7	22.39	672	Jagannath etc.	Crop production	672	-	-	-
	CD8	10.22	774, 775	Lakshmi Prasad etc.	Crop production	774	-	-	-
	CD9	5.85	652	Jagannath etc.	Crop production	652	-	-	-
	WHB 1	35.64	581, 582	Shivapati, Devideen etc.	Crop production	581	-	-	-

**2C2A3w2d
Village-Gorkha**

	CD1	23.94	761	Laldiman	Crop production	761	-	-	-
	CD2	9.32	761, 763	Laldiman, Krapal	Crop production	761	-	-	-
	CD3	7.76	1406	Ganpat	Crop production	1406	-	-	-
	CD4	7.76	1413	Duliya, Banti	Crop production	1413	-	-	-

	CD5	9.32	1983	Krapal Singh	Crop production	1983	-	-	-
	WHB 1	20.72	1725	Kishorilal etc.	Crop production	1725	-	-	-
	WHB 2	20.44	1397, 1398	Rajaram	Crop production	1397, 1398	-	-	-
	WHB 3	21.9	1994	Ramcharan	Crop production	1994	-	-	-
Village-Chhedi Mau									
	WHB 4	31.94	350, 356	Ramnarayan, Ramshvarup etc.	Crop production	356	-	-	-
Village-Rampura Kadim									
	CD6	10.87	9,10,12	Abhaypratap, Dev Singh etc.	Crop production	9	-	-	-
	CD7	9.32	87	Dhaniram, Bhagirath	Crop production	87	-	-	-
	CD8	7.79	105	Rupnarayan	Crop production	105	-	-	-
2C2A3p1e Village-Gourhari									
	WHB 1	74.904	954, 947	Bhola, Duliachandra, Ashish, Dipak etc.	Crop production	954	-	-	-
	WHB 2	69.537	1207/1, 1207/2, 1208/1, 1208/2,	Ramkaran, Sumitra, Dharmvati etc.	Crop production	1207	-	-	-
	CD1	53.894	1187, 1183 to 1189, 1251 to	Rajbahadur etc.	Crop production	1187	-	-	-
	CD2	18.585	1351, 1352	Parshuram, Shankarlal etc.	Crop production	1351	-	-	-
	CD3	10.588	1386, 1387	Babulal, Bhagirath etc.	Crop production	1386	-	-	-
	CD4	35.519	1370	Ravindra Singh	Crop	1370	-	-	-

					production					
	CD5	19.018	1519, 1518	Prabhudayal, Lakan Singh	Crop production	1519	-	-	-	-
Village-Guda										
	CD6	55.068	418, 1009	Dev Singh, Shivanandan	Crop production	418	-	-	-	-
	CD7	26.906	160, 57	Jayprakash, Omprakash	Crop production	160	-	-	-	-
	CD8	15.723	1145, 500	Jagdish, Pratap	Crop production	1145	-	-	-	-
	CD9	44.069	942, 65, 557, 621, 818	Ramdas, Rambabu	Crop production	942	-	-	-	-
2C2A3p1h										
Village-Guda										
	CD1	5.17	362	Channu, Ramgopal	Crop production	362	-	-	-	-
	CD2	18.465	1127	Shripat	Crop production	1127	-	-	-	-

4.3 Convergence in IWMP-XXIII, Mahoba

There is no planning for convergence.

CHAPTER - 5

MANAGEMENT/ACTION PLAN

The details of Preparatory Phase, Works Phase and Convergence planning are described in subsequent section

5.1 Entry Point Activities (EPA)

Entry point activities were executed with the consent of stake holders and it helped in winning the confidence of the villagers for moving ahead the other programmes of watershed. In total 24 EPA activities were executed in the project area which costed Rs. 26.11 lakh.

Name of PIA	Name of Project	Year	Name of Block	Name & Code of project/ Name of village	E.P.A cost in lakh	Name of Work	Cost in lakh
Soil Conservation Division-Kulpahar, Mahoba	IWMP-XXIII	2011-12	Kulpahar	Gorahari 2C2A3p1e	2.11	Puliya Cons. Naali, Kharanja, Road Repairment Talab Ghat Well Repairment	2.11
				Gorkha 2C2A3p1f	1.01		1.01
				Luhari 2C2A3p1g	0.67		0.67
				Andhoura 2C2A3p1h	0.34		0.34
				Vijaypur 2C2A3w2a	0.38		0.38
				Budi 2C2A3w2b	1.87		1.87
				Bagola 2C2A3w2d	1.19		1.19
				Gugora 2C2A3q2b	0.90		0.90
				Andwara 2C2A3q2f	1.45		1.45
				Devgan Pura 2C2A3s1a	2.21		2.21
				Panwari 2C2A3s1b	2.35		2.35
				Bahdur pur kala 2C2A3s1e	1.63		1.63
				Didwara 2C2A3s2a	1.49		1.49
				Tolapatar 2C2A3s2b	1.07		1.07
				Riwai 2C2A3s2e	1.44		1.44
				Parapatar 2C2A3s2d	1.20		1.20
				Dulara 2C2A3f1a	0.74		0.74
				Amanpura 2C2A3f1b	1.20		1.20
				Ghutai 2C2A3e1e	0.90		0.90

				Peepri 2C2A3e2e	1.11		1.11
				Rurikala 2C2A3e2f	0.85		0.85
	Total				26.11		26.11

5.2 Works Phase

Following are the major problems of the watersheds

- Water scarcity both for drinking as well as irrigation
- Excess runoff and soil loss
- Low water holding capacity of the soil
- Low productivity of crops
- Low fertility of soil
- Low cropping intensity
- Lack of technical knowledge
- *Anna Pratha* (let loose system of cattle)
- Poor vegetative cover
- Poor/low productive breeds of miltch animals
- Lack of feed & fodder availability
- Non availability of wood/fuel
- Lack of proper market facilities
- Low income of the households
- Lack of employment opportunity.

Estimation of Runoff from the Watershed

Runoff from the watershed is estimated by Curve Number method of the Soil Conservation Service of the USDA using 15 years data (1996-2010). It is estimated that runoff potential of the project area is 355 mm, equivalent to 35-40 per cent of average annual rainfall. Expected runoff and soil loss from the project area are depicted Table 5.1.

Table 5.1: Runoff and soil erosion in the project area (IWMP-XXIII, Mahoba)

Sr. No.	Name of Micro Watershed	Cause	Type of erosion*	Area affected (ha)*	Run off (mm/ year)*	Average Soil Loss (Tonnes/ ha/ year)*
1	Gorahari 2C2A3p1e	Water erosion				
		a	Sheet	220.30	355	10-15
		b	Rill	154.21		
		c	Gully	66.09		
		Total		440.60		
2	Gorkha 2C2A3p1f	Water erosion				
		a	Sheet	105.00	355	10-15
		b	Rill	73.50		
		c	Gully	31.50		
		Total		210.00		
3	Luhari 2C2A3p1g	Water erosion				
		a	Sheet	70.00	355	10-15
		b	Rill	49.00		
		c	Gully	21.00		
		Total		140.00		
4	Andhaura 2C2A3p1h	Water erosion				
		a	Sheet	35.00	355	10-15
		b	Rill	24.50		
		c	Gully	10.50		
		Total		70.00		
5	Vijaypur 2C2A3w2a	Water erosion				
		a	Sheet	40.00	355	10-15
		b	Rill	28.00		

		c	Gully	12.00		
		Total		80.00		
6	Budi 2C2A3w2b		Water erosion			
		a	Sheet	195.00	355	10-15
		b	Rill	136.50		
		c	Gully	58.50		
		Total		390.00		
7	Bagola 2C2A3w2d		Water erosion			
		a	Sheet	123.50	355	10-15
		b	Rill	86.45		
		c	Gully	37.05		
		Total		247.00		
8	Gugora 2C2A3q2b		Water erosion			
		a	Sheet	94.05	355	10-15
		b	Rill	65.84		
		c	Gully	28.22		
		Total		188.10		
9	Andwara 2C2A3q2f		Water erosion			
		a	Sheet	151.50	355	10-15
		b	Rill	106.05		
		c	Gully	45.45		
		Total		303.00		
10	Devgan Pura 2C2A3s1a		Water erosion			
		a	Sheet	468.05	355	8-12
		b	Rill	327.63		
		c	Gully	140.41		

		Total		936.09		
11	Panwari 2C2A3s1b	Water erosion				
		a	Sheet	455.19	355	8-12
		b	Rill	318.63		
		c	Gully	136.56		
		Total		910.38		
12	Bahdur pur kala 2C2A3s1e	Water erosion				
		a	Sheet	521.48	355	8-12
		b	Rill	365.03		
		c	Gully	156.44		
		Total		1042.95		
13	Didwara 2C2A3s2a	Water erosion				
		a	Sheet	463.38	355	8-12
		b	Rill	324.37		
		c	Gully	139.01		
		Total		926.76		
14	Tolapatar 2C2A3s2b	Water erosion				
		a	Sheet	417.70	355	8-12
		b	Rill	292.39		
		c	Gully	125.31		
		Total		835.40		
15	Riwai 2C2A3s2e	Water erosion				
		a	Sheet	383.16	355	8-12
		b	Rill	268.21		
		c	Gully	114.95		
		Total		766.32		

16	Parapatar 2C2A3s2d	Water erosion				
		a	Sheet	303.04	355	8-12
		b	Rill	212.12		
		c	Gully	90.91		
		Total		606.07		
17	Dulara 2C2A3f1a	Water erosion				
		a	Sheet	289.16	200-240	8-12
		b	Rill	202.41		
		c	Gully	86.75		
		Total		578.32		
18	Amanpura 2C2A3f1b	Water erosion				
		a	Sheet	285.43	355	8-12
		b	Rill	199.80		
		c	Gully	85.63		
		Total		570.85		
19	Ghutai 2C2A3e1e	Water erosion				
		a	Sheet	295.82	355	8-12
		b	Rill	207.07		
		c	Gully	88.74		
		Total		591.63		
20	Peepri 2C2A3e2e	Water erosion				
		a	Sheet	329.17	355	8-12
		b	Rill	230.42		
		c	Gully	98.75		
		Total		658.33		
21	Rurikala 2C2A3e2f	Water erosion				

		a	Sheet	201.99	355	8-12
		b	Rill	141.39		
		c	Gully	60.60		
		Total		403.97		
	Grand Total		8827.07			

Watershed Development Activities Proposed

The details of the activities of watershed works (natural resource conservation) are marked on individual field in the micro-watershed wise proposed plan (Map Section). Individual beneficiary wise estimate has been prepared for each village comes under each micro-watershed. Information of individual beneficiaries is kept in respective project file available with PIA. Beneficiary wise information was summarised and prepared for each micro-watershed and gram panchayat wise (Table 5.2 and 5.4). Similar exercise was also done for participatory crop trials. Location of these trials is marked on proposed plan of participatory crop demonstration (available in map section).

Table 5.2: Micro-watershed wise details of Watershed Development Activities proposed in IWMP-XXIII, Mahoba

Sr . N o.	Particular of Measures/Activities	Unit	Gorahari 2C2A3p1e		Gorkha 2C2A3p1f		Luhari 2C2A3p1g		Andhaura 2C2A3p1h		Vijaypur 2C2A3w2a		
			No., Length/ ha, Volume	Qanty .	Cost (Rs. In lakh)	Qant y.	Cost (Rs. In lakh)	Qant y.	Qanty .	Qant y.	Cost (Rs. In lakh)	Qanty.	Cost (Rs. In lakh)
I	Soil & Water Conservation Measures												
	A- Moisture Conservation Measures												
	1. Peripheral Bund (with Sodding)	cum.	1500	0.62	0	0.00			1581	0.65	0	0.00	
	2. Marginal Bund (with Sodding)	cum.			0	0.00					0	0.00	
	3.Submergence Bundhi (with Sodding)	cum.	1237	0.51	23357	9.63	8052	3.32	5965	2.46	6966	2.87	

	<u>System</u>										
	(1)SMC Area:										
	A- Crop Demonstrations- (Crop Wise)										
	1. Lentil	No. of farmers /Area (ha)	5/2.0	0.24	3/1.2	0.14	2/0.8	0.09	2/0.8	0.09	2/0.8
	2. Chickpea	No. of farmers /Area (ha)	5/2.0	0.27	3/1.2	0.16	2/0.8	0.11	1/0.4	0.05	2/0.8
	3. Field Pea)	No. of farmers /Area (ha)	5/2.0	0.29	3/1.2	0.17	2/0.8	0.11	1/0.4	0.06	2/0.8
	4. Til	No. of farmers /Area (ha)	5/2.0	0.08	3/1.2	0.05	2/0.8	0.03	1/0.4	0.02	1/0.4
	5. Urd	No. of farmers /Area (ha)	5/2.0	0.18	3/1.2	0.11	2/0.8	0.07	1/0.4	0.04	1/0.4
	6. Moong	No. of farmers /Area (ha)	5/2.0	0.18	3/1.2	0.11	2/0.8	0.07	1/0.4	0.04	1/0.4
	7. Arhar	No. of farmers /Area (ha)	5/2.0	0.15	3/1.2	0.09	2/0.8	0.06	1/0.4	0.03	1/0.4
	8. Wheat	No. of farmers /Area (ha)	5/2.0	0.29	3/1.2	0.17	2/0.8	0.12	1/0.4	0.06	1/0.4
	(2) Water Resource Area:										
	B- Production of seeds										
	1. Lentil	No. of farmers /Area (ha)	5/2.0	0.24	3/1.2	0.14	2/0.8	0.09	1/0.4	0.05	1/0.4
	2. Chickpea	No. of farmers /Area (ha)	5/2.0	0.27	2/0.8	0.11	2/0.8	0.11	1/0.4	0.05	1/0.4
	3. Field Pea	No. of farmers /Area (ha)	5/2.0	0.29	2/0.8	0.11	2/0.8	0.11	1/0.4	0.06	1/0.4
	4. Til	No. of farmers /Area (ha)	4/1.6	0.07	2/0.8	0.03	1/0.4	0.02	1/0.4	0.02	1/0.4

	5. Urd	No. of farmers /Area (ha)	4/1.6	0.14	2/0.8	0.07	1/0.4	0.04	1/0.4	0.04	1/0.4	0.04
	6. Moong	No. of farmers /Area (ha)	4/1.6	0.15	2/0.8	0.07	1/0.4	0.04	1/0.4	0.04	1/0.4	0.04
	7. Arhar	No. of farmers /Area (ha)	4/1.6	0.12	2/0.8	0.06	1/0.4	0.03	1/0.4	0.03	1/0.4	0.03
	8. Wheat	No. of farmers /Area (ha)	4/1.6	0.23	2/0.8	0.12	1/0.4	0.06	1/0.4	0.06	1/0.4	0.06
	<u>Agro forestry:-</u>											
	1- Aonla	Area in ha	3	0.54	1	0.18	1	0.18	0	0.00	0	0.00
	2. Guava	Area in ha	3	0.54	1	0.18	1	0.18	0	0.00	0	0.00
	<u>Live Stock Management</u>											
	A. fodder production	No. of Units	42	0.25	28	0.17	22	0.13	17	0.10	18	0.11
	B. Vaccination/Medication	No. of Animals	58	0.03	30	0.02	25	0.01	20	0.01	21	0.01
	C. Artificial Insemination	No. of Animals	58	0.02	30	0.01	25	0.01	20	0.01	21	0.01
	D. Natural Service.	He Buffalo	3	0.72	1	0.24	0	0.00	0	0.00	0	0.00
	Total for Ag. Production System			5.29		2.52		1.68		0.84		0.96
	Grand Total			39.65		18.90		12.60		6.30		7.20

Micro Watershed wise details of Watershed Development Activities proposed in Watershed

Cont.....

		SHGs								
	2. Back Yard Poultry	do	20/2	0.50	20/2	0.50	10/1	0.25	20/2	0.50
	3. Poultry (Broiler)	do	20/2	0.50	10/1	0.25	10/1	0.25	20/2	0.50
	4. Black Smithy	do	20/2	0.50	10/1	0.25	10/1	0.25	10/1	0.25
	5. Rope Making (Linseed)	do	10/1	0.25	10/1	0.25	0	0.00	10/1	0.25
	6. Tailoring	do	10/1	0.25	10/1	0.25	10/1	0.25	10/1	0.25
	7. Vermi composting	do	20/2	0.50	10/1	0.25	10/1	0.25	20/2	0.50
	8. Fruit Processing	do	20/2	0.50	10/1	0.25	10/1	0.25	10/1	0.25
	9. Seed Bank	do	20/2	0.46	10/1	0.17	10/1	0.28	10/1	0.27
	Sub Total		170/17	4.21	110/11	2.67	80/8	2.03	130/13	3.27
III	<u>Agriculture Production System</u>									
	(1)SMC Area:									
	A- Crop Demonstrations- (Crop Wise)									
	1. Lentil	No. of farmers /Area (ha)	5/2.0	0.24	3/1.2	0.14	2/0.8	0.09	4/1.6	0.19
	2. Chickpea	No. of farmers /Area (ha)	5/2.0	0.27	3/1.2	0.16	2/0.8	0.11	4/1.6	0.22
	3. Field Pea)	No. of farmers /Area (ha)	5/2.0	0.29	3/1.2	0.17	2/0.8	0.11	4/1.6	0.23
	4. Til	No. of farmers /Area (ha)	5/2.0	0.08	3/1.2	0.05	2/0.8	0.03	4/1.6	0.07
	5. Urd	No. of farmers /Area (ha)	4/1.6	0.14	3/1.2	0.11	2/0.8	0.07	4/1.6	0.14
	6. Moong	No. of farmers /Area (ha)	4/1.6	0.15	3/1.2	0.11	2/0.8	0.07	4/1.6	0.15
	7. Arhar	No. of farmers /Area (ha)	4/1.6	0.12	3/1.2	0.09	2/0.8	0.06	4/1.6	0.12
	8. Wheat	No. of farmers /Area (ha)	4/1.6	0.23	3/1.2	0.17	2/0.8	0.12	4/1.6	0.23
	(2) Water Resource Area:									
	B- Production of seeds									
	1. Lentil	No. of farmers /Area (ha)	4/1.6	0.19	3/1.2	0.14	2/0.8	0.09	3/1.2	0.14

	2. Chickpea	No. of farmers /Area (ha)	4/1.6	0.22	3/1.2	0.16	2/0.8	0.11	3/1.2	0.16
	3. Field Pea	No. of farmers /Area (ha)	4/1.6	0.23	2/0.8	0.11	2/0.8	0.11	3/1.2	0.17
	4. Til	No. of farmers /Area (ha)	4/1.6	0.07	2/0.8	0.03	2/0.8	0.03	3/1.2	0.05
	5. Urd	No. of farmers /Area (ha)	4/1.6	0.14	2/0.8	0.07	2/0.8	0.07	2/0.8	0.07
	6. Moong	No. of farmers /Area (ha)	4/1.6	0.15	2/0.8	0.07	2/0.8	0.07	2/0.8	0.07
	7. Arhar	No. of farmers /Area (ha)	4/1.6	0.12	2/0.8	0.06	2/0.8	0.06	2/0.8	0.06
	8. Wheat	No. of farmers /Area (ha)	4/1.6	0.23	2/0.8	0.12	1/0.4	0.06	2/0.8	0.12
	<u>Agro forestry:-</u>									
	1- Aonla	Area in ha	3	0.54	2	0.36	2	0.36	2	0.36
	2. Guava	Area in ha	3	0.54	2	0.36	1	0.18	2	0.36
	<u>Live Stock Management</u>									
	A. fodder production	No. of Units	35	0.21	30	0.18	27	0.16	34	0.20
	B. Vaccination/Medication	No. of Animals	50	0.03	42	0.03	30	0.02	43	0.026
	C. Artificial Insemination	No. of Animals	50	0.02	42	0.02	30	0.01	43	0.02
	D. Natural Service.	He Buffalo	2	0.48	1	0.24	1	0.24	2	0.48
	Total for Ag. Production System			4.68		2.96		2.26		3.64
	Grand Total			35.1		22.2		16.9		27.2
				0		3		3		7

Micro-watershed wise details of Watershed Development Activities proposed in IWMP-XXIII, Mahoba

Cont.....

Sr . N o.	Particular of Measures/Activities	Unit	Devgan Pura 2C2A3s1a		Panwari 2C2A3s1b		Bahdur pur kala 2C2A3s1e		Didwara 2C2A3s2a		Tolapatar 2C2A3s2b	
			No., Length/ ha, Volume	Qanty .	Cost (Rs. In lakh)	Qant y.	Cost (Rs. In lakh)	Qant y.	Qanty .	Qant y.	Cost (Rs. In lakh)	Qanty.
I	Soil & Water Conservation Measures											
	A- Moisture Conservation Measures											
	1. Peripheral Bund (with Sodding)	cum.	9739	4.01	9938	4.10	-	-	6871	2.83	11089	4.57
	2. Marginal Bund (with Sodding)	cum.	-	-	-	-	6020	7.59	12775 .5	5.26	9119	3.76
	3. Submergence Bundhi (with Sodding)	cum.	11716	3.78	6248	2.58	-	-	-	-	-	-
	B- Water Resource Development											
	1. Check Dam / Drop Spill Way	cum	19492. 5	10.64	8625	6.32	170	2.47	11250	8.40	7843.2	4.71
	1a- Water storing capacity	cum.	4250	-	1000	-	500	-	750	-	1000	-
	1b. Area proposed for irrigation	ha	7.1	-	1.7	-	0.8	-	1.3	-	1.7	-
	2. Water Harvesting Bund with surplushing structure	cum.	16688. 75	12.46	28800	19.84	7890	12.80	5564. 52	4.35	1656	1.95
	2a-Water storing capacity	cum.	1500	-	1650	-	2000	-	700	-	560	-
	2b. Area proposed for irrigation by WHB	ha	2.5	-	2.8	-	3.3	-	1.2	-	0.9	-

	Sub Total			30.89		32.84		22.86		20.85		14.99
II	<u>Livelihood for landless People</u>											
	1. Goatary	No. of beneficiaries/ No. of SHGs	3	0.75	3	0.75	2	0.50	2	0.50	1	0.25
	2. Back Yard Poultry	-do-	3	0.75	3	0.75	2	0.50	2	0.50	1	0.25
	3. Poultry (Broiler)	-do-	2	0.50	3	0.75	2	0.50	2	0.50	1	0.25
	4. Black Smithy	-do-	2	0.50	2	0.50	1	0.25	1	0.25	1	0.25
	5. Rope Making (Linseed)	-do-	2	0.50	2	0.50	1	0.25	1	0.25	1	0.25
	6. Tailoring	-do-	2	0.50	2	0.50	1	0.25	1	0.25	1	0.25
	7. Vermi composting	-do-	2	0.50	2	0.50	2	0.50	1	0.25	1	0.25
	8. Fruit Processing	-do-	2	0.50	2	0.50	2	0.50	1	0.25	1	0.25
	9. Seed Bank	-do-	2	0.46	2	0.53	2	0.42	3	0.60	1	0.41
	Sub Total		20	4.96	21	5.28	15	3.67	14	3.35	9	2.41
III	<u>Agriculture Production System</u>											
	(1)SMC Area:											
	A- Crop Demonstrations- (Crop Wise)											
	1. Lentil	No. of farmers /Area (ha)	6/2.4	0.28	6/2.4	0.28	5/2.0	0.24	5/2.0	0.24	3/1.2	0.14
	2. Chickpea	-do-	6/2.4	0.33	6/2.4	0.33	5/2.0	0.27	5/2.0	0.27	3/1.2	0.16
	3. Field Pea	-do-	6/2.4	0.34	6/2.4	0.34	5/2.0	0.29	4/1.6	0.23	3/1.2	0.17
	4. Til	-do-	6/2.4	0.10	6/2.4	0.10	5/2.0	0.08	4/1.6	0.07	3/1.2	0.05
	5. Urd	-do-	6/2.4	0.21	6/2.4	0.21	5/2.0	0.18	4/1.6	0.14	3/1.2	0.11
	6. Moong	-do-	6/2.4	0.22	6/2.4	0.22	5/2.0	0.18	4/1.6	0.15	3/1.2	0.11
	7. Arhar	-do-	6/2.4	0.18	6/2.4	0.18	4/1.6	0.12	4/1.6	0.12	3/1.2	0.09
	8. Wheat	-do-	6/2.4	0.35	6/2.4	0.35	4/1.6	0.23	4/1.6	0.23	3/1.2	0.17

	(2) Water Resource Area:											
	B- Production of seeds											
1.	Lentil	No. of farmers /Area (ha)	5/2.0	0.24	6/2.4	0.28	4/1.6	0.19	4/1.6	0.19	3/1.2	0.14
2.	Chickpea	-do-	5/2.0	0.27	5/2.0	0.27	4/1.6	0.22	4/1.6	0.22	3/1.2	0.16
3.	Field Pea	-do-	5/2.0	0.29	5/2.0	0.29	4/1.6	0.23	4/1.6	0.23	3/1.2	0.17
4.	Til	-do-	5/2.0	0.08	5/2.0	0.08	4/1.6	0.07	4/1.6	0.07	3/1.2	0.05
5.	Urd	-do-	5/2.0	0.18	5/2.0	0.18	4/1.6	0.14	4/1.6	0.14	3/1.2	0.11
6.	Moong	-do-	5/2.0	0.18	5/2.0	0.18	4/1.6	0.15	4/1.6	0.15	3/1.2	0.11
7.	Arhar	-do-	5/2.0	0.15	5/2.0	0.15	4/1.6	0.12	4/1.6	0.12	2/0.8	0.06
8.	Wheat	-do-	5/2.0	0.29	5/2.0	0.29	4/1.6	0.23	4/1.6	0.23	2/0.8	0.12
	<u>Agro forestry:-</u>											
1-	Aonla	Area in ha	3	0.54	3	0.54	2	0.36	2	0.36	1	0.18
2.	Guava	Area in ha	2	0.36	2	0.36	2	0.36	1	0.18	1	0.18
	<u>Live Stock Management</u>											
	A. fodder production	No. of Units	64	0.38	72	0.43	27	0.16	22	0.13	21	0.13
	B. Vaccination/Medication	No. of Animals	65	0.04	74	0.05	27	0.02	25	0.02	25	0.02
	C. Artificial Insemination	No. of Animals	65	0.03	74	0.03	27	0.01	25	0.01	24	0.01
	D. Natural Service.	He Buffalo	2	0.48	3	0.72	1	0.24	1	0.24	1	0.24
	Total for Ag. Production System			5.52		5.86		4.08		3.72		2.68
	Total			41.37		43.98		30.62		27.92		20.07

Micro-watershed wise details of Watershed Development Activities proposed in IWMP-XXIII, Mahoba

Cont.....

Sr. No .	Particular of Measures/Activities	Unit	Riwai 2C2A3s2e		Parapatar 2C2A3s2d		Dulara 2C2A3f1a		Amanpura 2C2A3f1b	
			No., Length/ ha, Volume	Qanty .	Cost (Rs. In lakh)	Qanty .	Cost (Rs. In lakh)	Qanty .	Qanty .	Qanty .
I	Soil & Water Conservation Measures									
	A- Moisture Conservation Measures									
	1. Peripheral Bund (with Sodding)	cum.	4500	1.85	-	-	4372	1.80	600	0.25
	2. Marginal Bund (with Sodding)	cum.	19156	7.89	7098	2.93	-	-	-	-
	3. Submergence Bundhi (with Sodding)	cum.	-	-	-	-	7622	3.14	-	-
	B- Water Resource Development									
	1. Check Dam / Drop Spill Way	cum	13700	10.41	-	-	1365	0.69	27214	16.55
	1a- Water storing capacity	cum.	-	-	-	-	300	-	2000	-
	1b. Area proposed for irrigation	ha	-	-	-	-	0.5	-	3.3	-
	2. Water Harvesting Bund with surplushing structure	cum.	-	-	29948	13.87	3981	4.67	-	-
	2a-Water storing capacity	cum.	-	-	3500	-	1200	-	-	-
	2b. Area proposed for irrigation by WHB	ha	-	-	5.8	-	2.0	-	-	-
	Sub Total			20.16		16.80		10.30		16.80
II	Livelihood for landless People									
	1. Goatary	No. of beneficiaries/ No. of SHGs	2	0.50	2	0.50	1	0.25	2	0.50
	2. Back Yard Poultry	-do-	2	0.50	2	0.50	1	0.25	2	0.50

	3. Poultry (Broiler)	-do-	2	0.50	1	0.25	1	0.25	1	0.25
	4. Black Smithy	-do-	1	0.25	1	0.25	0	0.00	1	0.25
	5. Rope Making (Linseed)	-do-	1	0.25	1	0.25	0	0.00	1	0.25
	6. Tailoring	-do-	1	0.25	1	0.25	0	0.00	1	0.25
	7. Vermi composting	-do-	1	0.25	1	0.25	1	0.25	1	0.25
	8. Fruit Processing	-do-	2	0.50	1	0.25	1	0.25	1	0.25
	9. Seed Bank	-do-	1	0.24	1	0.20	1	0.41	1	0.20
	Sub Total		13	3.24	11	2.70	6	1.66	11	2.70
III	<u>Agriculture Production System</u>									
	(1)SMC Area:									
	A- Crop Demonstrations- (Crop Wise)									
	1. Lentil	No. of farmers /Area (ha)	4/1.6	0.19	4/1.6	0.19	3/1.2	0.14	4/1.6	0.19
	2. Chickpea	-do-	4/1.6	0.22	4/1.6	0.22	2/0.8	0.11	4/1.6	0.22
	3. Field Pea	-do-	4/1.6	0.23	4/1.6	0.23	2/0.8	0.11	4/1.6	0.23
	4. Til	-do-	4/1.6	0.07	4/1.6	0.07	2/0.8	0.03	4/1.6	0.07
	5. Urd	-do-	4/1.6	0.14	4/1.6	0.14	2/0.8	0.07	4/1.6	0.14
	6. Moong	-do-	4/1.6	0.15	3/1.2	0.11	2/0.8	0.07	3/1.2	0.11
	7. Arhar	-do-	4/1.6	0.12	3/1.2	0.09	2/0.8	0.06	3/1.2	0.09
	8. Wheat	-do-	4/1.6	0.23	3/1.2	0.17	2/0.8	0.12	3/1.2	0.17
	(2) Water Resource Area:									
	B- Production of seeds									
	1. Lentil	No. of farmers /Area (ha)	4/1.6	0.19	3/1.2	0.14	2/0.8	0.09	3/1.2	0.14
	2. Chickpea	-do-	4/1.6	0.22	3/1.2	0.16	2/0.8	0.11	3/1.2	0.16
	3. Field Pea	-do-	4/1.6	0.23	3/1.2	0.17	2/0.8	0.11	3/1.2	0.17
	4. Til	-do-	4/1.6	0.07	3/1.2	0.05	2/0.8	0.03	3/1.2	0.05
	5. Urd	-do-	4/1.6	0.14	3/1.2	0.11	2/0.8	0.07	3/1.2	0.11

6. Moong	-do-	4/1.6	0.15	3/1.2	0.11	2/0.8	0.07	3/1.2	0.11
7. Arhar	-do-	4/1.6	0.12	3/1.2	0.09	2/0.8	0.06	3/1.2	0.09
8. Wheat	-do-	4/1.6	0.23	3/1.2	0.17	2/0.8	0.12	3/1.2	0.17
Agro forestry:-									
1- Aonla	Area in ha	2	0.36	1	0.18	1	0.18	1	0.18
2. Guava	Area in ha	1	0.18	1	0.18	1	0.18	1	0.18
Live Stock Management									
A. fodder production	No. of Units	20	0.12	25	0.15	13	0.08	25	0.15
B. Vaccination/Medication	No. of Animals	20	0.01	25	0.02	15	0.01	25	0.02
C. Artificial Insemination	No. of Animals	20	0.01	24	0.01	15	0.01	24	0.01
D. Natural Service.	He Buffalo	1	0.24	1	0.24	0	0.00	1	0.24
Total for Ag. Production System			3.60		3.00		1.84		3.0
Total			27.00		22.50		13.80		22.50

Micro-watershed wise details of Watershed Development Activities proposed in IWMP-XXIII, Mahoba

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Sr. No.	Particular of Measures/Activities	Unit		Ghutai 2C2A3e1e		Peepri 2C2A3e2e		Rurikala 2C2A3e2f		IWMP- XXIII	
		No., Length/ ha, Volume	Qanty.	Cost (Rs. In lakh)	Qanty.	Cost (Rs. In lakh)	Qanty.	Cost (Rs. In lakh)	Qanty.	Cost (Rs. In lakh)	Qanty.
I	Soil & Water Conservation Measures										
	A- Moisture Conservation Measures										
	1. Peripheral Bund (with Sodding)	cum.	-	-	1800	0.74	567	0.23	88819	36.61	
	2. Marginal Bund (with Sodding)	cum.	-	-	5967	2.46	3210	1.32	65145	31.95	
	3. Submergence Bundhi (with Sodding)	cum.	-	-	-	-	-	-	96819	39.09	
	B- Water Resource Development										
	1. Check Dam / Drop Spill Way	cum	20338	12.67	21183.5	12.34	17073.5	10.36	229404	155.06	

	1a- Water storing capacity	cum.	1700	-	1750	-	1500	-	35480	
	1b. Area proposed for irrigation	ha	2.8	-	2.9	-	2.5	-	59	
	2. Water Harvesting Bund with surplushing structure	cum.	-	-	-	-	-	-	120316	102.89
	2a-Water storing capacity	cum.	-	-	-	-	-	-	16310	
	2b. Area proposed for irrigation by WHB	ha	-	-	-	-	-	-	28	
	Sub Total			12.67		15.54		11.91		365.62
II	<u>Livelihood for landless People</u>									
	1. Goatary	No. of beneficiaries/ No. of SHGs	1	0.25	2	0.50	1	0.25	37/370	9.25
	2. Back Yard Poultry	-do-	1	0.25	1	0.25	1	0.25	34/340	8.5
	3. Poultry (Broiler)	-do-	1	0.25	1	0.25	1	0.25	29/290	7.25
	4. Black Smithy	-do-	1	0.25	1	0.25	1	0.25	31/210	5.25
	5. Rope Making (Linseed)	-do-	1	0.25	1	0.25	0	0.00	18/180	4.5
	6. Tailoring	-do-	0	0.00	1	0.25	1	0.25	19/190	4.75
	7. Vermi composting	-do-	1	0.25	1	0.25	1	0.25	25/250	6.25
	8. Fruit Processing	-do-	1	0.25	1	0.25	1	0.25	25/250	6.25
	9. Seed Bank	-do-	1	0.29	1	0.25	1	0.16	28/280	6.76
	Sub Total		8	2.04	10	2.50	8	1.91	236/2360	58.76
III	<u>Agriculture Production System</u>									
	(1)SMC Area:									
	A- Crop Demonstrations- (Crop Wise)									
	1. Lentil	No. of farmers /Area (ha)	3/1.2	0.14	3/1.2	0.14	3/1.2	0.14	77/30.8	3.65
	2. Chickpea	-do-	3/1.2	0.16	3/1.2	0.16	3/1.2	0.16	75/30	4.08
	3. Field Pea	-do-	3/1.2	0.17	3/1.2	0.17	3/1.2	0.17	74/29.6	4.25
	4. Til	-do-	3/1.2	0.05	3/1.2	0.05	3/1.2	0.05	73/29.2	1.24

5. Urd	-do-	3/1.2	0.11	3/1.2	0.11	3/1.2	0.11	72/28.8	2.56	
6. Moong	-do-	3/1.2	0.11	3/1.2	0.11	3/1.2	0.11	70/28	2.55	
7. Arhar	-do-	3/1.2	0.09	3/1.2	0.09	3/1.2	0.09	69/27.6	2.04	
8. Wheat	-do-	3/1.2	0.17	3/1.2	0.17	2	0.12	68/27.2	3.94	
(2) Water Resource Area:			1.01		1.01		0.95			
B- Production of seeds										
1. Lentil	No. of farmers /Area (ha)	3/1.2	0.14	3/1.2	0.14	3/1.2	0.14	67/26.8	3.18	
2. Chickpea	-do-	2/0.8	0.16	3/1.2	0.16	2/0.8	0.11	64/25.6	3.48	
3. Field Pea	-do-	2/0.8	0.11	3/1.2	0.17	2/0.8	0.11	62/24.8	3.56	
4. Til	-do-	2/0.8	0.03	3/1.2	0.05	2/0.8	0.03	60/24	1.02	
5. Urd	-do-	2/0.8	0.07	3/1.2	0.11	2/0.8	0.07	59/23.6	2.09	
6. Moong	-do-	2/0.8	0.07	3/1.2	0.11	2/0.8	0.07	59/23.6	2.15	
7. Arhar	-do-	2/0.8	0.06	3/1.2	0.09	2/0.8	0.06	5823.2	1.71	
8. Wheat	-do-	2/0.8	0.12	3/1.2	0.17	2/0.8	0.12	57/22.8	3.29	
Agro forestry:-										
1- Aonla	Area in ha	1	0.18	1	0.18	1	0.18	33	5.94	
2. Guava	Area in ha	1	0.18	1	0.18	1	0.18	28	5.04	
Live Stock Management										
A. fodder production	No. of Units	18	0.11	23	0.14	15	0.09	598	3.59	
B. Vaccination/Medication	No. of Animals	18	0.01	23	0.02	13	0.01	674	0.4	
C. Artificial Insemination	No. of Animals	18	0.01	23	0.01	13	0.01	671	0.27	
D. Natural Service.	He Buffalo	0	0.00	1	0.24	0	0.00	22	5.28	
Total for Ag. Production System				2.26		2.78		2.13		65.29
Total				16.97		20.82		15.96		489.68

Table 5.3: Grampanchayat wise break up of Watershed Development Activities in the Micro Watershed of IWMP-XXIII, Mahoba

	<u>People</u>											
	1. Goatary	No. of beneficiaries / No. of SHGs	30/3	0.75	40/4	1.00	10/1	0.25	30/3	0.75	30/3	0.50
	2. Back Yard Poultry	do	20/2	0.50	40/4	1.00	0	0.00	30/3	0.75	40/4	0.75
	3. Poultry (Broiler)	do	10/1	0.25	30/3	0.75	10/1	0.25	30/3	0.75	30/3	0.75
	4. Black Smithy	do	10/1	0.25	20/2	0.50	10/1	0.25	30/3	0.75	0	0.00
	5. Rope Making (Linseed)	do	10/1	0.25	20/2	0.50	0	0.00	20/2	0.50	10/1	0.25
	6. Tailoring	do	10/1	0.25	20/2	0.50	10/1	0.25	20/2	0.50	10/1	0.25
	7. Vermi composting	do	20/2	0.50	20/2	0.50	10/1	0.25	30/3	0.75	20/2	0.50
	8. Fruit Processing	do	20/2	0.50	20/2	0.50	20/2	0.50	20/2	0.50	10/1	0.25
	9. Seed Bank	do	20/2	0.55	10/1	0.24	10/1	0.30	20/2	0.46	20/2	0.48
	Sub Total		150/15	3.80	220/22	5.49	80/8	2.05	230/23	5.71	170/17	3.73
III	<u>Agriculture Production System</u>											
	(1)SMC Area:											
	A- Crop Demonstrations- (Crop Wise)											
	1. Lentil	No. of farmers /Area (ha)	4/1.6	0.19	6/2.4	0.28	2/0.8	0.09	6/2.4	0.28	7/2.8	0.33
	2. Chickpea	No. of farmers /Area (ha)	4/1.6	0.22	6/2.4	0.33	2/0.8	0.11	6/2.4	0.33	6/2.4	0.33
	3. Field Pea)	No. of farmers /Area (ha)	4/1.6	0.23	6/2.4	0.34	2/0.8	0.11	6/2.4	0.34	6/2.4	0.34
	4. Til	No. of farmers /Area (ha)	4/1.6	0.07	6/2.4	0.10	2/0.8	0.03	6/2.4	0.10	5/2.0	0.08

	5. Urd	No. of farmers /Area (ha)	4/1.6	0.14	6/2.4	0.21	2/0.8	0.07	6/2.4	0.21	4/1.6	0.14
	6. Moong	No. of farmers /Area (ha)	4/1.6	0.15	6/2.4	0.22	2/0.8	0.07	6/2.4	0.22	4/1.6	0.15
	7. Arhar	No. of farmers /Area (ha)	4/1.6	0.12	6/2.4	0.18	2/0.8	0.06	6/2.4	0.18	4/1.6	0.12
	8. Wheat	No. of farmers /Area (ha)	4/1.6	0.23	6/2.4	0.35	2/0.8	0.12	6/2.4	0.35	4/1.6	0.23
	(2) Water Resource Area:											
	B- Production of seeds											
	1. Lentil	No. of farmers /Area (ha)	4/1.6	0.19	6/2.4	0.28	2/0.8	0.09	6/2.4	0.28	4/1.6	0.19
	2. Chickpea	No. of farmers /Area (ha)	4/1.6	0.22	6/2.4	0.33	2/0.8	0.11	4/1.6	0.22	5/2.0	0.27
	3. Field Pea	No. of farmers /Area (ha)	4/1.6	0.23	6/2.4	0.34	2/0.8	0.11	3/1.2	0.17	5/2.0	0.29
	4. Til	No. of farmers /Area (ha)	4/1.6	0.07	6/2.4	0.10	2/0.8	0.03	2/0.8	0.03	4/1.6	0.07
	5. Urd	No. of farmers /Area (ha)	4/1.6	0.14	6/2.4	0.21	2/0.8	0.07	1/0.4	0.04	4/1.6	0.14
	6. Moong	No. of farmers /Area (ha)	4/1.6	0.15	6/2.4	0.22	2/0.8	0.07	2/0.8	0.07	4/1.6	0.15
	7. Arhar	No. of farmers /Area (ha)	4/1.6	0.12	6/2.4	0.18	2/0.8	0.06	2/0.8	0.06	4/1.6	0.12
	8. Wheat	No. of farmers /Area (ha)	4/1.6	0.23	6/2.4	0.35	2/0.8	0.12	1/0.4	0.06	4/1.6	0.23
	<u>Agro forestry:-</u>											
	1- Aonla	Area in ha	3	0.54	3	0.54	2	0.36	4	0.72	2	0.36
	2. Guava	Area in ha	2	0.36	3	0.54	1	0.18	6	1.08	1	0.18

	<u>Live Stock Management</u>											
	A. fodder production	No. of Units	22	0.13	40	0.24	23	0.14	121	0.73	27	0.16
	B. Vaccination/Medication	No. of Animals	22	0.02	40	0.02	23	0.01	153	0.09	27	0.02
	C. Artificial Insemination	No. of Animals	22	0.01	40	0.02	23	0.01	163	0.07	27	0.01
	D. Natural Service.	He Buffalo	2	0.48	3	0.72	1	0.24	3	0.72	1	0.24
	Total for Ag. Production System			4.22		6.11		2.28		6.34		4.15
	Grand Total			31.66		11.60		17.11		47.57		31.10

Grampanchayat wise break up of Watershed Development Activities in the Micro Watershed of IWMP-XXIII, Mahoba

Cont....

Sr. No.	Particular of Measures/Activities	Unit		Vijaypur		Gugoura		Andwara	
		No., Length/ ha, Volume		Qanty.	Cost (Rs. In lakh)	Qanty.	Cost (Rs. In lakh)	Qanty.	Cost (Rs. In lakh)
I	Soil & Water Conservation Measures								
	A- Moisture Conservation Measures								
	1. Peripheral Bund (with Sodding)	cum.		662	0.49	548	0.40	323	0.24
	2. Marginal Bund (with Sodding)	cum.		30	0.02	25	0.02	15	0.01
	3.Submergence Bundhi (with Sodding)	cum.		1199	0.89	992	0.74	584	0.43
	B- Water Resource Development								
	1. Check Dam / Drop Spill Way	cum.		1366	1.79	1130	1.48	666	0.87
	1a- Water storing capacity	cum.		305	0.00	252	0.00	149	0.00
	1b. Area proposed for irrigation	ha		1	0.00	0.4	0.00	0.2	0.00
	2. Water Harvesting Bund with surplushing structure	cum.		434	0.99	359	0.82	212	0.48

	2a-Water storing capacity	cum.	88	0.00	72	0.00	43	0.00
	2b. Area proposed for irrigation by WHB	ha	0.1	0.00	0.1	0.00	0.1	0.00
	Sub Total			4.18		3.46		2.04
II	<u>Livelihood for landless People</u>							
	1. Goatary	No. of beneficiaries / No. of SHGs	0	0.00	10/1	0.25	0	0.00
	2. Back Yard Poultry	do	0	0.00	0	0.00	0	0.00
	3. Poultry (Broiler)	do	0	0.00	0	0.00	0	0.00
	4. Black Smithy	do	10/1	0.25	0	0.00	0	0.00
	5. Rope Making (Linseed)	do	0	0.00	0	0.00	0	0.00
	6. Tailoring	do	0	0.00	0	0.00	0	0.00
	7. Vermi composting	do	0	0.00	0	0.00	0	0.00
	8. Fruit Processing	do	0	0.00	0	0.00	0	0.00
	9. Seed Bank	do	10/1	0.42	10/1	0.31	10/1	0.33
	Sub Total		20/2	0.67	20/2	0.56	10/1	0.33
III	<u>Agriculture Production System</u>							
	(1)SMC Area:							
	A- Crop Demonstrations- (Crop Wise)							
	1. Lentil	No. of farmers /Area (ha)	1/0.4	0.05	1/0.4	0.05	1/0.4	0.05
	2. Chickpea	No. of farmers /Area (ha)	1/0.4	0.05	1/0.4	0.05	1/0.4	0.05
	3. Field Pea)	No. of farmers /Area (ha)	1/0.4	0.06	1/0.4	0.06	1/0.4	0.06
	4. Til	No. of farmers /Area (ha)	1/0.4	0.02	1/0.4	0.02	1/0.4	0.02
	5. Urd	No. of farmers /Area (ha)	1/0.4	0.04	1/0.4	0.04	1/0.4	0.04
	6. Moong	No. of farmers /Area (ha)	1/0.4	0.04	1/0.4	0.04	1/0.4	0.04

7. Arhar	No. of farmers /Area (ha)	1/0.4	0.03	1/0.4	0.03	1/0.4	0.03
8. Wheat	No. of farmers /Area (ha)	1/0.4	0.06	1/0.4	0.06	1/0.4	0.06
(2) Water Resource Area:							
B- Production of seeds							
1. Lentil	No. of farmers /Area (ha)	1/0.4	0.05	1/0.4	0.05	0	0.00
2. Chickpea	No. of farmers /Area (ha)	1/0.4	0.05	1/0.4	0.05	0	0.00
3. Field Pea	No. of farmers /Area (ha)	1/0.4	0.06	1/0.4	0.06	0	0.00
4. Til	No. of farmers /Area (ha)	1/0.4	0.02	1/0.4	0.02	0	0.00
5. Urd	No. of farmers /Area (ha)	1/0.4	0.04	1/0.4	0.04	0	0.00
6. Moong	No. of farmers /Area (ha)	1/0.4	0.04	0	0.00	0	0.00
7. Arhar	No. of farmers /Area (ha)	1/0.4	0.03	0	0.00	0	0.00
8. Wheat	No. of farmers /Area (ha)	1/0.4	0.06	0	0.00	0	0.00
<u>Agro forestry:-</u>							
1- Aonla	Area in ha	0	0.00	0	0.00	0	0.00
2. Guava	Area in ha	0	0.00	0	0.00	0	0.00
<u>Live Stock Management</u>							
A. fodder production	No. of Units	9	0.05	8	0.05	3	0.02
B. Vaccination/Medication	No. of Animals	22	0.01	22	0.01	10	0.01
C. Artificial Insemination	No. of Animals	22	0.01	22	0.01	0	0.00
D. Natural Service.	He Buffalo	0	0.00	0	0.00	0	0.00
Total for Ag. Production System			0.75		0.62		0.36
Grand Total			5.60		4.63		2.73

Grampanchayat wise break up of Watershed Development Activities in the Micro Watershed of IWMP-XXIII, Mahoba

Cont.....

Sr. No.	Particular of Measures/Activities	Unit No., Length/ ha, Volume	Panwari		Devgaonpurwa		Ghutbai		Peepri	
			Qanty.	Cost (Rs. In lakh)	Qanty.	Cost (Rs. In lakh)	Qanty.	Cost (Rs. In lakh)	Qanty.	Cost (Rs. In lakh)
I	Soil & Water Conservation Measures									
	A- Moisture Conservation Measures									
	1. Peripheral Bund (with Sodding)	cum.	9938	4.10	8739	3.01	7739	1.00	1800	0.74
	2. Marginal Bund (with Sodding)	cum.	-	-	-	-	-	-	3399	1.30
	3. Submergence Bundhi (with Sodding)	cum.	6248	2.58	9216	3.18	-	-	-	-
	B- Water Resource Development									
	1. Check Dam / Drop Spill Way	cum	8625	6.32	16093	8.44	20338	12.67	17495	9.40
	1a- Water storing capacity	cum.	1000	-	3500	-	1700	-	1200	0.00
	1b. Area proposed for irrigation	ha	2	-	6	-	3	-	2	0.00
	2. Water Harvesting Bund with surplushing structure	cum.	25200	17.98	13689	-	-	-	-	-
	2a-Water storing capacity	cum.	1400	-	1300	-	-	-	-	-
	2b. Area proposed for irrigation by WHB	ha	2	-	2	-	-	-	-	-
	Sub Total			30.98		24.86		13.67		11.44
II	Livelihood for landless People									
	1. Goatary	No. of beneficiaries/ No. of SHGs	3	0.75	3	0.75	1	0.25	1	0.25
	2. Back Yard Poultry	-do-	3	0.75	2	0.50	1	0.25	1	0.25
	3. Poultry (Broiler)	-do-	2	0.50	2	0.50	1	0.25	1	0.25
	4. Black Smithy	-do-	3	0.75	1	0.25	1	0.25	1	0.25

	5. Rope Making (Linseed)	-do-	1	0.25	2	0.50	1	0.25	1	0.25
	6. Tailoring	-do-	3	0.75	1	0.25	1	0.25	0	0.00
	7. Vermi composting	-do-	2	0.50	2	0.50	1	0.25	0	0.00
	8. Fruit Processing	-do-	2	0.50	2	0.50	1	0.25	1	0.25
	9. Seed Bank	-do-	1	0.48	1	0.50	1	0.42	1	0.60
	Sub Total		20	5.23	16	4.25	9	2.42	7	2.10
III	<u>Agriculture Production System</u>									
	(1)SMC Area:									
	A- Crop Demonstrations- (Crop Wise)									
	1. Lentil	No. of farmers /Area (ha)	6/2.4	0.28	5/2.0	0.24	3/1.2	0.14	2/0.8	0.09
	2. Chickpea	-do-	6/2.4	0.33	5/2.0	0.27	3/1.2	0.16	2/0.8	0.11
	3. Field Pea	-do-	6/2.4	0.34	5/2.0	0.29	3/1.2	0.17	2/0.8	0.11
	4. Til	-do-	6/2.4	0.10	5/2.0	0.08	3/1.2	0.05	2/0.8	0.03
	5. Urd	-do-	6/2.4	0.21	5/2.0	0.18	3/1.2	0.11	2/0.8	0.07
	6. Moong	-do-	6/2.4	0.22	5/2.0	0.18	3/1.2	0.11	2/0.8	0.07
	7. Arhar	-do-	6/2.4	0.18	5/2.0	0.15	3/1.2	0.09	2/0.8	0.06
	8. Wheat	-do-	6/2.4	0.35	5/2.0	0.29	3/1.2	0.17	2/0.8	0.12
	(2) Water Resource Area:									
	B- Production of seeds									
	1. Lentil	No. of farmers /Area (ha)	5/2.0	0.24	6/2.4	0.28	2/0.8	0.09	2/0.8	0.09
	2. Chickpea	-do-	5/2.0	0.27	5/2.0	0.27	1/0.4	0.05	2/0.8	0.11
	3. Field Pea	-do-	6/2.4	0.34	4/1.6	0.23	1/0.4	0.06	2/0.8	0.11
	4. Til	-do-	8/3.2	0.14	1/0.4	0.02	0	0.00	2/0.8	0.03
	5. Urd	-do-	8/3.2	0.28	1/0.4	0.04	0	0.00	2/0.8	0.07

	6. Moong	-do-	8/3.2	0.29	2/0.8	0.07	0	0.00	0	0.00
	7. Arhar	-do-	7/2.8	0.21	3/1.2	0.09	1/0.4	0.03	0	0.00
	8. Wheat	-do-	7/2.8	0.40	2/0.8	0.12	1/0.4	0.06	0	0.00
	<u>Agro forestry:-</u>									
1- Aonla	Area in ha	2	0.36	3	0.54	2	0.36	2	0.36	
2. Guava	Area in ha	1	0.18	2	0.36	2	0.36	1	0.18	
	<u>Live Stock Management</u>									
A. fodder production	No. of Units	55	0.28	2	0.01	25	0.15	22	0.13	
B. Vaccination/Medication	No. of Animals	35	0.02	10	0.01	27	0.02	25	0.02	
C. Artificial Insemination	No. of Animals	65	0.03	19	0.01	27	0.01	28	0.01	
D. Natural Service.	He Buffalo	2	0.48	3	0.72	1	0.24	1	0.24	
Total for Ag. Production System				5.53		4.44		2.44		2.04
Total				41.74		33.55		18.53		15.58

Grampanchayat wise break up of Watershed Development Activities in the Micro Watershed of IWMP-XXIII, Mahoba

Cont.....

	1. Check Dam / Drop Spill Way	cum	17074	13.36	27214	16.55	3197	4.16	4290	2.96
	1a- Water storing capacity	cum.	1500	-	2000	-	1000	0.00	615	0.00
	1b. Area proposed for irrigation	ha	3	-	3	-	2	0.00	1	0.00
	2. Water Harvesting Bund with surplushing structure	cum.	-	-	-	-	-	-	10962	7.69
	2a-Water storing capacity	cum.	-	-	-	-	-	-	1479	0.00
	2b. Area proposed for irrigation by WHB	ha	-	-	-	-	-	-	2	0.00
	Sub Total			15.02		16.80		7.30		18.24
II	<u>Livelihood for landless People</u>									
	1. Goatary	No. of beneficiaries/ No. of SHGs	2	0.50	2	0.50	1	0.25	2	0.50
	2. Back Yard Poultry	-do-	1	0.25	2	0.50	1	0.25	2	0.50
	3. Poultry (Broiler)	-do-	1	0.25	2	0.50	0	0.00	2	0.50
	4. Black Smithy	-do-	1	0.25	0	0.00	0	0.00	1	0.25
	5. Rope Making (Linseed)	-do-	1	0.25	1	0.25	1	0.25	1	0.25
	6. Tailoring	-do-	1	0.25	0	0.00	0	0.00	1	0.25
	7. Vermi composting	-do-	1	0.25	1	0.25	0	0.00	1	0.25
	8. Fruit Processing	-do-	1	0.25	2	0.50	1	0.25	1	0.25
	9. Seed Bank	-do-	1	0.41	1	0.24	1	0.20	1	0.41
	Sub Total		10	2.66	11	2.74	5	1.20	12	3.16
III	<u>Agriculture Production System</u>									
	(1)SMC Area:									
	A- Crop Demonstrations- (Crop Wise)									
	1. Lentil	No. of farmers /Area (ha)	3/1.2	0.14	4/1.6	0.19	0	0.00	4/1.6	0.19
	2. Chickpea	-do-	3/1.2	0.16	3/1.2	0.16	0	0.00	4/1.6	0.22

	3. Field Pea	-do-	3/1.2	0.17	4/1.6	0.23	0	0.00	4/1.6	0.23
	4. Til	-do-	3/1.2	0.05	4/1.6	0.07	1/0.4	0.02	4/1.6	0.07
	5. Urd	-do-	3/1.2	0.11	4/1.6	0.14	1/0.4	0.04	4/1.6	0.14
	6. Moong	-do-	3/1.2	0.11	2/0.8	0.07	1/0.4	0.04	4/1.6	0.15
	7. Arhar	-do-	3/1.2	0.09	2/0.8	0.06	1/0.4	0.03	4/1.6	0.12
	8. Wheat	-do-	3/1.2	0.17	2/0.8	0.12	1/0.4	0.06	5/2.0	0.29
	(2) Water Resource Area:									
	B- Production of seeds									
	1. Lentil	No. of farmers /Area (ha)	3/1.2	0.14	2/0.8	0.09	1/0.4	0.05	4/1.6	0.19
	2. Chickpea	-do-	3/1.2	0.16	2/0.8	0.11	1/0.4	0.05	4/1.6	0.22
	3. Field Pea	-do-	3/1.2	0.17	2/0.8	0.11	1/0.4	0.06	4/1.6	0.23
	4. Til	-do-	3/1.2	0.05	4/1.6	0.07	1/0.4	0.02	4/1.6	0.07
	5. Urd	-do-	3/1.2	0.11	4/1.6	0.14	1/0.4	0.04	4/1.6	0.14
	6. Moong	-do-	3/1.2	0.11	4/1.6	0.15	1/0.4	0.04	4/1.6	0.15
	7. Arhar	-do-	2/0.8	0.06	4/1.6	0.12	1/0.4	0.03	4/1.6	0.12
	8. Wheat	-do-	2/0.8	0.12	4/1.6	0.23	1/0.4	0.06	5/2.0	0.29
	<u>Agro forestry:-</u>									
	1- Aonla	Area in ha	1	0.18	2	0.36	1	0.18	1	0.18
	2. Guava	Area in ha	1	0.18	1	0.18	1	0.18	1	0.18
	<u>Live Stock Management</u>									
	A. fodder production	No. of Units	21	0.13	23	0.14	27	0.16	14	0.08
	B. Vaccination/Medication	No. of Animals	25	0.02	23	0.01	25	0.02	14	0.01
	C. Artificial Insemination	No. of Animals	24	0.01	20	0.01	24	0.01	0	0.00
	D. Natural Service.	He Buffalo	1	0.24	1	0.24	1	0.24	0	0.00
	Total for Ag. Production System			2.68		3.00		1.30		3.26

Total		20.36		22.54		9.80		24.56
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Grampanchayat wise break up of Watershed Development Activities in the Micro Watershed of IWMP-XXIII, Mahoba

Cont.....

	B- Production of seeds										
	1. Lentil	No. of farmers /Area (ha)	1/0.4	0.05	3/1.2	0.14	1/0.4	0.05	3/1.2	0.14	2/0.8 0.09
	2. Chickpea	-do-	1/0.4	0.05	3/1.2	0.16	1/0.4	0.05	3/1.2	0.16	1/0.4 0.05
	3. Field Pea	-do-	1/0.4	0.06	2/0.8	0.11	1/0.4	0.06	3/1.2	0.17	2/0.8 0.11
	4. Til	-do-	1/0.4	0.02	2/0.8	0.03	1/0.4	0.02	3/1.2	0.05	2/0.8 0.03
	5. Urd	-do-	1/0.4	0.04	2/0.8	0.07	1/0.4	0.04	3/1.2	0.11	2/0.8 0.07
	6. Moong	-do-	2/0.8	0.07	2/0.8	0.07	1/0.4	0.04	3/1.2	0.11	2/0.8 0.07
	7. Arhar	-do-	2/0.8	0.06	1/0.4	0.03	1/0.4	0.03	3/1.2	0.09	2/0.8 0.06
	8. Wheat	-do-	2/0.8	0.12	2/0.8	0.12	1/0.4	0.06	2	0.12	2/0.8 0.12
	<u>Agro forestry:-</u>										
	1- Aonla	Area in ha	1	0.18	1	0.18	0	0.00	1	0.18	0 0.00
	2. Guava	Area in ha	1	0.18	1	0.18	0	0.00	2	0.36	0 0.00
	<u>Live Stock Management</u>										
	A. fodder production	No. of Units	27	0.16	16	0.10	24	0.14	28	0.17	15 0.09
	B. Vaccination/Medication	No. of Animals	20	0.01	18	0.01	25	0.02	30	0.02	25 0.02
	C. Artificial Insemination	No. of Animals	20	0.01	16	0.01	23	0.01	30	0.01	13 0.01
	D. Natural Service.	He Buffalo	1	0.24	0	0.00	1	0.24	0	0.00	0 0.00
	Total for Ag. Production System			1.68		1.55		1.24		2.69	
	Total			12.5 1		11.5 1		9.21		20.2 0	
											12.5 3

Grampanchayat wise break up of Watershed Development Activities in the Micro Watershed of IWMP-XXIII, Mahoba

Cont.....

Sr. No.	Particular of Measures/Activities	Unit	Bhamhouri kurkin		Prapantar		Phandana		Bahadurpurkala		IWMP- XXIII		
			No., Length/ ha, Volume	Qanty .	Cost (Rs. In lakh)	Qanty .	Cost (Rs. In lakh)	Qanty .	Cost (Rs. In lakh)	Qanty.	Cost (Rs. In lakh)	Qanty.	Cost (Rs. In lakh)
I	Soil & Water Conservation Measures												
	A- Moisture Conservation Measures												
	1. Peripheral Bund (with Sodding)	cum.	1292	1.06	2657	2.18	774	0.63	424	0.35	88819	36.61	
	2. Marginal Bund (with Sodding)	cum.	5574	2.92	11461	6.01	3339	1.75	1830	0.96	65145	31.95	
	3. Submergence Bundhi (with Sodding)	cum.	288	0.07	592	0.14	172	0.04	95	0.02	96819	39.09	
	B- Water Resource Development												
	1. Check Dam / Drop Spill Way	cum	2289	1.58	4707	3.24	1371	0.94	752	0.52	229404	155.06	
	1a- Water storing capacity	cum.	328	0.00	675	0.00	197	0.00	108	0.00	35480		
	1b. Area proposed for irrigation	ha	1	0.00	1	0.00	0	0.00	0.2	0.00	59		
	2. Water Harvesting Bund with surplushing structure	cum.	5849	4.10	12027	8.44	3504	2.46	1921	1.35	120316	102.89	
	2a-Water storing capacity	cum.	789	0.00	1622	0.00	473	0.00	259	0.00	16310		
	2b. Area proposed for irrigation by WHB	ha	1	0.00	3	0.00	1	0.00	0.4	0.00	28		

	Sub Total			9.73		20.01		5.83		3.20		365.62
II	<u>Livelihood for landless People</u>											
	1. Goatary	No. of beneficiaries/ No. of SHGs	1	0.25	2	0.50	0	0.00	1	0.25	37/370	9.25
	2. Back Yard Poultry	-do-	1	0.25	2	0.50	1	0.25	0	0.00	34/340	8.5
	3. Poultry (Broiler)	-do-	1	0.25	1	0.25	1	0.25	0	0.00	29/290	7.25
	4. Black Smithy	-do-	0	0.00	1	0.25	0	0.00	0	0.00	31/210	5.25
	5. Rope Making (Linseed)	-do-	0	0.00	1	0.25	0	0.00	0	0.00	18/180	4.5
	6. Tailoring	-do-	0	0.00	2	0.50	0	0.00	0	0.00	19/190	4.75
	7. Vermi composting	-do-	1	0.25	2	0.50	1	0.25	0	0.00	25/250	6.25
	8. Fruit Processing	-do-	1	0.25	1	0.25	0	0.00	0	0.00	25/250	6.25
	9. Seed Bank	-do-	1	0.16	1	0.16	1	0.16	1	0.16	28/280	6.76
	Sub Total		6	1.41	13	3.16	4	0.91	2	0.41	236/2360	58.76
III	<u>Agriculture Production System</u>											
	(1)SMC Area:											
	A- Crop Demonstrations- (Crop Wise)											
	1. Lentil	No. of farmers /Area (ha)	3/1.2	0.14	5/2.0	0.24	2/0.8	0.09	1/0.4	0.05	77/30.8	3.65
	2. Chickpea	-do-	3/1.2	0.16	5/2.0	0.27	2/0.8	0.11	1/0.4	0.05	75/30	4.08
	3. Field Pea	-do-	3/1.2	0.17	5/2.0	0.29	1/0.4	0.06	1/0.4	0.06	74/29.6	4.25
	4. Til	-do-	3/1.2	0.05	5/2.0	0.08	1/0.4	0.02	1/0.4	0.02	73/29.2	1.24
	5. Urd	-do-	3/1.2	0.11	5/2.0	0.18	1/0.4	0.04	1/0.4	0.04	72/28.8	2.56
	6. Moong	-do-	3/1.2	0.11	5/2.0	0.18	1/0.4	0.04	1/0.4	0.04	70/28	2.55
	7. Arhar	-do-	3/1.2	0.09	5/2.0	0.15	1/0.4	0.03	0	0.00	69/27.6	2.04

	8. Wheat	-do-	2/0.8	0.12	5/2.0	0.29	1/0.4	0.06	0	0.00	68/27.2	3.94
	(2) Water Resource Area:											
	B- Production of seeds											
	1. Lentil	No. of farmers /Area (ha)	2/0.8	0.09	5/2.0	0.24	1/0.4	0.05	0	0.00	67/26.8	3.18
	2. Chickpea	-do-	2/0.8	0.11	5/2.0	0.27	1/0.4	0.05	1/0.4	0.05	64/25.6	3.48
	3. Field Pea	-do-	2/0.8	0.11	4/1.6	0.23	1/0.4	0.06	1/0.4	0.06	62/24.8	3.56
	4. Til	-do-	2/0.8	0.03	4/1.6	0.07	1/0.4	0.02	1/0.4	0.02	60/24	1.02
	5. Urd	-do-	2/0.8	0.07	4/1.6	0.14	1/0.4	0.04	1/0.4	0.04	59/23.6	2.09
	6. Moong	-do-	2/0.8	0.07	4/1.6	0.15	1/0.4	0.04	1/0.4	0.04	59/23.6	2.15
	7. Arhar	-do-	2/0.8	0.06	4/1.6	0.12	1/0.4	0.03	1/0.4	0.03	5823.2	1.71
	8. Wheat	-do-	2/0.8	0.12	4/1.6	0.23	1/0.4	0.06	1/0.4	0.06	57/22.8	3.29
	<u>Agro forestry:-</u>											
	1- Aonla	Area in ha	0	0.00	1	0.18	1	0.18	0	0.00	33	5.94
	2. Guava	Area in ha	0	0.00	1	0.18	0	0.00	0	0.00	28	5.04
	<u>Live Stock Management</u>											
	A. fodder production	No. of Units	17	0.10	13	0.08	12	0.07	4	0.02	598	3.59
	B. Vaccination/Medication	No. of Animals	17	0.01	13	0.01	13	0.01	10	0.01	674	0.4
	C. Artificial Insemination	No. of Animals	17	0.01	13	0.01	13	0.01	0	0.00	671	0.27
	D. Natural Service.	He Buffalo	0	0.00	0	0.00	0	0.00	0	0.00	22	5.28
	Total for Ag. Production System			1.74		3.57		1.04		0.57		65.29
	Total			12.88		26.75		7.78		4.18		489.68

DESIGN AND ESTIMATES OF CHECKDAM

Design of surplusing arrangement No. 1 to be constructed along with WHB							
HYDROLOGIC DESIGN							
Area (ha)	25						
slope	0.0021						
K	7.47						
a	0.17						
b	0.75						
n	0.96						
Time of Concentration							
		Le.77	Se-0.385				
L (m)	700	155.14					
S	0.0021		10.655				
		hour	Tc + b		(tc+b) power n		
Tc	32.185	0.5364	1.2864		1.274		
Intensity							
		Tr power a					
Tr	10	1.4791					
I		8.6758					
Discharge							
			Taken				
c	0.5	Coeff					
I	86.758	mm/hr					
A	25	ha					
Q	3.0124			Cumec			

HYDRAULIC DESIGN								
Length of crest weir (m)			2					
Weir height (m)			h					
$Q = 1.71 * L * h^{1.5}$								
$h^{1.5} / L^{1/2}$			0.8808					
				Taken				
h			0.919	0.8	h1			
h + free board			0.9649	0.95				
Height of WHB			2.35					
Height of water drop (H)			1.40		Say	1.4		

STABILITY ANALYSIS								
Let			Top width (m)	t	0.7			
			Bottom width (m)	T	1.5			
Weight of dam per unit length (kg)			W	3388		W square	11478544	
Horizontal water pressure (Kg)			P	980		P square	960400	
Uplift pressure (kg)			U	(T*w*H)/2	1050			
Net downward force (kg)			Wn	W-U	2338	Wn Square	5466244	
Resultant (kg)			R				2535.082642	
			H	1.4				
			Xbar		0.574242			
			Z		0.228951			
Point of Resultant (xbar+Z)					0.803194			
			EA		0.925758			
			P*H/3		457.3333			
			W*EA		3136.467			

					b/6		0.25				
					b/2		0.75				
	e = xbar+Z-b/2				e (OF)		0.053194				
	fmax = Wn/b(1+6*e/b)				fmax		1890.311				
A Safety against sliding											
					(mu*W)/P		1.192857				
B Safety against overturning					(W*EA)/(P*H/3)		2.082255				
C Safety against Tension					e<b/6 or b/6-e should be +ive		0.196806				
D Safety against Crushing					Permiss comp Stress kg/sqm	say	10000				
					PCS-fmax should be +ive		8109.689				
Depth of Foundation											
			Normal scour depth, dn		0.473[Q/f]power1/3						
			Q (cumec)	3.012							
			Q (Cusec)	106.3							
			f is silt factor, take=		1						
			[q/f]		106.302						
			[q/f] power1/3		4.73711						
			dn (ft)		2.24065						
			dn (m)		0.68313						
			Maximum scour depth, dm		1.5*dn	1.02469					
									Technical Specification		
			Foundation depth, D		1.33 dm	1.36284		1.50			
Minimum length of headwall extension (m)				E=3h+0.6 or 1.5F whichever is greater							
				F is net drop from top of transverse sill to crest							
				St= height of transverse sill= h/3				0.316667	0.30		
			F (m)	1.1							

			E (m)	3.45	or	1.65	say	3.00		
Length of Basin Lb										
			Lb (m)= F(2.28*h/F+0.52)		2.738		say	2.70		
Height of the sidewall at end sill is taken to be minimum 1.5h1, but more than H/2										
			J (m)	1.5h1	1.2	more than H/2	0.7	1.20		
Height of the sidewall at the weir end										
			Equal to gully depth	2.35				2.35		
			M (m)	2(F+1.33h-J)			2.327	2.30		
			K (m)	Lb+.1-M			0.473	0.90		
Length of Wing wall (WL)										
			WL = 2.25h				2.1375	2.00		
Depth of Toe Wall										
			h1+0.1				0.9	1.00		

WORK ABSTRACT							
Sl. No.	Item	Specification (m)			Quantity (cum)		
		Length	Breadth	Depth			
1	Clearing of site (Removal of trees, shrubs and bushes)	8.00	10.00				
2	Earth work						
	a) in hard soil Headwall Foundation	2.00	2.50	1.00	5.00	Effective depth will be 0.7 m	
	b) in hard soil RHS of Headwall extension	3.00	2.50	1.20	9.00	"	
	c) in hard soil LHS of Headwall extension	3.00	2.50	1.20	9.00	"	
	d) in hard soil cutoff wall	8.00	1.60	0.80	10.24		
	e)in hard soil side wall on both side	6.40	2.00	2.00	25.60	Effective depth will be 1.25 m	
	f) in hard soil Toe wall	2.00	1.60	1.00	3.20	Effective depth will be 1.00 m	
	g) in hard soil Wing wall on both side	4.00	1.80	1.50	10.80	"	
	h) Apron	2.70	2.30	0.50	3.11		
					Total	75.95	
3	Cement concrete						
	Cement Concrete (1:2:4)						
	a) Head wall coping	2.00	0.70	0.10	0.14		

	b) Apron	2.70	2.30	0.10	0.62			
	c) End sill coping	2.30	0.50	0.10	0.12			
				Total	0.88			
	Cement Concrete (1:4:8)							
	d) Toe wall	2.30	0.70	0.10	0.16			
	e) Apron	2.70	2.30	0.10	0.62			
	f) Side wall on both side	6.40	1.10	0.10	0.70			
	g) Wing wall on both side	4.00	1.00	0.10	0.40			
	h) Headwall and Headwall Extension	8.00	1.60	0.10	1.28			
				Total	3.17			
4	Requirement of sand to nullify the impact of cracks							
	a) Below cutoff wall	8.00	0.70	0.05	0.28			
	b) Below Headwall and headwall extension	8.00	1.60	0.05	0.64			
	c) Below side wall on both sides	6.40	1.10	0.05	0.35			
	d) Below wing wall on both side	4.00	1.00	0.05	0.20			
	e) Below apron	2.70	2.30	0.05	0.31			
	f) Below Toe wall	2.30	0.70	0.05	0.08			
				Total	1.86			
5	Stone Masonry in CM 1:4							
	a) Corewall	8.00	0.60	0.80	3.84			
	b) Headwall and Headwall Extension on both side-Foundation	8.00	1.50	0.70	8.40			
	c) Headwall+ Headwall Extension on both side above gully bed-super structure	8.00	1.10	1.40	12.32	Width=(0.7+1.5)/2= 1.10 m		
	d) Headwall Extension on both the side above crest	6.00	0.70	0.95	3.99			
	e) Foundation for side wall on both side	6.00	1.10	1.25	8.25			

	f) Side wall on both side -super structure (K Part)-I	1.80	1.00	0.80	1.44		
	g) Side wall on both side-above part-I mentioned in (e): (K Part)-II	1.80	0.80	0.40	0.58		
	h) Side wall on both side above part-II mentioned in (f): (K Part)-III	1.80	0.70	0.60	0.76		
	i) Side wall on both side above part-II mentioned in (f): (K Part)-IV	1.80	0.60	0.55	0.59		
	j) Side wall on both side-Super structure (M Part)-I	4.60	1.00	0.80	3.68		
	k) Side wall on both side-Super structure (M Part)-II	4.60	0.80	0.40	1.47		
	l) Side wall on both side above Part-II mentioned in (i): (M Part)-III	4.60	0.70	0.575	1.85	Avg. ht. of triangle portion=	0.575
	m) Foundation for wing wall on both side	4.00	0.80	1.00	3.20		
	n) Wing wall on both side-Super structure- Part- I	4.00	0.70	0.60	1.68		
	o) Wing wall on both side-Above Part-I mentioned in (l): Part -II	4.00	0.60	0.30	0.72	Avg. ht. of triangle portion=	0.30
	p) Toe wall: Part I	2.30	0.70	0.50	0.81		
	q) Toe wall: Part II	2.30	0.60	0.50	0.69		
	r) Transverse Sill	2.30	0.50	0.30	0.35		
	s) Apron	2.70	2.30	0.25	1.55		
					56.16		

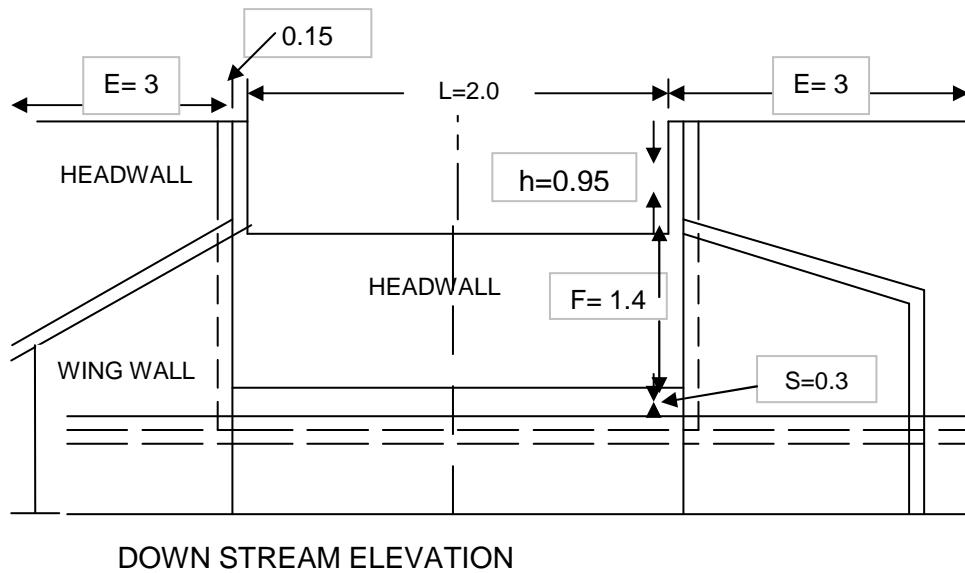
6	M S Bar (10 mm, q)				1.50			
7	Providing rough stone pitching in u/s (both side)	35.00	2.35	0.20	16.45			
8	Cement pointing to stone masonry in CM 1:3 (sqm)							
	a) Headwall both side + Extension u/s only	8.00		1.40	11.20			
	b) Side wall both side (RHS and LHS)-Part I	6.40		1.20	7.68			
	c) Side wall both side (RHS and LHS)-Part II	1.80		1.15	2.07			
	d) Side wall both side (RHS and LHS)-Part-III	4.60		0.575	2.65	Avg. ht. of triangle portion=	0.575	
	e) Wing wall both side-Part I	4.00		0.60	2.40			
	f) Wing wall both side-Part I	4.00		0.30	1.20	Avg. ht. of triangle portion=	0.30	
				Total	27.20			
9	Filling of black clay soil in the up stream (free from any kind of gravel)				5.00	trolley		

MATERIAL ABSTRACT											
						Required Quantiy					
					Quantiy,cum	Cement,bags	Sand,cum	Conc ,cum	Khanda (cum)	Boulder(cum)	MS Bar (q)
1	Cement Concrete mix (1:2:4): 12 mm conc.			0.88	5.61	0.39	0.79				
2	Cement Concrete mix (1:4:8); 20 mm conc.			3.17	10.76	1.49	2.98				
3	Stone Maspnary in CM 1:4			56.16	140.41	19.10		56.16			
4	MS Bar for reinforcing										1.50
5	Boulder for pitching			16.45							16.45
6	Cement pointing to stone masonry in CM 1:3 (sqm)			27.20	1.69	0.17					
7	Black clay soil (gravel free)			5.00							
8	Requirement of sand to nullify the impact of cracks					1.86					
			Total		158.46	23.01			56.16	16.45	1.50

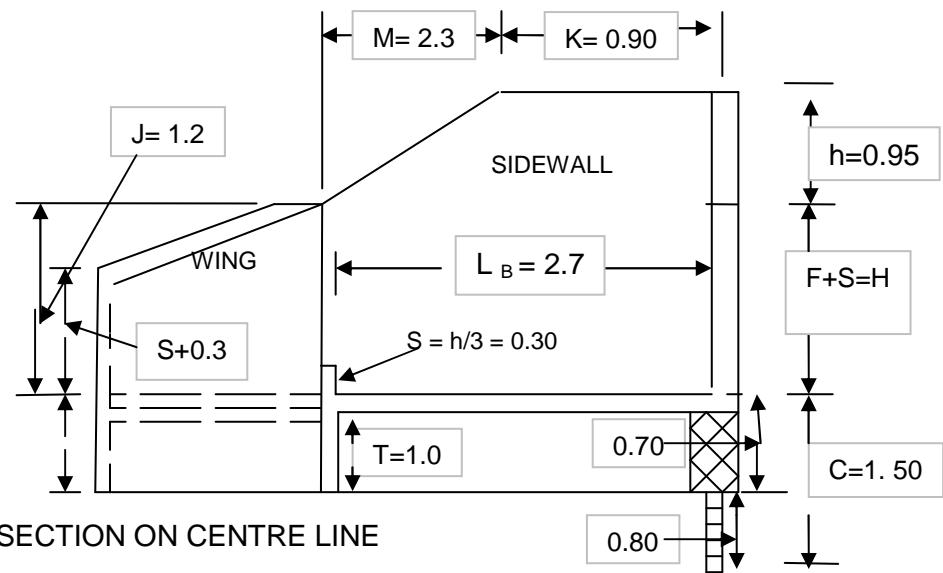
COST ABSTRACT						
	Sl. No.	Item	Quantity	Unit	Rate (Rs./Unit)	Amount (Rs.)

A	1	Cement	158	Bag	300.00	47538.57
	2	Sand (good quality)	23.01	m ³	900.00	20710.47
	3	Concrete-12 mm	0.79	m ³	1300.00	1024.92
	4	Concrete-20 mm	2.98	m ³	1200.00	3571.25
	5	Khanda (8"x8"x8")	56.16	m ³	1000.00	56162.00
	6	M S Bar (10 mm Saria)	1.50	q	4500.00	6750.00
	7	Boulder	16.45	m ³	700.00	11515.00
	8	Filling of black clay soil in the up stream (free from any kind of gravel)	5.00	Trolley	700.00	3500.00
					Total	150772.20
B	9	Water supply through tanker @ 3 % of material cost				4523.17
C	10	Labour Charges @ 35%				52770.27
					Total (A+B+C)	208065.64
	11	Misc. @ 3%				6241.97
					G. Total	214307.61
		Rs. 2,14,308/- (Rs. Two lakh fourteen thousand three hundred eight only)				

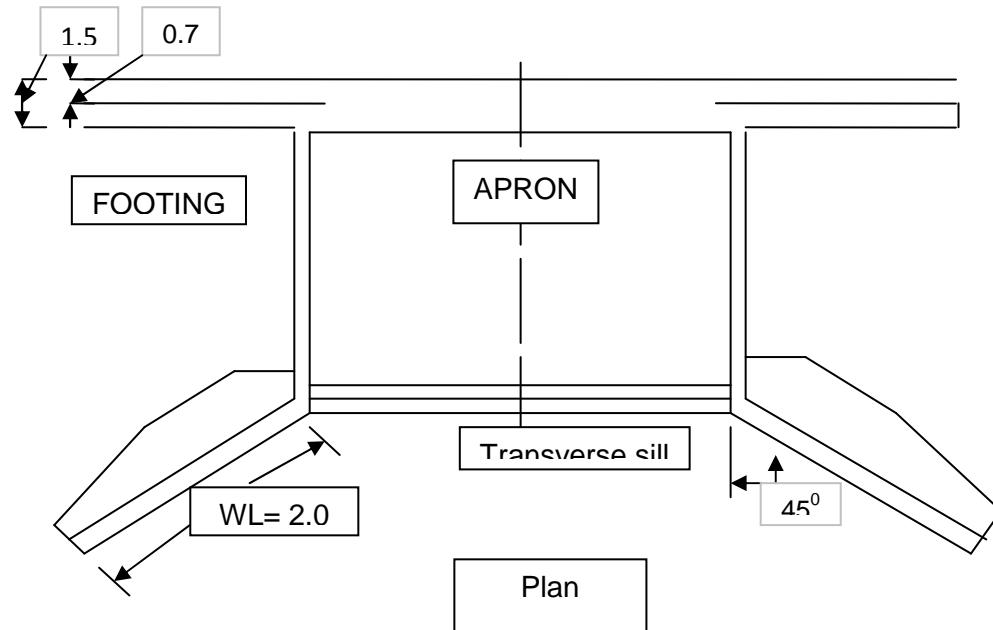
Note: The cost of materials is inclusive of all taxes and transportation to the site. It is based on the prevailing market rates. It may vary with respect to time



DOWN STREAM ELEVATION



SECTION ON CENTRE LINE



Plan

L = Length of weir
 h = Depth of weir
 F = Drop through spillway from crest of weir to top of transverse sill
 S = Height of transverse sill
 L_B = Length of Apron
 T = Depth of toewall below top of apron
 C = Depth of cutoff wall below top of apron
 E = Length of headwall extension
 J = Height of wingwall & sidewall at junction

DESIGNED BY:-
 DR. R.C. SACHAN
 EX. SPECIAL SCIENTIST, (LAND & WATER MANAGEMENT)
 ICRISAT, PATANCHERU, A.P.

Note: Figure not to scale, All dimensions are in Metre

Technical Details of Outlet No. 1 to be constructed along with WHB

Design of surplusing arrangement No. 2 to be constructed along with WHB							
HYDROLOGIC DESIGN							
Area (ha)	20						
slope	0.0022						
K	7.47						
a	0.17						
b	0.75						
n	0.96						
Time of Concentration							
		Le.77	Se-0.385				
L (m)	600	137.78					
S	0.0022		10.61				
	hour	Tc + b		(tc+b) power n			
Tc	28.462	0.4744	1.2244		1.214		
Intensity							
		Tr power a					
Tr	10	1.4791					
I		9.0976					
Discharge							
			Taken				
c	0.5	Coeff					
I	90.976	mm/hr					
A	20	ha					
Q	2.5271			Cumec			

HYDRAULIC DESIGN								
Length of crest weir (m)		1.75						
Weir height (m)		h						
Q = 1.71*L*h power (3/2)								
h power 3/2		0.8445						
		Taken						
h		0.8935		0.9	h1			
h + free board		0.9382		0.95				
Height of WHB		2.20						
Height of water drop (H)		1.25		Say	1.25			

STABILITY ANALYSIS								
Let			Top width (m)		t	0.6		
			Bottom width (m)		T	1.3		
Weight of dam per unit length (kg)			W		2612.5		W square	6825156.25
Horizontl water pressure (Kg)			P		781.25		P square	610351.5625
Uplift pressure (kg)			U		(T*w*H)/2	812.5		
Net downward force (kg)			Wn		W-U	1800	Wn Square	3240000
Resultant (kg)			R					1962.231271
			H		1.25			
			Xbar			0.496491		
			Z			0.209354		
Point of Resultant (xbar+Z)						0.705845		
			EA			0.803509		
			P*H/3			325.5208		
			W*EA			2099.167		

					b/6		0.216667		
					b/2		0.65		
	e = xbar+Z-b/2				e (OF)		0.055845		
	fmax = Wn/b(1+6*e/b)				fmax		1741.494		
A Safety against sliding									
					(mu*W)/P		1.152		
B Safety against overturning					(W*EA)/(P*H/3)		2.04004		
C Safety against Tension					e<b/6 or b/6-e should be +ive		0.160822		
D Safety against Crushing				Permiss comp Stress kg/sqm		say	10000		
				PCS-fmax should be +ive			8258.506		
Depth of Foundation									
			Normal scour depth, dn		0.473[Q/f]power1/3				
			Q (cumec)	2.527					
			Q (Cusec)	89.18					
			f is silt factor, take=	1					
			[q/f]	89.1755					
			[q/f] power1/3	4.46768					
			dn (ft)	2.11321					
			dn (m)	0.64427					
		Maximum scour depth, dm		1.5*dn	0.96641				
								Technical Specification	
		Foundation depth, D		1.33 dm	1.28532		1.40		
Minimum length of headwall extension (m)			E=3h+0.6 or 1.5F whichever is greater						
			F is net drop from top of transverse sill to crest						
			St= height of transverse sill= h/3		0.316667		0.30		
			F (m)	0.95					

			E (m)	3.45	or	1.425	say	3.00	
Length of Basin Lb									
		Lb (m)= F(2.28*h/F+0.52)		2.66			say	2.50	
Height of the sidewall at end sill is taken to be minimum 1.5h1, but more than H/2									
		J (m)	1.5h1	1.35	more than H/2	0.625		1.20	
Height of the sidewall at the weir end									
		Equal to gully depth	2.2					2.20	
		M (m)	2(F+1.33h-J)			2.027		2.00	
		K (m)	Lb+.1-M			0.573		1.00	
Length of Wing wall (WL)									
		WL = 2.25h				2.1375		2.00	
Depth of Toe Wall									
		h1+0.1					1	1.00	

WORK ABSTRACT							
Sl. No.	Item	Specification (m)			Quantity (cum)		
		Length	Breadth	Depth			
1	Clearing of site (Removal of trees, shrubs and bushes)	8.00	10.00				
2	Earth work						
	a) in hard soil Headwall Foundation	1.75	2.50	1.00	4.38	Effective depth will be 0.7 m	
	b) in hard soil RHS of Headwall extension	3.00	2.50	1.20	9.00	"	
	c) in hard soil LHS of Headwall extension	3.00	2.50	1.20	9.00	"	
	d) in hard soil cutoff wall	7.75	1.60	0.70	8.68		
	e)in hard soil side wall on both side	6.00	2.00	2.00	24.00	Effective depth will be 1.25 m	
	f) in hard soil Toe wall	1.75	1.60	1.00	2.80	Effective depth will be 1.00 m	
	g) in hard soil Wing wall on both side	4.00	1.80	1.50	10.80	"	
	h) Apron	2.50	2.00	0.50	2.50		
				Total	71.16		
3	Cement concrete						
	Cement Concrete (1:2:4)						

	a) Head wall coping	1.75	0.60	0.10	0.11			
	b) Apron	2.50	2.00	0.10	0.50			
	c) End sill coping	2.00	0.50	0.10	0.10			
				Total	0.71			
	Cement Concrete (1:4:8)							
	d) Toe wall	2.00	0.70	0.10	0.14			
	e) Apron	2.50	2.00	0.10	0.50			
	f) Side wall on both side	6.00	1.10	0.10	0.66			
	g) Wing wall on both side	4.00	1.00	0.10	0.40			
	h) Headwall and Headwall Extension	7.75	1.60	0.10	1.24			
				Total	2.94			
4	Requirement of sand to nullify the impact of cracks							
	a) Below cutoff wall	7.75	0.70	0.05	0.27			
	b) Below Headwall and headwall extension	7.75	1.30	0.05	0.50			
	c) Below side wall on both sides	6.00	1.10	0.05	0.33			
	d) Below wing wall on both side	4.00	1.00	0.05	0.20			
	e) Below apron	2.50	2.00	0.05	0.25			
	f) Below Toe wall	2.00	0.70	0.05	0.07			
				Total	1.63			
5	Stone Masonry in CM 1:4							
	a) Corewall	7.75	0.60	0.70	3.26			
	b) Headwall and Headwall Extension on both side-Foundation	7.75	1.30	0.70	7.05			
	c) Headwall+ Headwall Extension on both side above gully bed-super structure	7.75	0.95	1.25	9.20	Width=(0.6+1.3)/2=0.95 m		
	d) Headwall Extension on both the side above crest	6.00	0.60	0.95	3.42			

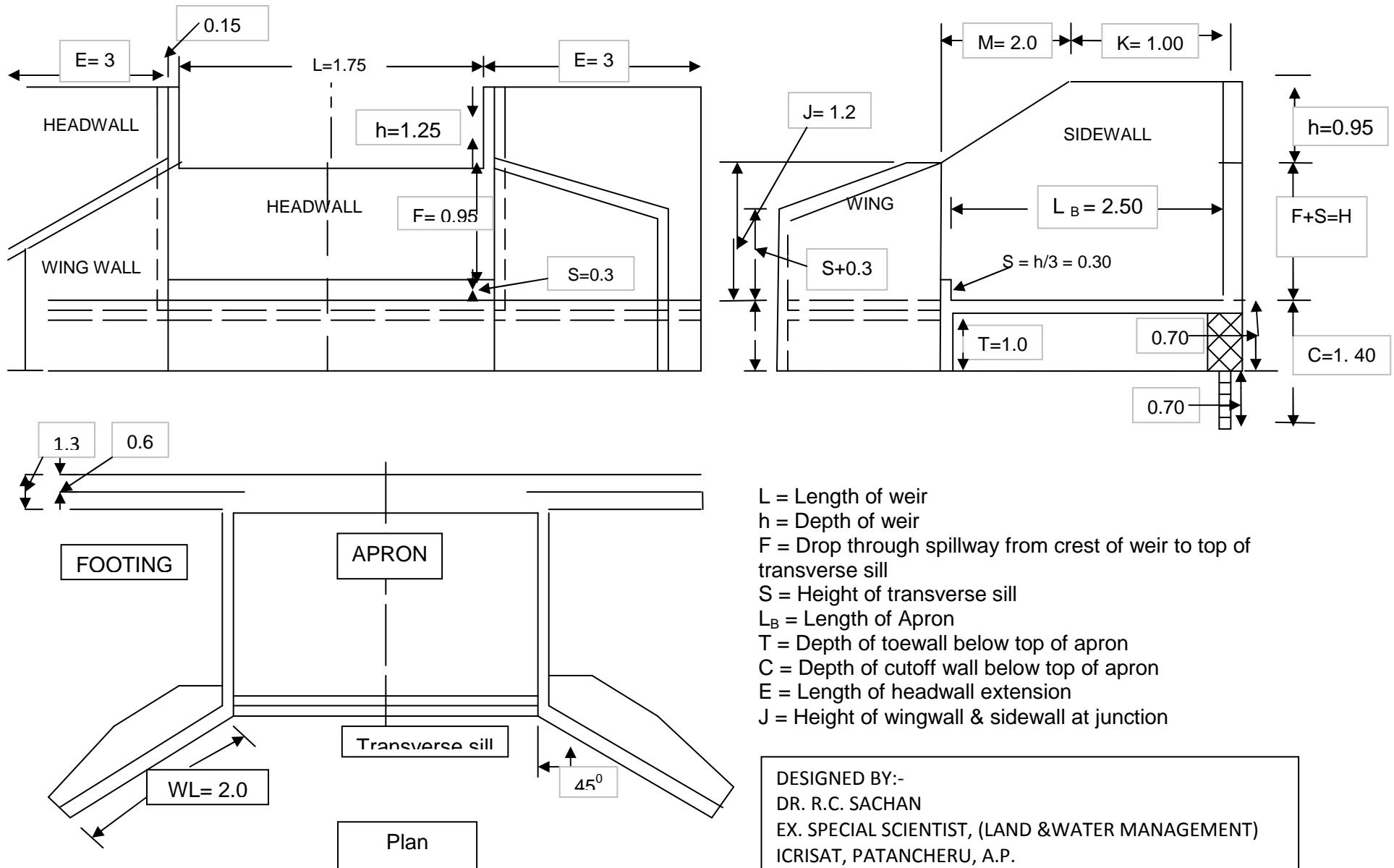
	e) Foundation for side wall on both side	6.00	1.10	1.25	8.25			
	f) Side wall on both side -super structure (K Part)-I	2.00	1.00	0.80	1.60			
	g) Side wall on both side-above part-I mentioned in (e): (K Part)-II	2.00	0.80	0.40	0.64			
	h) Side wall on both side above part-II mentioned in (f): (K Part)-III	2.00	0.70	0.60	0.84			
	i) Side wall on both side above part-II mentioned in (f): (K Part)-IV	2.00	0.60	0.40	0.48			
	j) Side wall on both side-Super structure (M Part)-I	4.00	1.00	0.80	3.20			
	k) Side wall on both side-Super structure (M Part)-II	4.00	0.80	0.40	1.28			
	l) Side wall on both side above Part-II mentioned in (i): (M Part)-III	4.00	0.70	0.500	1.40	Avg. ht. of triangle portion=	0.500	
	m) Foundation for wing wall on both side	4.00	0.80	1.00	3.20			
	n) Wing wall on both side-Super structure- Part- I	4.00	0.70	0.60	1.68			
	o) Wing wall on both side-Above Part-I mentioned in (l): Part -II	4.00	0.60	0.30	0.72	Avg. ht. of triangle portion=	0.30	
	p) Toe wall: Part I	2.00	0.70	0.50	0.70			
	q) Toe wall: Part II	2.00	0.60	0.50	0.60			
	r) Transverse Sill	2.00	0.50	0.30	0.30			
	s) Apron	2.50	2.00	0.25	1.25			

							49.07			
6	M S Bar (10 mm, q)						1.25			
7	Providing rough stone pitching in u/s (both side)	35.00	2.20	0.20		15.40				
8	Cement pointing to stone masonry in CM 1:3 (sqm)									
	a) Headwall both side + Extension u/s only	7.75		1.25	9.69					
	b) Side wall both side (RHS and LHS)-Part I	6.00		1.20	7.20					
	c) Side wall both side (RHS and LHS)-Part II	2.00		1.00	2.00					
	d) Side wall both side (RHS and LHS)-Part-III	4.00		0.500	2.00	Avg. ht. of triangle portion=	0.500			
	e) Wing wall both side-Part I	4.00		0.60	2.40					
	f) Wing wall both side-Part I	4.00		0.30	1.20	Avg. ht. of triangle portion=	0.30			
				Total	24.49					
9	Filling of black clay soil in the up stream (free from any kind of gravel)					5.00	trolley			

MATERIAL ABSTRACT											
						Required Quantiy					
					Quantiy,cum	Cement,bags	Sand,cum	Conc ,cum	Khanda (cum)	Boulder(cum)	MS Bar (q)
1	Cement Concrete mix (1:2:4): 12 mm conc.				0.71	4.51	0.32	0.63			
2	Cement Concrete mix (1:4:8); 20 mm conc.				2.94	10.00	1.38	2.76			
3	Stone Maspnary in CM 1:4				49.07	122.68	16.68		49.07		
4	MS Bar for reinforcing										1.25
5	Boulder for pitching				15.40						15.40
6	Cement pointing to stone masonry in CM 1:3 (sqm)				24.49	1.52	0.15				
7	Black clay soil (gravel free)				5.00						
8	Requirement of sand to nullify the impact of cracks							1.63			
				Total		138.70	20.16		49.07	15.40	1.25

COST ABSTRACT						
	Sl. No.	Item	Quantity	Unit	Rate (Rs./Unit)	Amount (Rs.)
A	1	Cement	139	Bag	300.00	41610.84
	2	Sand (good quality)	20.16	m ³	900.00	18146.10
	3	Concrete-12 mm	0.63	m ³	1300.00	824.85
	4	Concrete-20 mm	2.76	m ³	1200.00	3316.32
	5	Khanda (8"x8"x8")	49.07	m ³	1000.00	49070.63
	6	M S Bar (10 mm Saria)	1.25	q	4500.00	5625.00
	7	Boulder	15.40	m ³	700.00	10780.00
	8	Filling of black clay soil in the up stream (free from any kind of gravel)	5.00	Trolley	700.00	3500.00
					Total	132873.73
B	9	Water supply through tanker @ 3 % of material cost				3986.21
C	10	Labour Charges @ 35%				46505.81
					Total (A+B+C)	183365.75
	11	Misc. @ 3%				5500.97
					G. Total	188866.72
		Rs.1,88,867/- (Rs. One lakh eighty eight thousand eight hundred sixty seven only)				

Note: The cost of materials is inclusive of all taxes and transportation to the site. It is based on the prevailing market rates. It may vary with respect to time



L = Length of weir
h = Depth of weir
F = Drop through spillway from crest of weir to top of transverse sill
S = Height of transverse sill
L_B = Length of Apron
T = Depth of toewall below top of apron
C = Depth of cutoff wall below top of apron
E = Length of headwall extension
J = Height of wingwall & sidewall at junction

DESIGNED BY:-
 DR. R.C. SACHAN
 EX. SPECIAL SCIENTIST, (LAND & WATER MANAGEMENT)
 ICRISAT, PATANCHERU, A.P.

Note: Figure not to scale, All dimensions are in Metre

Technical Details of Outlet No. 2 to be constructed along with WHB

Design of surplusing arrangement No. 3 to be constructed along with WHB							
HYDROLOGIC DESIGN							
Area (ha)	15						
slope	0.002						
K	7.47						
a	0.17						
b	0.75						
n	0.96						
Time of Concentration							
		Le.77	Se-0.385				
L (m)	500	119.73					
S	0.002		10.942				
	hour	Tc + b		(tc+b) power n			
Tc	25.508	0.4251	1.1751		1.168		
Intensity							
		Tr power a					
Tr	10	1.4791					
I		9.4632					
Discharge							
			Taken				
c	0.4	Coeff					
I	94.632	mm/hr					
A	15	ha					
Q	1.5772			Cumec			

HYDRAULIC DESIGN								
Length of crest weir (m)			1.25					
Weir height (m)			h					
$Q = 1.71*L*h^{power(3/2)}$								
$h^{power(3/2)}$			0.7379					
				Taken				
h			0.8167	0.7	h1			
h + free board			0.8576	0.75				
Height of WHB			1.75					
Height of water drop (H)			1.00		Say	1		
STABILITY ANALYSIS								
Let			Top width (m)	t	0.5			
			Bottom width (m)	T	1.1			
Weight of dam per unit length (kg)				W	1760		W square	3097600
Horizontzl water pressure (Kg)				P	500		P square	250000
Uplift pressure (kg)				U	$(T*w*H)/2$	550		
Net downward force (kg)				Wn	W-U	1210	Wn Square	1464100
Resultant (kg)				R				1309.236419
				H	1			
				Xbar		0.41875		
				Z		0.161415		
Point of Resultant (xbar+Z)						0.580165		
				EA		0.68125		
				$P*H/3$		166.6667		
				$W*EA$		1199		
				b/6		0.183333		

					b/2		0.55		
	e = xbar+Z-b/2			e (OF)		0.030165			
	fmax = Wn/b(1+6*e/b)			fmax		1280.992			
A Safety against sliding									
				(mu*W)/P			1.21		
B Safety against overturning				(W*EA)/(P*H/3)			2.104998		
C Safety against Tension				e<b/6 or b/6-e should be +ive			0.153168		
D Safety against Crushing				Permiss comp Stress kg/sqm	say		10000		
				PCS-fmax should be +ive			8719.008		
Depth of Foundation									
			Normal scour depth, dn	0.473[Q/f]power1/3					
			Q (cumec)	1.577					
			Q (Cusec)	55.66					
			f is silt factor, take=	1					
			[q/f]	55.6554					
			[q/f] power1/3	3.818					
			dn (ft)	1.80591					
			dn (m)	0.55058					
		Maximum scour depth, dm		1.5*dn	0.82587				
								Technical Specification	
		Foundation depth, D		1.33 dm	1.09841			1.10	
Minimum length of headwall extension (m)				E=3h+0.6 or 1.5F whichever is greater					
				F is net drop from top of transverse sill to crest					
				St= height of transverse sill= h/3				0.25	0.25
				F (m)	0.75				
				E (m)	2.85	or	1.125	say	2.50

Length of Basin Lb									
			Lb (m)= F(2.28*h/F+0.52)			2.1		say	2.00
Height of the sidewall at end sill is taken to be minimum 1.5h1, but more than H/2									
			J (m)	1.5h1	1.05	more than H/2	0.5	1.00	
Height of the sidewall at the weir end									
			Equal to gully depth	1.75				1.75	
			M (m)	2(F+1.33h-J)			1.495	1.50	
			K (m)	Lb+.1-M			0.605	1.00	
Length of Wing wall (WL)									
			WL = 2.25h				1.6875	1.75	
Depth of Toe Wall									
			h1+0.1				0.8	0.80	

WORK ABSTRACT							
Sl. No.	Item	Specification (m)			Quantity (cum)		
		Length	Breadth	Depth			
1	Clearing of site (Removal of trees, shrubs and bushes)	8.00	10.00				
2	Earth work						
	a) in hard soil Headwall Foundation	1.25	2.10	1.00	2.63	Effective depth will be 0.7 m	
	b) in hard soil RHS of Headwall extension	2.50	2.10	1.20	6.30	"	
	c) in hard soil LHS of Headwall extension	2.50	2.10	1.20	6.30	"	
	d) in hard soil cutoff wall	6.25	1.60	0.40	4.00		
	e) in hard soil side wall on both side	5.00	2.00	1.50	15.00	Effective depth will be 1 m	
	f) in hard soil Toe wall	1.50	1.60	1.00	2.40	Effective depth will be 1.00 m	
	g) in hard soil Wing wall on both side	3.50	1.80	1.50	9.45	"	
	h) Apron	2.00	1.50	0.50	1.50		
				Total	47.58		
3	Cement concrete						
	Cement Concrete (1:2:4)						

	a) Head wall coping	1.25	0.50	0.10	0.06			
	b) Apron	2.00	1.50	0.10	0.30			
	c) End sill coping	1.50	0.50	0.10	0.08			
			Total	0.44				
	Cement Concrete (1:4:8)							
	d) Toe wall	1.50	0.70	0.10	0.11			
	e) Apron	2.00	1.50	0.10	0.30			
	f) Side wall on both side	5.00	1.10	0.10	0.55			
	g) Wing wall on both side	3.50	1.00	0.10	0.35			
	h) Headwall and Headwall Extension	6.25	1.60	0.10	1.00			
			Total	2.31				
4	Requirement of sand to nullify the impact of cracks							
	a) Below cutoff wall	6.25	0.70	0.05	0.22			
	b) Below Headwall and headwall extension	6.25	1.20	0.05	0.38			
	c) Below side wall on both sides	5.00	1.10	0.05	0.28			
	d) Below wing wall on both side	3.50	1.00	0.05	0.18			
	e) Below apron	2.00	1.50	0.05	0.15			
	f) Below Toe wall	1.50	0.70	0.05	0.05			
			Total	1.25				
5	Stone Masonry in CM 1:4							
	a) Corewall	6.25	0.60	0.40	1.50			
	b) Headwall and Headwall Extension on both side-Foundation	6.25	1.10	0.70	4.81			
	c) Headwall+ Headwall Extension on both side above gully bed-super structure	6.25	0.80	1.00	5.00	Width=(0.5+1.1)/2=0.8 m		

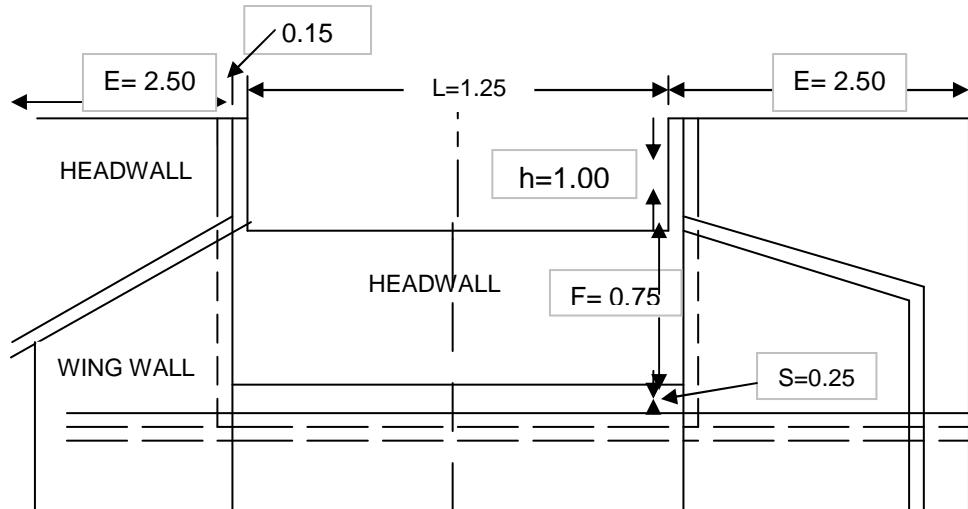
	d) Headwall Extension on both the side above crest	5.00	0.50	0.75	1.88			
	e) Foundation for side wall on both side	5.00	0.90	1.00	4.50			
	f) Side wall on both side -super structure (K Part)-I	2.00	0.80	0.50	0.80			
	g) Side wall on both side-above part-I mentioned in (e): (K Part)-II	2.00	0.70	0.50	0.70			
	h) Side wall on both side above part-II mentioned in (f): (K Part)-III	2.00	0.60	0.50	0.60			
	i) Side wall on both side above part-II mentioned in (f): (K Part)-IV	2.00	0.50	0.25	0.25			
	j) Side wall on both side-Super structure (M Part)-I	3.00	0.90	0.50	1.35			
	k) Side wall on both side-Super structure (M Part)-II	3.00	0.80	0.50	1.20			
	l) Side wall on both side above Part-II mentioned in (i): (M Part)-III	3.00	0.70	0.375	0.79	Avg. ht. of triangle portion=	0.375	
	m) Foundation for wing wall on both side	3.50	0.70	1.00	2.45			
	n) Wing wall on both side-Super structure- Part- I	3.50	0.60	0.55	1.16			
	o) Wing wall on both side-Above Part-I mentioned in (l): Part -II	3.50	0.50	0.23	0.39	Avg. ht. of triangle portion=	0.23	
	p) Toe wall: Part I	1.50	0.70	0.50	0.53			
	q) Toe wall: Part II	1.50	0.60	0.30	0.27			

	r) End Sill	1.50	0.50	0.25	0.19			
	s) Apron	2.00	1.50	0.25	0.75			
						29.11		
6	M S Bar (10 mm, q)					1.00		
7	Providing rough stone pitching in u/s (both side)	35.00	1.75	0.20	12.25			
8	Cement pointing to stone masonry in CM 1:3 (sqm)							
	a) Headwall both side + Extension u/s only	6.25		1.00	6.25			
	b) Side wall both side (RHS and LHS)-Part I	5.00		1.00	5.00			
	c) Side wall both side (RHS and LHS)-Part II	2.00		0.75	1.50			
	d) Side wall both side (RHS and LHS)-Part-III	3.00		0.375	1.13	Avg. ht. of triangle portion=	0.375	
	e) Wing wall both side-Part I	3.50		0.55	1.93			
	f) Wing wall both side-Part I	4.00		0.23	0.90	Avg. ht. of triangle portion=	0.23	
				Total	16.70			
9	Filling of black clay soil in the up stream (free from any kind of gravel)				4.00	trolley		

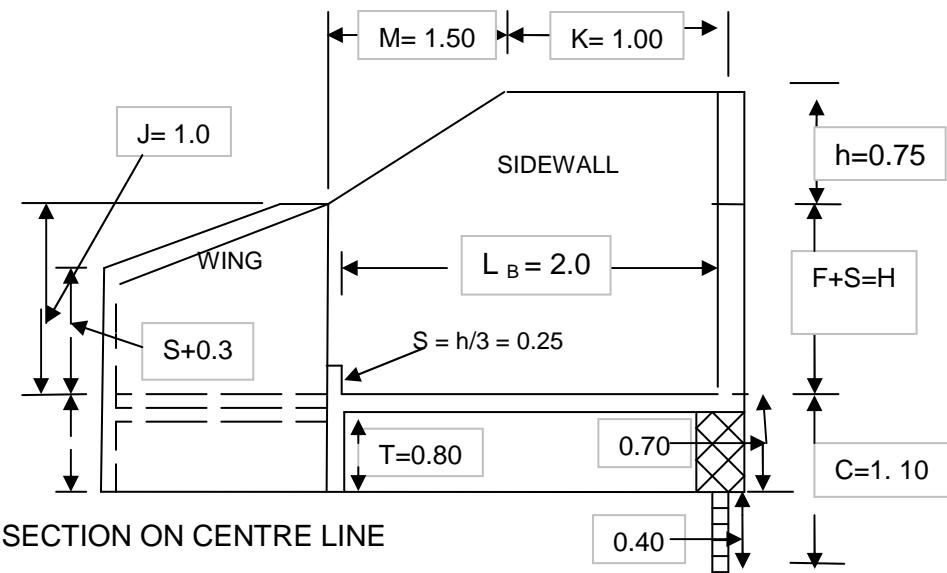
MATERIAL ABSTRACT											
						Required Quantiy					
					Quantiy,cum	Cement,bags	Sand,cum	Conc ,cum	Khanda (cum)	Boulder(cum)	MS Bar (q)
1	Cement Concrete mix (1:2:4): 12 mm conc.				0.44	2.80	0.20	0.39			
2	Cement Concrete mix (1:4:8); 20 mm conc.				2.31	7.84	1.08	2.17			
3	Stone Maspnary in CM 1:4				29.11	72.77	9.90		29.11		
4	MS Bar for reinforcing										1.00
5	Boulder for pitching				12.25						12.25
6	Cement pointing to stone masonry in CM 1:3 (sqm)				16.70	1.04	0.11				
7	Black clay soil (gravel free)				4.00						
8	Requirement of sand to nullify the impact of cracks						1.25				
				Total		84.44	12.53		29.11	12.25	1.00

COST ABSTRACT						
	Sl. No.	Item	Quantity	Unit	Rate (Rs./Unit)	Amount (Rs.)
A	1	Cement	84	Bag	300.00	25331.41
	2	Sand (good quality)	12.53	m ³	900.00	11275.03
	3	Concrete-12 mm	0.39	m ³	1300.00	511.88
	4	Concrete-20 mm	2.17	m ³	1200.00	2600.04
	5	Khanda (8"x8"x8")	29.11	m ³	1000.00	29106.25
	6	M S Bar (10 mm Saria)	1.00	q	4500.00	4500.00
	7	Boulder	12.25	m ³	700.00	8575.00
	8	Filling of black clay soil in the up stream (free from any kind of gravel)	4.00	Trolley	700.00	2800.00
					Total	84699.60
B	9	Water supply through tanker @ 3 % of material cost				2540.99
C	10	Labour Charges @ 35%				29644.86
					Total (A+B+C)	116885.45
	11	Misc. @ 3%				3506.56
					G. Total	120392.01
		Rs. 1,20,392/- (Rs. One lakh twenty thousand three hundred ninety two only)				

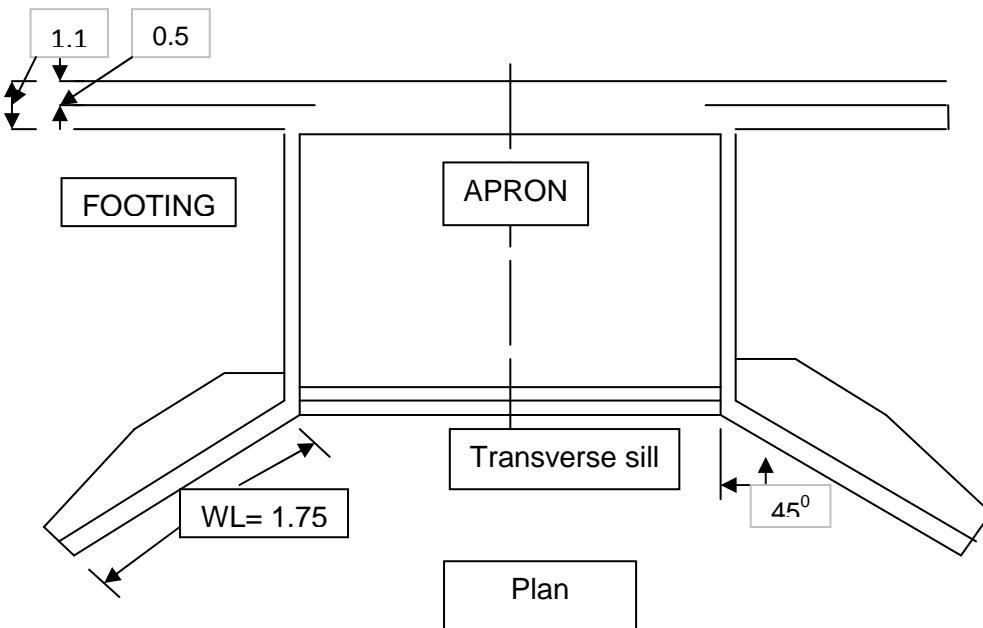
Note: The cost of materials is inclusive of all taxes and transportation to the site. It is based on the prevailing market rates. It may vary with respect to time



DOWN STREAM ELEVATION



SECTION ON CENTRE LINE



Note: Figure not to scale, All dimensions are in Metre

L = Length of weir
 h = Depth of weir
 F = Drop through spillway from crest of weir to top of transverse sill
 S = Height of transverse sill
 L_B = Length of Apron
 T = Depth of toe wall below top of apron
 C = Depth of cutoff wall below top of apron
 E = Length of headwall extension
 J = Height of wingwall & sidewall at junction

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 ICRISAT, PATANCHERU, A.P.

Technical Details of Outlet No. 3 to be constructed along with WHB

CHAPTER - 6

CAPACITY BUILDING PLAN

The capacity building of various stake holders will be given very high priority as the watershed is to be developed in participatory mode. Capacity building initiative plays very important role in human resource development of model watershed to replicate and train other watershed resource persons. The capacity building initiatives include training to government officials, CBOs, farmers and PIAs through field days, hands-on trainings, exposure visits to successful watersheds, training materials and etc. Need-based specialized training courses will be conducted. The details of the training institutes for capacity building and training to stake holders on participatory watershed management are summarized in Table 6.1 and 6.2, respectively.

Table 6.1: List of identified training institutes for capacity building*

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.	Krishi Vigyan Kendra	P.O. Bhojla, Unnao Bala ji Road, Bharari, Mahoba, Phne No 05102792282	Programme Coordinator	Agriculture University	Extension Agronomy Home Science Soil Science	32	1600	Proposal with budget will be received
2.	National Research Center for Agro-Forestry	Gwalior Road, Jhansi	Director	GOI, (ICAR)	Agro-forestry and NRM on watershed basis	32	1600	-do-
3	District Gram Vikash Sansthan	Vikash Bhawan, Mahoba	Coordinator	State Govt.	Small scale	8	200	-do-
4	Indian Institute of Grass Land	Gwalior Road, Jhansi	Director, Jhansi	GoI (ICAR)	Grasses and fodder	8	200	-do-
5	Dept. Of Horticulture	Mision Compound, Mahoba	Deputy Director	State Govt.	Fruit and Vegetable Production	4	100	-do-

*Number of trainings and persons may be changed as per the budget available.

Table 6.2: Training to stakeholders on participatory watershed management*

Sl. No.	Client Group	Title of the Programme/Duration/ Time	Objectives	Coverage/Topics	Training Methodology	Training Institutions
1.	Watershed Committee & WDT members	Planning and implementation of IWMP Project (3 day)	To Strengthen WC and WDT for planning and executing the Project	Natural Resource Management Livelihood options for landless and marginal farmers. Improved Agriculture production system	Lectures, videos and visits to successful watershed	National Research Center for Agro-forestry, Gwalior Road, Jhansi
2.	User Group, SHGs members	Agriculture Production system and specialized training for SHGs (3 day)	To increase the Agriculture productivity and livelihood improvement	Integrated crop management in pulses, cereals, oilseeds, vegetables, orchards and small scale projects related to Agriculture.	Lectures, videos and visits	Krishi Vigyan Kendra, Bharari, Mahoba
3	Watershed Committee & WDT members	Management of natural resources on watershed basis and agroforestry	Awareness and strengthening of knowledge and skills	NRM, Production system and livelihood	Lectures, videos and visits to successful watershed	National Research Center for Agro-forestry, Gwalior Road, Jhansi
4	Secretaries of WC and WDT/PIA members	Book keeping and record maintenance	Maintenance of record and preparing budget	Cash book and ledger registers, preparing budget, maintenance of accounts	Lectures and practical exercise	National Research Center for Agro-forestry, Gwalior Road, Jhansi
5	PIA/WDT	Cultivation of fodder in	Awareness	Package of practices	Lectures, videos	Indian Grassland and Fodder

	members	watershed	and knowledge enhancement	of fodder cultivation	and visits to successful watershed	Research Institute, Jhansi
6.	PIA/WDT/WC members	Knowledge of market and pricing	Awareness and knowledge enhancement	Market intelligence	Lectures, videos and visits	Agriculture Technology Management Agency (ATMA)
7	PIA/WDT members	Design of SWC structures	Strengthening of knowledge	SWC structures	Lectures, practical exercise and visits to successful watershed	NRCAF, Jhansi / CSWCRTI&RS, Datia, MP

*Training programs, duration and topics may be change on course of project as per need

CHAPTER - 7

PHASING OF PROGRAMME AND BUDGETING

7.1 Monitoring and Evaluation

Monitoring of the project will be done at each stage and it will be carried out for both, process and outcome. Some community members will be trained and will be involved in participatory monitoring of various parameters and processes and the crop yields. The interventions, expenditure and other information will be displayed in the micro-watershed through wall writings. Besides trained community members, PIA/DWDC will also monitor the physical and financial progress of watershed development programme. Frontier technologies viz. GIS and Remote Sensing techniques will be used by the PIA/District Watershed Committee Development (DWCD) for monitoring and evaluation. The PIA shall submit quarterly progress reports (countersigned by the Watershed Committee (WC) President) to the DWDC for further submission to the SLNA. Sustainable and unbiased monitoring will be ensured by involving an independent agency to monitor impact assessment subsequently. About 1 per cent of the total budget will be used on this activity.

Plan for Evaluation

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

Theme

The watershed development activities will bring significant and tangible change in socio-economic status of inhabitants, cropping intensity, ground water recharge, crop diversification, fuel, fodder and small timber availability, livestock composition and milk production, etc. Data on indicators baseline in such parameters with base line data would provide the quantitative information on impact.

Observations

The following indicators will be taken into account for quantitative and qualitative assessment. For the purpose, detailed questionnaires will be prepared and field observations will be carried out.

- Duration of availability of drinking water/irrigation and groundwater recharge measure through periodic ground water level in dug well
- Irrigation frequency and area under irrigation
- Changes in cropping pattern and cropping systems in the farmers fields along with productivity and incomes
- Soil health
- Satellite monitoring for vegetation cover and other parameters
- Fuel, fodder and small timber availability
- Livestock composition and productivity

- Periodic pest and disease monitoring will be done in major crops
- Socio-economic aspects including resource inventory
- Following indices will also be worked out as qualitative indicators of the watershed development:
- Land Improvement Index (LII)
- Crop Diversification Index (CDI)
- Cultivated Land Utilization Index (CLUI)
- Crop Fertilization Index (CFI)
- Induced Watershed Eco-Index (IWEI)

The concurrent and post-project monitoring and evaluation would be conducted to assess the status of watershed related interventions. It will be done by an independent agency having similar experiences. About 1 per cent of the total budget will also be used on evaluation.

7.2 Annual Action Plan (AAP)

Physical and financial targets and outlays and their year wise break ups are given Table 7.1. Year wise financial phasing for the budget available (Rs. 652.91 lakh) with IWMP-XXIII, district Mahoba is given in Table 7.2.

Table 7.1: Physical and financial targets and outlays and their year wise break ups of IWMP-XXIII, Kulpahar, Mahoba

Project - IWMP-XXIII			PIA- PIA-Soil Conservation Division, Kulpahar						District - Mahoba			
S. No	Physical and financial targets	Unit	First Year		Second Year		Third Year		Fourth Year		Total Project	
			2011-12		2012-13		2013-14		2014-15			
			Physic al	Financi al	Physic al	Financi al	Physic al	Financi al	Physic al	Financi al	Physic al	Financi al
1	Administration			3.26		32.65		19.59		9.79	0	65.29
2	Monitoring			0.00		3.26		1.63		1.63	0	6.53
3	Evaluation			0.00		1.31		2.94		2.29	0	6.53
4	Entry point activities	No.									0	0.00
	(1) Planned		10	26.12	0	0.00	0	0.00	0	0.00	10	26.12

	(4) Animal husbandry									0	0.00	
	A. fodder production	No. of Units / Farmers	0	0.00	269	1.62	269	1.62	60	0.36	598	3.59
	B. Vaccination/Medication	No. of Animals			303	0.17	303	0.17	67	0.04	674	0.38
	C. Artificial Insemination	No. of Animals			302	0.12	302	0.12	67	0.03	671	0.27
	D. Natural Service.	He Buffalo			10	2.38	10	2.38	2	0.53	22	5.28
9	Livelihood activities through SHG's									0	0.00	
	(1) Activity Goatary									0	0.00	
	(a) No. of SHG's	No.	0	0.00	17	4.16	17	4.16	4	0.93	37	9.25
	(b) No. of members	No.	0	0.00	167	0.00	167	0.00	37	0.00	370	0.00
	(c) Estimated income per year	Rs.	0	0.00						0	0.00	
	(2) Activity- Back Yard Poultry		0	0.00						0	0.00	
	(a) No. of SHG's	No.	0	0.00	15	3.83	15	3.83	3	0.85	34	8.50
	(b) No. of members	No.	0	0.00	153	0.00	153	0.00	34	0.00	340	0.00
	(c) Estimated income per year	Rs.	0	0.00						0	0.00	

	(3) Activity- Poultry , Broiler		0	0.00						0	0.00	
	(a) No. of SHG's	No.	0	0.00	13	3.26	13	3.26	3	0.73	29	7.25
	(b) No. of members	No.	0	0.00	131	0.00	131	0.00	29	0.00	290	0.00
	(c) Estimated income per year	Rs.	0	0.00							0	0.00
	(4) Black Smithy										0	0.00
	(a) No. of SHG's	No.	0	0.00	9	2.36	9	2.36	2	0.53	21	5.25
	(b) No. of members	No.	0	0.00	95	0.00	95	0.00	21	0.00	210	0.00
	(c) Estimated income per year	Rs.	0	0.00		0.00	0	0.00	0	0.00	0	0.00
	(5) Rope making										0	0.00
	(a) No. of SHG's	No.	0	0.00	8	2.03	8	2.03	2	0.45	18	4.50
	(b) No. of members	No.	0	0.00	81	0.00	81	0.00	18	0.00	180	0.00
	(c) Estimated income per year	Rs.	0	0.00							0	0.00
	(6) Tailoring										0	0.00
	(a) No. of SHG's	No.	0	0.00	9	2.14	9	2.14	2	0.48	19	4.75
	(b) No. of members	No.	0	0.00	86	0.00	86	0.00	19	0.00	190	0.00

10	Consolidation & Withdrawl Phase activities		0	0.00	0	0.00	0	0.00	0	19.59	0	19.59	
Grand Total												623382	652.91

Table 7.2: Year wise financial phasing (Rs in Lakh) Project IWMP-XXIII, Dept. of Agriculture, Kulpahar, Mahoba, U.P.

Particulars	1st Year	2nd Year	3rd Year	4th Year	Total
Administrative Cost-10%	3.26	32.65	19.59	9.79	65.29
Monitering-1%	0.00	3.26	1.63	1.63	6.53
Evaluation-1%	0.00	1.31	2.94	2.29	6.53
Entry Point Activity-4%	26.12	0.00	0.00	0.00	26.12
Institution & Capacity Building-5%	1.63	16.32	14.69	0.00	32.65
DPR-1%	6.53	0.00	0.00	0.00	6.53
Watershed Dev. Work-56%	0.00	182.81	109.69	73.13	365.63
Livelihood Activity-9%	0.00	26.44	26.44	5.88	58.76
Production System & Micro enterprises-10%	0.00	29.38	29.38	6.53	65.29
Consolidation-3%	0.00	0.00	0.00	19.59	19.59
Total	37.54	292.18	204.36	118.83	652.91

Note: The budget available under IWMP-XXIII is Rs. 652.91lakh, however, the activities are planned for the Rs. 652.91.

7.3 Details of Convergence

The details of convergence of different developmental schemes are given Chapter 5.

7.4 Benefit Cost Analysis

Benefit cost analysis for the project were given in Table 7.3 and 7.4, respectively. The overall B: C ratio for pre and post project is 1.53 and 1.89, respectively,

Table 7.3: Micro-watershed wise benefit cost analysis of IWMP-XXIII, Kulpahar, Mahoba Present Outcome (Crops)

	of Farm Families in MWS											
	Net Return per Household	29518.0										

Expected Outcome (Crops)

S. No .	Name of Crop (Season wise)	Area (ha)	Productio n (quintal)	Productivit y q/ha	Cost/ ha	Rate Rs/ q	Gross Return Rs	Gross Return/h a	Total Cost Rs	Net Return	Net Retur n /ha	B:C Rati o
1	Urd	2006.22	8426.11	4.2	10000	480 0	40445319	20160	9629838	30815481	15360	2.02
2	Moong	892.13	3479.32	3.9	9100	330 0	11481749	12870	2944038	8537711	9570	1.41
3	Arhar	787.57	5355.47	6.8	13000	900 0	48199235	61200	7088123	41111112	52200	4.71
4	Sorghum	629.35	4908.96	7.8	5600	270 0	13254187	21060	1699255	11554932	18360	3.76
5	Til	1686.43	4384.71	2.6	7000	500 0	21923554	13000	8432136	13491418	8000	1.86
	Total	6001.70	26554.57				13530404 4	128290	2979339 0	10551065 4		
1	Wheat	2084.49	39188.41	18.8	12400	130 0	50944927	24440	2709837	48235091	23140	1.97
2	Barley	1333.14	19197.26	14.4	8000	160 0	30715615	23040	2133029	28582586	21440	2.88
3	Masoor	1418.39	7801.16	5.5	10000	340 0	26523940	18700	4822535	21701405	15300	1.87
4	Gram	2845.02	18777.12	6.6	9000	360 0	67597647	23760	1024206 8	57355579	20160	2.64

Present Outcome (Livestock)

Particulars	Cows	Buffaloes	Goat	Bullocks
Total Animals in Micro watershed Area	1831	1085	6969	332
Milking Animals	700	400	1900	
Average Milk Production Lit. / day	1106	1544	608	
Average Milk Production /Animal/ day	1.58	3.86	0.32	
Sale of Milk per day (Rs) @ Rs 15/Lit	16590	23160	9120	
Average 150 day milking days & Goat 90 days in a year (Total Rs)	2488500	3474000	820800	
Meat Animals			2600	
Average rate of one kids Rs			2500	
Total Sale in a year Rs			6500000	
Working Animals (Bullocks)				332
One year work one agriculture fields 180 days @ 200/ day (One pair)				36000
Total Work value of all Draft animals	2488500	3474000	7320800	5976000
Total monetary worth (Rs.)				5976000
				19259300
Total Family				4206.01
Total Income/Family				4579
Total Expenditure / family				3000
B:C Ratio				1.4

Projected Outcome (Livestock)

Particulars	Cows	Buffaloes	Goat	Bullocks
Total Animals in Micro watershed Area	2300	1700	9500	480
Milking Animals	1230	930	3300	
Average Milk Production Lit. / day	2706	5022	1980	
Average Milk Production /Animal/ day	2.2	5.4	0.6	
Sale of Milk per day (Rs) @ Rs 15/Lit	40590	75330	29700	
Average 150 day milking days & Goat 90 days in a year (Total Rs)	6088500	11299500	2673000	
Meat Animals			4500	
Average rate of one kids Rs			2800	
Total Sale in a year Rs			12600000	
Working Animals (Bullocks)				480
One year work one agriculture fields 200 days @ 220/ day (One pair)				44000
Total Work value of all Draft animals	6088500	11299500	15273000	10560000
Total monetary worth (Rs.)				10560000
				43221000
Total Family				9438.96
Total Income/Family				4579
Total Expenditure / family				5500
B:C Ratio				1.72

Table 7.4 : Outcomes & Benefit cost analysis of IWMP-XXIII, Mahoba

Net Income / Family	Present	Projected
Agriculture	29517.95	36360.88
Animal Husbandry	4206.01	9438.96
Total (Ag+AH)	33723.96	45799.84
Over All B:C of MWS		
Agriculture	1.67	2.06
Animal Husbandry	1.40	1.72
Over All B: C MWS	1.53	1.89

Note: Estimate microwatershed wise benefit-cost ratio are kept in project files of PIA

CHAPTER - 8

CONSOLIDATION AND WITHDRAWAL STRATEGY

8. Consolidation and Withdrawal Strategy

Success of any program depends on sustainability of the various watershed interventions and sustainability can only be achieved through active participation of community. Active participation and cooperation of community can be ensured by building their capacities through exposures and trainings. From the beginning emphasis will be on capacity building and empowerment of stakeholders. The Watershed Committee, SHGs, Area Groups, Users Group and other CBOs will be established, trained, and strengthened to continue development after withdrawal of PIA. By building economic activities through CBOs community participation will be sustained. The PR&D approach along with demand driven interventions will reduce dependency on subsidies. Contributions from the community will be ensured for the entire activities to develop sense of belongingness and these contributions will be deposited to the account of Watershed Development Fund. Watershed Development Fund will also be strengthening through donations from the individual and institutions and the CBOs will be trained to run watershed as business model on sustainable basis. The tangible economic benefits along with empowerment and hand holding by PIA will empower the CBOs to develop and sustain the watershed activities after withdrawal of the PIA. Community organizations will withdraw the money from the WDF to maintain the asset created during the implementation phase. The consolidation phase will also include

- Writing of project completion report
- Documentation of success stories
- Making films, leaflets, bulletins and the lessons learnt.

The expenditure will be done as per the Common Guidelines for Watershed Development Projects 2008.

The completion report will reflect the development on following aspects:

- Productivity enhancement (increase in total productivity, seed replacement, farm mechanization, resources use and operational efficiency.)
- Nutritional security (Production of diverse food commodities)
- Risk minimization (Integrated farming system, water harvesting and protected cultivation, value addition and improved marketing)
- State of environment (Improvement in vegetative cover, hydrology and adoption of IPNM)
- Profitability (Loss preventing and cost reducing measures, value addition and agro-processing.)
- Livelihood security (skill enhancement capacity building, increased employment in agriculture and allied enterprises. Reduction in drudgery of farm women and out migration)

CHAPTER - 9

EXPECTED PROJECT OUTCOME

9.1 Employment Generation and Checking Migration

There had been very heavy migration from Bundelkhand region. During drought years, it is as high as 39% against an average migration rate of 11%, in other regions of Uttar Pradesh towards northern part of the country, specially the states of Delhi, Punjab and Haryana, as agriculture labours, factory workers, rickshaw pullers etc. The major reason attributed to high rate of migration is continuous drought in the region and absence of any other alternate livelihood opportunity, in spite of several anti-poverty programmes.

Due to watershed management the cropping intensity will be increased by around 17.00 per cent, in turn acreage in agricultural activities will be increased by about 925 ha. Therefore, an additional employment of about 92500 human-days will be generated annually. Therefore, no migration in search of livelihoods is expected after implementation of watershed programme.

9.2 Other Expected Outcome*

The following tangible benefits are expected after implementation of the project:

- Runoff will be reduced by about 30 per cent, however soil and nutrient loss may be reduced up to 40 per cent from the watershed.
- Irrigation intensity may be increased to 40 per cent from present 3 per cent life saving irrigation.
- Surface water in nallah may be available for more than 8 months against 4-5 months at present.
- Average ground water recharge of about 2-4 m may be easily obtained after implementation of the programme
- Productivity of crops may be increased by about 15-25 per cent
- Significant saving of seeds may be obtained through crop demonstration with improved package of practices
- During implementation phase about 3,04,000 human-days will be created through the soil and water conservation measures and crop/agroforestry interventions.
- The overall B C ratio of the project is estimated to be 1.89 as compared to the 1.53 in pre project scenario (detailed analysis is given in Chapter 7)

*Above mentioned outcomes are based on the meta analysis of 636 watershed projects across India support by various govt. deptt. and development agencis throughout the country done by ICRISAT, Hyderabad and practical experience of watershed management in Bundelkhand region.

9.3 Questions to be answered

This project will answer the following questions :

1. Will the measures taken for water harvesting sufficient enough to recharge the perched water table?
2. Will the soil and water conservation practices be helpful in combating drought?
3. Will alternate land use such as agroforestry land use system result in self reliance/prosperity in drought prone areas?
4. Can the strategies based on watershed basis yield fruitful results?
5. Response of the villagers towards the project and their participation in sustaining developed resources after withdrawal of the project?
6. Will the formation of SHGs will help in savings and generation of self employment?
7. Will the watershed programmes improve the socio-economic conditions of the stake holders?
8. Will the watershed programme helps in capacity building of the stake holders for dissemination of various activities of watershed programme?
9. Will it sustain after project withdrawal?

9.4 Problems that could be solved as a results of this project/study

Following problems can be tackled in the proposed watershed :

1. Solving the problems of shortage of fuel, fodder, fruit and small timber requirement of villagers.
2. Creating water resources for ground water recharge availability of surface water for animal drinking and nistar purposes.
3. Increasing fertilizer consumption and improving NPK consumption ratio.
4. Optimizing crop productivity by putting more area under HYV and irrigation.
5. Increasing cropping intensity.
6. Promoting dairying through increased fodder availability.
7. Improving basic amenities and facilities like health, education, drinking water etc.
8. Increasing per capita income and thereby standard of living of farming community.
9. Increasing co-operative membership.
10. Increasing self employment.
11. Improving living standard of society.

ANNEXURE-I
BENEFICIARIES WISE DETAILS OF DEVELOPMENTAL ACTIVITIES

2C2A3w2b Village-Panra											
S. N o.	Name of Work	Benefit ed area (ha)	Field No. / Khasara No.	Area of work		C.S. (Are a)	Work Measurem ent	Rat e	Total Cost (Rs.)	Manday Rs. 120/Lab our	Name of Farmers
				Leng th	Width * Height						
1	SB1	14.13	212, 213, 214, 215, 207, 208, 209	932	3.90+0.60/2*1 .10	2.47	2302.04	41.2 2	94890.08 88	790.75074	Chandrabhan etc.
2	SB2	2.432	217	160	3.90+0.60/2*1 .10	2.47	395.2	41.2 2	16290.14 4	135.7512	Makardhvaj etc.
1	CD1	9.757	229	79	11.50+1.50/2* 2.50	16.25	1283.75	47.9 6	61568.65	513.07208 33	Rajendra Kumar, Ashok
			Belling		79*5	395		0.06	23.7		
			Cleaning		79*11.50	908.5		1.35	1226.475		
			Compaction		79*11.50	908.5		2.05	1862.425		
	WHB1	31.879	265, 267, 249 to 270, 512, 523, 524, 527	110	12.80+2.00/2* 2.70	19.98	2197.8	49.3 7	108505.3 86	904.21155	Chandranarayan Singh
			Belling		110*5	550		0.06	33		
			Cleaning		110*12.80	1408		1.35	1900.8		
			Compaction		110*12.80	1408		2.05	2886.4		
			Pucca work						100900		
Village-Luhari											
	SB3	12.356	325, 326, 327, 341, 339, 751	815	3.90+0.60/2*1 .10	2.47	2013.05	41.2 2	82977.92 1	691.48267 5	Chatuebhuj, Jagat Singh
Village-Gorkha											
	SB4	5.763	408, 409, 410	380	3.90+0.60/2*1 .10	2.47	938.6	41.2 2	38689.09 2	322.4091	Dhaniram, Babu, Ramesh
	SB5	9.434	489, 490	622	3.90+0.60/2*1 .10	2.47	1536.34	41.2 2	63327.93 48	527.73279	Babu, Ganeshi
	SB6	9.434	520, 523, 524	623	3.90+0.60/2*1 .10	2.47	1538.81	41.2 2	63429.74 82	528.58123 5	Lakshman

	SB7	16.133	531	1065	3.90+0.60/2*1 .10	2.47	2630.55	41.2 2	108431.2 71	903.59392 5	Nrapat Singh
	SB8	4.063		768	3.90+0.60/2*1 .10	2.47	661.96	41.2 2	27285.99 12	227.38326	Tuliya
	SB9	5.886		1636	3.90+0.60/2*1 .10	2.47	958.36	41.2 2	39503.59 92	329.19666	Brajlal
	SB10	17.213		1340	3.90+0.60/2*1 .10	2.47	2808.39	41.2 2	115761.8 358	964.68196 5	Smt. Shantibai
	SB11	15.119	1.56, 1068	1037	3.90+0.60/2*1 .10	2.47	2561.39	41.2 2	105580.4 958	879.83746 5	Mahendrapal Singh, Shripat
	SB12	16.45	1012, 1099	1086	3.90+0.60/2*1 .10	2.47	2682.42	41.2 2	110569.3 524	921.41127	Rashiklal, Ramsingh
	SB13	12.281	1001, 1002	810	3.90+0.60/2*1 .10	2.47	2000.7	41.2 2	82468.85 4	687.24045	Makardhvaj, Chhatrapal
	SB14	12.198		1106	3.90+0.60/2*1 .10	2.47	1988.35	41.2 2	81959.78 7	682.99822 5	Brajgopal Singh
	SB15	12.359	262, 263	815	3.90+0.60/2*1 .10	2.47	2013.05	41.2 2	82977.92 1	691.48267 5	Pahalvan etc.
	SB16	7.2	921 to 927, 926	475	3.90+0.60/2*1 .10	2.47	1173.25	41.2 2	48361.36 5	403.01137 5	Hariram, Sibba
	PB1	20.507	628, 627, 626, 624	1160	4.20+0.60/2*1 .20	2.88	3340.8	41.2 2	137707.7 76	1147.5648	Thakurdas, Smt. Siyarani
	PB2	14.378	656, 650, 659	814	4.20+0.60/2*1 .20	2.88	2344.32	41.2 2	96632.87 04	805.27392	Disva
	PB3	26.679	1258, 1367, 1366, 1370	1510	4.20+0.60/2*1 .20	2.88	4348.8	41.2 2	179257.5 36	1493.8128	Shivaram, Bhagirah
	PB4	15.437	1351, 1352	874	4.20+0.60/2*1 .20	2.88	2517.12	41.2 2	103755.6 864	864.63072	Bardani, Murlidhar
	PB5	2.066	1332, 1336, 1333	117	4.20+0.60/2*1 .20	2.88	336.96	41.2 2	13889.49 12	115.74576	Shivaram, Bhagirah
	PB6	7.248	1154, 1155	410	4.20+0.60/2*1 .20	2.88	1180.8	41.2 2	48672.57 6	405.6048	Chandrabhan, Ramshnehi
	PB7	11.263		1139	4.20+0.60/2*1 .20	2.88	1837.44	41.2 2	75739.27 68	631.16064	Munna, Mulchandra
	PB8	15.287	897, 896, 898	865	4.20+0.60/2*1 .20	2.88	2491.2	41.2 2	102687.2 64	855.7272	Gulab Singh, Manmohan
	CD2	5.073	665, 664	41	11.50+1.50/2* 2.50	16.25	666.25	47.9 6	266.27791 67	31953.35	Munna

			Belling		40*5	200		0.06	12		
			Cleaning		40*11.50	460		1.35	621		
			Compaction		40*11.50	460		2.05	943		
CD3	6.298	768		52	11.50+1.50/2*	16.25		47.9	337.71833		
			Belling		2.50	845	6	40526.2	33	Tuliya	
			Cleaning		50*5	250		0.06	15		
			Compaction		50*11.50	575		1.35	776.25		
CD4	8.276	788, 789		68	11.50+1.50/2*	16.25		47.9	441.63166		
			Belling		2.50	1105	6	52995.8	67	Pahalvan	
			Cleaning		65*5	325		0.06	19.5		
			Compaction		65*11.50	747.5		1.35	1009.125		
CD5	3.58	887, 886		29	11.50+1.50/2*	16.25		47.9	188.34291		
			Belling		2.50	471.25	6	22601.15	67	Mahipal	
			Cleaning		25*5	125		0.06	7.5		
			Compaction		25*11.50	287.5		1.35	388.125		
CD6	6.911	1637/1		57	11.50+1.50/2*	16.25		47.9	44422.95	370.19125	Ganpati
			Belling		2.50	926.25	6	16.5			
			Cleaning		55*5	275		0.06	16.5		
			Compaction		55*11.50	632.5		1.35	853.875		
CD7	4.815	1209		40	11.50+1.50/2*	16.25		47.9	259.78333		
			Belling		2.50	650	6	31174	33	Smt.Parvti	
			Cleaning		40*5	200		0.06	12		
			Compaction		40*11.50	460		1.35	621		
					40*11.50	460		2.05	943		
CD8	7.142	1623		58	11.50+1.50/2*	16.25		47.9	376.68583		
			Belling		2.50	942.5	6	45202.3	33	Shivaram	
			Cleaning		55*5	275		0.06	16.5		
			Compaction		55*11.50	632.5		1.35	853.875		
					55*11.50	632.5		2.05	1296.625		
CD9	14.988	1320		124	11.50+1.50/2*	16.25		47.9	805.32833		
			Belling		2.50	2015	6	96639.4	33	Lakshmiprasad	

					120*5	600		0.06	36		
					120*11.50	1380		1.35	1863		
					120*11.50	1380		2.05	2829		
CD10	5.182		1082	48	11.50+1.50/2*	16.25	780	47.9	37408.8	311.74	Baiju
					45*5	225		0.06	13.5		
					45*11.50	517.5		1.35	698.625		
					45*11.50	517.5		2.05	1060.875		
CD TOTAL	57.45			517			8401.25		422426.9	5	

2C2A3p1g Village-Guda											
SB1	11.826	281, 698, 1028, 169, 787, 1032	780	3.90+0.60/2*1.10	2.47	1926.6	41.22	79414.452	661.7871	Chandrabhan etc.	
SB2	2.877	785, 1148	190	3.90+0.60/2*1.10	2.47	469.3	41.22	19344.546	161.20455	Makardhvaj etc.	
SB3	10.673	923, 722, 871	705	3.90+0.60/2*1.10	2.47	1741.35	41.22	71778.447	598.153725	Rajendra Kumar etc.	
SB4	5.084	1140, 601, 207	335	3.90+0.60/2*1.10	2.47	827.45	41.22	34107.489	284.229075	Dhanprasad etc.	
SB5	15.06	718, 214, 704	995	3.90+0.60/2*1.10	2.47	2457.65	41.22	101304.333	844.202775	Pravin Kumar, Gyaprasad	
SB6	3.88	178, 844, 553	255	3.90+0.60/2*1.10	2.47	629.85	41.22	25962.417	216.353475	Ramgopal, Munna	
CD1	7.124	1139, 380, 482, 738, 522, 1141, 1142	58	11.50+1.50/2*2.50	16.25	942.5	47.96	45202.3	376.6858333	Brajgopal etc.	
		Belling		55*5	275		0.06	16.5			
		Cleaning		55*11.50	632.5		1.35	853.875			
		Compaction		55*11.50	632.5		2.05	1296.625			
CD2	15.285	90, 625, 522, 483, 539, 1018, 750, 267, 607, 336	126	11.50+1.50/2*2.50	16.25	2047.5	47.96	98198.1	818.3175	Shatrughan etc.	
		Belling		125*5	625		0.06	37.5			
		Cleaning		125*11.50	1437.5		1.35	1940.625			
		Compaction		125*11.50	1437.5		2.05	2946.875			
CD3	12.87	179, 13, 662, 869	105	11.50+1.50/2*2.50	16.25	1706.25	47.96	81831.75	681.93125	Karan Singh etc.	
		Belling		105*5	525		0.06	31.5			
		Cleaning		105*11.50	1207.5		1.35	1630.125			
		Compaction		105*11.50	1207.5		2.05	2475.375			
CD4	9.372	719, 267, 1144, 389,	77	11.50+1.50/2*2.50	16.25	1251.25	47.96	60009.95	500.0829167	Chandrashekhar etc.	

			72, 843, 658							
			Belling	75*5	375	0.06	22.5			
			Cleaning	75*11.50	862.5	1.35	1164.375			
			Compaction	75*11.50	862.5	2.05	1768.125			
CD5	6.989	28, 88, 1003, 470, 599, 325	57	11.50+1.50/2*2.50	16.25	926.25	47.96	44422.95	370.19125	Amarchandra etc.
			Belling	55*5	275	0.06	16.5			
			Cleaning	55*11.50	632.5	1.35	853.875			
			Compaction	55*11.50	632.5	2.05	1296.625			
CD6	11.52	999, 144, 409, 778, 346, 1076	95	11.50+1.50/2*2.50	16.25	1543.75	47.96	74038.25	616.9854167	Kalichandra etc.
			Belling	90*5	450	0.06	27			
			Cleaning	90*11.50	1035	1.35	1397.25			
			Compaction	90*11.50	1035	2.05	2121.75			
CD7	13.21	900, 992, 506, 801, 740, 300, 1008, 1090	108	11.50+1.50/2*2.50	16.25	1755	47.96	84169.8	701.415	Ratiram
			Belling	105*5	525	0.06	31.5			
			Cleaning	105*11.50	1207.5	1.35	1630.125			
			Compaction	105*11.50	1207.5	2.05	2475.375			
CD8	14.23	1059, 1118, 116, 233, 242, 418, 1007, 1004	117	11.50+1.50/2*2.50	16.25	1901.25	47.96	91183.95	759.86625	Dev Singh
			Belling	115*5	575	0.06	34.5			
			Cleaning	115*11.50	1322.5	1.35	1785.375			
			Compaction	115*11.50	1322.5	2.05	2711.125			

2C2A3w2a											
Village-Luhari											
SB1	9.316	56, 69, 62	615	3.90+0.60/2*1.10	2.47	1519.05	41.22	62615.241	521.793675	Munna, Hariram	
SB2	7.709	160, 159, 158, 166	508	3.90+0.60/2*1.10	2.47	1254.76	41.22	51721.2072	431.01006	Kashiprasad, Shripat, Bhanupratap	
SB3	12.675	191, 192, 193, 184, 190	837	3.90+0.60/2*1.10	2.47	2067.39	41.22	85217.8158	710.148465	Mohanlal	
	188, 189										
CD1	11.126	154	91	11.50+1.50/2*2.50	16.25	1478.75	47.96	70920.85	591.0070833	Mohanlal, lakshmiram	
		Belling		90*5	450		0.06	27			
		Cleaning		90*11.50	1035		1.35	1397.25			
		Compaction		90*11.50	1035		2.05	2121.75			
Village-Gorkha											
SB4	6.426	934, 935, 937, 941	430	3.90+0.60/2*1.10	2.47	1062.1	41.22	43779.762	364.83135	Gulab Singh, Smt.Harkuriya	
CD2	17.639	328	84	11.50+1.50/2*2.50	16.25	1365	47.96	65465.4	545.545	Mathura	
		Belling		80*5	400		0.06	24			
		Cleaning		80*11.50	920		1.35	1242			
		Compaction		80*11.50	920		2.05	1886			
		Pucca work						49917			
WHB1	24.693	308, 310, 331	100	12.80+2.00/2*2.70	19.98	1998	49.37	98641.26			
		Belling		100*5	500		0.06	30			
		Cleaning		100*12.80	1280		1.35	1728			
		Compaction		100*12.80	1280		2.05	2624			
		Pucca work						62914			
Village-Vijaypur											
SB5	6.53	835, 842, 849	430	3.90+0.60/2*1.10	2.47	1062.1	41.22	43779.762	364.83135	Shambhudayal, Ramprasad	

2C2A3p2f											
Village-Lidhoura Soyam											
	SB1	8.324	20, 21, 22, 23, 24, 25 to 39	550	3.90+0.60/2*1.10	2.47	1358.5	41.22	55997.37	466.64475	
	SB2	19.691	40 to 56	1300	3.90+0.60/2*1.10	2.47	3211	41.22	132357.42	1102.9785	
	SB3	8.356	57 to 64	550	3.90+0.60/2*1.10	2.47	1358.5	41.22	55997.37	466.64475	
	SB4	7.334	91, 92, 94, 95	484	3.90+0.60/2*1.10	2.47	1195.48	41.22	49277.6856	410.64738	
	SW	20.155	66 to 90						135440	Ramsi	
		115 to 117									
Village-Goarhari											
	CD1	12.293	431, 432, 433, 1783 to 1791	101	11.50+1.50/2*2.50	16.25	1641.25	47.96	78714.35	655.9529167	Ayodhya Prasad
		Belling		100*5		500		0.06	30		
		Cleaning		100*11.50		1150		1.35	1552.5		
		Compaction		100*11.50		1150		2.05	2357.5		
	CD2	8.393	484 TO 496	69	11.50+1.50/2*2.50	16.25	1121.25	47.96	53775.15	448.12625	Ratan
				68*5		340		0.06	20.4		
		Cleaning		68*11.50		782		1.35	1055.7		
		Compaction		68*11.50		782		2.05	1603.1		
	CD3	12.403	651 to 660, 1674 to 1678	102	11.50+1.50/2*2.50	16.25	1657.5	47.96	79493.7	662.4475	Madanpal, Brajendra Singh
				100*5		500		0.06	30		
		Cleaning		100*11.50		1150		1.35	1552.5		
		Compaction		100*11.50		1150		2.05	2357.5		
	CD4	13.466	16.28 to 1635, 1640 to 1646	110	11.50+1.50/2*2.50	16.25	1787.5	47.96	85728.5	714.4041667	Shyam, Vidya Devi, Kishorilal
				110*5		550		0.06	33		
				110*11.50		1265		1.35	1707.75		
				110*11.50		1265		2.05	2593.25		
	SB5	20.256	1766 to 1782	1337	3.90+0.60/2*1.10	2.47	3302.39	41.22	136124.5158	1134.370965	
	SB6	9.541	1792 to 1800	630	3.90+0.60/2*1.10	2.47	1556.1	41.22	64142.442	534.52035	
	SB7	2.889	1813, 1814, 1812	190	3.90+0.60/2*1.10	2.47	469.3	41.22	19344.546	161.20455	
	SB8	18.273	434 to 456	1206	3.90+0.60/2*1.10	2.47	2978.82	41.22	122786.9604	1023.22467	
	SB9	9	457 to 462	594	3.90+0.60/2*1.10	2.47	1467.18	41.22	60477.1596	503.97633	
	SB10	23.641	464 to 493, 490, 491	1560	3.90+0.60/2*1.10	2.47	3853.2	41.22	158828.904	1323.5742	

	SB11	6.293	1665, 1666, 1667	415	$3.90+0.60/2*1.10$	2.47	1025.05	41.22	42252.561	352.104675	
	SB12	9.692	1647 to 1649, 1670, 1672	640	$3.90+0.60/2*1.10$	2.47	1580.8	41.22	65160.576	543.0048	

2C2A3q2f
Village-Bhatevra Kala

CD7	3.96	1243	40	10.00+1.20/2*2.50	14	560	47.96	26857.6	223.8133333	
CD8	3.96	1314	40	10.00+1.20/2*2.50	14	560	47.96	26857.6	223.8133333	Bhagvandas
CD9	3.96	1535	40	10.00+1.20/2*2.50	14	560	47.96	26857.6	223.8133333	Pritam, Surendra
CD10	3.96	1497	40	10.00+1.20/2*2.50	14	560	47.96	26857.6	223.8133333	Nanda
CD11	3.96	1576	40	10.00+1.20/2*2.50	14	560	47.96	26857.6	223.8133333	Khyaliram
CD12	2.96	1583	30	10.00+1.20/2*2.50	14	420	47.96	20143.2	167.86	Mutiya
CD13	3.96	1468, 1467	40	10.00+1.20/2*2.50	14	560	47.96	26857.6	223.8133333	Shambhu
CD14	3.96	1472, 1476	40	10.00+1.20/2*2.50	14	560	47.96	26857.6	223.8133333	Shambhu
WHB2	19.97	1300	100	11.50+1.50/2*2.50	16.25	1625	47.96	77935	649.4583333	Sajjan Singh
		Pucca work						90000		

Village-Dhanavan

SB1	2.74	257, 258, 259, 260	120	3.00+0.60/2*1.20	2.16	259.2	41.22	10684.224	89.0352	Shashika
CD1	4.94		121	50	10.00+1.20/2*2.50	14	700	47.96	33572	279.7666667
CD2	4.94		86	50	10.00+1.20/2*2.50	14	700	47.96	33572	279.7666667
CD3	3.96		65	40	10.00+1.20/2*2.50	14	560	47.96	26857.6	223.8133333
CD4	4.94	76, 80		50	10.00+1.20/2*2.50	14	700	47.96	33572	279.7666667
CD5	3.96		74	40	10.00+1.20/2*2.50	14	560	47.96	26857.6	223.8133333
CD6	18.13		173	60	10.00+1.20/2*2.50	14	840	47.96	40286.4	335.72
CD15	20.64	288, 289		90	10.00+1.20/2*2.50	14	1260	47.96	60429.6	503.58
CD16	26.12	33, 379.		130	10.00+1.20/2*2.50	14	1820	47.96	87287.2	727.3933333
Pucca work								252733		
WHB1	21.16	242, 243		100	11.50+1.50/2*2.50	16.25	1625	47.96	77935	649.4583333
WHB3	21.87	203, 6		120	11.50+1.50/2*2.50	16.25	1950	47.96	93522	779.35
WHB4	24.87	360, 362		140	11.50+1.50/2*2.50	16.25	2275	47.96	109109	909.2416667
Pucca work								290000		

Village-Andvara

	CD17	4.94	186	50	10.00+1.20/2*2.50	14	700	47.96	33572	279.7666667	Gyaprasad
	WHB5	18.53	252	200	11.50+1.50/2*2.50	16.25	3250	47.96	155870	1298.916667	Brajbhushan

Village-Gourhari

	SB2	11.5	501, 366, 365, 352	500	3.00+0.60/2*1.20	2.16	1080	41.22	44517.6	370.98	Jitendra, Prakashrani
	SB3	6.84	350, 349, 347	300	3.00+0.60/2*1.20	2.16	648	41.22	26710.56	222.588	Rajkuvar
	SB4	8	337	350	3.00+0.60/2*1.20	2.16	756	41.22	31162.32	259.686	
	PB1	15.24	237, 238, 209, 210	400	4.00+1.00/2*1.20	3.75	1500	41.22	61830	515.25	Gopal, Mangal
	PB2	17.15	257, 258, 259	450	4.00+1.00/2*1.20	3.75	1687.5	41.22	69558.75	579.65625	Parmeshvaridayal, Suniya
	CD18	5.04	357	50	10.00+1.20/2*2.50	14	700	47.96	33572	279.7666667	Yashodanandan

2C2A3q2b

Village-Kheda Nankari

	CD2	13.15	175	90	12.00+2.00/2*3.00	21	1890	51.08	96541.2	804.51	Bhukaiya Pal
	CD3	7.3	199, 203	50	12.00+2.00/2*3.00	21	1050	51.08	53634	446.95	Smt.Lila Devi, Tara Devi etc.
	CD4	6.1	230, 231	40	12.00+2.00/2*3.00	21	840	51.08	42907.2	357.56	Basantlal, Rameshchandra etc.

Village-Nonka

	PB1	17.16	307, 320	400	5.00+0.80/2*1.50	4.35	1740	41.22	71722.8	597.69	Motilal, Amarchandra
	PB2	7.72	324, 326	180	5.00+0.80/2*1.50	4.35	783	41.22	32275.26	268.9605	Rameshvar etc.

Village-Bhatevra Kala

	SB1	9.51	716, 717, 1852	250	4.00+0.30/2*1.50	3.6	900	41.22	37098	309.15	Harcharan, Parshuram etc.
	SB2	4.56	1841, 725	120	4.00+0.30/2*1.50	3.6	432	41.22	17807.04	148.392	Damru, Babu etc.
	SB3	8.75	1928, 1931	230	4.00+0.30/2*1.50	3.6	828	41.22	34130.16	284.418	Binka, Dr.Ghasita
	CD1	7.3	627, 619	50	12.00+2.00/2*3.00	21	1050	51.08	53634	446.95	Nandram, Suraj etc.
	CD5	4.38	677	30	12.00+2.00/2*3.00	21	630	51.08	32180.4	268.17	Jagannath
	CD6	28.7	522	60	16.00+2.00/2*3.50	31.5	1890				Balram
	Old work			45	9.00+1.00/2*1.40	7	315				
	New work						1575	54.64	86058	717.15	
	Pucca work								120000		
	CD7	22.39	672	60	12.00+2.00/2*3.00	21	1260	51.08	64360.8	536.34	Jagannath etc.
	Pucca work								100000		
	CD8	10.22	774, 775	70	12.00+2.00/2*3.00	21	1470	51.08	75087.6	625.73	Lakshmi Prasad etc.
	CD9	5.85	652	40	12.00+2.00/2*3.00	21	840	51.08	42907.2	357.56	Jagannath etc.
	WHB1	35.64	581, 582	150	14.00+2.00/2*3.00	24	3600	51.08	183888	1532.4	Shivapati, Devideen etc.

2C2A3w2d													
Village-Gorkha													
	SB1	6	1960	140	4.00+0.80/2*1.70	4.08	571.2	41.22	23544.86	196.207	Shivaram Singh etc.		
	PB1	15.41	765	200	6+1.80/2*2.00	7.8	1560	41.22	64303.2	535.86	krapal etc.		
	PB2	7.71	1725	100	6+1.80/2*2.00	7.8	780	41.22	32151.6	267.93	Kishorilal		
	MB1	9.39	1647, 1651	150	5.00+1.00/2*2.00	6	900	41.22	37098	309.15	Lakhan, Hira Singh etc.		
	MB2	4.38	1709, 1710, 1711	70	5.00+1.00/2*2.00	6	420	41.22	17312.4	144.27	Mulchandra, Shivanarayan		
	MB3	5.03	1699, 1700	80	5.00+1.00/2*2.00	6	480	41.22	19785.6	164.88	Ajaypratap Singh, Bhagirath etc.		
	CD1	23.94	761	60	11.00+2/2*3	19.5	1170	54.48	63741.6	531.18	Laldiman		
	CD2	9.32	761, 763	60	11.00+2/2*3	19.5	1170	54.48	63741.6	531.18	Laldiman, Krapal		
	CD3	7.76	1406	50	11.00+2/2*3	19.5	975	54.48	53118	442.65	Ganpat		
	CD4	7.76	1413	50	11.00+2/2*3	19.5	975	54.48	53118	442.65	Duliya, Banti		
	CD5	9.32	1983	60	11.00+2/2*3	19.5	1170	54.48	63741.6	531.18	Krapal Singh		
	Pucca work								100000				
	WHB1	20.72	1725	70	13+2/2*3.00	22.5	1575	54.48	85806	715.05	Kishorilal etc.		
	WHB2	20.44	1397, 1398	60	13+2/2*3.00	22.5	1350	54.48	73548	612.9	Rajaram		
	WHB3	21.9	1994	70	13+2/2*3.00	22.5	1575	54.48	85806	715.05	Ramcharan		
	Pucca work								290000				

Village-Chhedi Mau

	SB2	7.71	620, 622, 625	180	4.00+0.80/2*1.70	4.08	734.4	41.22	30271.97	252.266	Baladeen, Ghanshyam etc.		
	SB3	6	637, 639	140	4.00+0.80/2*1.70	4.08	571.2	41.22	23544.86	196.207	Bhagvat, Mohanlal		
	SB4	4.29	633	100	4.00+0.80/2*1.70	4.08	408	41.22	16817.76	140.148	Lakanlal		
	WHB4	31.94	350, 356	130	13+2/2*3	22.5	2925	54.48	159354	1327.95	Ramnarayan, Ramshvarup etc.		
	Pucca work								111812				

Village-Rampura Kadim

	CD6	10.87	9,10,12	70	11.00+2/2*3	19.5	1365	54.48	74365.2	619.71	Abhaypratap, Dev Singh etc.	Rampal Singh	
	CD7	9.32	87	60	11.00+2/2*3	19.5	1170	54.48	63741.6	531.18	Dhaniram, Bhagirath		
	CD8	7.79	105	50	11.00+2/2*3	19.5	975	54.48	53118	442.65	Rupnarayan		

2C2A3p1e
Village-Gourhari

	CD1	53.89 4	1187, 1183 to 1189, 1251 to	24 0	12+2/2*2.5	2.5	600	51.0 8	30648	255.4	Rajbahadur etc.
	New work		1254, 1268 to 1281								
	Belling		1291 to 1320		240*5	1200		0.06 9	82.8		
	Cleaning		1360 to 1369		240*12	2880		1.35	3888		
	Compactio n				240*12	2880		2.05	5904		
	Pucca work								150000		
	CD2	18.58 5	1351, 1352	24 0	9.5+1.5/2*2	11	2640	44.3 4	117057. 6		Parshuram, Shankarlal etc.
	New work		1348 to 1352								
	Belling		1356, 1395 to 1398		240*5	1200		0.06 9	82.8		
	Cleaning		1399 to 1404		240*9.5	2280		1.35	3078		
	Compactio n				240*9.5	2280		2.05	4674		
	CD3	10.58 8	1386, 1387	15 0	9+1/2*2	10	1500	44.3 4	66510		Babulal, Bhagirath etc.
	New work.										
	Belling				150*5	750		0.06 9	51.75		
	Cleaning				150*9	1350		1.35	1822.5		
	Compactio n				150*9	1350		2.05	2767.5		
	CD4	35.51 9	1370	18 0	15.5+2.5/2*2.8	25.2	4536				Ravindra Singh
	Old work			50	3.5+0.5/2*0.50	1	50				
	New work						4486	51.0 8	229144. 9		
	Belling				180*5	900		0.06 9	62.1		
	Cleaning				180*15.5	2790		1.35	3766.5		
	Compactio n				180*15.5	2790		2.05	5719.5		
	CD5	19.01	1519, 1518	15	9+2/2*2	11	1650	44.3	73161		Prabhudayal, Lakan Singh

	8		0			4			
New work									
Belling			150*5	750		0.06 9	51.75		
Cleaning			150*9	1350		1.35	1822.5		
Compactio n			150*9	1350		2.05	2767.5		
Pucca work							50000		

Village-Guda

CD6	55.06 8	418, 1009	25 0	12+2/2*2.5	17.5	4375	47.9 6	209825	Dev Singh, Shivanandan
New work		625, 617, 411, 586, 176, 1046,							
Belling		1132, 214, 692, 508, 872, 236,		250*5	1250		0.06 9	86.25	
Cleaning		497, 798, 483, 801, 938, 1026		250*12	3000		1.35	4050	
Compactio n				250*12	3000		2.05	6150	
Pucca work								150000	
CD7	26.90 6	160, 57	15 0	13.7+2.5/2*2.8 0	22.6 8	3402	51.0 8	173774. 2	Jayprakash, Omprakash
New work		402, 826, 284, 491, 421							
Belling		204, 441, 393		150*5	750		0.06 9	51.75	
Cleaning		438, 181, 884		150*13.7	2055		1.35	2774.25	
Compactio n				150*13.7	2055		2.05	4212.75	
CD8	15.72 3	1145, 500	12 0	12+2/2*2.5	17.5	2100	47.9 6	100716	Jagdish, Pratap
New work		1145, 1051, 492, 423, 442							
Belling		640, 493, 756, 215		120*5	600		0.06 9	41.4	
Cleaning				120*12	1440		1.35	1944	
Compactio				120*12	1440		2.05	2952	

	n										
	CD9	44.06 9	942, 65, 557, 621, 818	25 0	12+2/2*2.5	17.5	4375	47.9 6	209825		Ramdas, Rambabu
	New work		49, 48, 78, 640, 300, 578, 422								
	Belling		953, 35, 71, 996, 302, 1176		250*5	1250		0.06 9	86.25		
	Cleaning		1044, 885, 36		250*12	3000		1.35	4050		
	Compaction				250*12	3000		2.05	6150		
	Pucca work								76035		

2C2A3p1h Village-Guda											
SB1	6.861	463	452	3.90+0.60/2*1.10	2.47	1116.44	41.22	46019.66	383.49714	Nathuram, Motilal	
SB2	0.811	86	53	3.90+0.60/2*1.10	2.47	130.91	41.22	5396.11	44.967585	Kishoro	
SB3	4.792	656, 211.	316	3.90+0.60/2*1.10	2.47	780.52	41.22	32173.03	268.10862	Ghanshyam, Munnilal, Chandrabhan	
SB4	0.808	964	53	3.90+0.60/2*1.10	2.47	130.91	41.22	5396.11	44.967585	Sukhdev, Harprasad etc.	
SB5	3.219	707, 454, 711, 87	212	3.90+0.60/2*1.10	2.47	523.64	41.22	21584.44	179.87034	Man Singh, Mangal, Kishorilal	
SB6	5.014	606	330	3.90+0.60/2*1.10	2.47	815.1	41.22	33598.42	279.98685	Vishvanath	
SB7	9.292	105, 397	613	3.90+0.60/2*1.10	2.47	1514.11	41.22	62411.61	520.096785	Dinesh Kumar, Krashan Kumar	
SB8	5.849	262	386	3.90+0.60/2*1.10	2.47	953.42	41.22	39299.97	327.49977	Channu	
PB1	2.558	316, 111	168	3.90+0.60/2*1.10	2.47	414.96	41.22	17104.65	142.53876	Rameshvar, kunvarman	
PB2	7.161	933, 510, 401, 481, 1136, 962	472	3.90+0.60/2*1.10	2.47	1165.84	41.22	48055.92	400.46604	Pratap, Ratan	
CD1	5.17	362	42	11.50+1.50/2*2.50	16.25	682.5	47.96	32732.7	272.7725	Channu, Ramgopal	
				42*5	210		0.06	12.6			
				42*11.50	483		1.35	652.05			
				42*11.50	483		2.05	990.15			
CD2	18.465	1127		11.50+1.50/2*2.50	16.25	0	47.96	0		Shripat	

ANNEXURE-II
LIVELIHOOD ACTION PLAN

Annual Action Plan for Livelihood (Physical & Financial)

Project - IWMP-XXIII			PIA- PIA-Soil Conservation Division, Kulpahar						District - Mahoba			
S. No	Physical and financial targets	Unit	First Year		Second Year		Third Year		Fourth Year		Total Project	
			2011-12	2012-13	2013-14	2014-15	2011-12	2012-13	2013-14	2014-15		
			Physic al	Financi al	Physic al	Financi al	Physic al	Financi al	Physic al	Financi al	Physic al	Financi al
1	Livelihood activities through SHG's											
	(1) Activity Goatary											
	(a) No. of SHG's	No.	0	0.00	17	4.16	17	4.16	4	0.93	37	9.25
	(b) No. of members	No.	0	0.00	167	0.00	167	0.00	37	0.00	370	0.00
	(c) Estimated income per year	Rs.	0	0.00							0	0.00
	(2) Activity- Back Yard Poultry		0	0.00							0	0.00
	(a) No. of SHG's	No.	0	0.00	15	3.83	15	3.83	3	0.85	34	8.50
	(b) No. of members	No.	0	0.00	153	0.00	153	0.00	34	0.00	340	0.00

	(c) Estimated income per year	Rs.	0	0.00						0	0.00	
	(3) Activity- Poultry , Broiler		0	0.00						0	0.00	
	(a) No. of SHG's	No.	0	0.00	13	3.26	13	3.26	3	0.73	29	7.25
	(b) No. of members	No.	0	0.00	131	0.00	131	0.00	29	0.00	290	0.00
	(c) Estimated income per year	Rs.	0	0.00							0	0.00
	(4) Black Smithy										0	0.00
	(a) No. of SHG's	No.	0	0.00	9	2.36	9	2.36	2	0.53	21	5.25
	(b) No. of members	No.	0	0.00	95	0.00	95	0.00	21	0.00	210	0.00
	(c) Estimated income per year	Rs.	0	0.00		0.00	0	0.00	0	0.00	0	0.00
	(5) Rope making										0	0.00
	(a) No. of SHG's	No.	0	0.00	8	2.03	8	2.03	2	0.45	18	4.50
	(b) No. of members	No.	0	0.00	81	0.00	81	0.00	18	0.00	180	0.00
	(c) Estimated income per year	Rs.	0	0.00							0	0.00
	(6) Tailoring										0	0.00
	(a) No. of SHG's	No.	0	0.00	9	2.14	9	2.14	2	0.48	19	4.75

**Livelihood Option for Village Groups / Community
Input supplied to Interested Groups/ SHGs**

Sr. No.	Name of Activity *	Name of input	Quantity/	Rate	No of IG / SHGs	Total Amount (Rs)
1	Organic complex	Red worms (<i>Eisinia fetida</i>) <i>NADEP</i>	2 q 10 Nos	25000 5000	4 (40 FF)	100000.00
2	Goat kids	Kids	40 Nos	1200	2 (20 FF)	48000.00
		Adult	02	2500		5000.00
3	Goat rearing	Female	10 Nos	3000	1 (10 FF)	30000.00
		Adult	01	3000		3000.00
4	Motor / Diesel repairing	Tool Kit	All tools	25000	1	25000.00
5	Masala Grinding	Pulvelizer	02	37000	2 (20 FF)	74000.00
6	Oil Expeller	Oil Expeller	01	84000	1 (10 FF)	84000.00
7	Poultry (Broiler)	Chicks	1000	25 per chicks	1 (10 FF)	25000.00
8	Wooden furniture	Instruments	01	61000	1 (10 FF)	61000.00
9	Mini Dal Mill	Machine	01	42000	1 (10 FF)	42000.00
10	Dairy	Buffaloes / Cows	10	25000	1 (10 FF)	250000.00
11	Back yard Poultry	Chicks	2000	18	2 (20 FF)	36000.00
12	Linseed rope making	Rope making machine	01	35000	1 (10 FF)	35000.00
13	Organic production	Registration	100 ha	6000	5	120000.00
14	Tailoring	Sieving Machine	5 in 01 SHG	25000	2	25000.00

Note: Maximum Seed Money will be Rs 25000/- for one SHG / Individual. Repayment limit up to 18 months.

ANNEXURE-III

1. Annual Action Plan for Agriculture Production System & Micro Enterprises (Physical & Financial)

	(4) Animal husbandry									0	0.00	
	A. fodder production	No. of Units / Farmers	0	0.00	269	1.62	269	1.62	60	0.36	598	3.59
	B. Vaccination/Medication	No. of Animals			303	0.17	303	0.17	67	0.04	674	0.38
	C. Artificial Insemination	No. of Animals			302	0.12	302	0.12	67	0.03	671	0.27
	D. Natural Service.	He Buffalo			10	2.38	10	2.38	2	0.53	22	5.28

2. ESTIMATES OF DIFFERENT PARTICIPATORY CROP TRIALS

Pulses		Rabi			
Integrated Crop Management	Lentil				
Area of Demonstration - 0.40 ha					
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed			
1. Name of Varieties	Narendra Masoor-1, DPL-15, L-4076, Pusa Vaibhav	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi			
	Late- IPL-81, K-75				
2. Sowing Time	IInd week of October				
		Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)	
3. Required Seed	50 kg / ha (F1,F2, Certified)	80	4000	2000.00	
7. Use Weedicde	Pendimethalin 3.3 li/ha	465	1535	767.25	
	(Pre emergence)				
11. Bio Fertilizers/Bio-agents					
i) Azatobactor + PSB	-				
ii) Rhizobium + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	75	37.50	
iii) Trichoderma	1.50 kg /ha (Soil treatment)	136	204	102.00	
12. Recommended dose of fertilizers					
25:60:30 NPK					
i) DAP*	130 kg	15	1950	975.00	
ii) SSP*	375 kg	8	3000	1500.00	
iii) Urea	In case of SSP 54 kg Urea applied	6	324	162.00	
iv) MOP	50 kg	7	350	175.00	
* Either one	40 kg /ha Sulphur added if SSP used				
13. IPM					

Spray of Neem Seed Kernal		10	30	300	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	124		62.00
Insecticides/Fungicides	If required One Dusting of Methyle Parathion powder				
	25 kg / ha	25	625		312.50
	Total (Less SSP)				4743.25
Integrated Crop Management	Chickpea				
Area of Demonstration - 0.40 ha					
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed			
1. Name of Varieties	KGD-1168, KWR-108, Pusa-256, Pusa-367	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi			
	Late- Udai				
2. Sowing Time	1st week of October	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)	
3. Required Seed	80 kg / ha (F1,F2, Certified)	65	5200	2600.00	
7. Use Weedicde	Pendimethalin 3.3 li/ha (Pre emergence)	465	1535	767.25	
11. Bio Fertilizers/Bio-agents					
i) Azatobactor + PSB	-				
ii) Rhizobium + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	75	37.50	
iii) Trichoderma	1.50 kg /ha (Soil treatment)	136	204	102.00	
12. Recommended dose of fertilizers					
25:60:30 NPK					
i) DAP*	130 kg	15	1950	975.00	

ii) SSP*	375 kg	8	3000	1500.00
iii) Urea	In case of SSP 54 kg Urea applied	6	324	162.00
iv) MOP	50 kg	7	350	175.00
* Either one	40 kg /ha Sulphur added if SSP used			
13. IPM				
Spray of Neem Seed Kernal	10	30	300	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	124	62.00
NPV	250 LE /ha at the time pod formation	200	200	100.00
Insecticides/Fungicides	If required One Dusting of Methyle Paratheon powder			
	25 kg / ha	25	625	312.50
	Total (Less SSP)			5443.25
Integrated Crop Management	Field Pea			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	KMPR-400, KPMR-522, Rachna, Shikha	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time	IInd week of October	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	100 kg / ha (F1,F2, Certified)	60	6000	3000.00
7. Use Weedicide	Pendimethalin 3.3 li/ha (Pre emergence)	465	1535	767.25
11. Bio Fertilizers/Bio-agents				

i) Azatobactor + PSB	-			
ii) Rhizobium + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	75	37.50
iii) Trichoderma	1.50 kg /ha (Soil treatment)	136	204	102.00
12. Recommended dose of fertilizers				
25:60:30 NPK				
i) DAP*	130 kg	15	1950	975.00
ii) SSP*	375 kg	8	3000	1500.00
iii) Urea	In case of SSP 54 kg Urea applied	6	324	162.00
iv) MOP	50 kg	7	350	175.00
* Either one	40 kg /ha Sulphur added if SSP used			
13. IPM				
Spray of Neem Seed Kernal	10	30	300	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	124	62.00
Insecticides/Fungicides	If required One Dusting of Methyle Parathione powder			
	25 kg / ha	25	625	312.50
	Total (Less SSP)			5743.25
Integrated Crop Management	Urd			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	Shekhar-2, Azad-1, PU-35, Narendra Urd-1	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time	Last week of July			

		Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	16 kg / ha (F1,F2, Certified)	100	1600	800.00
7. Use Weedicide	Pendimethalin 3.3 li/ha (Pre emergence)	465	1535	767.25
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	-			
ii) Rhizobium + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	75	37.50
iii) Trichoderma	1.50 kg /ha (Soil treatment)	136	204	102.00
12. Recommended dose of fertilizers				
25:60:30 NPK				
i) DAP*	130 kg	15	1950	975.00
ii) SSP*	375 kg	8	3000	1500.00
iii) Urea	In case of SSP 54 kg Urea applied	6	324	162.00
iv) MOP	50 kg	7	350	175.00
* Either one	40 kg /ha Sulphur added if SSP used			
13. IPM				
Spray of Neem Seed Kernal		10	30	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	124	62.00
Insecticides/Fungicides	If required One Dusting of Methyle Paratheon powder			
	25 kg / ha	25	625	312.50
	Total (Less SSP)			3543.25

Integrated Crop Management	Moong			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	T.M-9937, Meha, Pant Moong-1,2 Late- Type-44, Samrat	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time	Last week of June	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	16 kg / ha (F1,F2, Certified)	100	1600	800.00
	Pendimethalin 3.3 li/ha (Pre emergence)	465	1535	767.25
7. Use Weedicde				
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	-			
ii) Rhizobium + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	75	37.50
iii) Trichoderma	1.50 kg /ha (Soil treatment)	136	204	102.00
12. Recommended dose of fertilizers				
25:60:30 NPK				
i) DAP*	130 kg	15	1950	975.00
ii) SSP*	375 kg	8	3000	1500.00
iii) Urea	In case of SSP 54 kg Urea applied	6	324	162.00
iv) MOP	50 kg	7	350	175.00
* Either one	40 kg /ha Sulphur added if SSP used			
13. IPM				
Spray of Neem Seed Kernal	10	30	300	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	124	62.00

NPV	250 LE /ha at the time pod formation	200	200	100.00
Insecticides/Fungicides	If required One Dusting of Methyle Paratheon powder			
	25 kg / ha	25	625	312.50
	Total (Less SSP)			3643.25
Integrated Crop Management	Arhar			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	Paras, UPAS-120, Type-21, Pusa-992 (Wilt rest.) Late- Bahar, Narendra Arhar-1, Azad	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time	Late- Month July Early Last Week of June	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	20 kg / ha (F1,F2, Certified)	120	2400	1200.00
7. Use Weedicde	-	-	-	-
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	-			
ii) Rhizobium + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	75	37.50
iii) Trichoderma	1.50 kg /ha (Soil treatment)	136	204	102.00
12. Recommended dose of fertilizers				

15:45:20	NPK				
i) DAP*	100 kg	15	1500	750.00	
ii) SSP*	250 kg	8	2000	1000.00	
iii) Urea	In case of SSP 54 kg Urea applied	6	324	162.00	
iv) MOP	50 kg	7	350	175.00	
* Either one	30 kg /ha Sulphur added if SSP used				
13. IPM					
Spray of Neem Seed Kernal		10	30	300	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	124	62.00	
Insecticides/Fungicides	If required One Dusting of Methyle Paratheon powder				
	25 kg / ha	25	625	312.50	
	Total				2951.00
Integrated Crop Management	Linseed				
Area of Demonstration - 0.40 ha					
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed			
1. Name of Varieties	Sweta, Subhra, Garima, Shekhar, Parwati Late- Laxmi-27, Padmini	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi			
2. Sowing Time	Mid October	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)	
3. Required Seed	30 kg / ha (F1,F2, Certified)	75	2250	1125.00	
7. Use Weedicide	-	-	-	-	

11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	75	37.50
ii) Rhizobium + PSB	-	-	-	-
iii) Trichoderma	-	-	-	-
12. Recommended dose of fertilizers				
50:40:40 NPK				
i) DAP*	125 kg	15	1875	937.50
ii) SSP*	275 kg	8	2200	1100.00
iii) Urea	50 kg	6	300	150.00
iv) MOP	50 kg	7	350	175.00
* Either one	30 kg /ha Sulphur added if SSP used			
13. IPM				
Spray of Neem Seed Kernal	10	30	300	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	124	62.00
Insecticides/Fungicides	If required One Dusting of Methyle Parathion powder			
	25 kg / ha	25	625	312.50
	Total (Less SSP)			2949.50
Integrated Crop Management	Mustard			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	Varuna, Kranti, Rohini, Vaibhav,	C. S. A. University of Ag. & Technology, Kanpur, Indian		

	Pusa Bold Late-Ashirvad, Vardan	Institute of Pulse Research, Kalyanpur Kanpur, IARI, Pusa New Delhi		
2. Sowing Time	October first week	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	6 kg / ha (F1,F2, Certified)	150	900	450.00
7. Use Weedicde	-	-	-	-
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	75	37.50
ii) Rhizobium + PSB	-	-	-	-
iii) Trichoderma	-	-	-	-
12. Recommended dose of fertilizers				
60:50:30 NPK				
i) DAP*	180 kg	15	2700	1350.00
ii) SSP*	275 kg	8	2200	1100.00
iii) Urea	75 kg	6	450	225.00
iv) MOP	50 kg	7	350	175.00
* Either one	30 kg /ha Sulphur added if SSP used			
13. IPM				
Spray of Neem Seed Kernal	10	30	300	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	124	62.00
Insecticides/Fungicides	If required One Dusting of Methyle Parathion powder			
	25 kg / ha	25	625	312.50
	Total (Less SSP)			2762.00

Integrated Crop Management	Toriya			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	Type-9, PT-303, PT-30 Late-Bhawani	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time	First Fortnight of September	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	4 kg / ha (F1,F2, Certified)	200	800	400.00
7. Use Weedicide	-	-	-	-
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	75	37.50
ii) Rhizobium + PSB	-	-	-	-
iii) Trichoderma	-	-	-	-
12. Recommended dose of fertilizers				
50:30:30 NPK				
i) DAP*	125 kg	15	1875	937.50
ii) SSP*	275 kg	8	2200	1100.00
iii) Urea	50 kg	6	300	150.00
iv) MOP	50 kg	7	350	175.00
* Either one	30 kg /ha Sulphur added if SSP used			
13. IPM				
Spray of Neem Seed Kernal		10	30	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	124	62.00

Insecticides/Fungicides	If required One Dusting of Methyle Parathion powder			
	25 kg / ha	25	625	312.50
	Total (Less SSP)			2224.50
Integrated Crop Management Til (Sesamum)				
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	Type-4,12,13,78, Shekhar Late- Pragati, Tarun	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time	June last week to July 15	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	4 kg / ha (F1,F2, Certified)	150	600	300.00
7. Use Weedicde	-	-	-	-
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	75	37.50
ii) Rhizobium + PSB	-	-	-	-
iii) Trichoderma	-	-	-	-
12. Recommended dose of fertilizers				
30:15:25 NPK				
i) DAP*	80 kg	15	1200	600.00
ii) SSP*	225 kg	8	1800	900.00
iii) Urea	30 kg	6	180	90.00
iv) MOP	40 kg	7	280	140.00
* Either one	30 kg /ha Sulphur added if SSP used			

13. IPM				
Spray of Neem Seed Kernal	10	30	300	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	124	62.00
Insecticides/Fungicides	If required One Dusting of Methyle Paratheon powder			
	25 kg / ha	25	625	312.50
	Total (Less SSP)			1692.00
Integrated Crop Management	Wheat			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	UP-2338,WH-542,PBW-343,502,550,K-9006,307	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time	Mid October to first week of Nov	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	100 kg / ha (F1,F2, Certified)	25	2500	1250.00
7. Use Weedicde	Total - at 28 to 32 at after sowing	950	950	475.00
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	75	37.50
ii) Rhizobium + PSB	-	-	-	-
iii) Trichoderma	1.50 kg /ha (Soil treatment)	136	204	102.00
12. Recommended dose of fertilizers				
120:60:40 NPK				
i) DAP*	325 kg	15	4875	2437.50

ii) SSP*	-	-	-	0.00
iii) Urea	100 kg	6	600	300.00
iv) MOP	80 kg	7	560	280.00
v) Zinc	30 kg /ha	25	750	375.00
13. IPM				
Spray of Neem Seed Kernal	10	30	300	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	124	62.00
Insecticides/Fungicides	If required One Dusting of Methyle Parathion powder			
	25 kg / ha	25	625	312.50
	Total (Less SSP)			5781.50
Integrated Crop Management	Maize			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	Hyb. Duccan-103, 105, Sankul-Dhawal, Shakti-1, Popcorn- Amber, V.L. Amber, Perl popcorn	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time	15 Oct. to 15 Nov.	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	22 kg / ha (F1,F2, Certified)	60	1320	660.00
4. Seed Treatment	Thirum & 25 ml Chloropiryphose	60	60	30.00
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	75	37.50
ii) Rhizobium + PSB	-	-	-	-

iii) Trichoderma	1.50 kg /ha (Soil treatment)	136	204	102.00
12. Recommended dose of fertilizers				
100:60:40 NPK				
i) DAP*	265 kg	15	3975	1987.50
ii) SSP*	-	-	-	0.00
iii) Urea	80 kg	6	480	240.00
iv) MOP	50 kg	7	350	175.00
v) Zinc	-	-	-	0.00
13. IPM				
Spray of Neem Seed Kernal	10	30	300	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	124	62.00
Insecticides/Fungicides	If required One Dusting of Methyle Paratheon powder			
	25 kg / ha	25	625	312.50
	Total (Less SSP)			3756.50
Integrated Crop Management	Maize			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	Hybrid- Ganga-11, Sartaj, Prakash, Pusa Hybrid Maize5, Composite-Prabhat, Navjyoti, Pusa Composite-2, Naveen	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time	Mid June	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	20 kg / ha (F1,F2, Certified)	40	800	400.00
4. Seed Treatment	Thirum & 25 ml Chloropiryphose	60	60	30.00

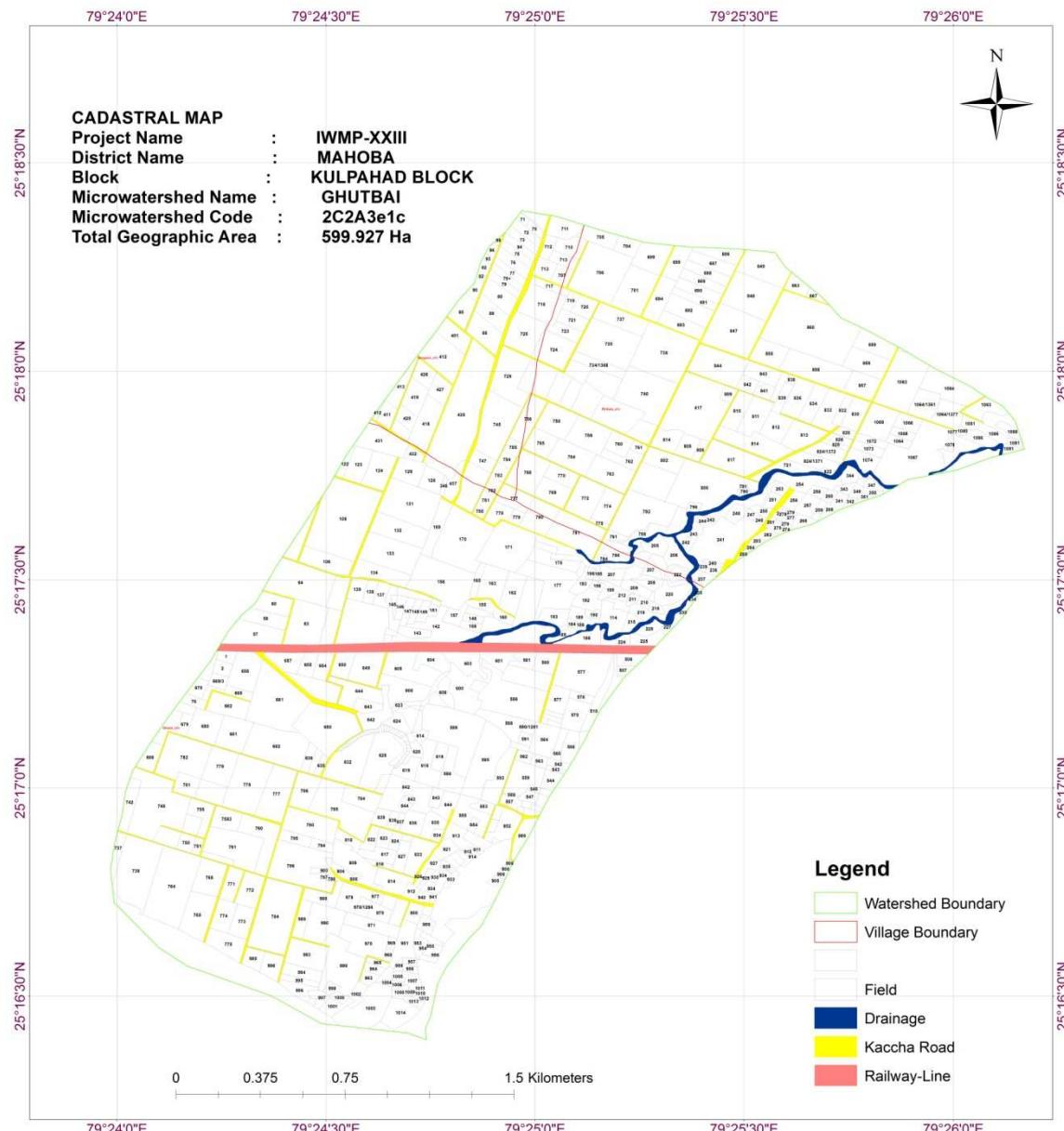
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	75	37.50
ii) Rhizobium + PSB	-	-	-	-
iii) Trichoderma	1.50 kg /ha (Soil treatment)	136	204	102.00
12. Recommended dose of fertilizers				
100:60:40 NPK				
i) DAP*	265 kg	15	3975	1987.50
ii) SSP*	-	-	-	0.00
iii) Urea	80 kg	6	480	240.00
iv) MOP	50 kg	7	350	175.00
v) Zinc	-	-	-	0.00
13. IPM				
Spray of Neem Seed Kernal		10	30	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	124	62.00
Insecticides/Fungicides	If required One Dusting of Methyle Parathion powder			
	25 kg / ha	25	625	312.50
	Total (Less SSP)			3496.50
Integrated Crop Management	Sorghum			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	CSV-13, 15, 1616, Bundela. CSH-16	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time				

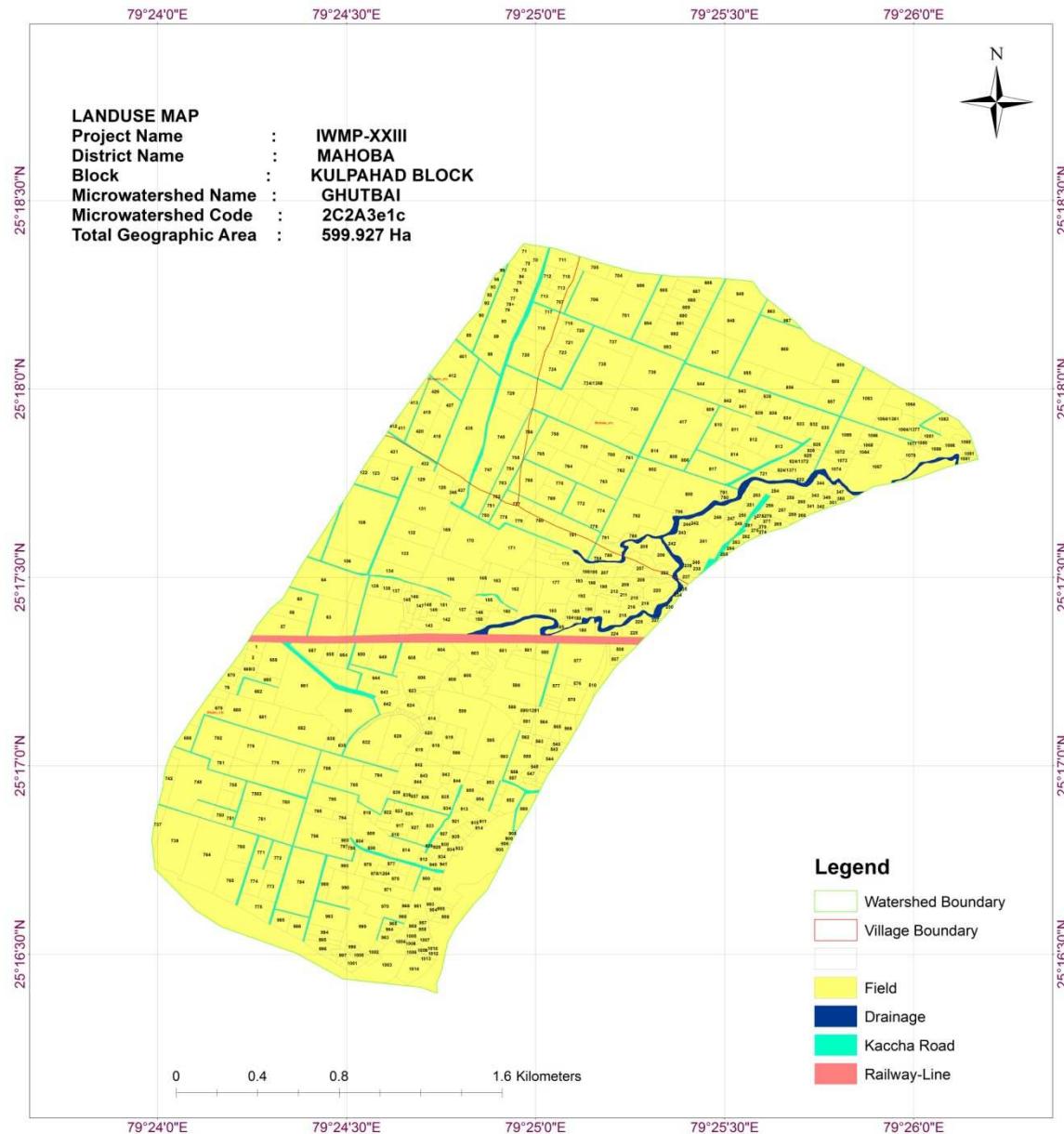
	June last to July first week	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	12 kg / ha (F1,F2, Certified)	40	480	240.00
	Thirum & 25 ml Chloropiryphose	60	60	30.00
4. Seed Treatment				
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	75	37.50
ii) Rhizobium + PSB	-	-	-	-
iii) Trichoderma	1.50 kg /ha (Soil treatment)	136	204	102.00
12. Recommended dose of fertilizers				
80:40:20 NPK				
i) DAP*	280 kg	15	4200	2100.00
ii) SSP*	-	-	-	0.00
iii) Urea	100 kg	6	600	300.00
iv) MOP	80 kg	7	560	280.00
v) Zinc	-	-	-	0.00
13. IPM				
Spray of Neem Seed Kernal	10	30	300	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	124	62.00
Insecticides/Fungicides	If required One Dusting of Methyle Paratheon powder			
	25 kg / ha	25	625	312.50
	Total (Less SSP)			3614.00

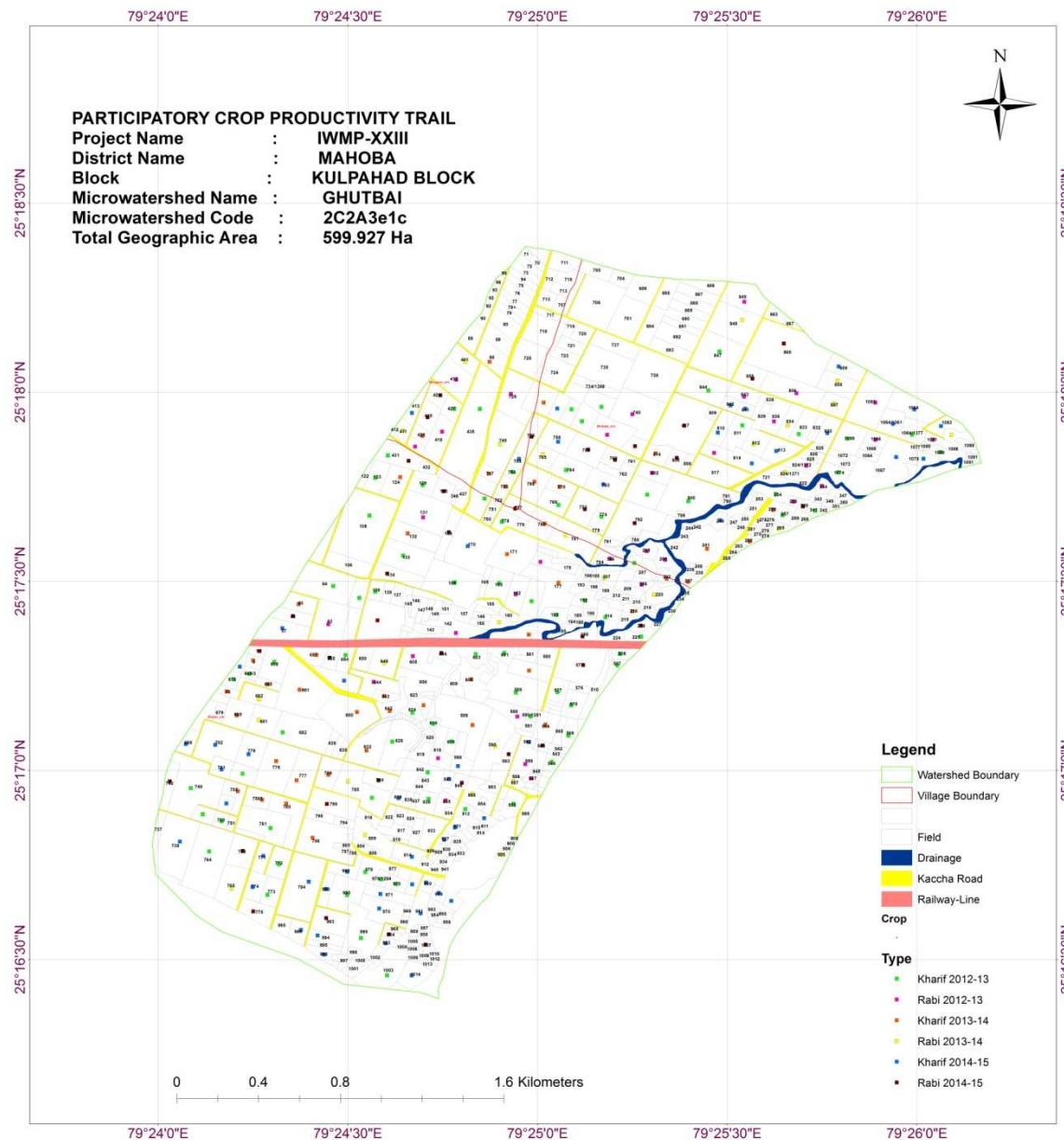
1	400	Lentil	DPL-15, K-75	80	3.795	0.133	3.662	15-Oct	Feb	5-Feb	4.9	6.5	520	867	433.33
							0.493	3.301							
2	320	Chick pea	KDG-1168, KWR-108	64	3.484	0.122	3.362	15-30 October	Las Feb to Mid March	2-10 March	5.62	8.5	544	680	476
							0.453	3.031							
3	320	Field Pea	KPMR-400, 522	64	3.676	0.129	3.547	October	March	5-Mar	6.2	9.5	608	760	570
							0.478	3.198							
4	240	Linseed	Parwati, Padmini	48	1.416	0.05	1.366	October	Feb-March	27 Feb to 5 March	Mixed	5.6	268.8	1075	215.04
							0.184	1.232							
5	200	Mustard	Maya, Kranti	40	1.1048	0.039	1.066	October	Feb	15-120 Feb	Mixed	4.8	192	3840	153.6
							0.144	0.961							
	Total					3.088	34.34								

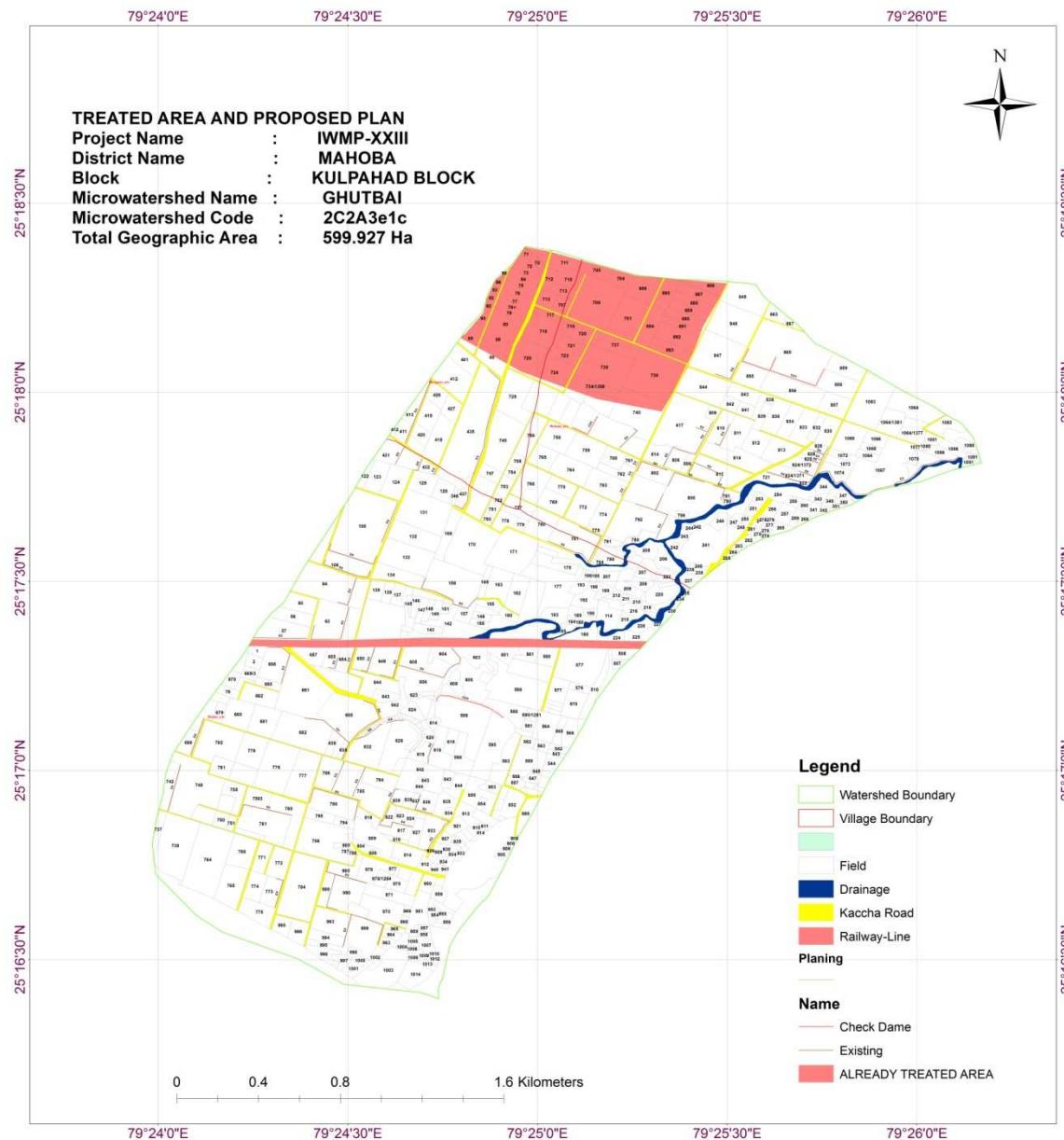
NOTE: List of beneficiaries for crop demonstration trials is kept in project file and it is located on the the map of Participatory Crop Demonstration Trials (Crop Action Plan)

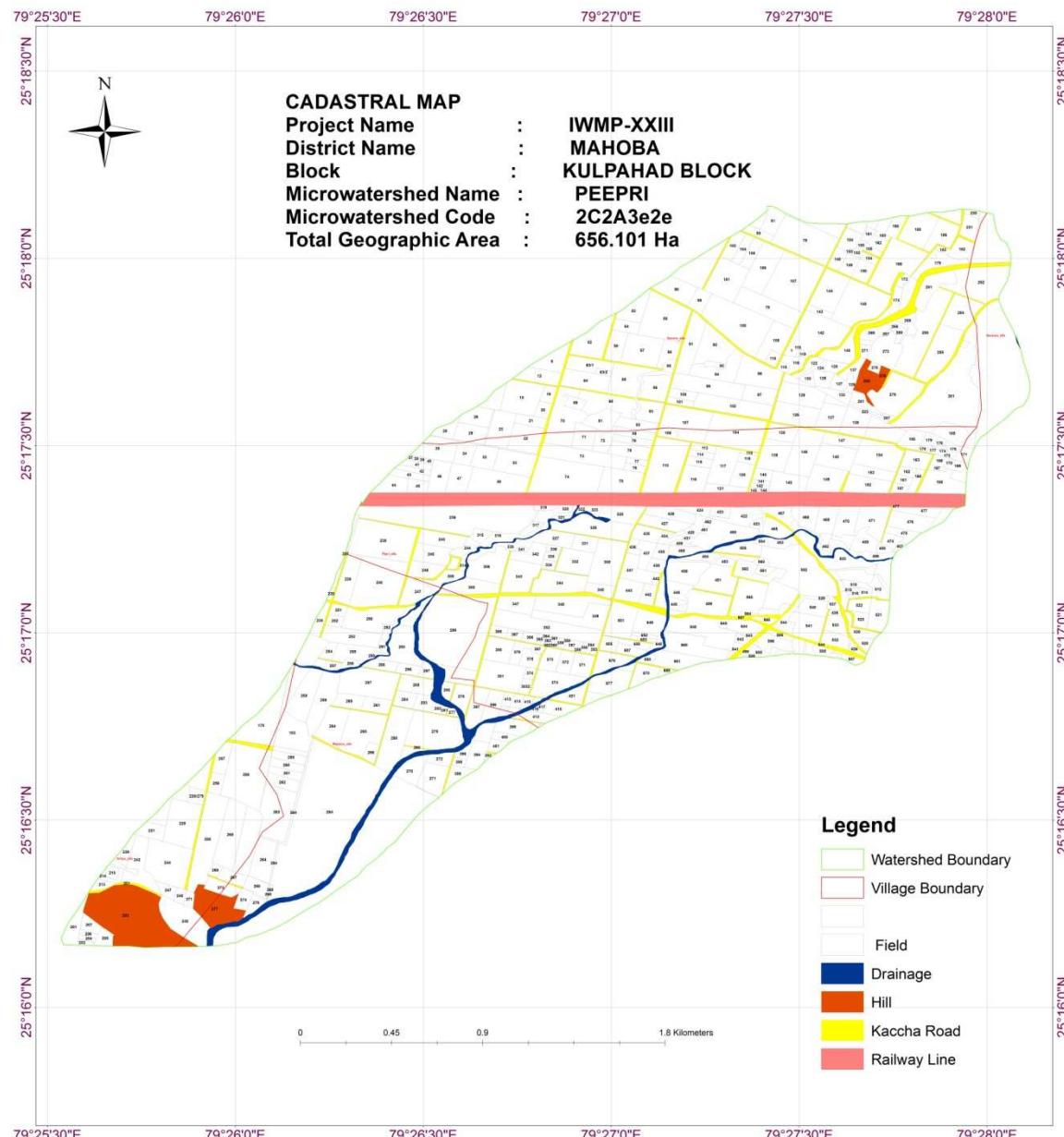
MAPS

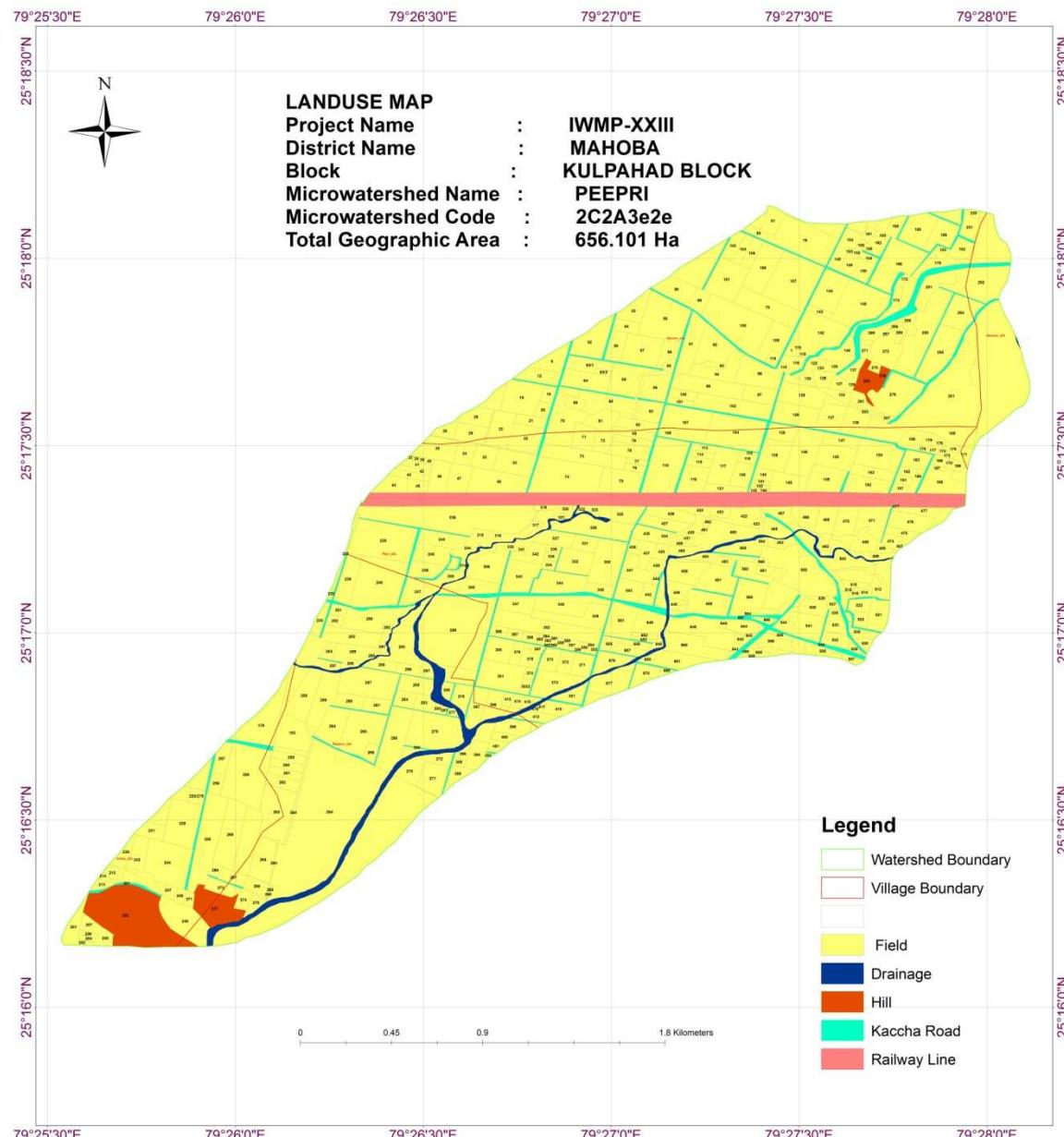


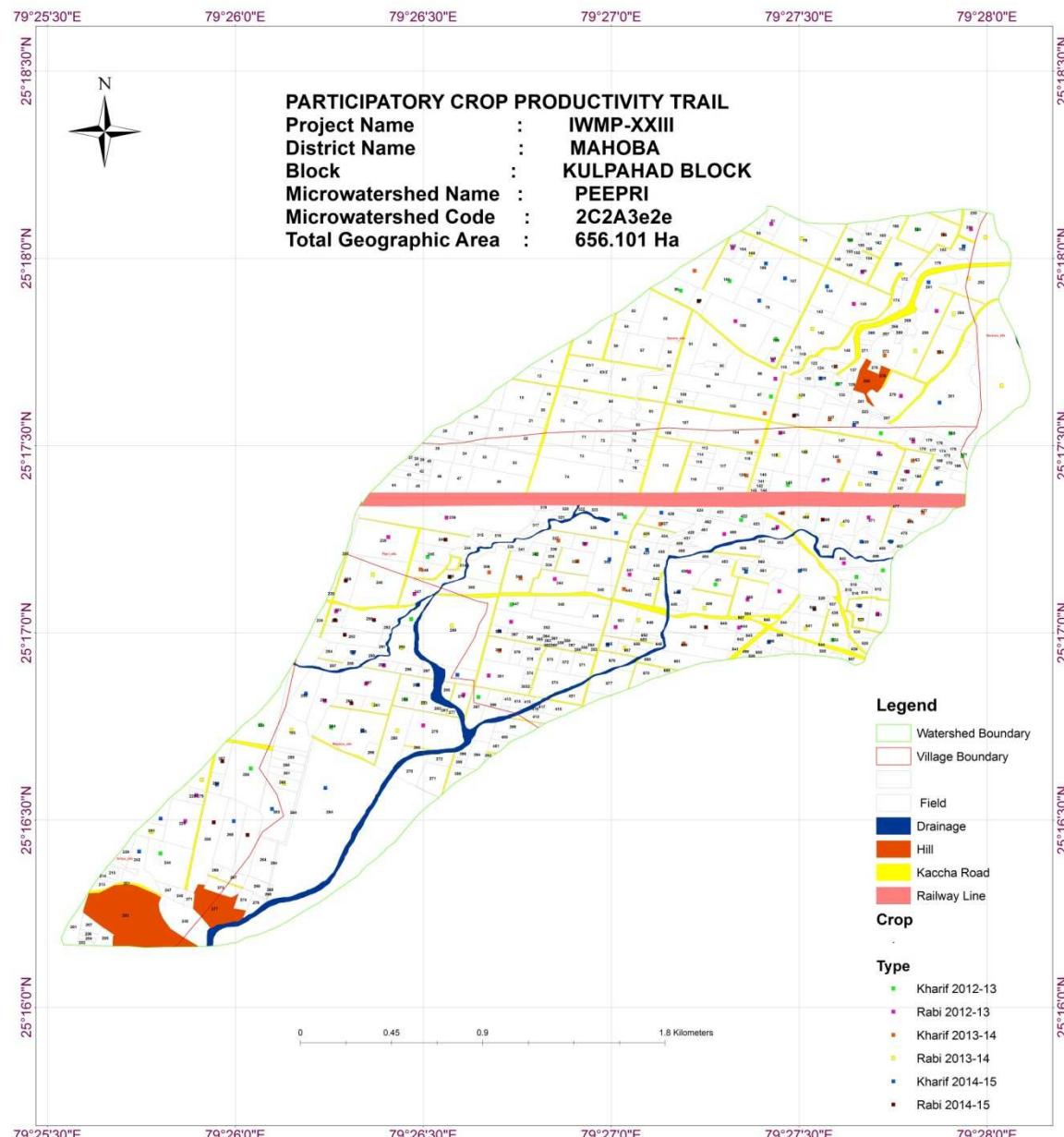


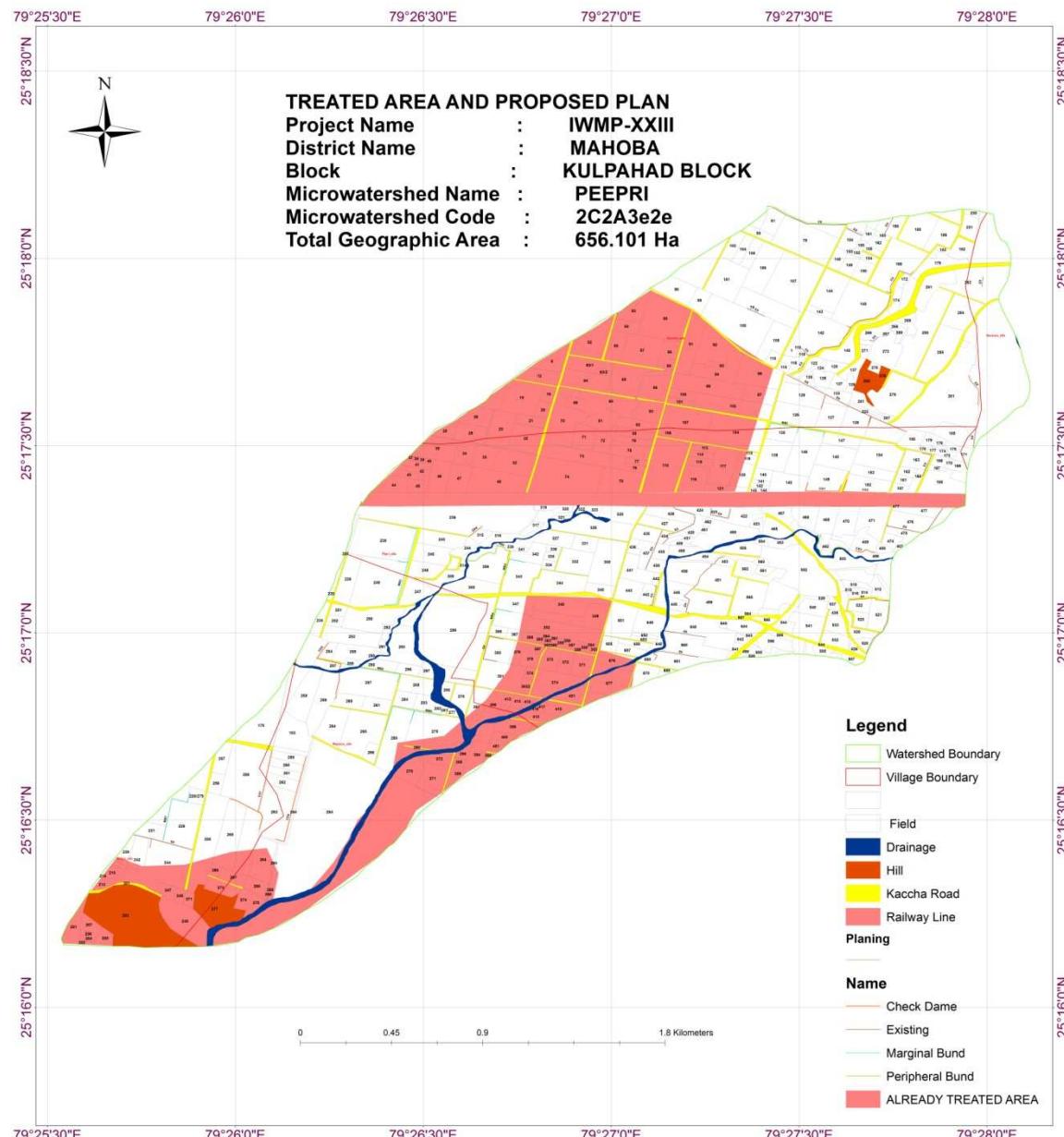


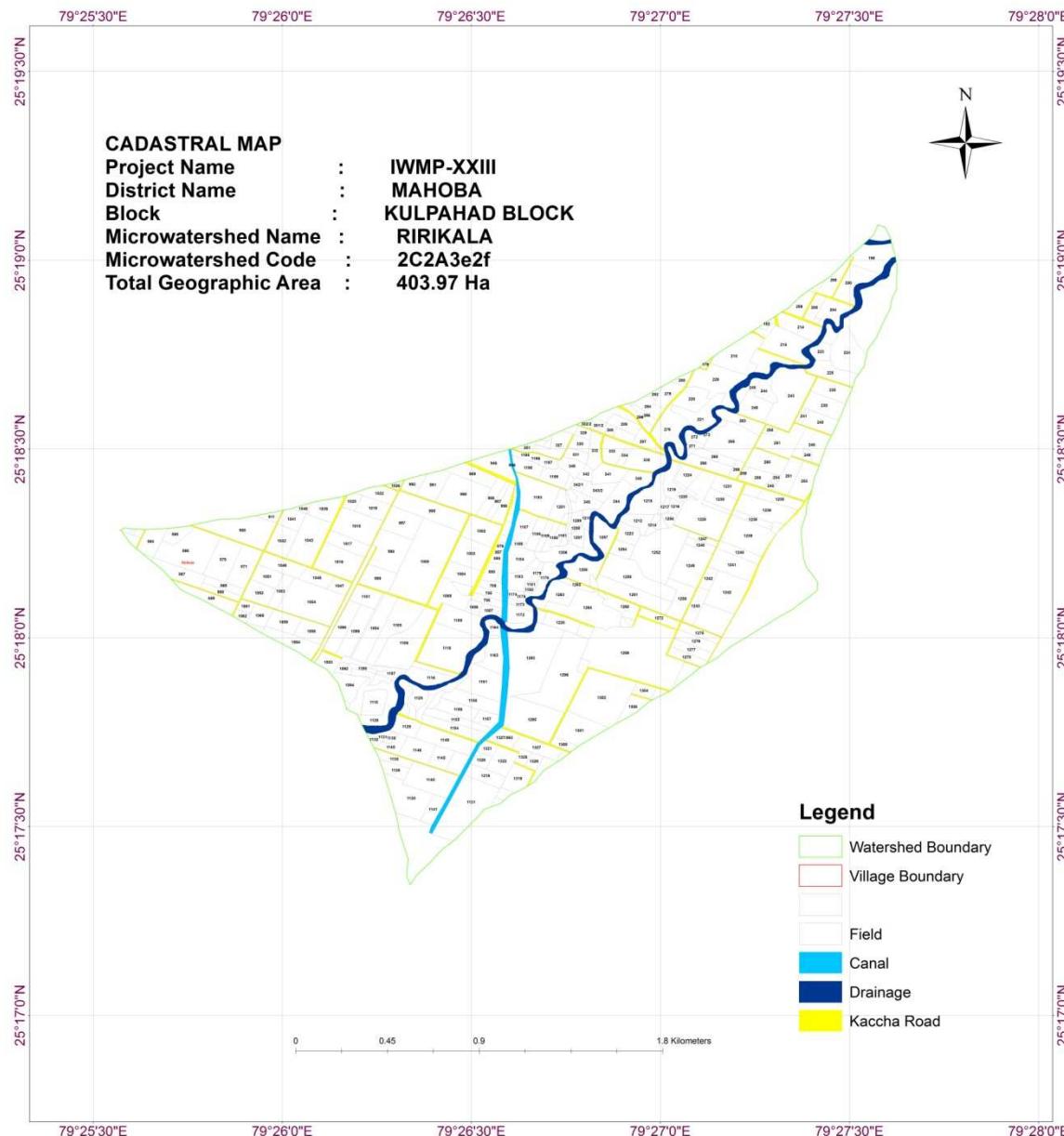


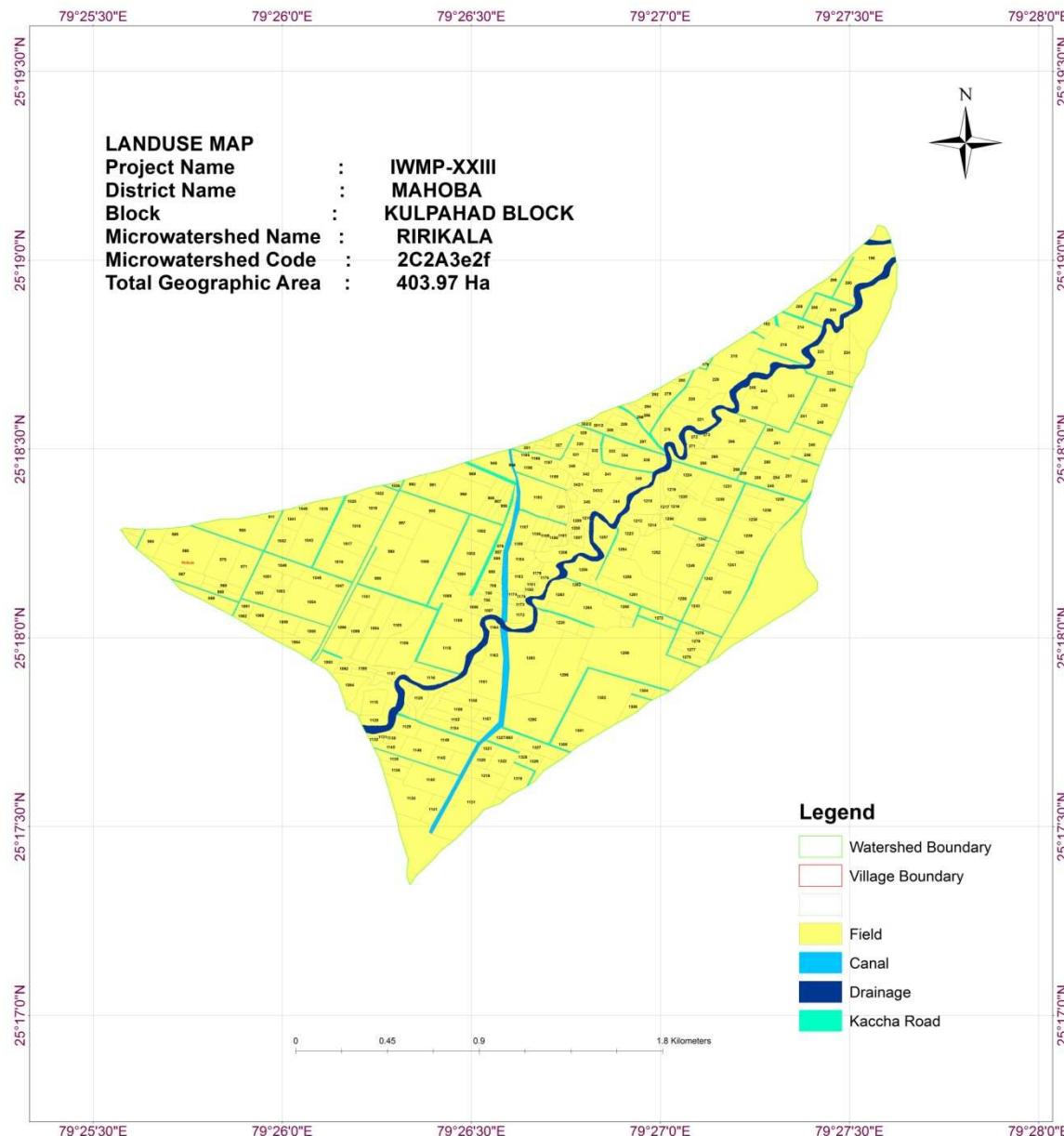


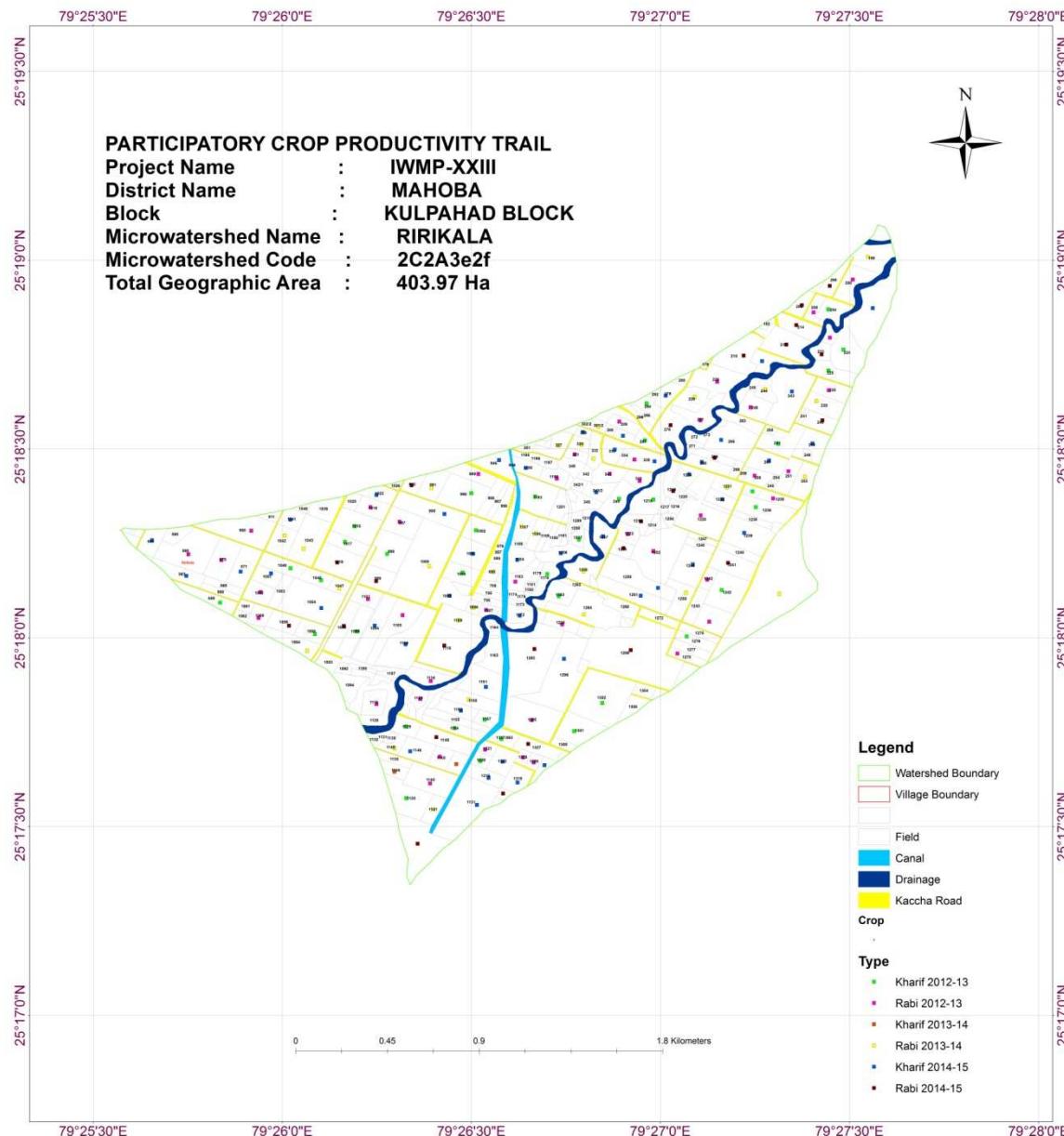


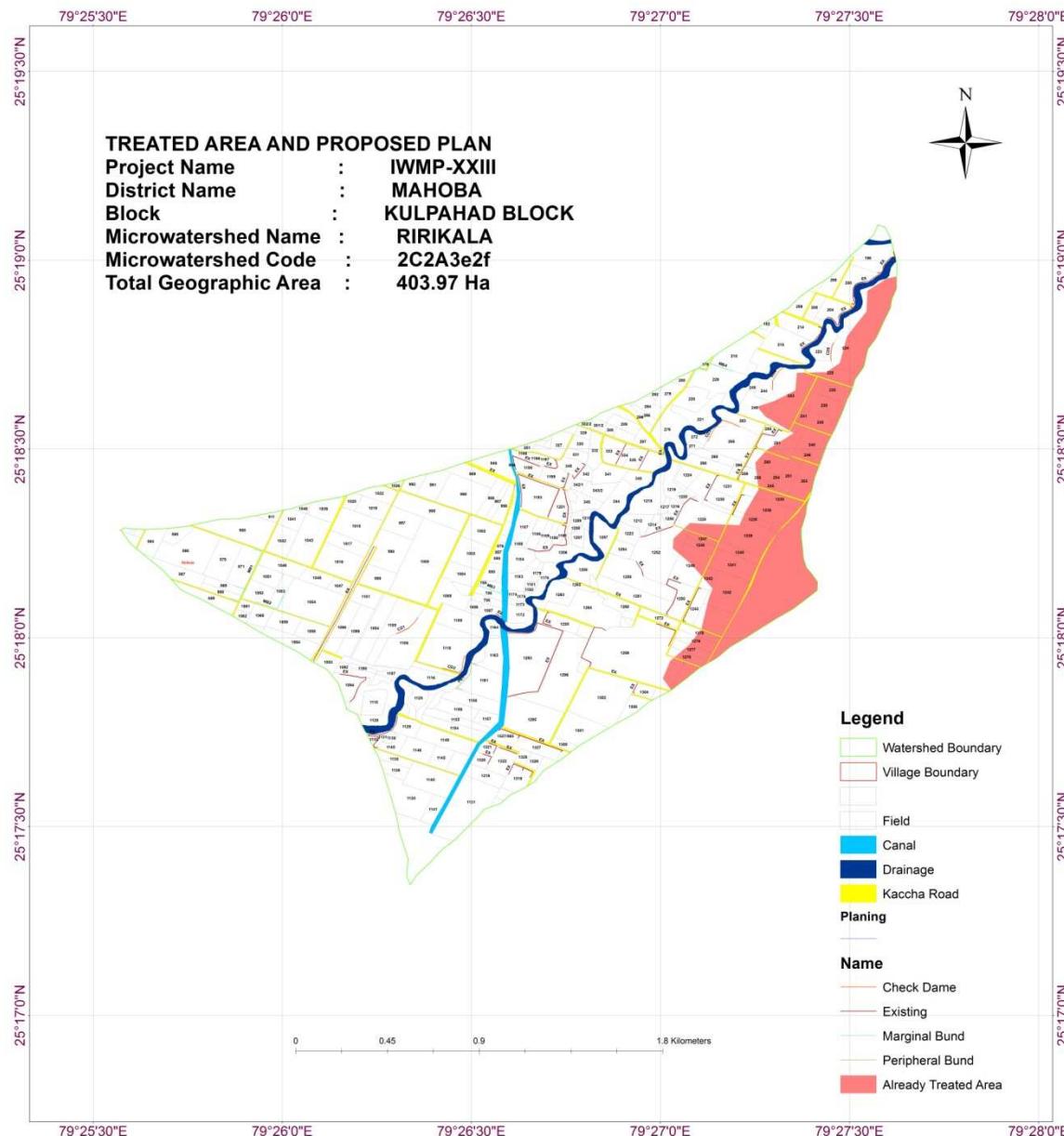


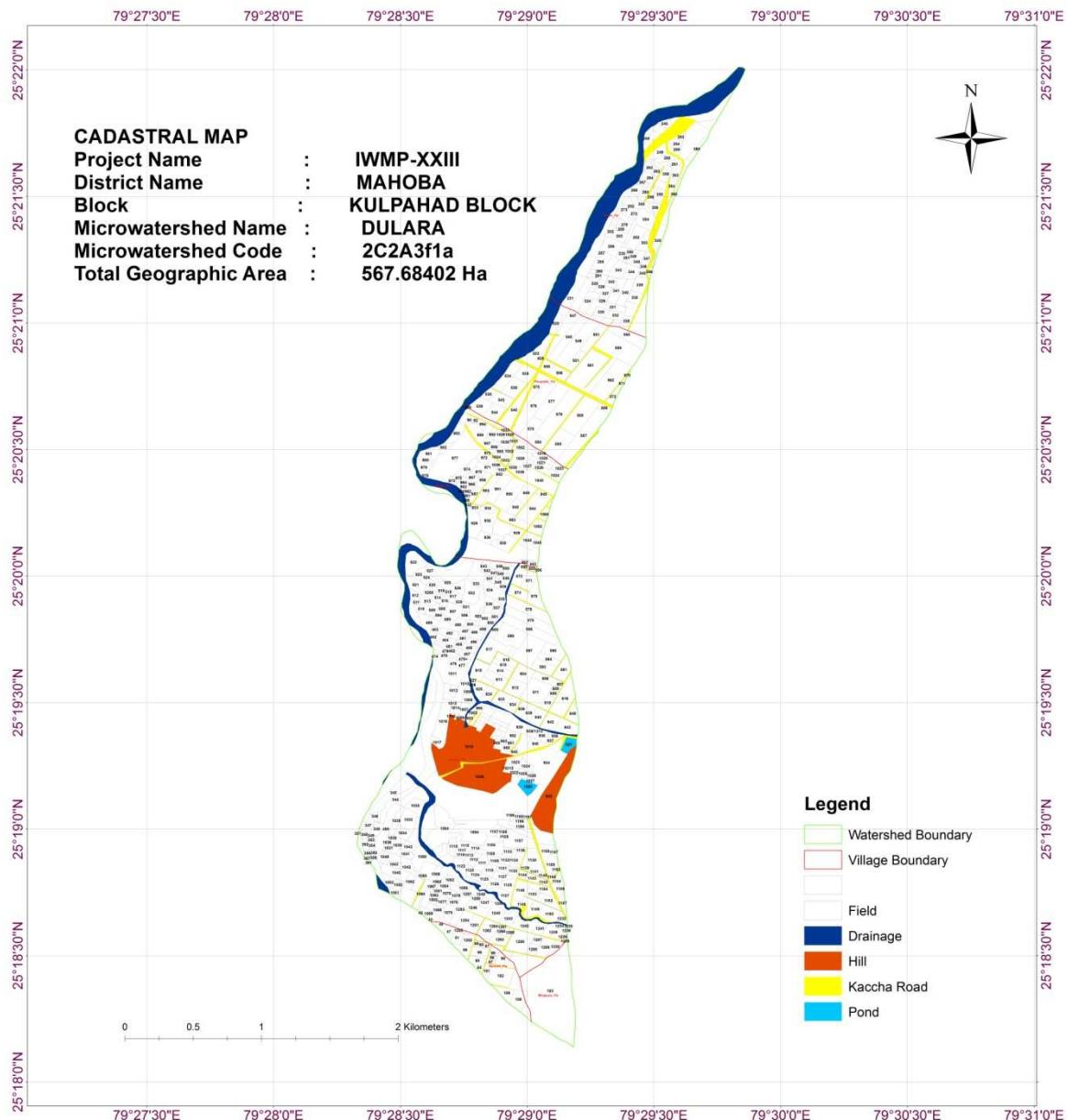


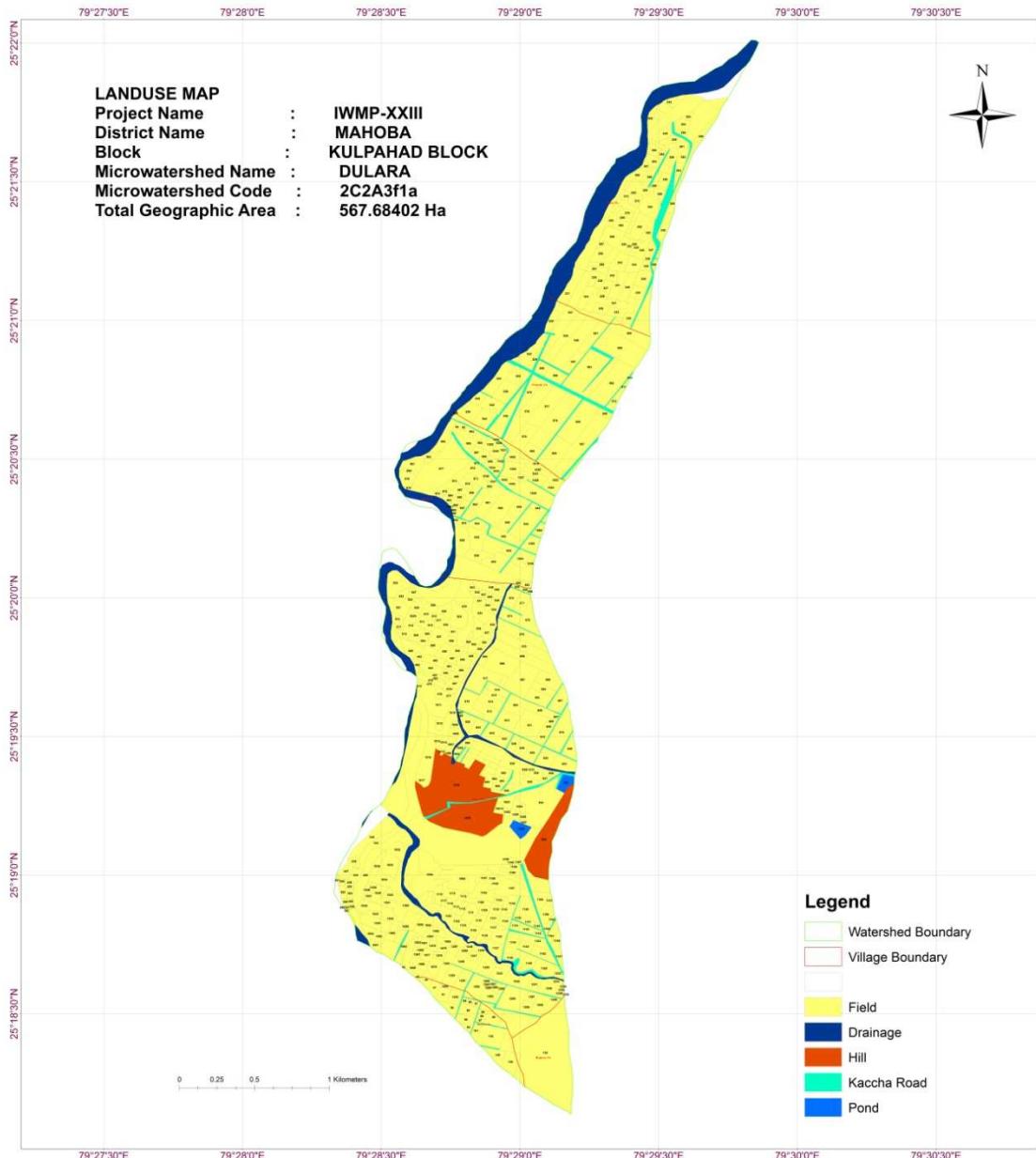


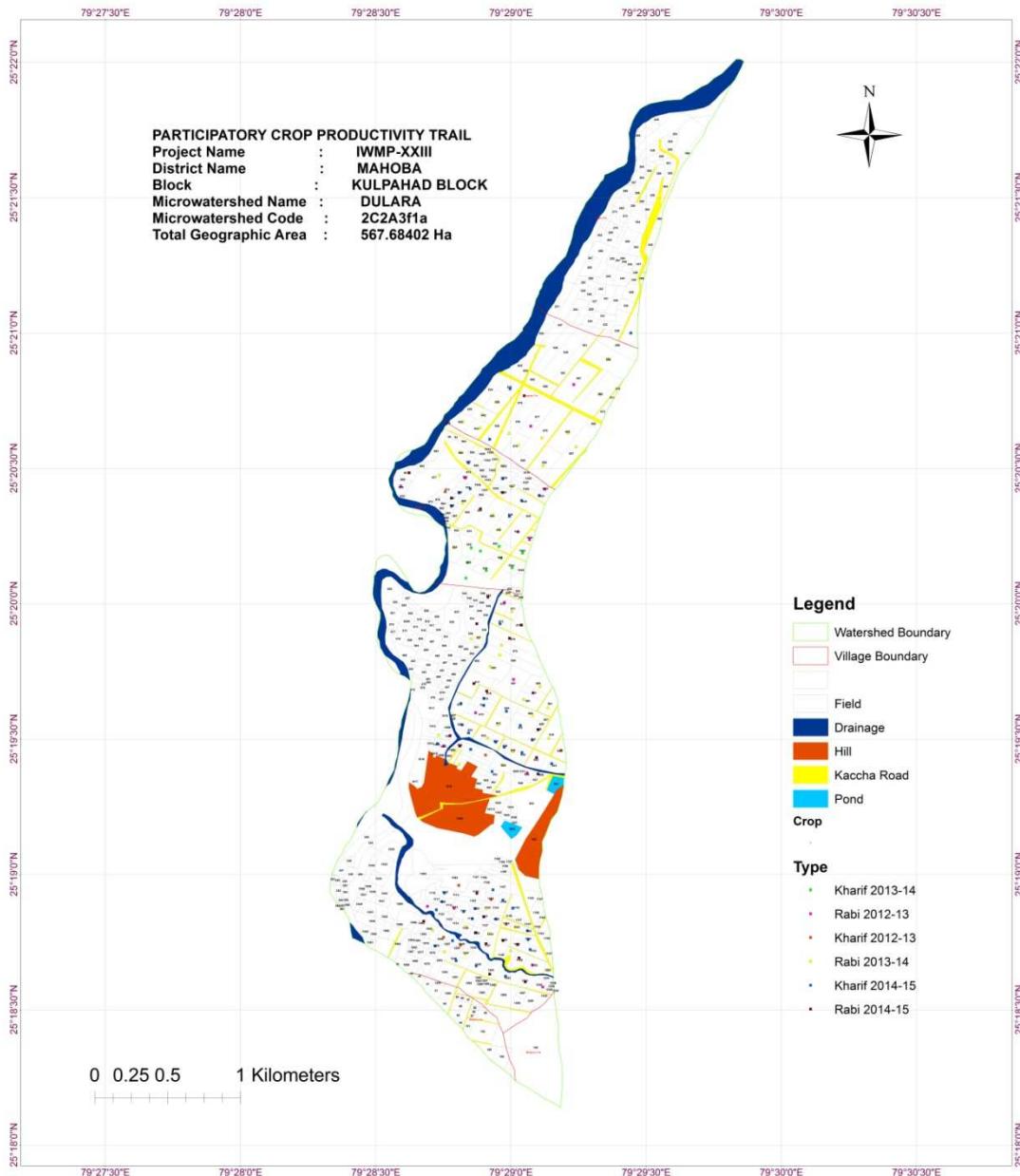


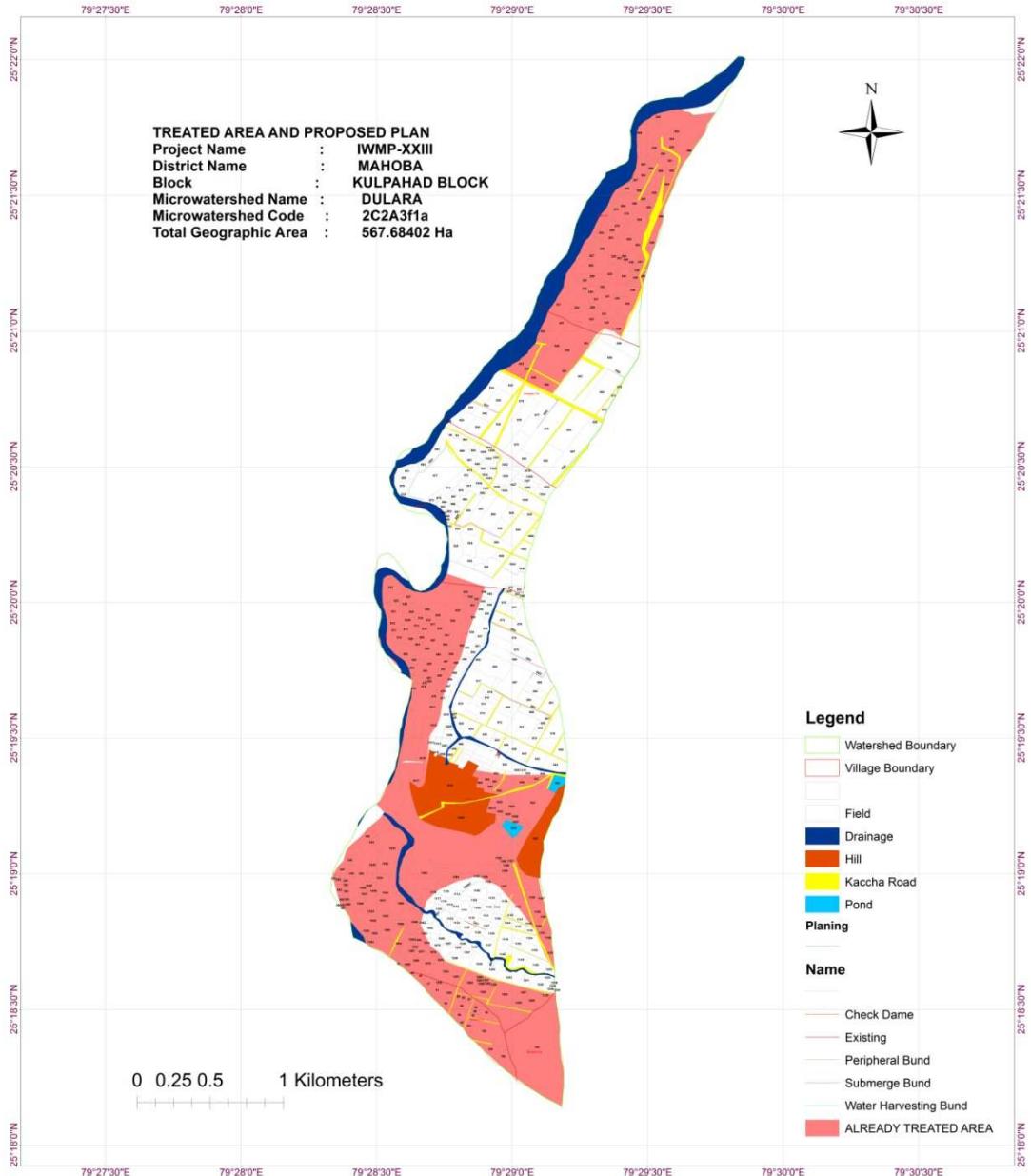


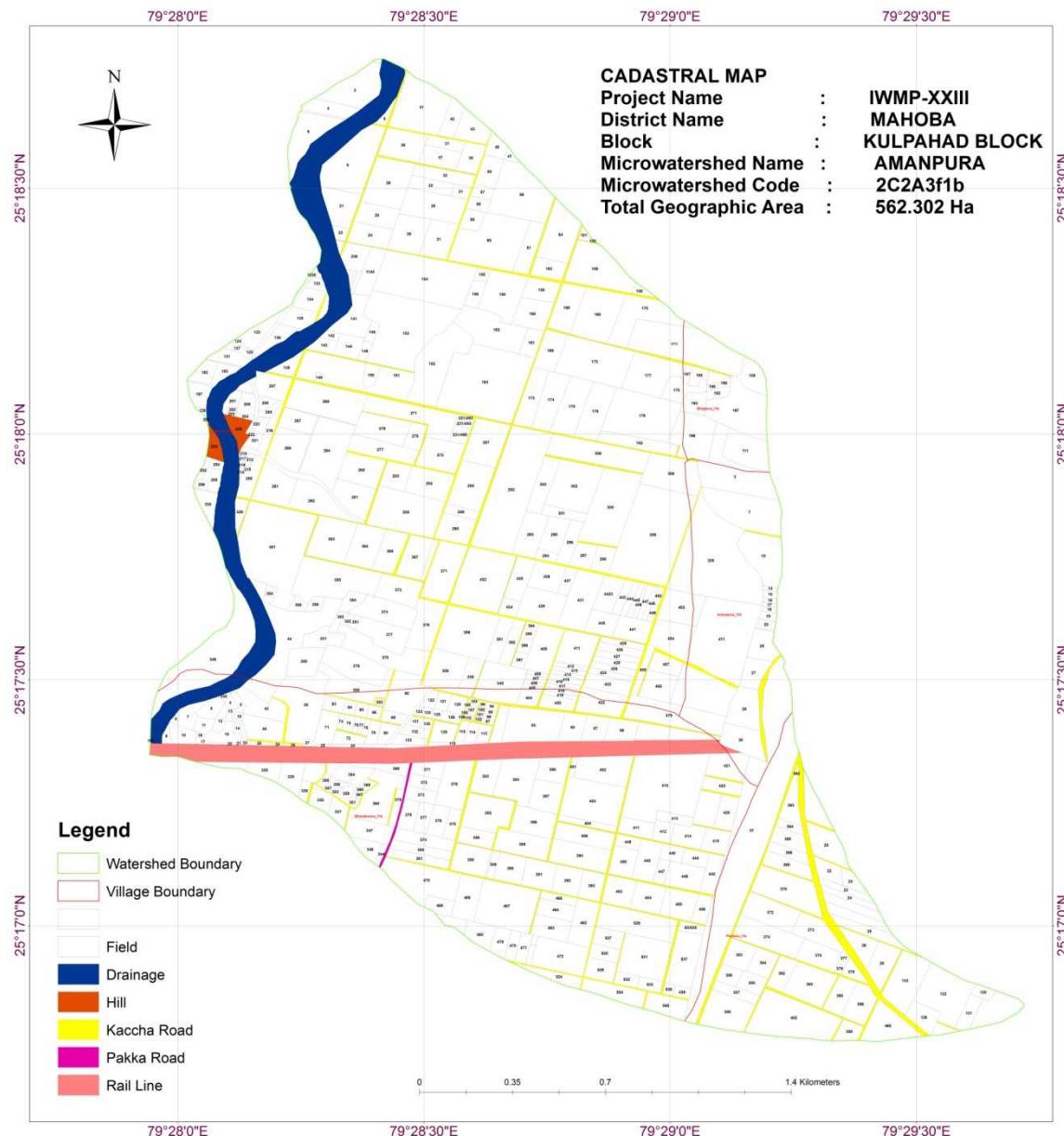


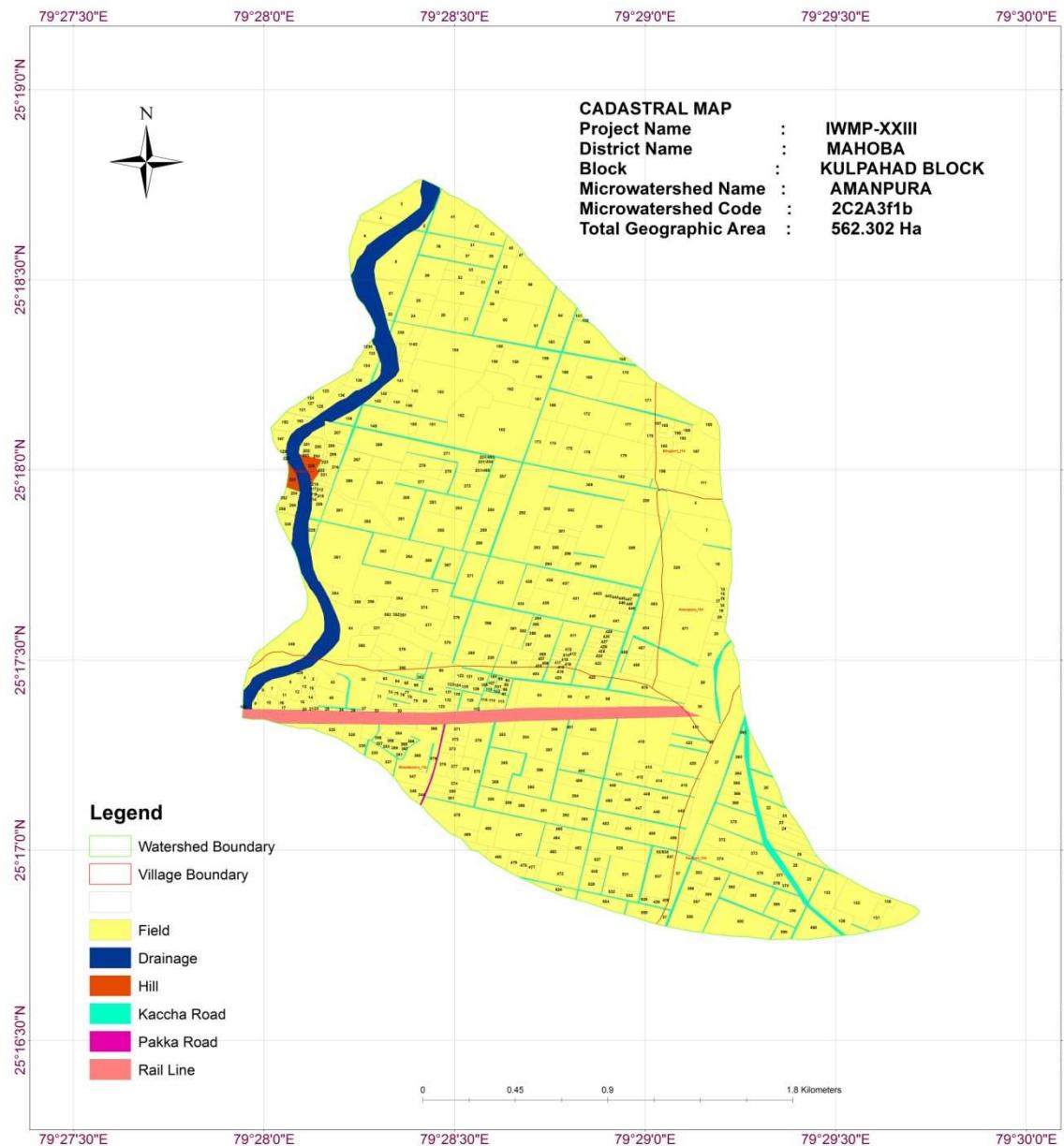


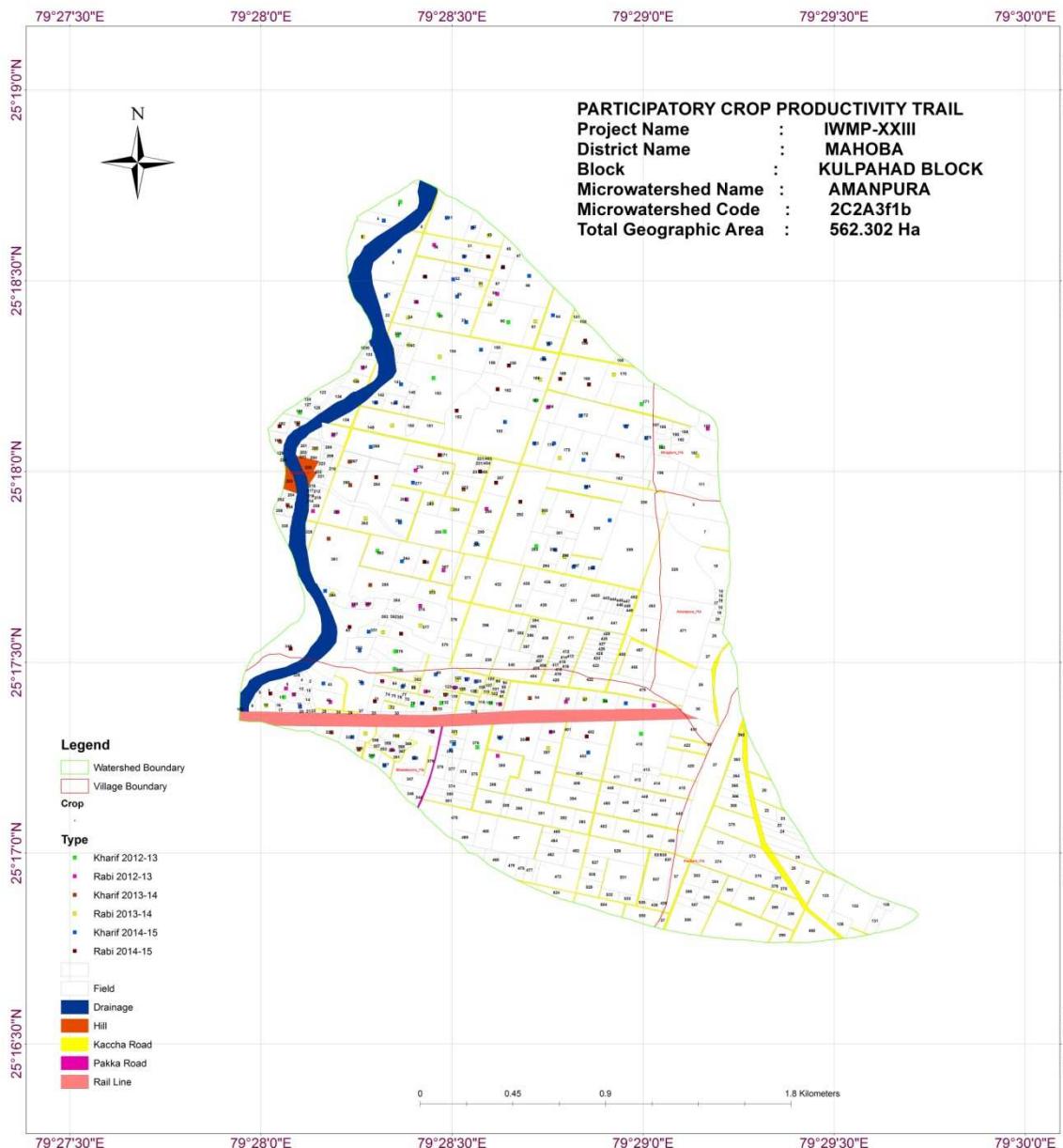


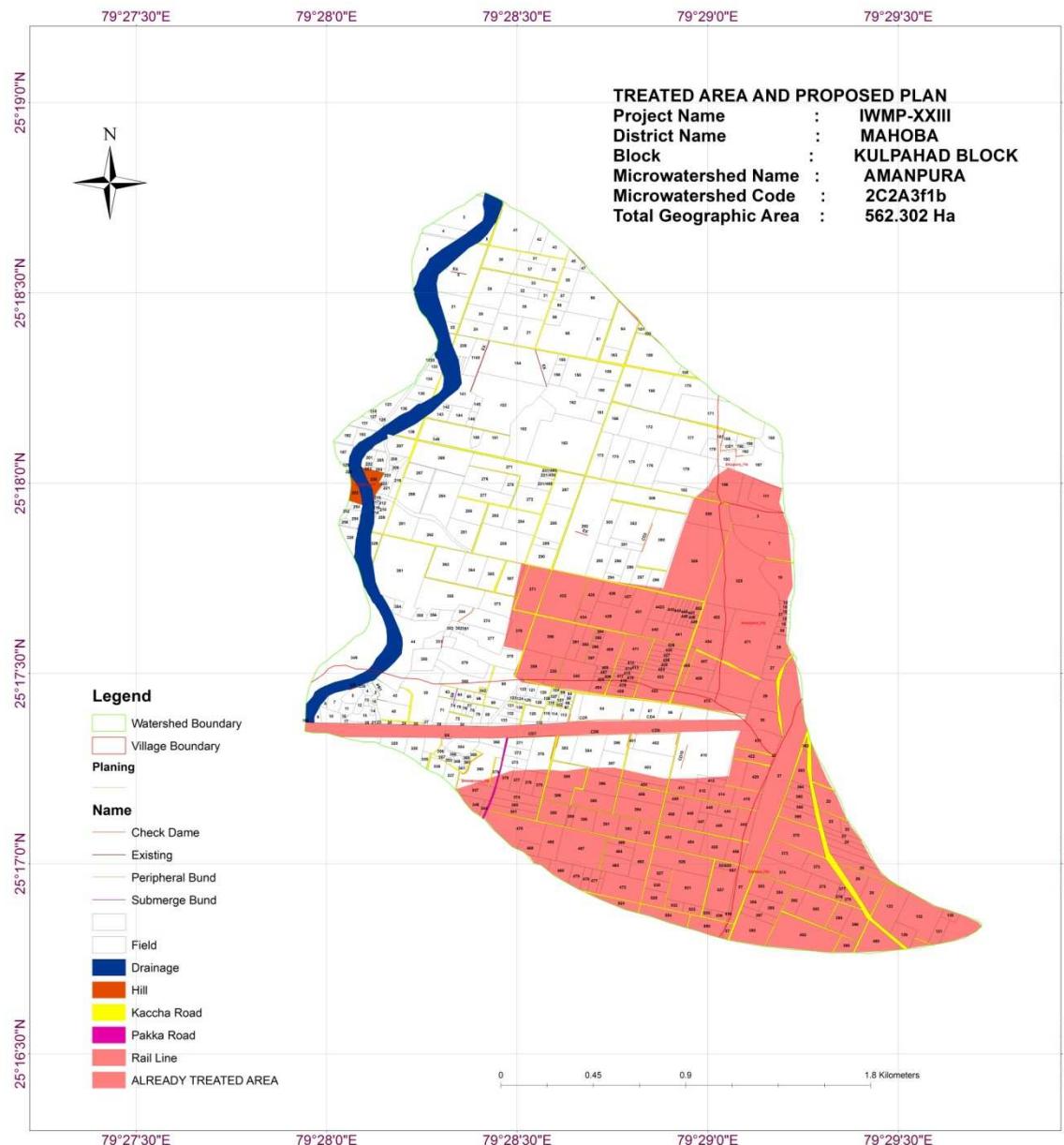


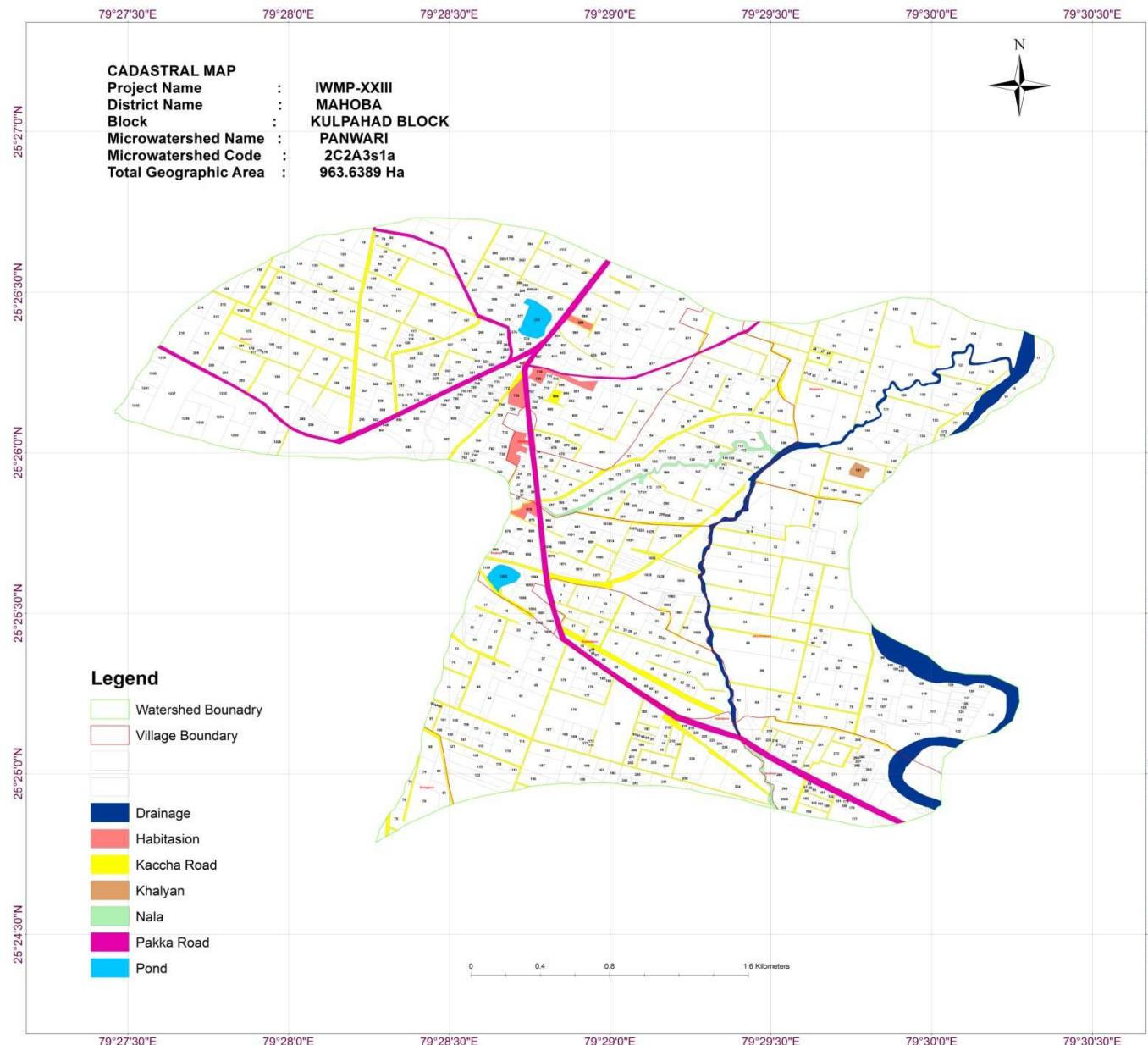


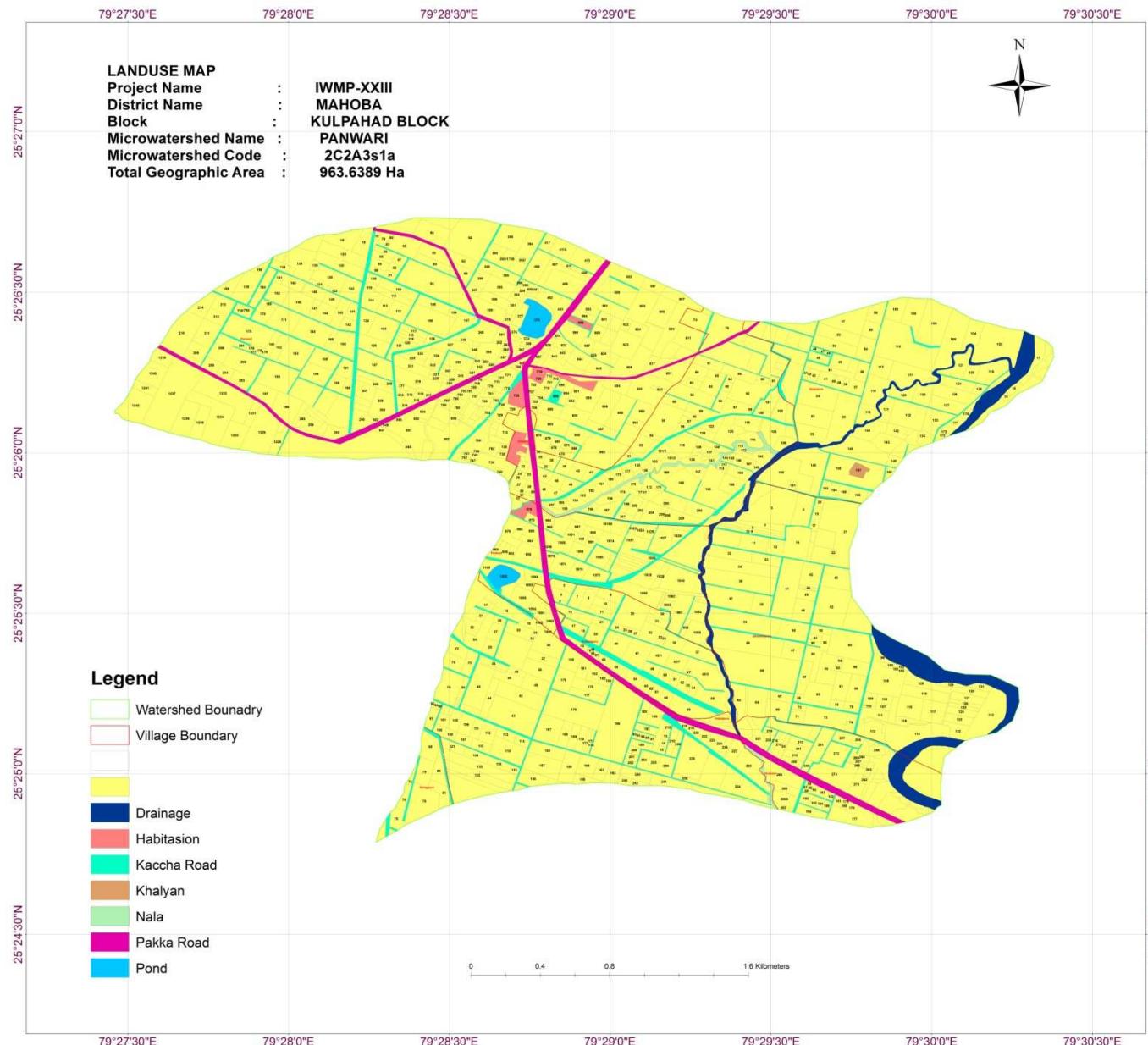


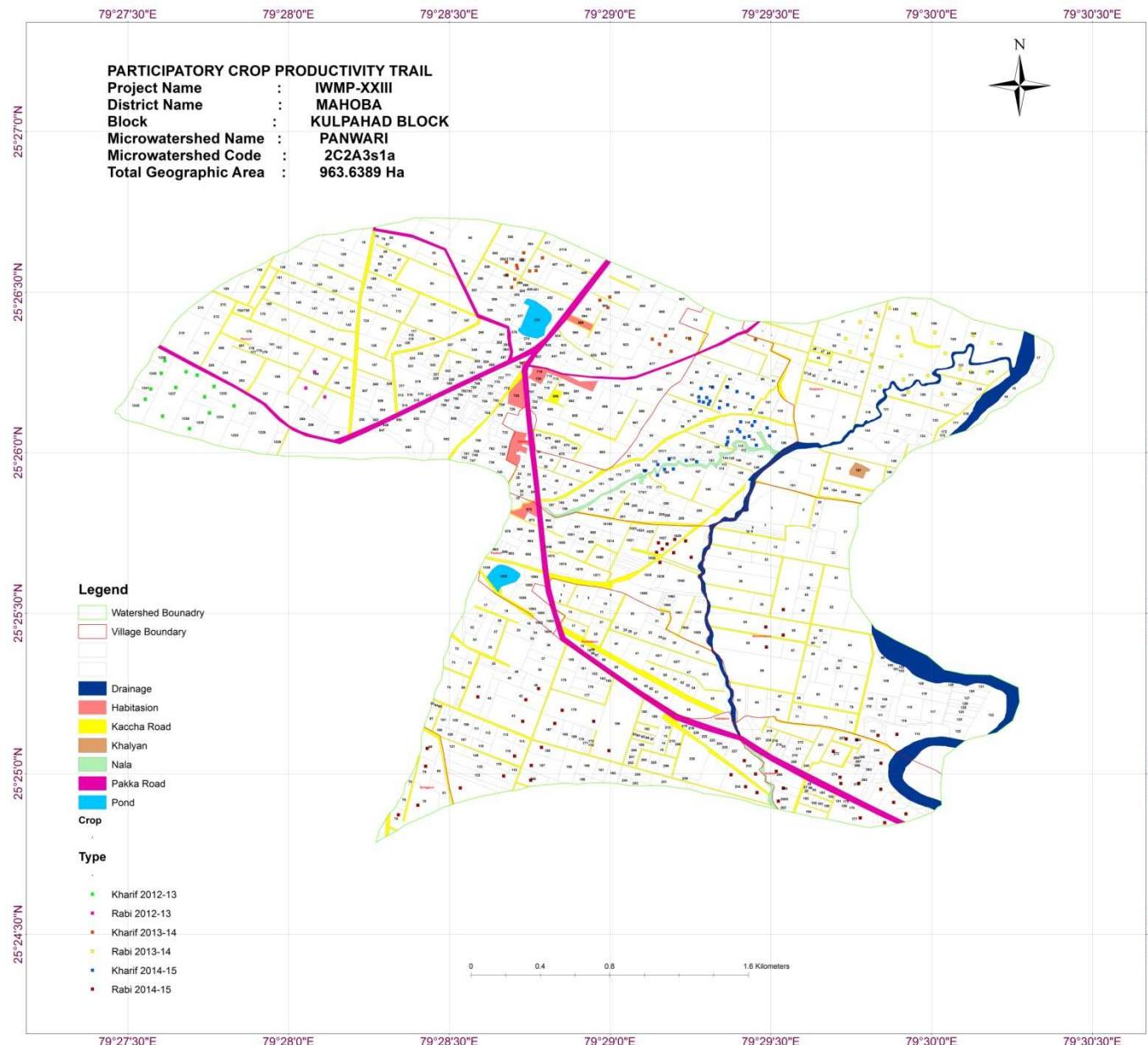


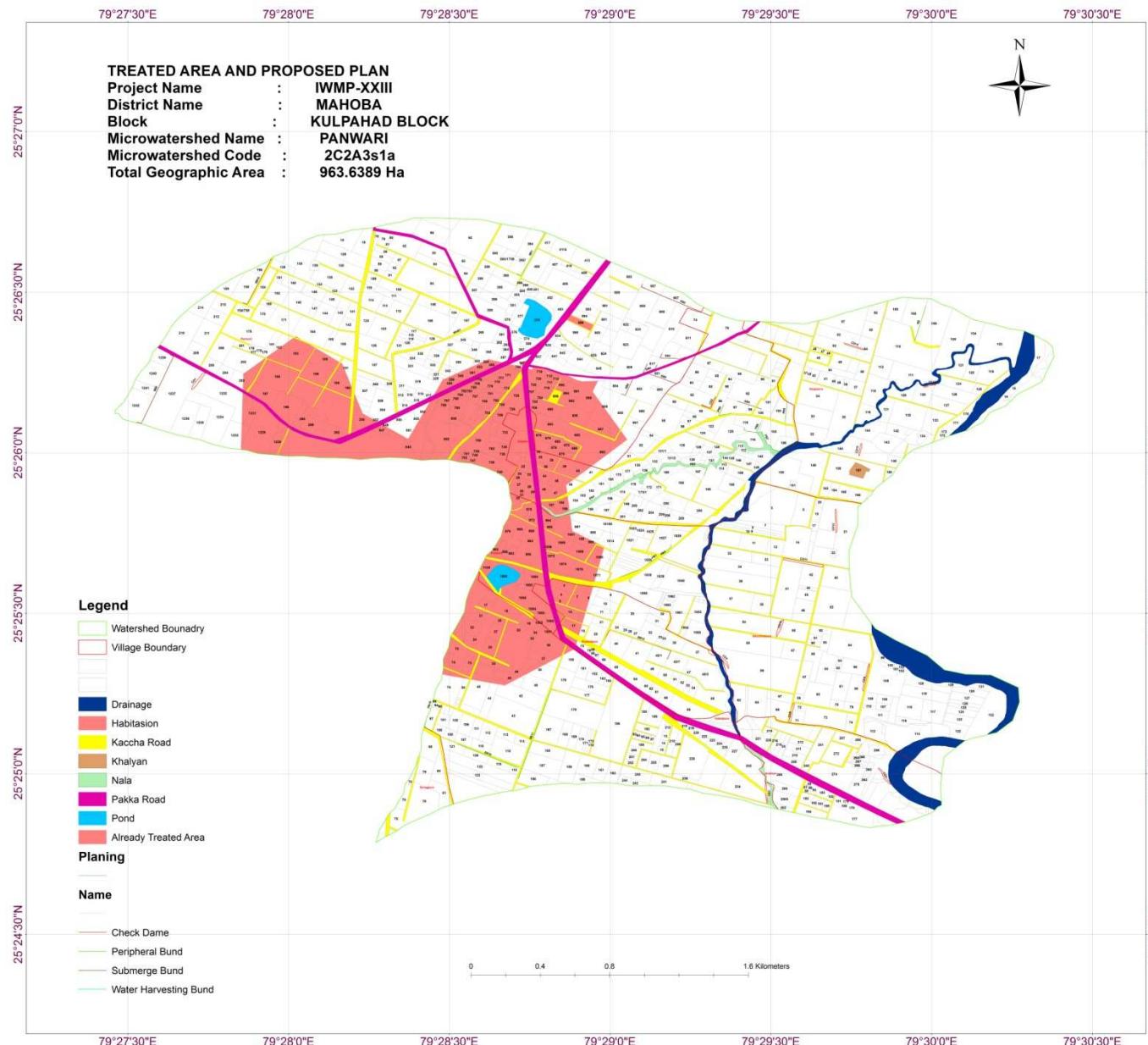


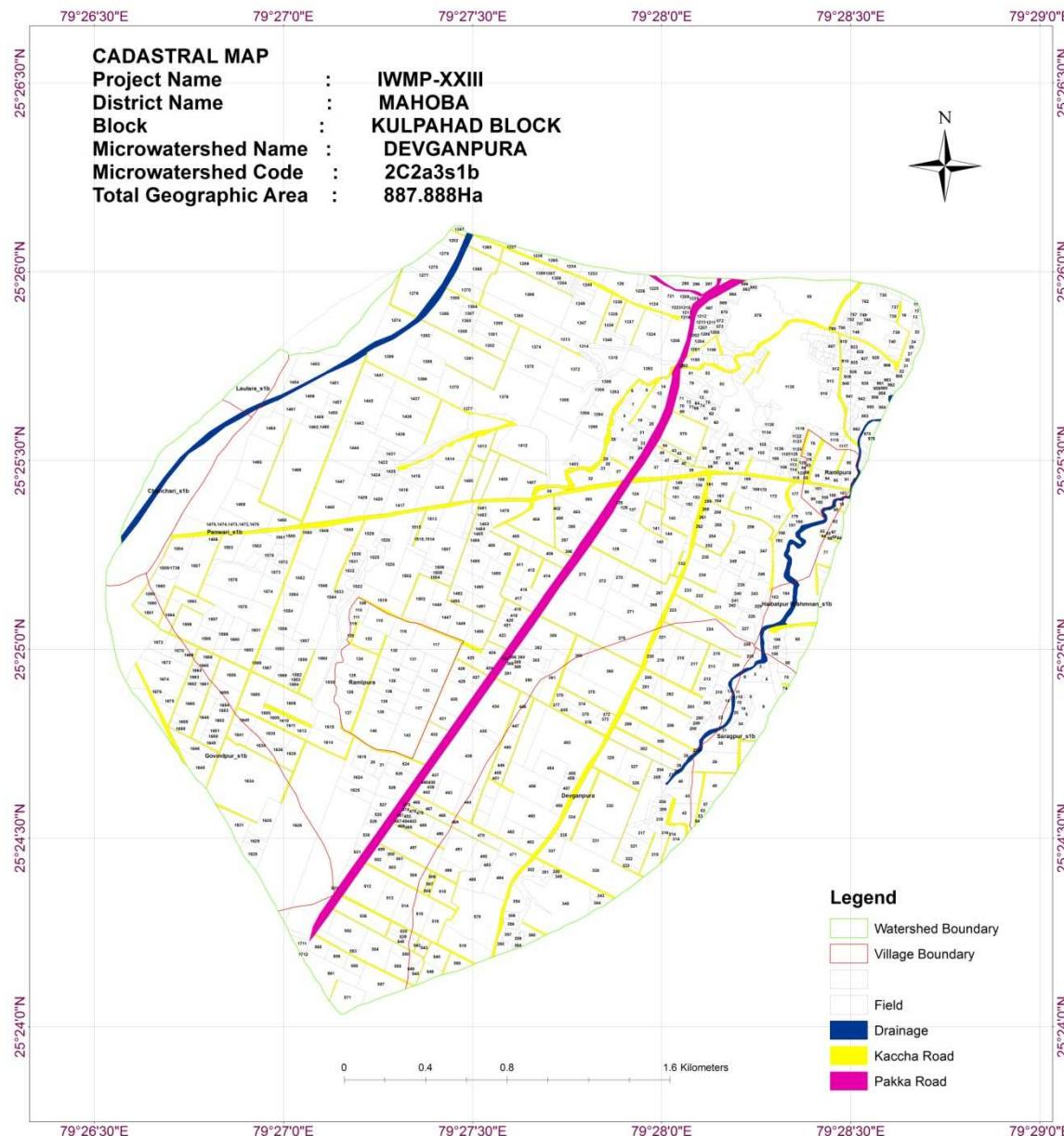


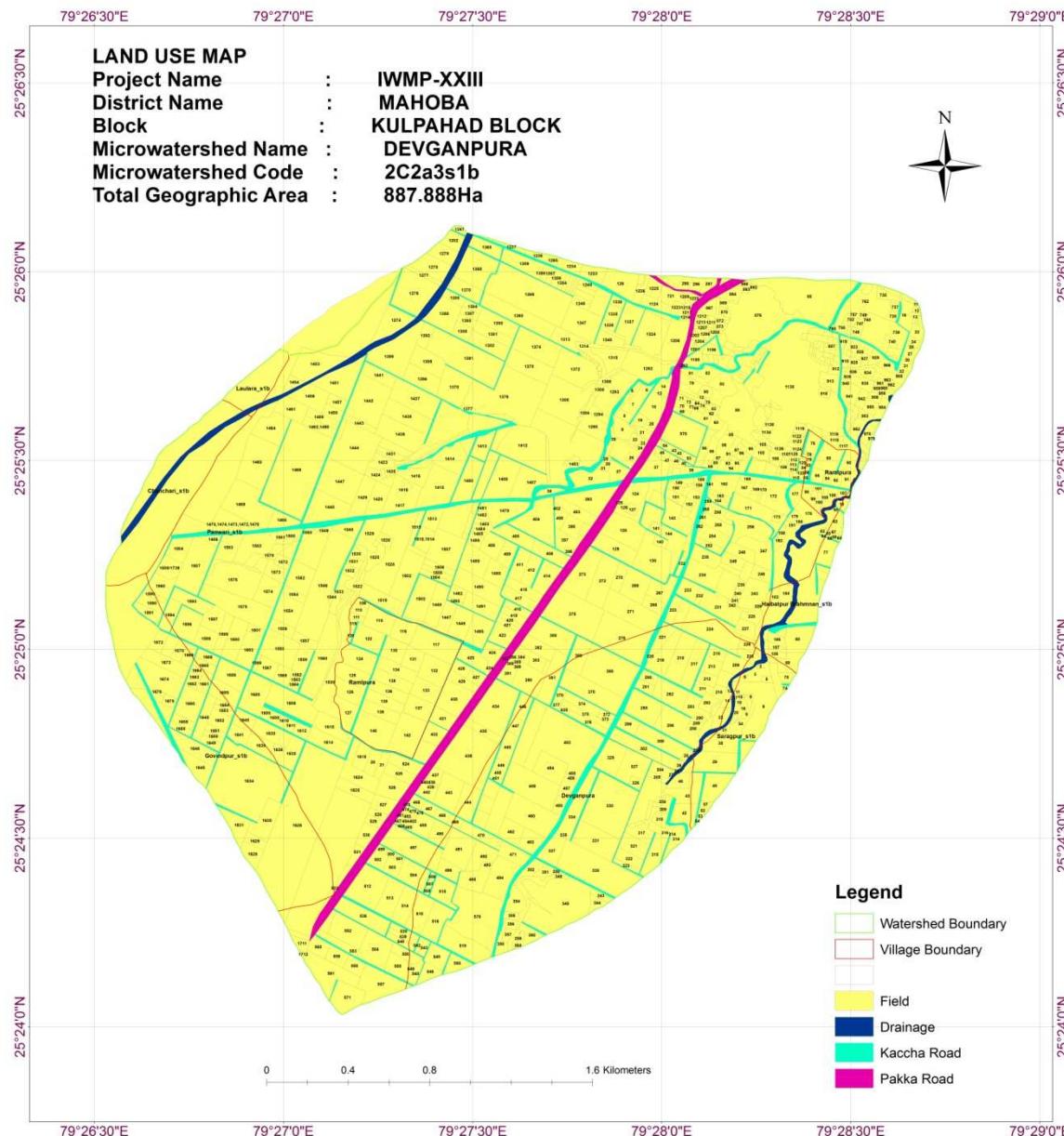


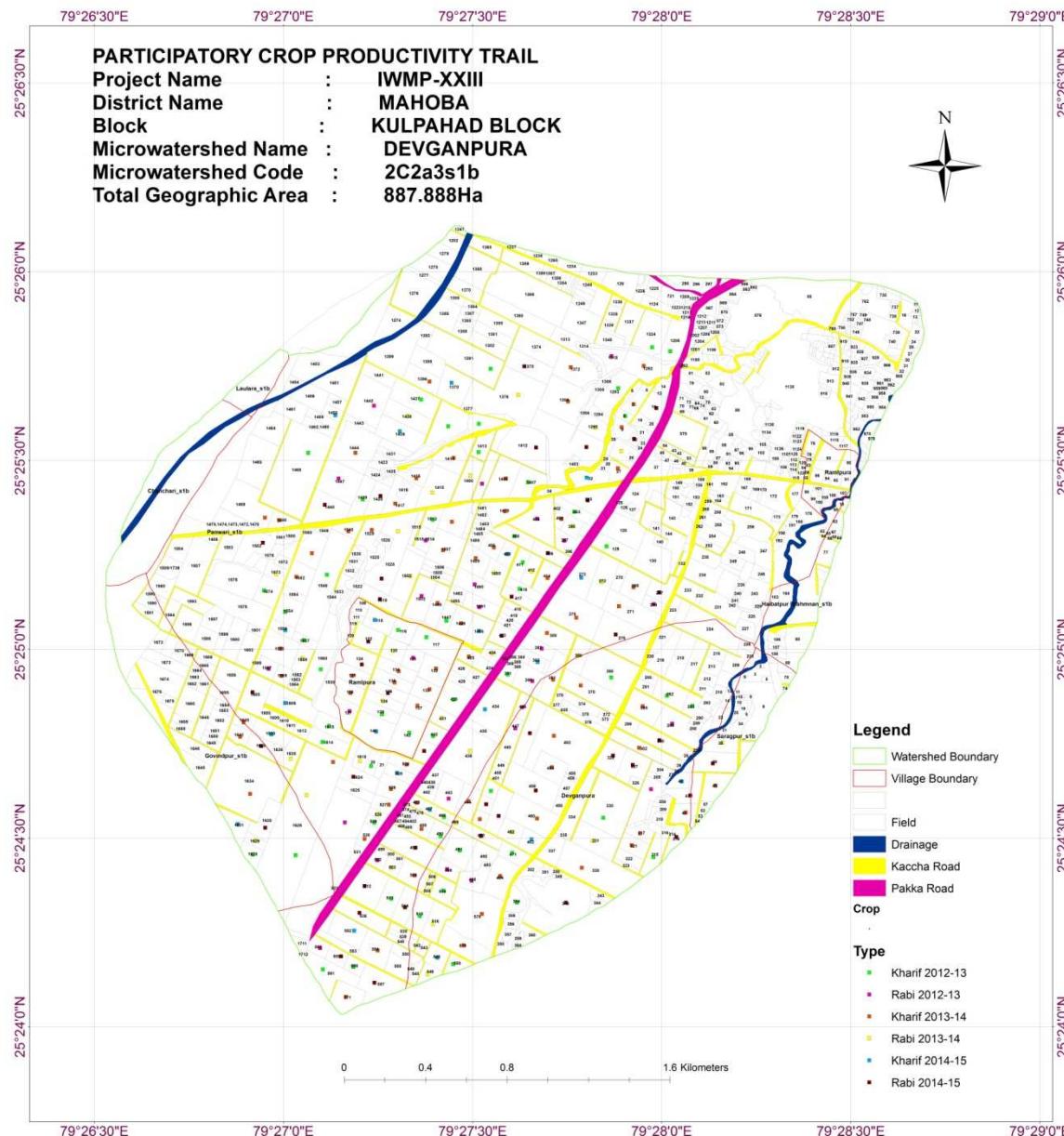


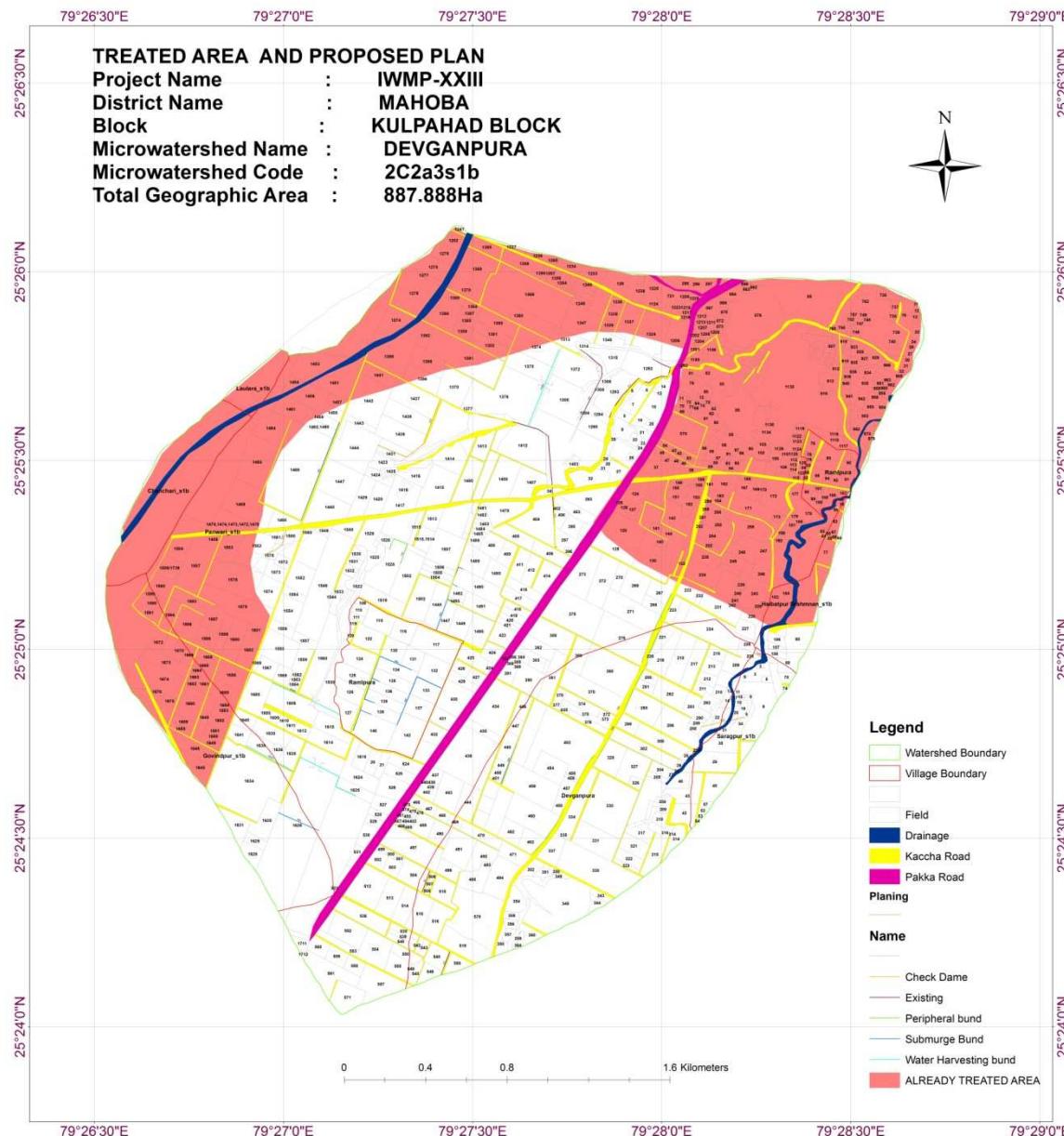


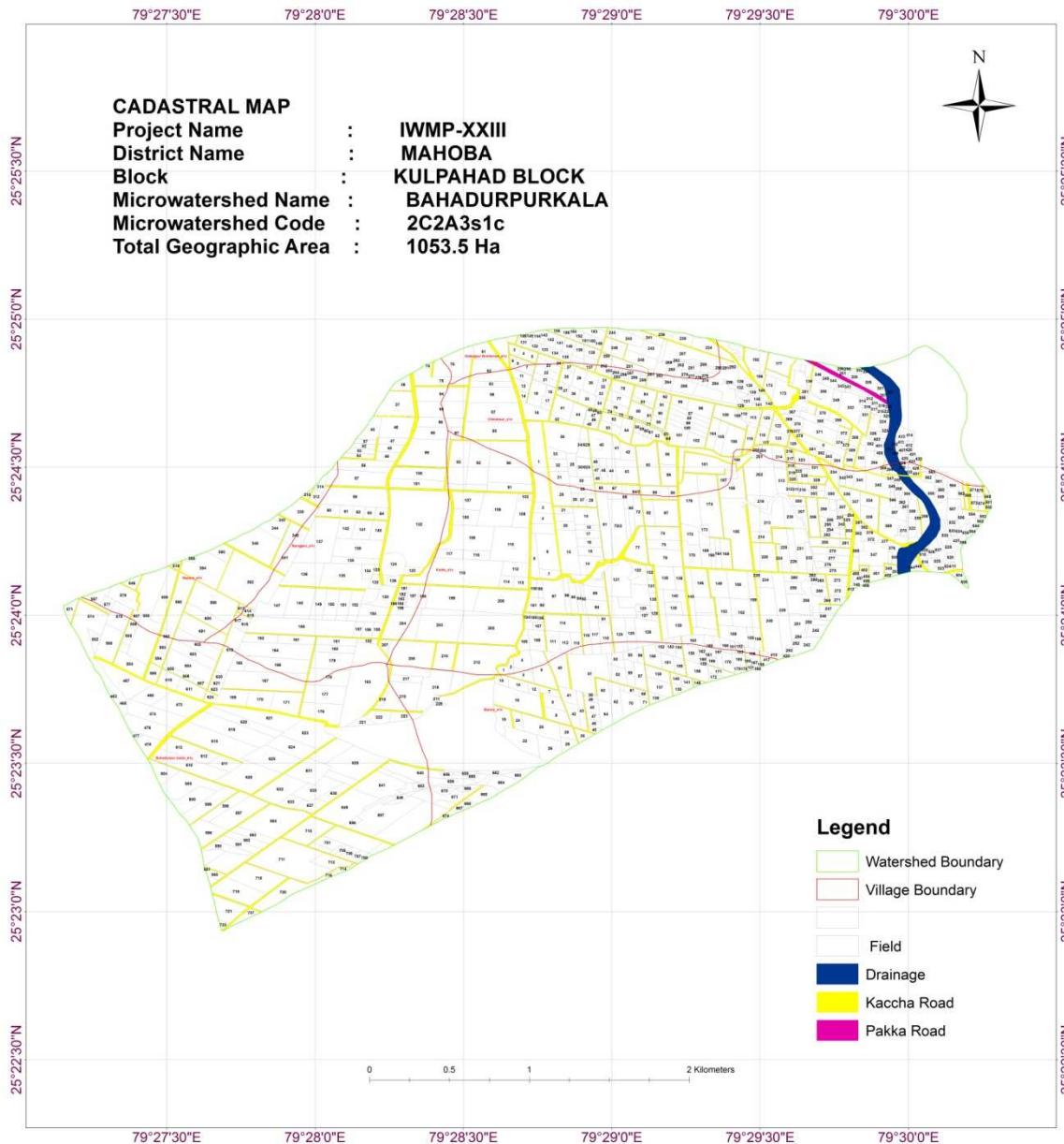


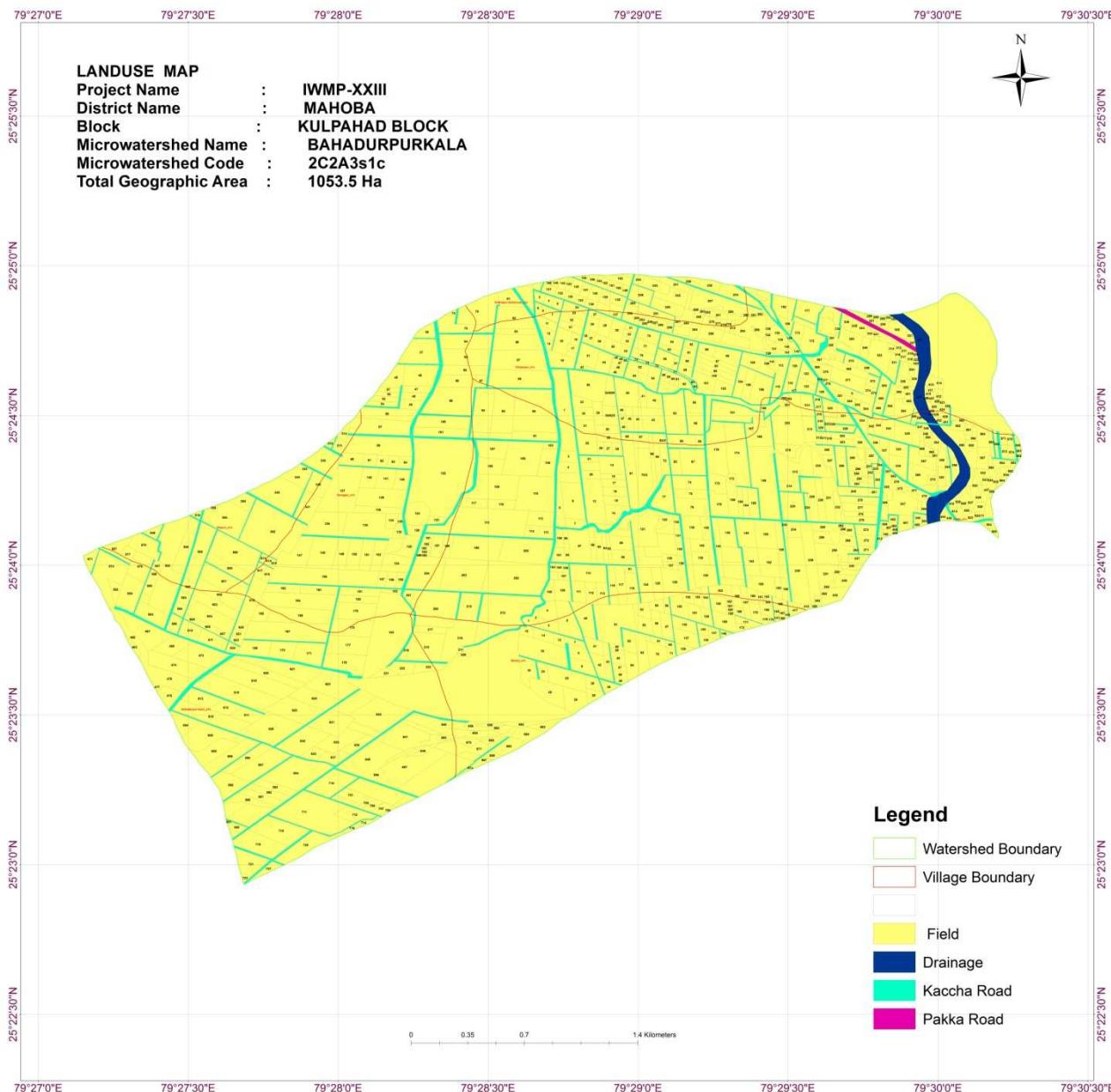


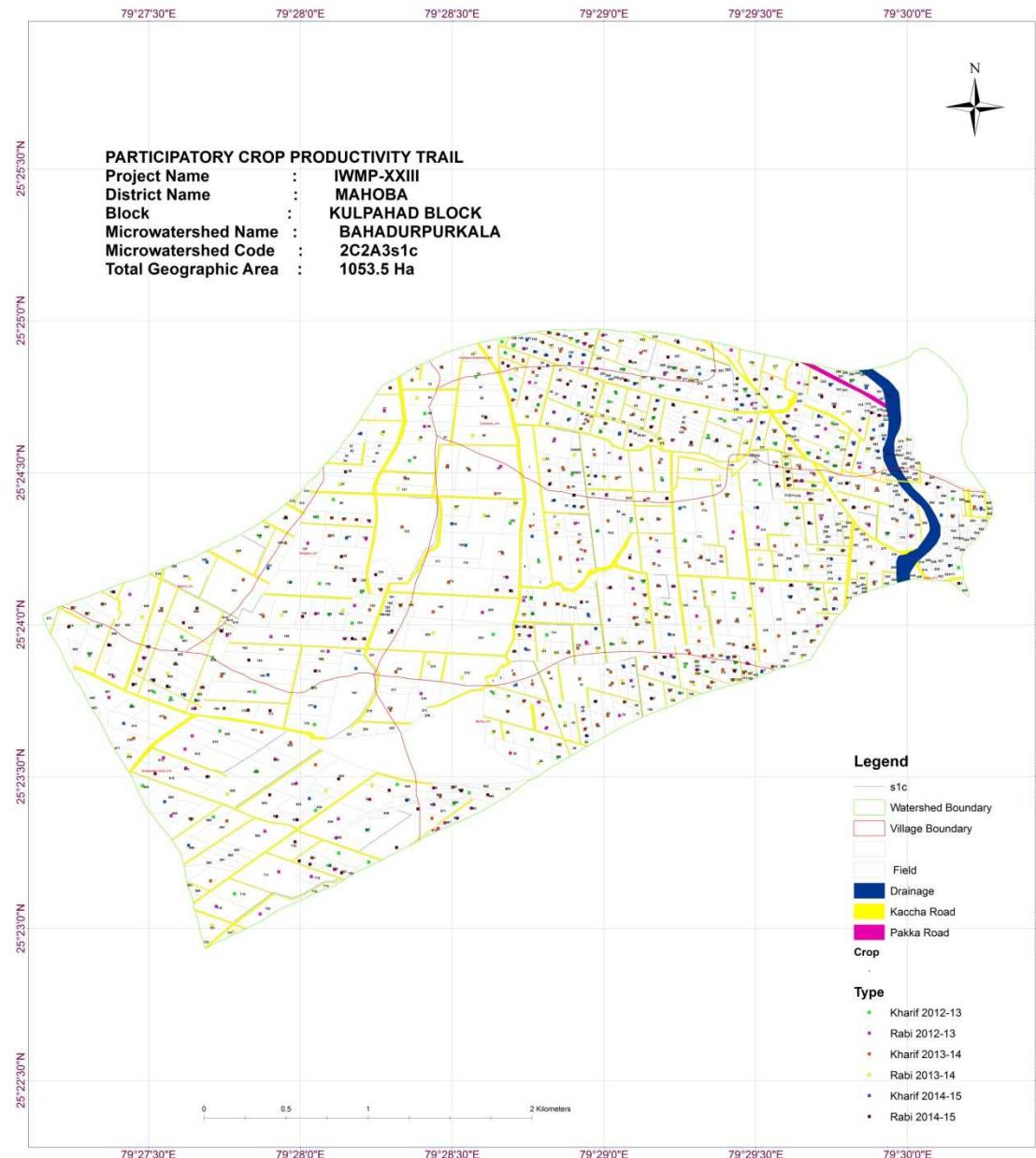


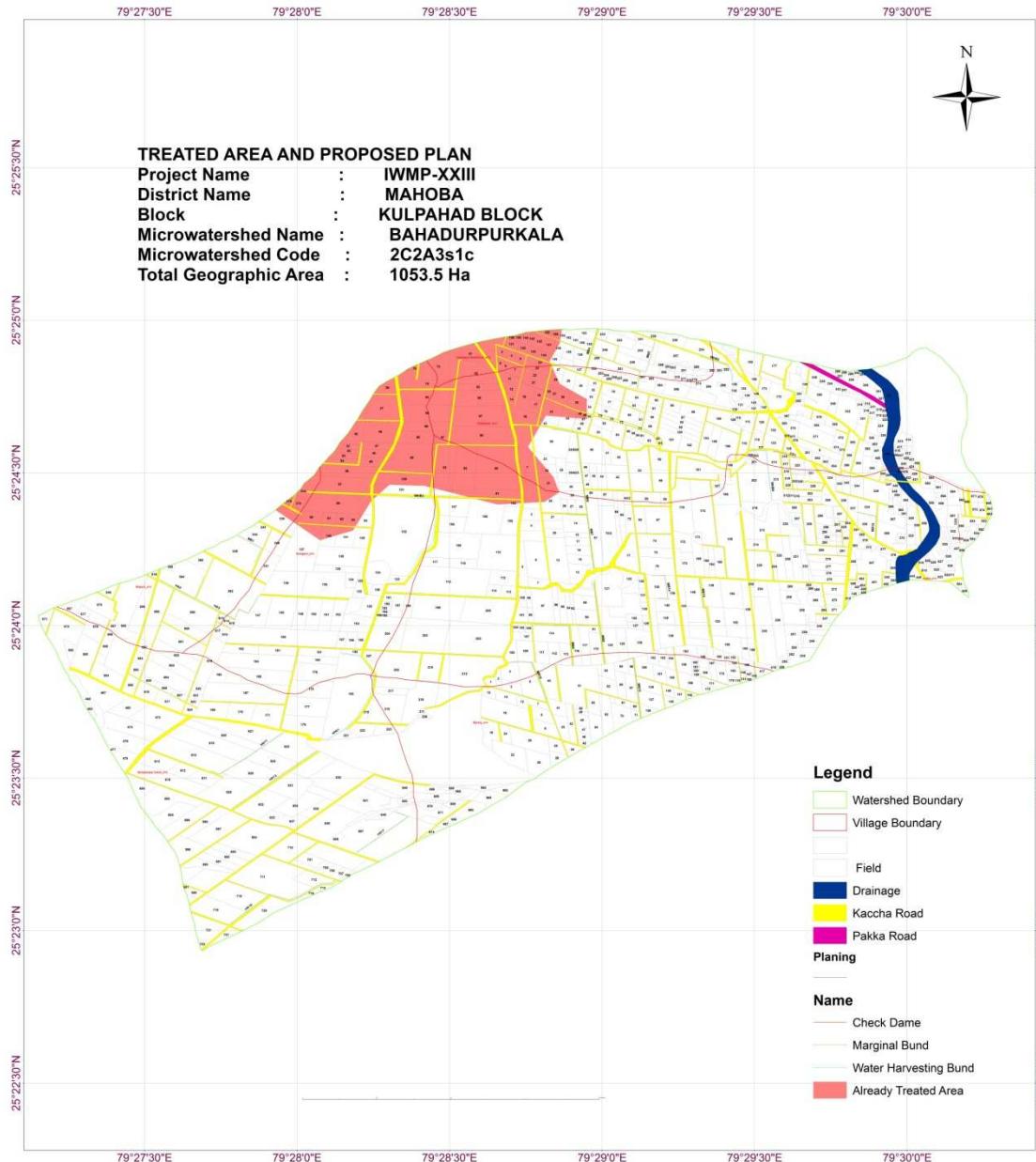


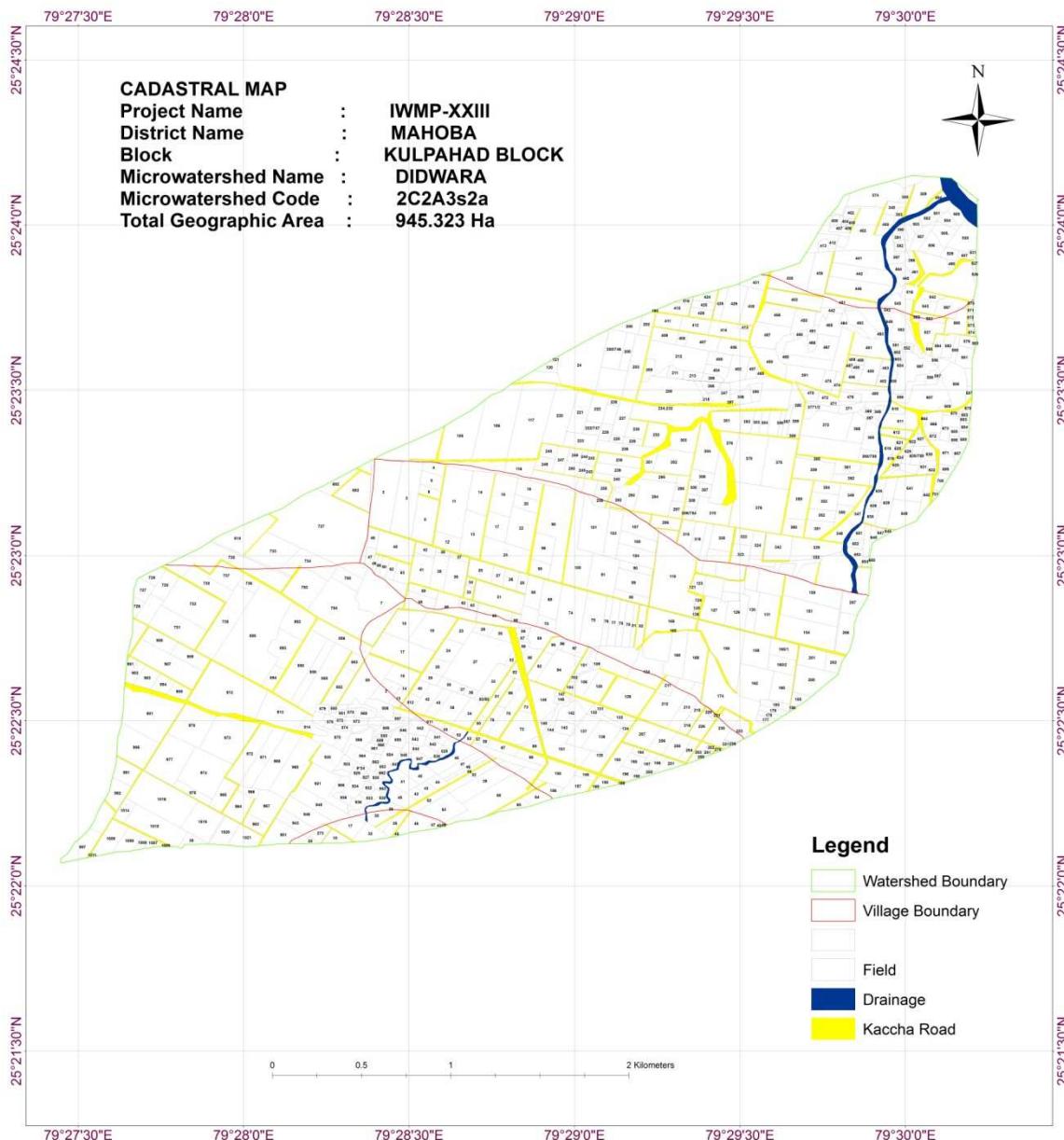


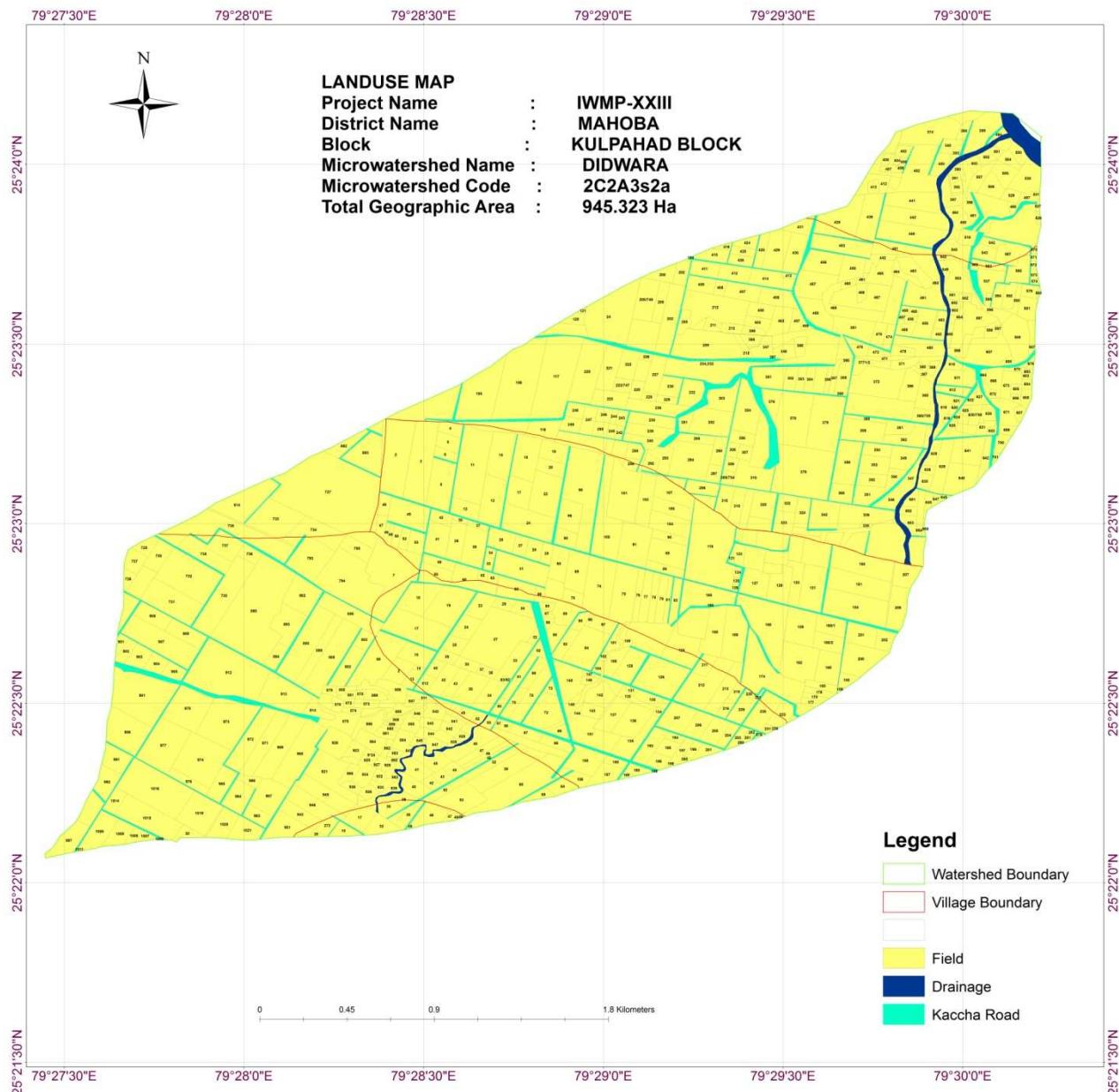


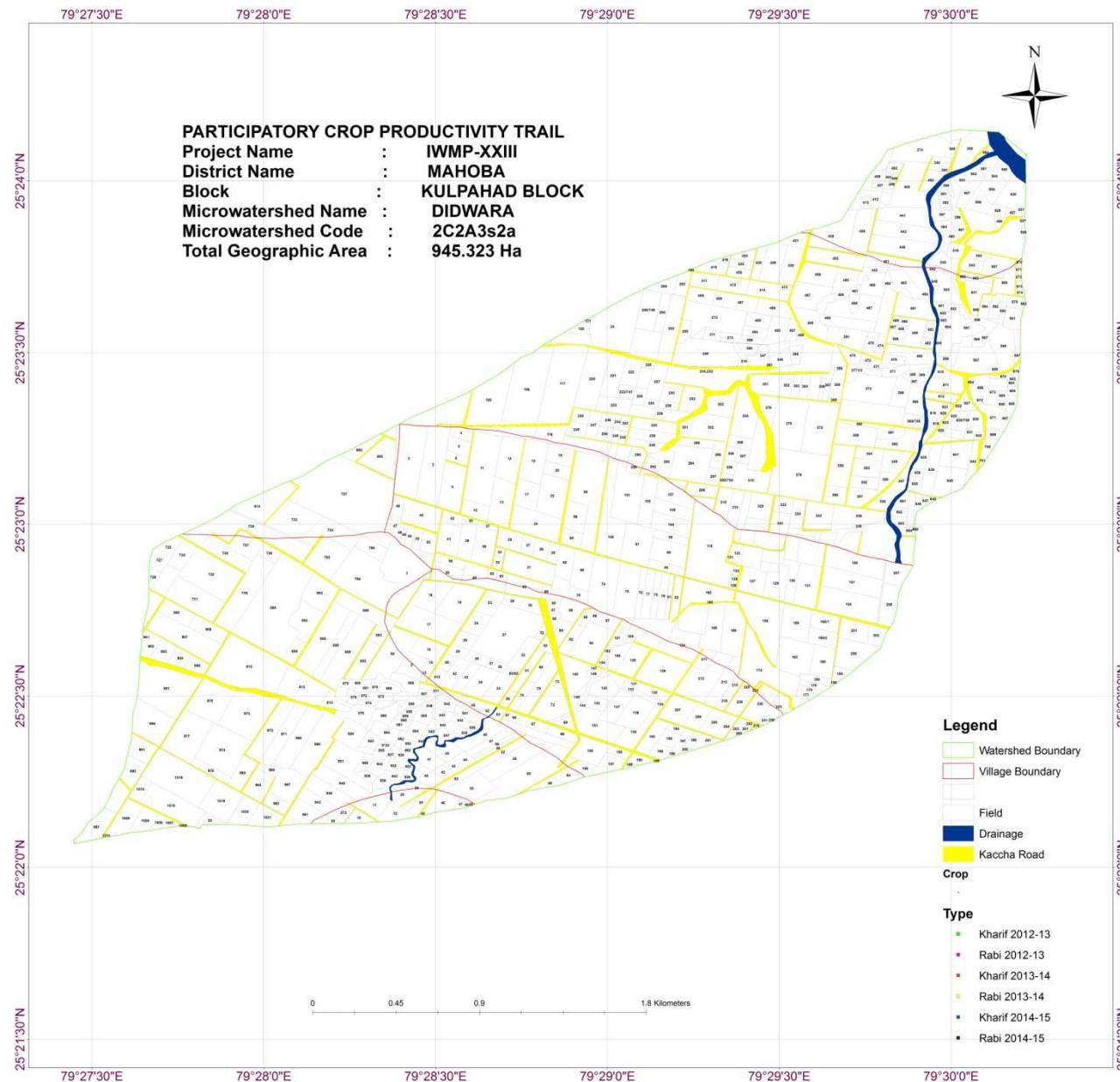


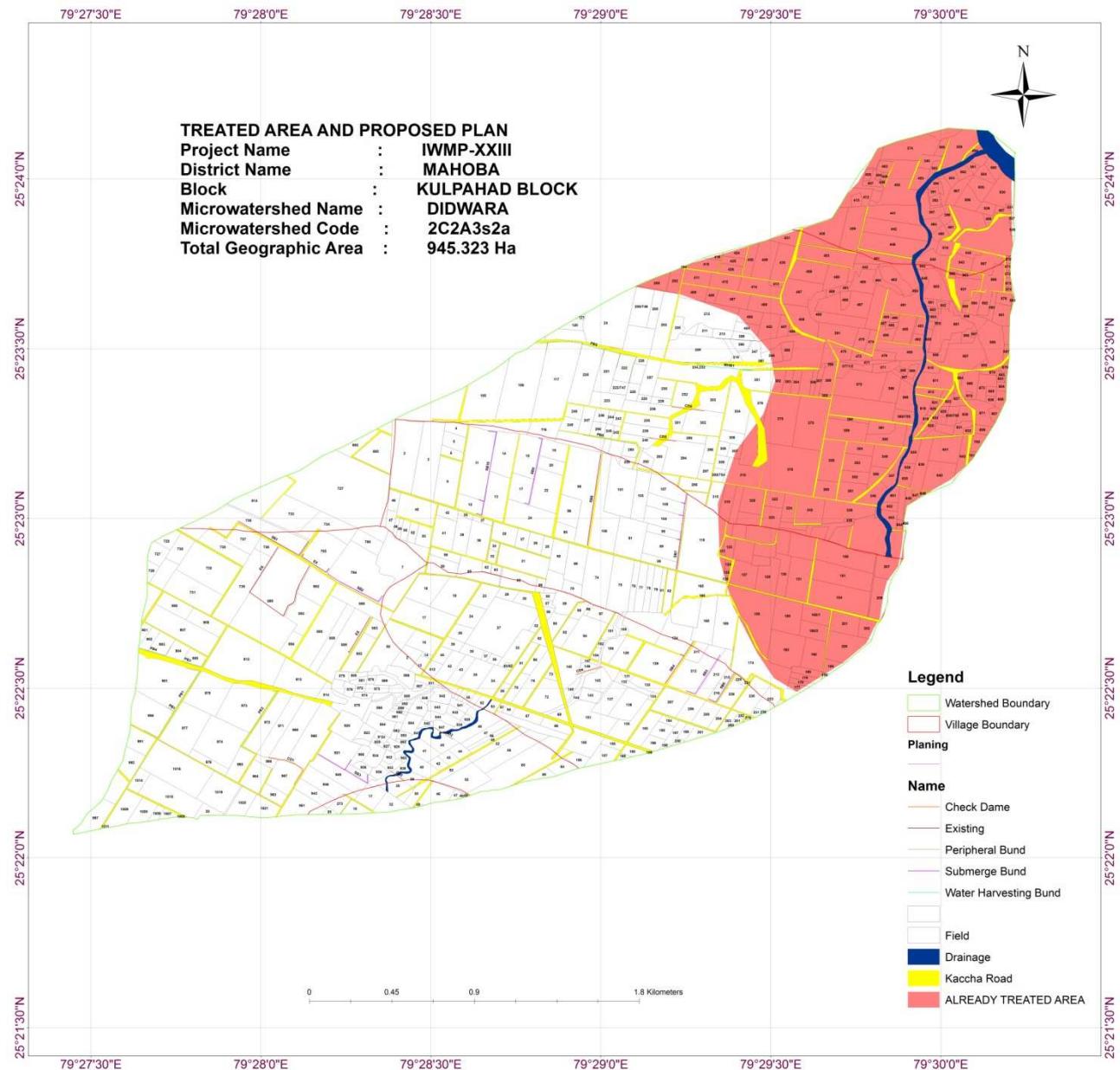


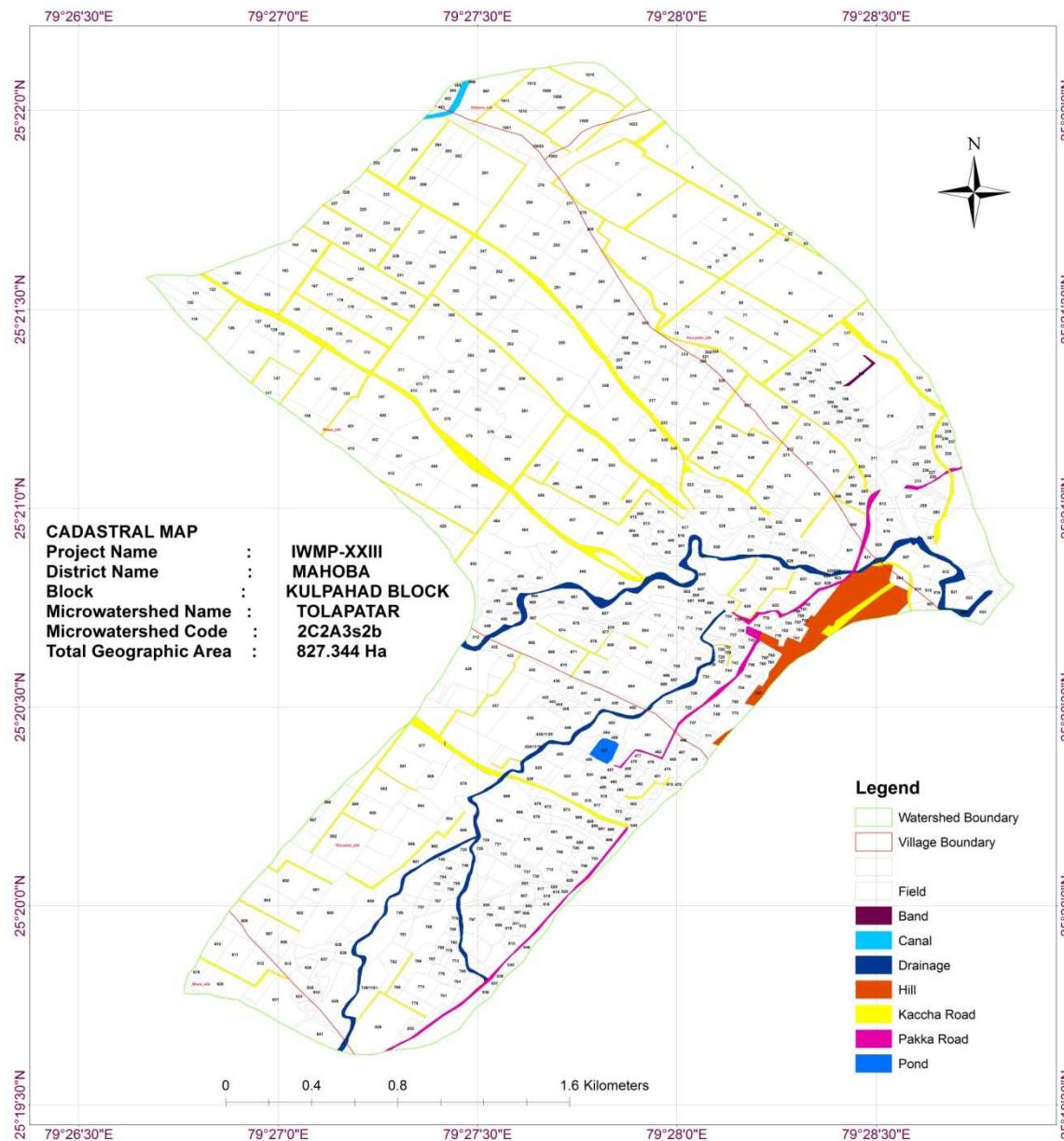


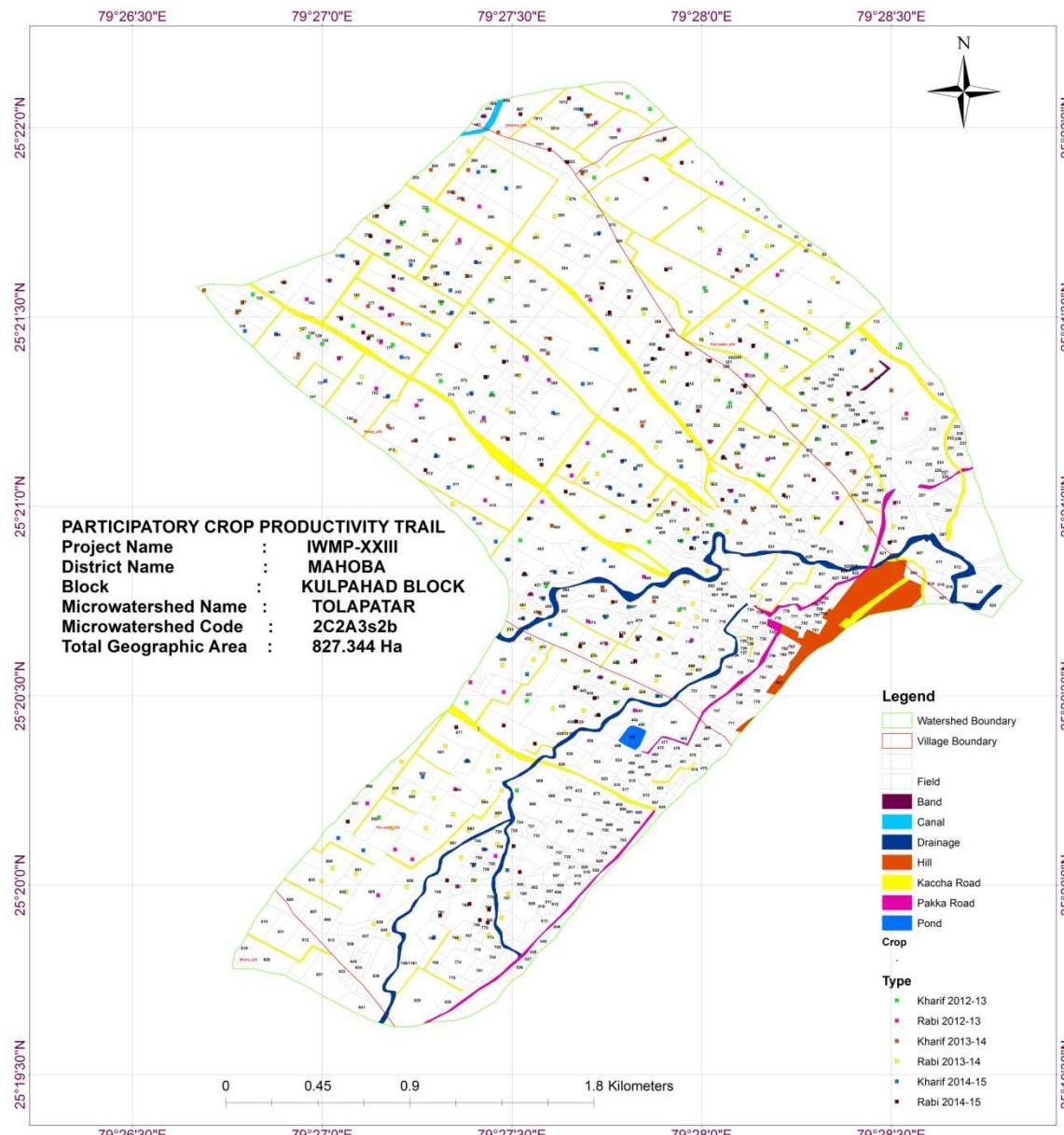


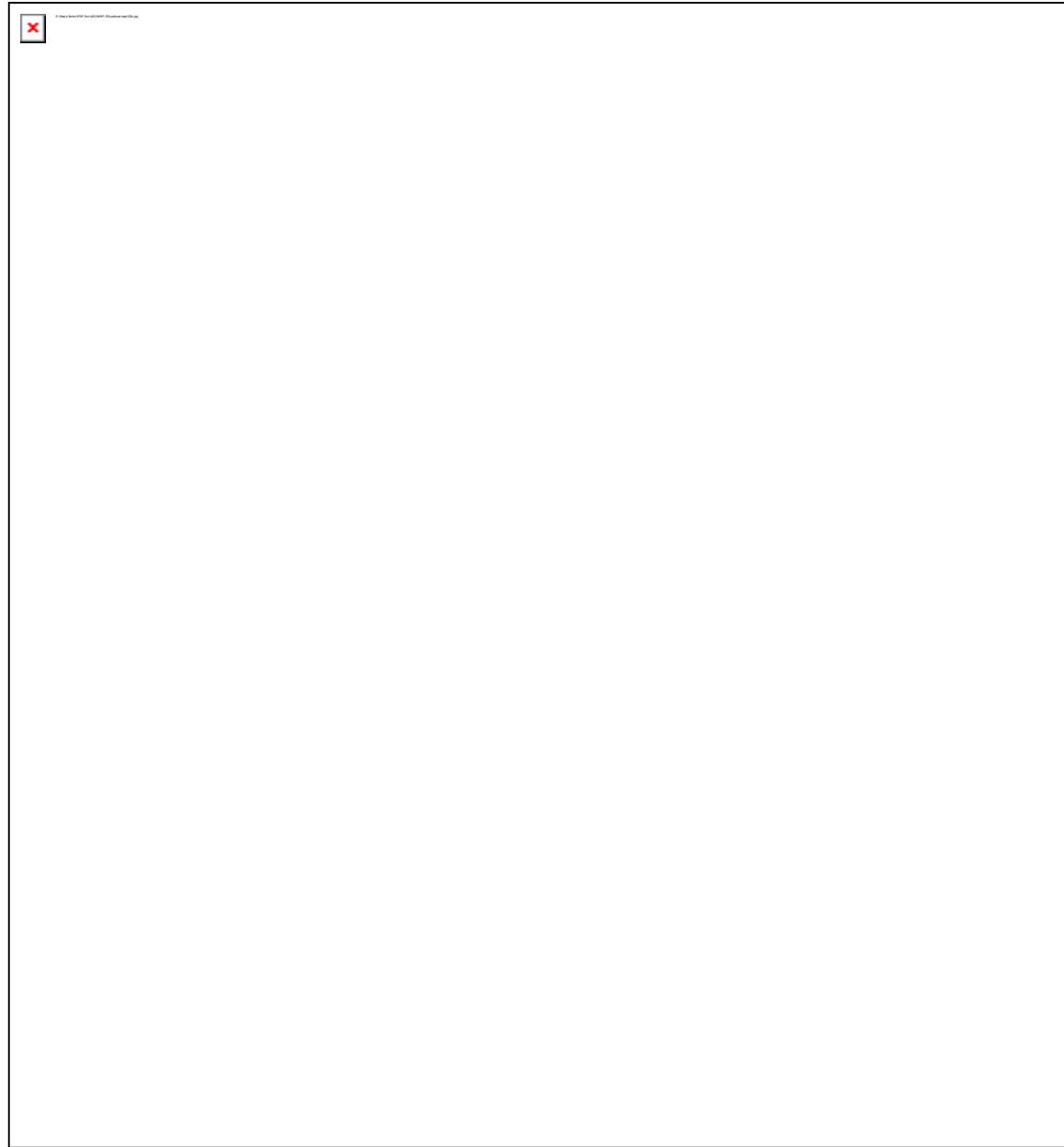


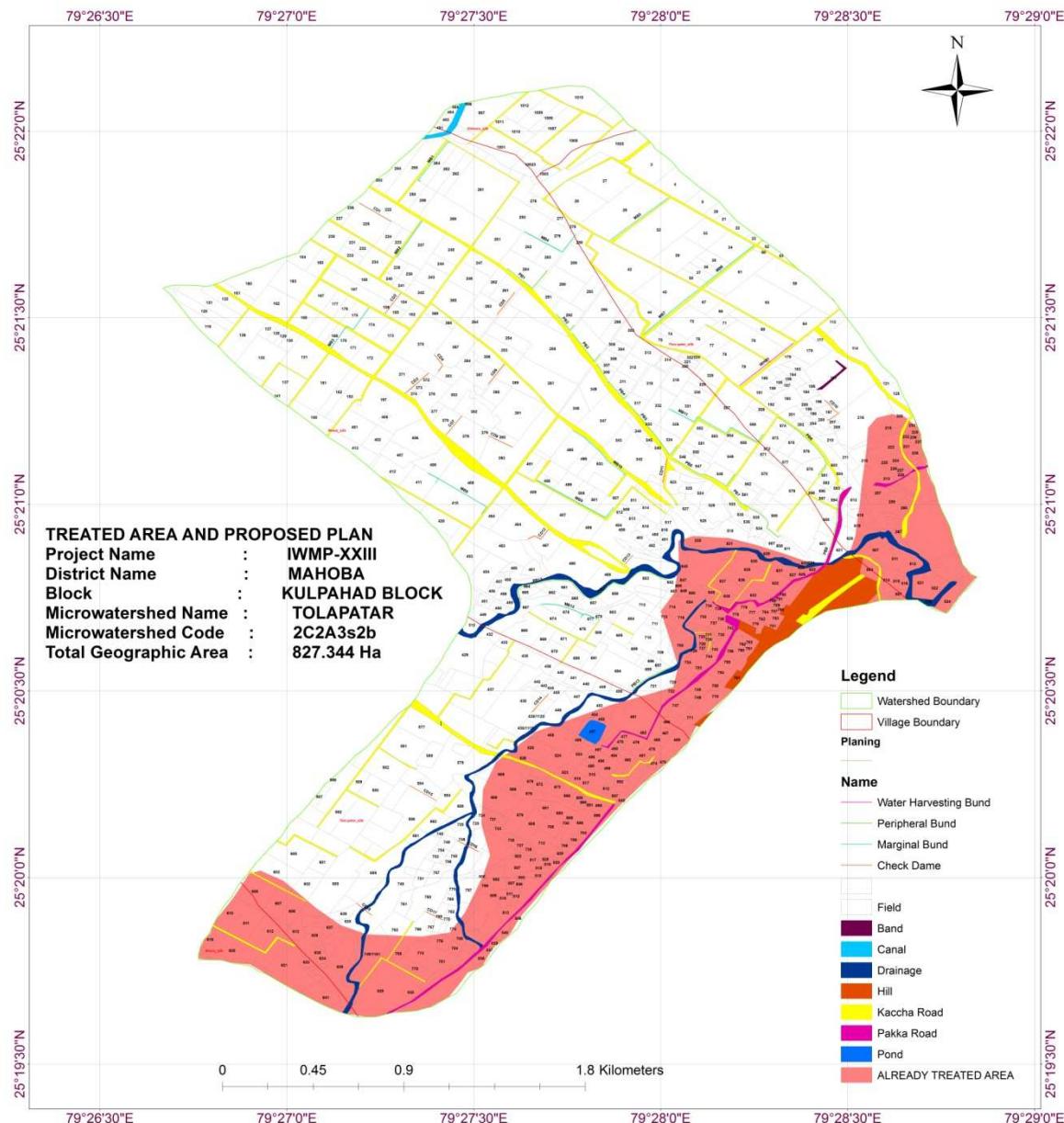


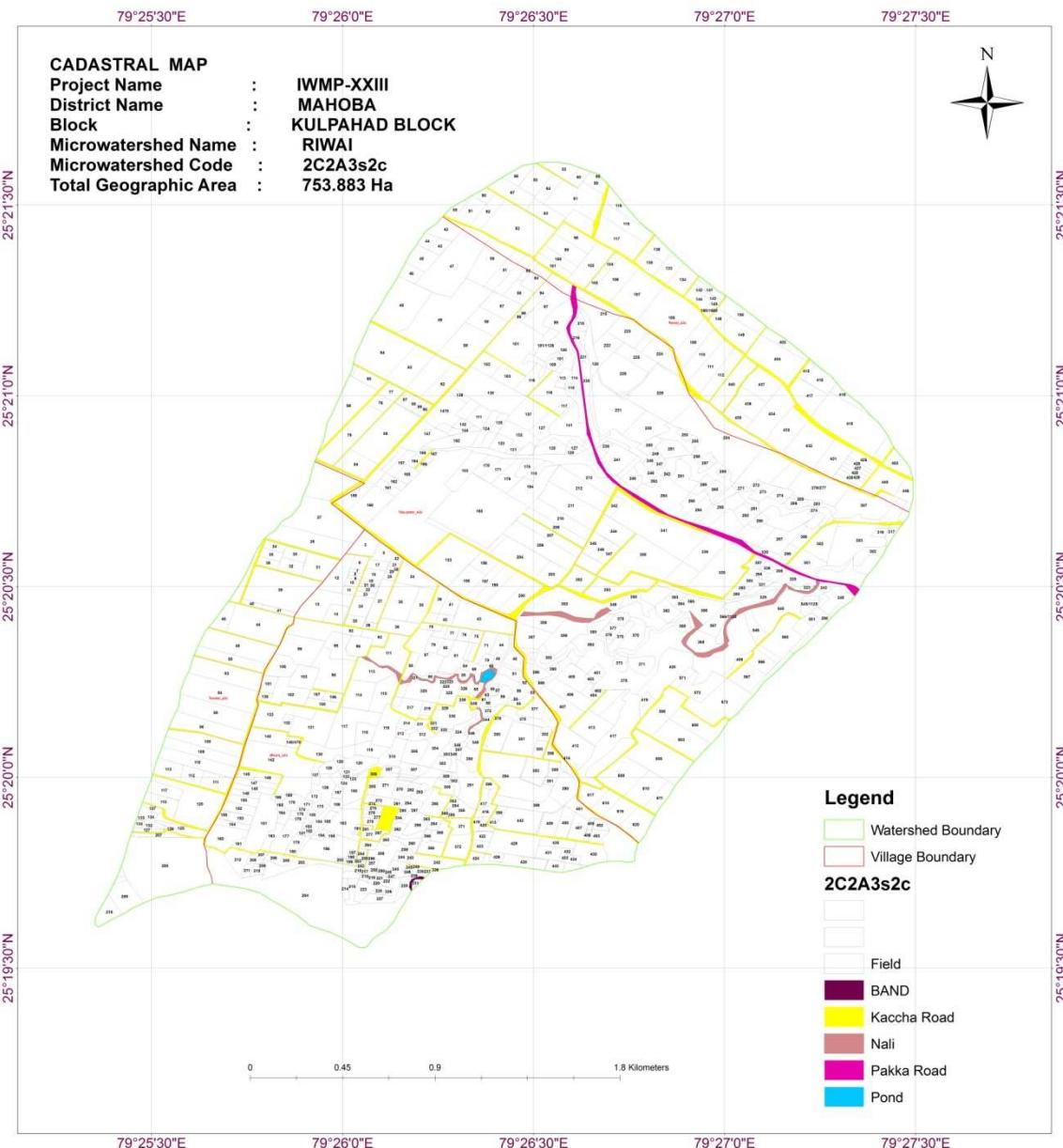


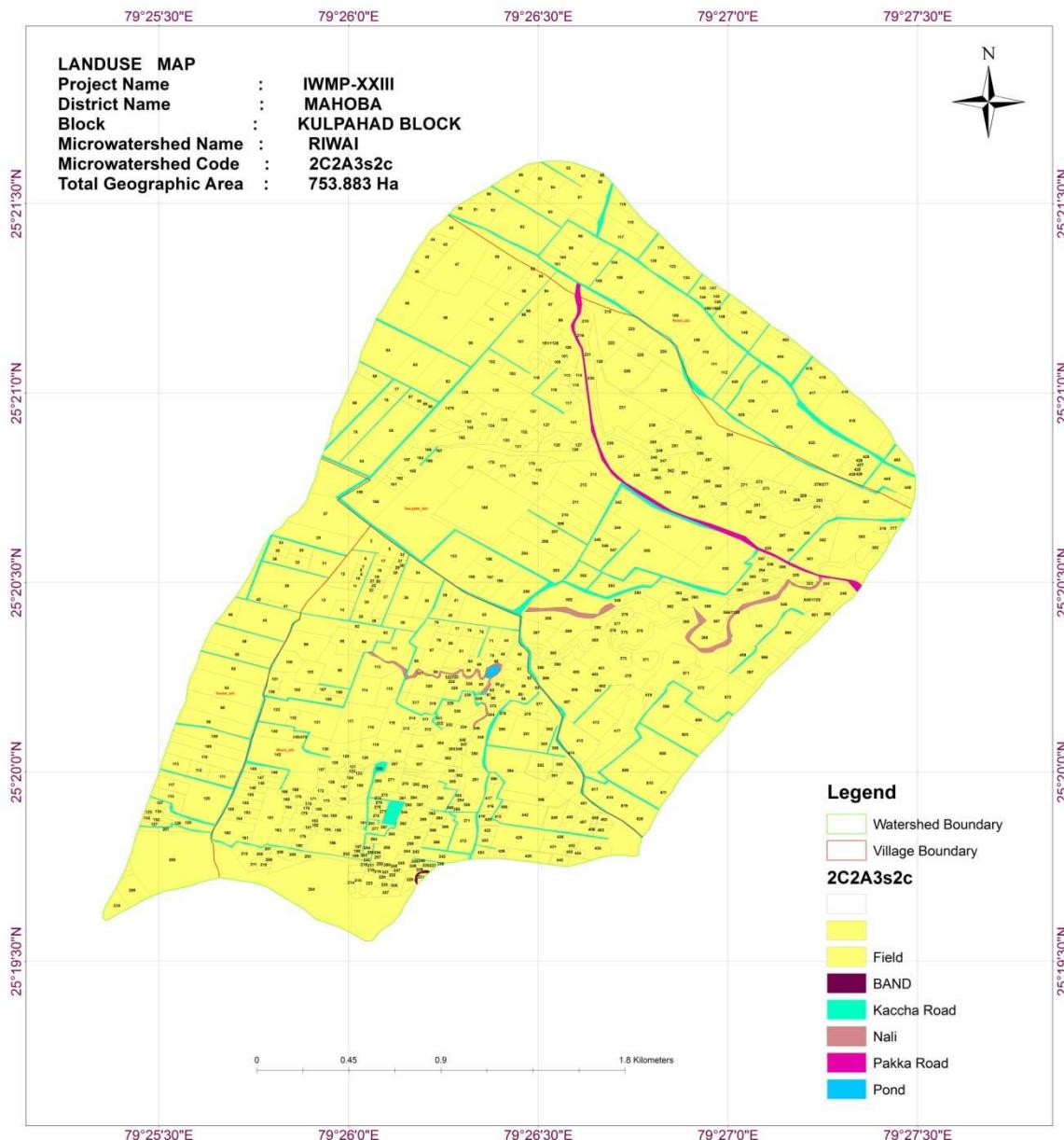


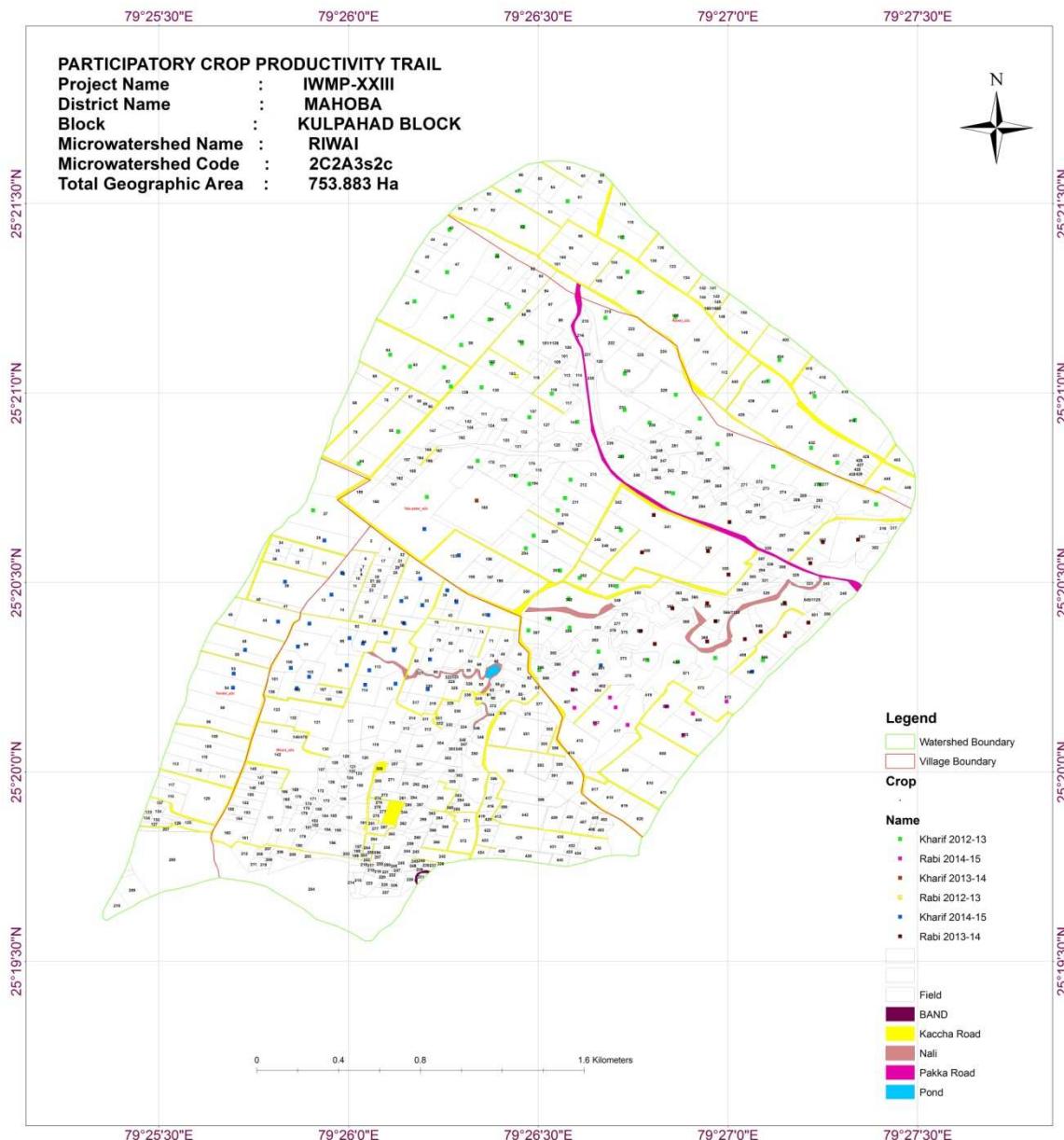


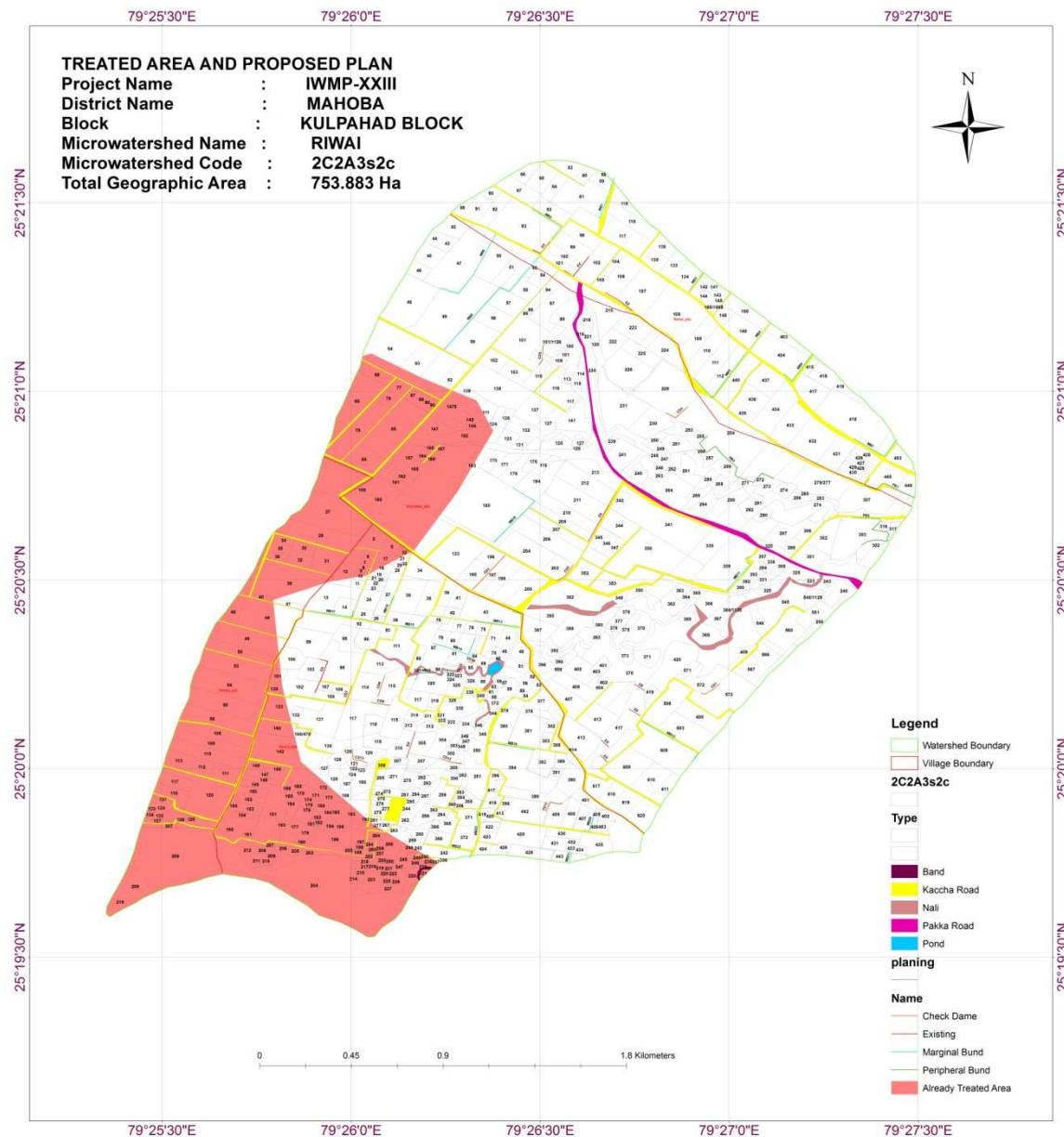


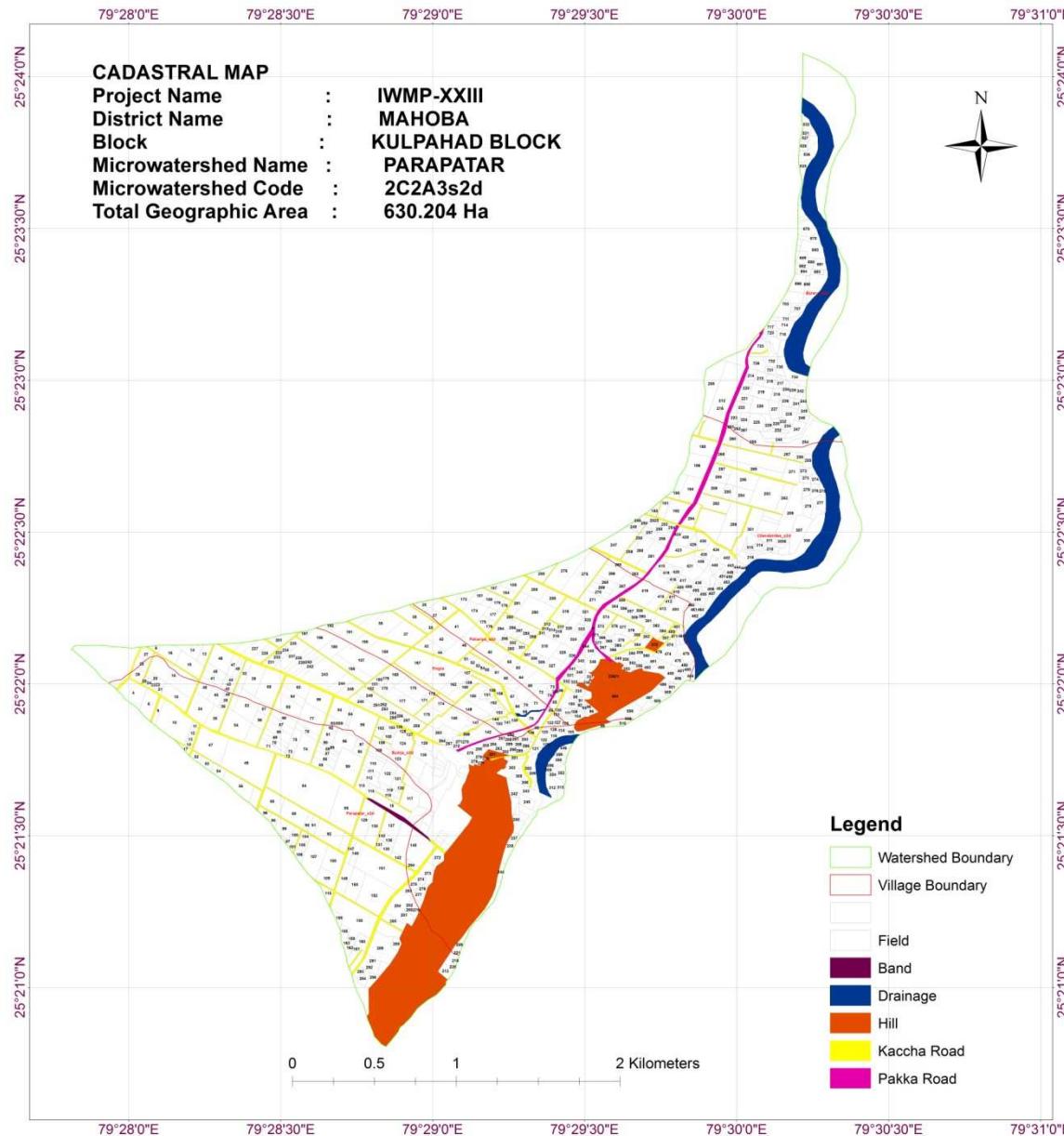


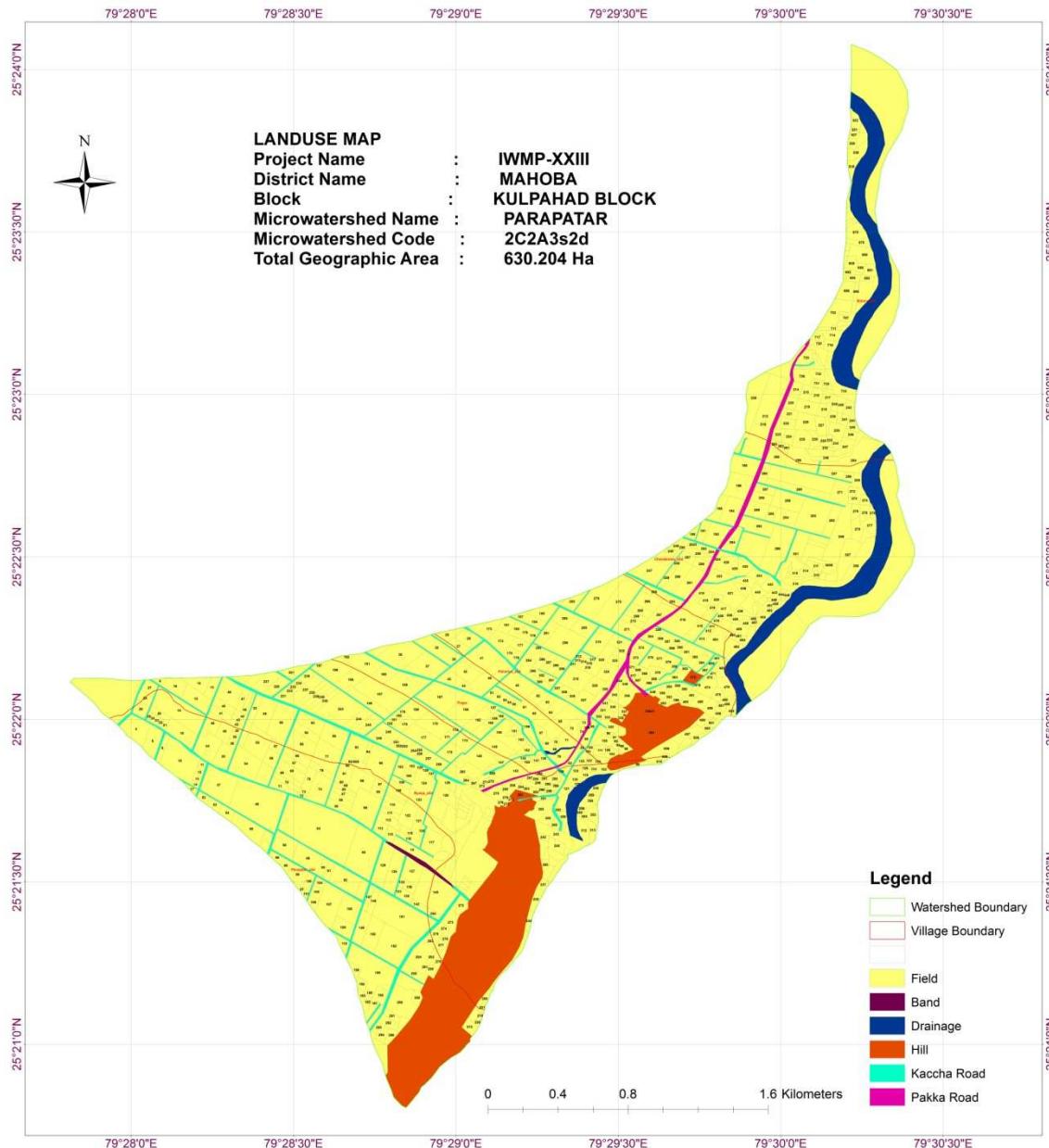


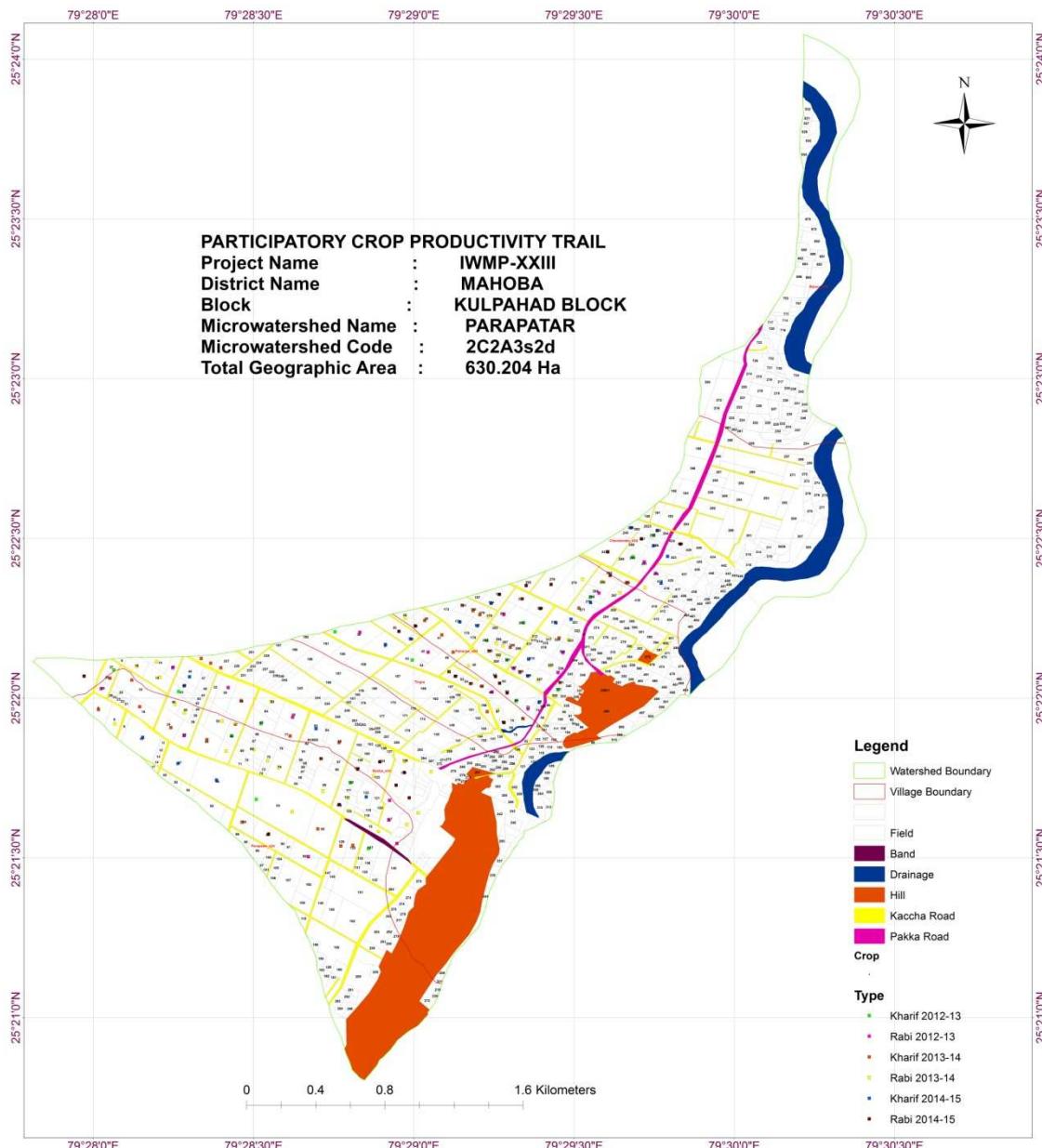


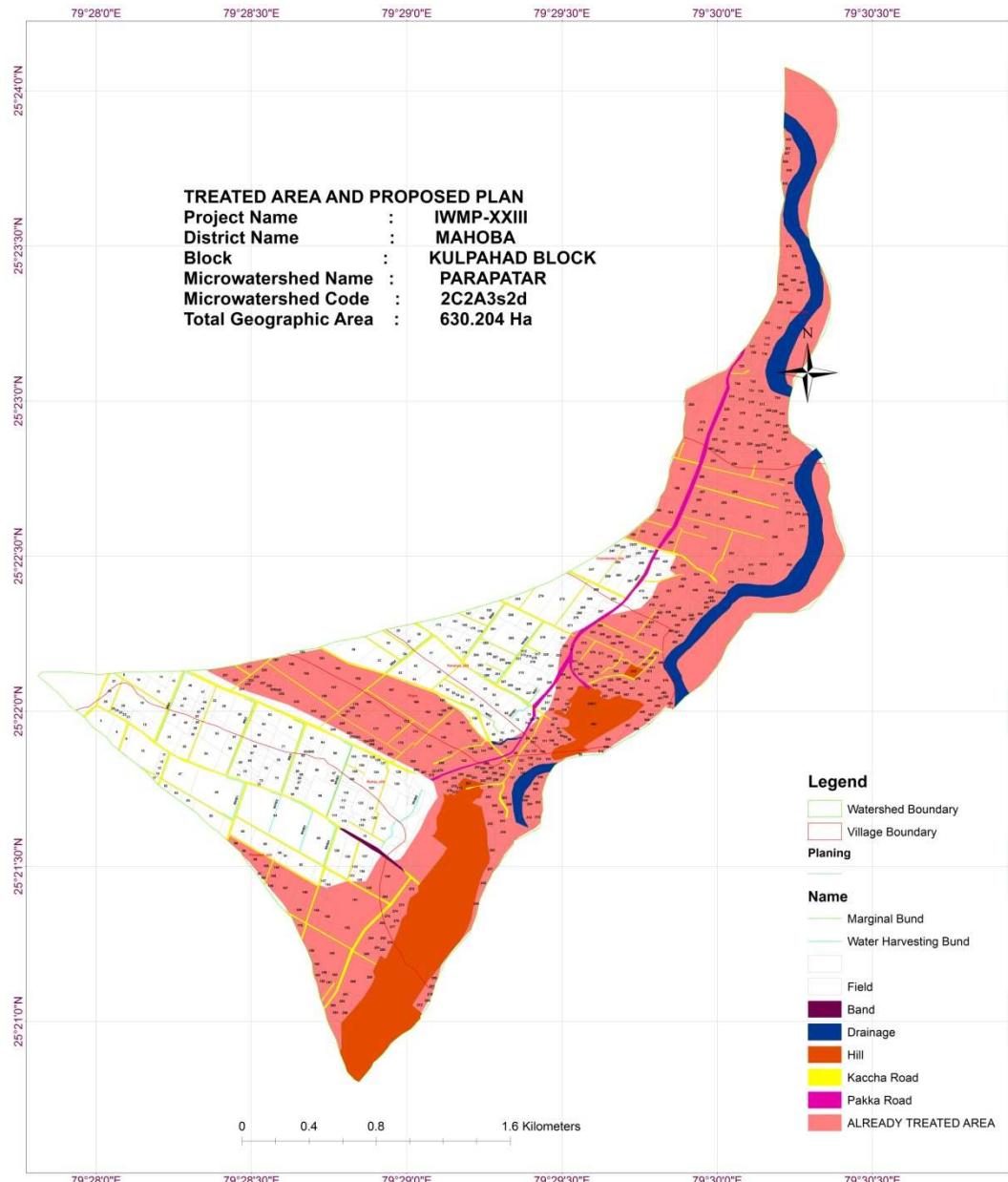


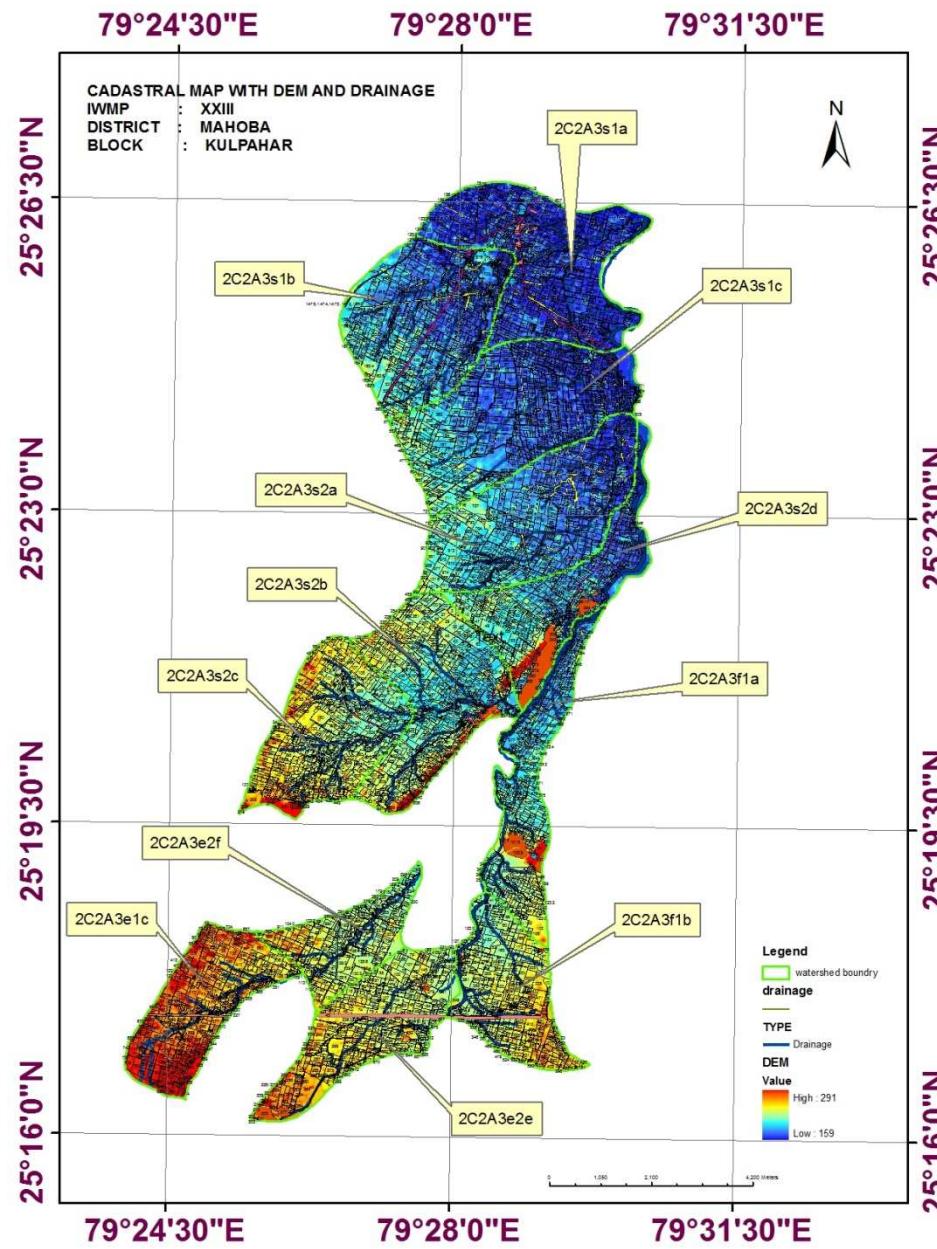


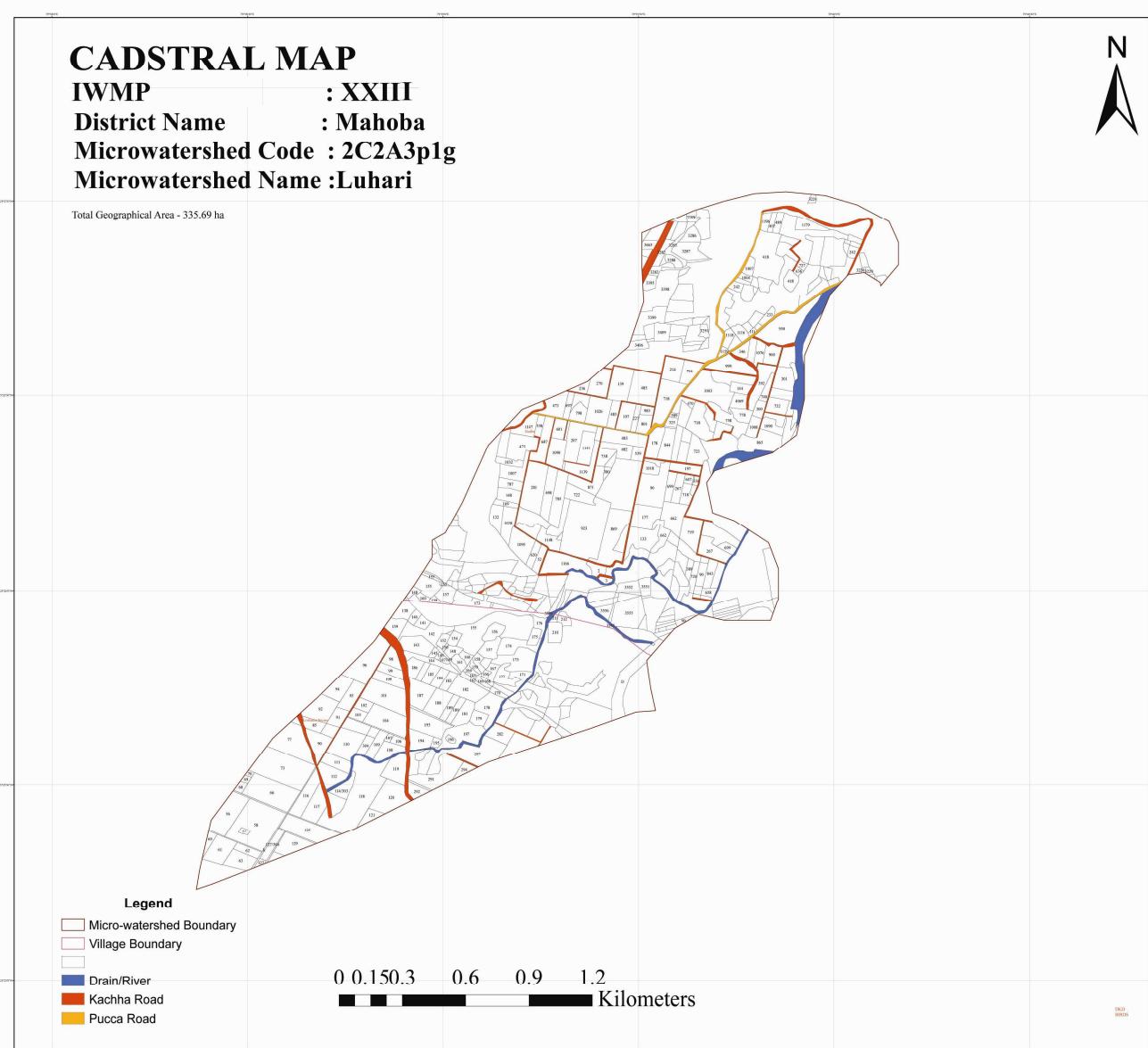












TREATED AREA AND PROPOSED PLAN MAP

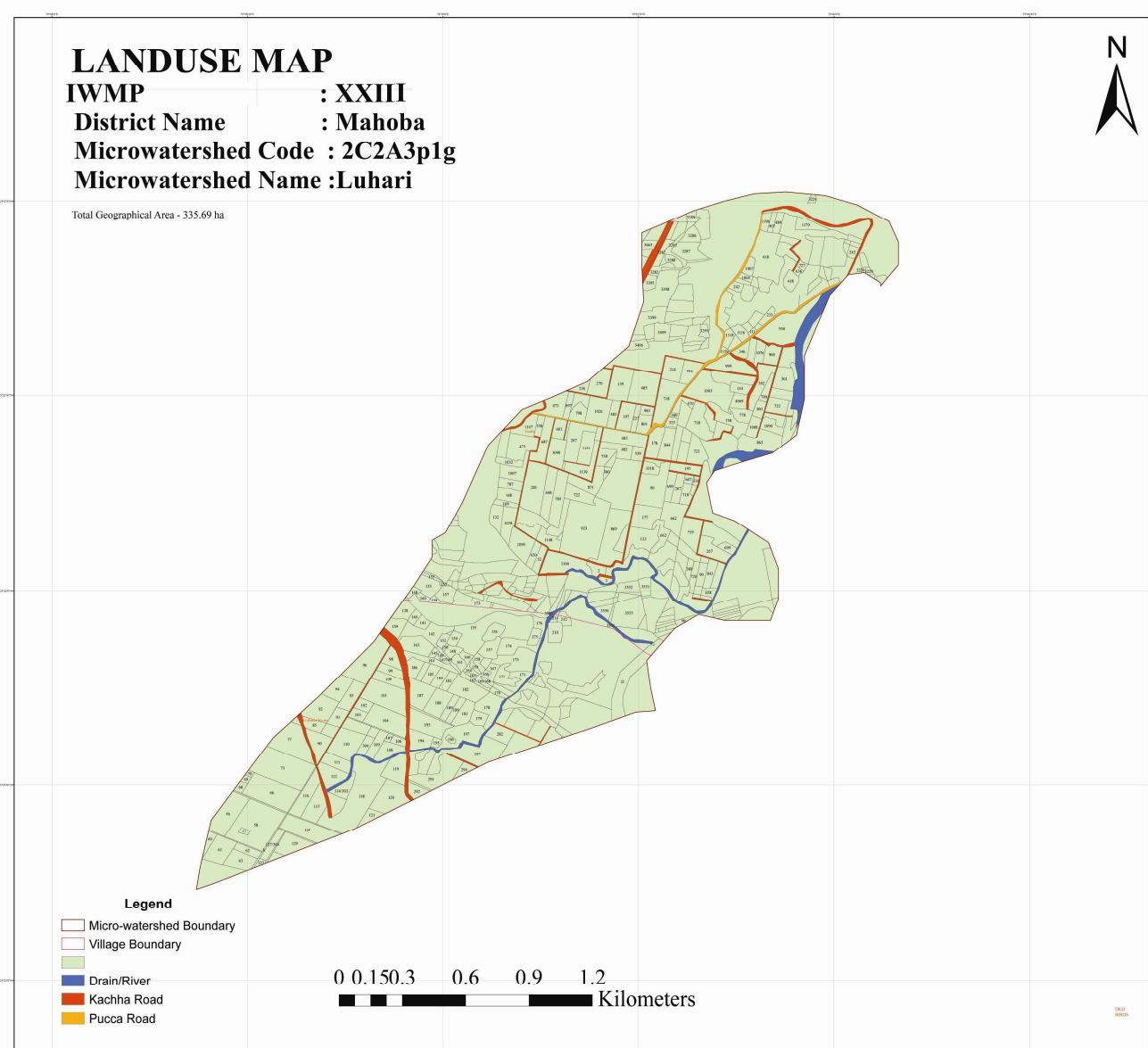
IWMP : XXIII
District Name : Mahoba
Microwatershed Code : 2C2A3p1g
Microwatershed Name : Luhari



Total Geographical Area : 335.69 ha
RBC Area : 169.48 ha
Treatable Area : 140 ha
Cultivated Area : 261.83 ha

Legend
Micro-watershed Boundary
Village Boundary
Drain/River
Kachha Road
Pucca Road
Planning
Chack dam
Submerge Bund
Already Treated Area

0 0.150.3 0.6 0.9 1.2 Kilometers



PARTICIPATORY CROP DEMONSTRATION TRIALS

IWMP : XXIII
District Name : Mahoba
Microwatershed Code : 2C2A3p1g
Microwatershed Name : Luhari



Total Geographical Area - 335.69 ha

Legend

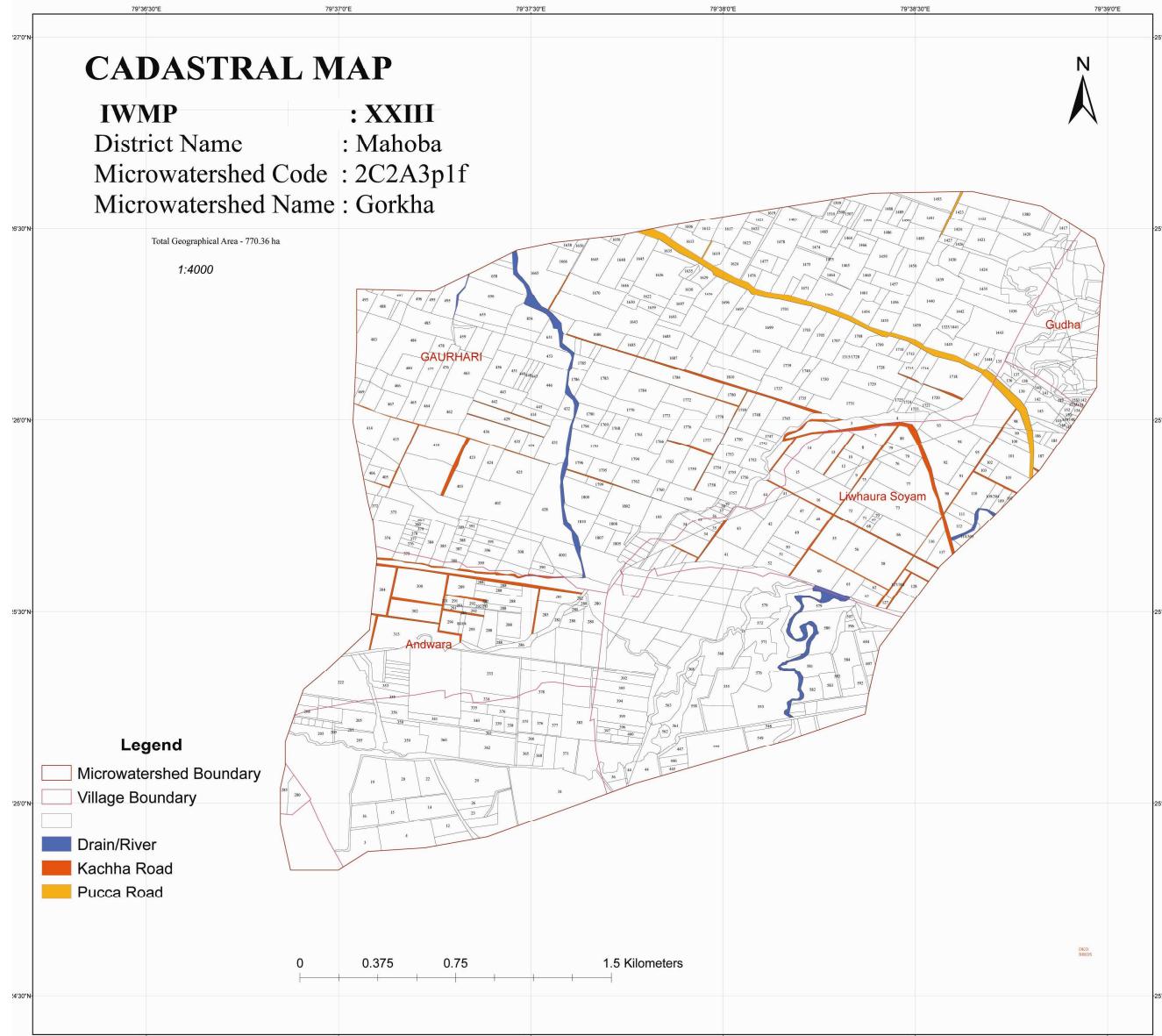
Micro-watershed Boundary
Village Boundary

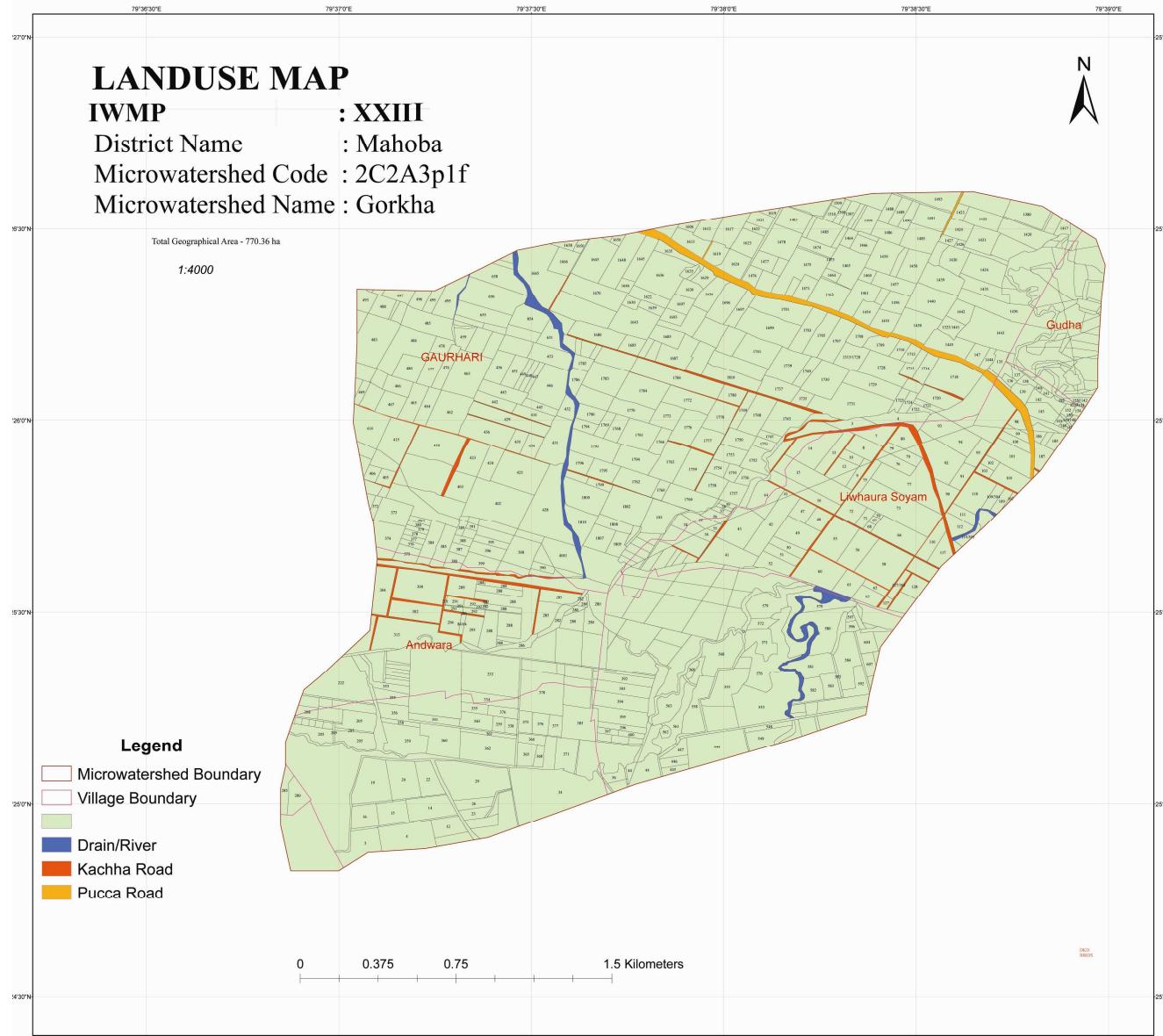
Drain/River
Kachha Road
Pucca Road

Crop Demonstration

- Kharif 2012-13
- Kharif 2013-14
- Kharif 2014-15
- Rabi 2012-13
- Rabi 2013-14
- Rabi 2014-15

0 0.150.3 0.6 0.9 1.2 Kilometers



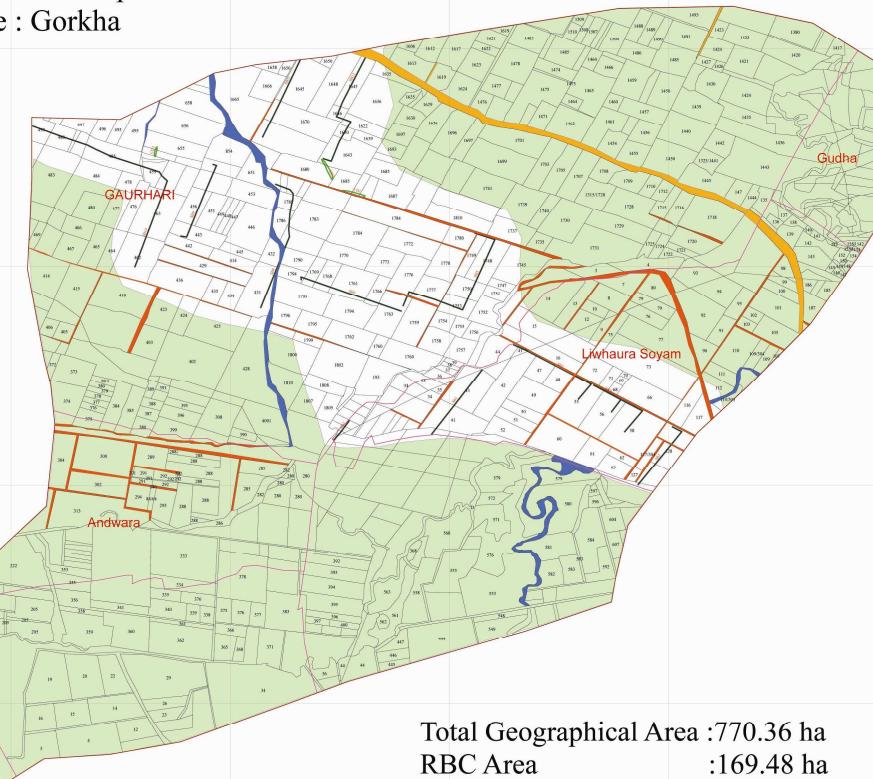


TREATED AREA AND PROPOSED PLAN MAP

IWMP : XXIII

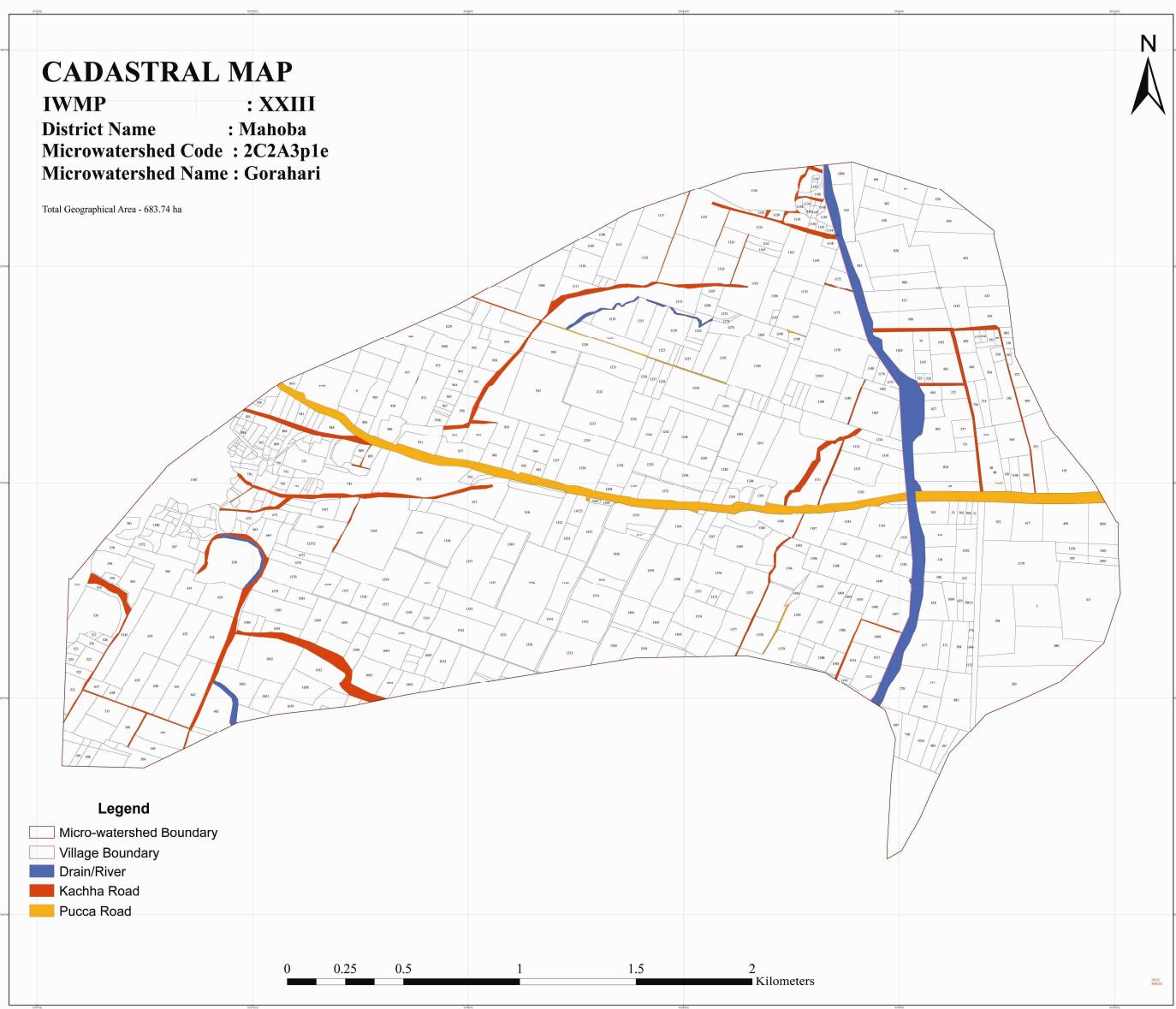
District Name : Mahoba
 Microwatershed Code : 2C2A3p1f
 Microwatershed Name : Gorkha

1:4000



Total Geographical Area : 770.36 ha
 RBC Area : 169.48 ha
 Treatable Area : 210 ha
 Cultivated Area : 600.88 ha

0 0.375 0.75 1.5 Kilometers



PARTICIPATORY CROP DEMONSTRATION TRIALS

IWMP

: XXIII

District Name

: MAHOBIA

Microwatershed Code : 2C2A3p1e

Microwatershed Name : Gorhari

Total Geographical Area - 683.74



Legend

Micro-watershed Boundary

village Boundary

Drain/river

Kachha Road

Pucca Road

Crop Demonstration

■ Kharif 2012-13

■ Kharif 2013-14

■ Kharif 2014-15

■ Rabi 2012-13

■ Rabi 2013-14

■ Rabi 2014-15

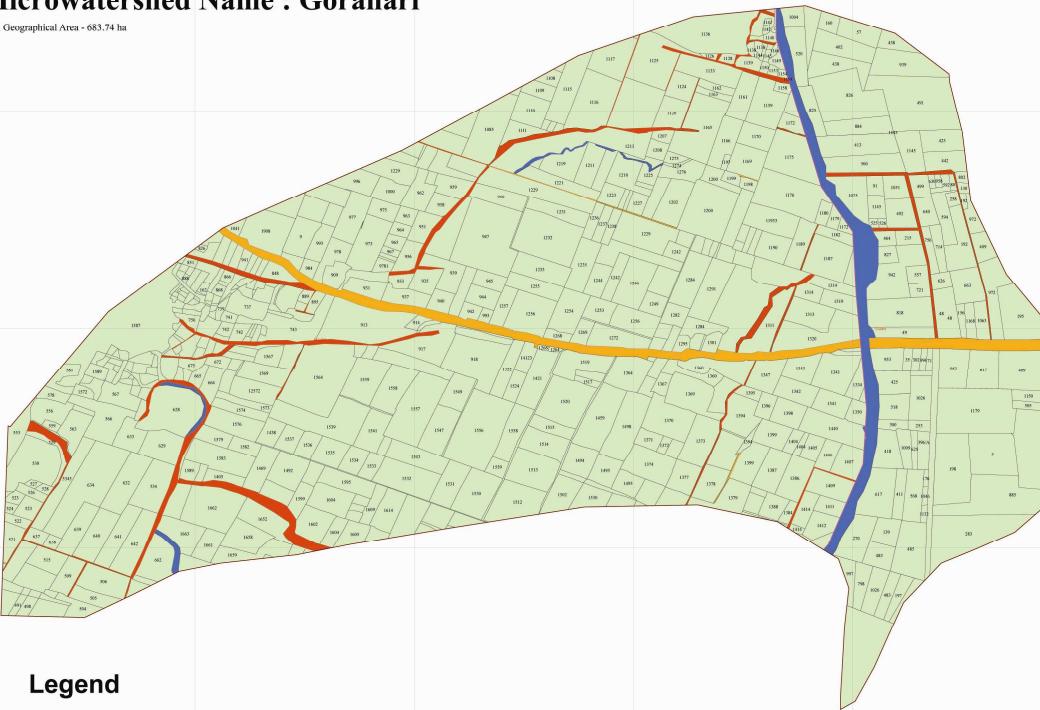
0 0.35 0.7 1.4 2.1 2.8 Kilometers



LANDUSE MAP

IWMP : XXIII
District Name : Mahoba
Microwatershed Code : 2C2A3p1e
Microwatershed Name : Gorahari

Total Geographical Area - 683.74 ha



Legend

- Micro-watershed Boundary
- Village Boundary
- Drain/River
- Kachha Road
- Pucca Road

0 0.25 0.5 1 1.5 2 Kilometers

TREATED AREA AND PROPOSED PLAN MAP

IWMP : XXIII
District Name : Mahoba
Microwatershed Code : 2C2A3p1e
Microwatershed Name : Gorhari

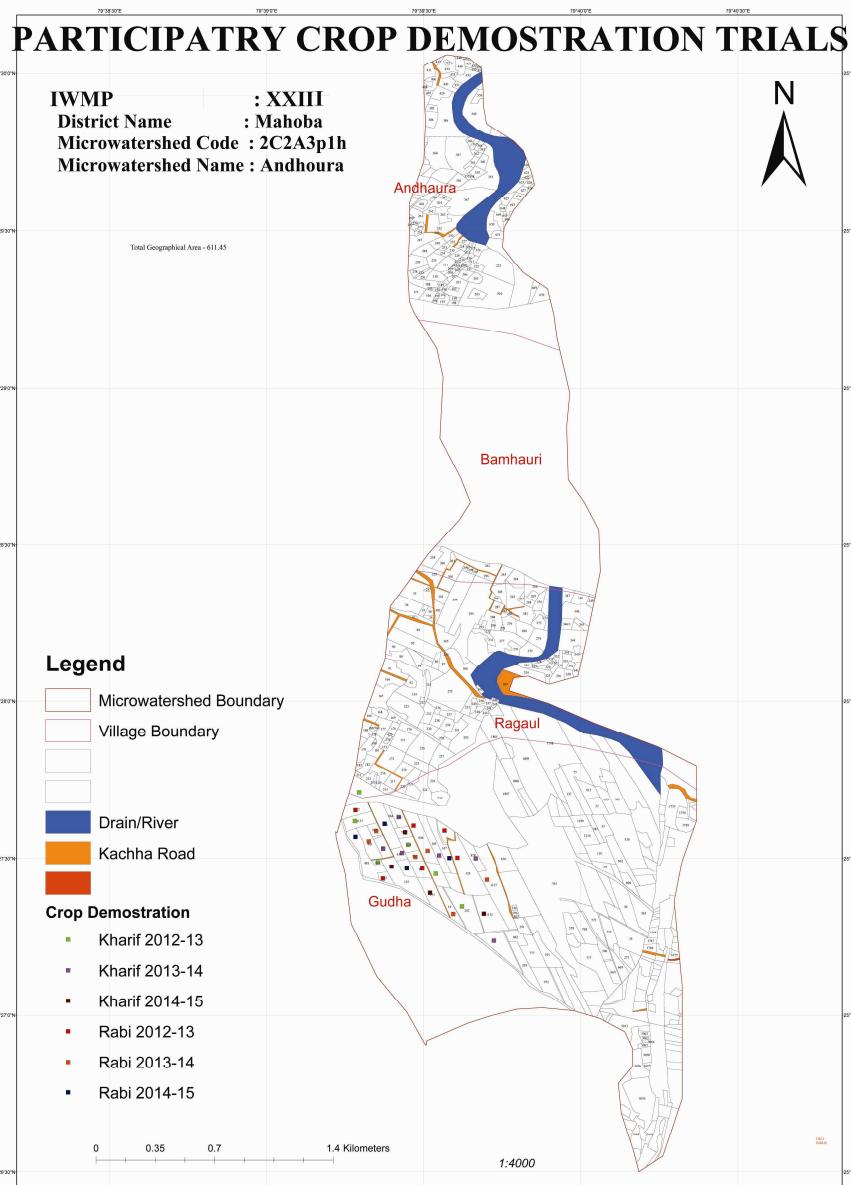
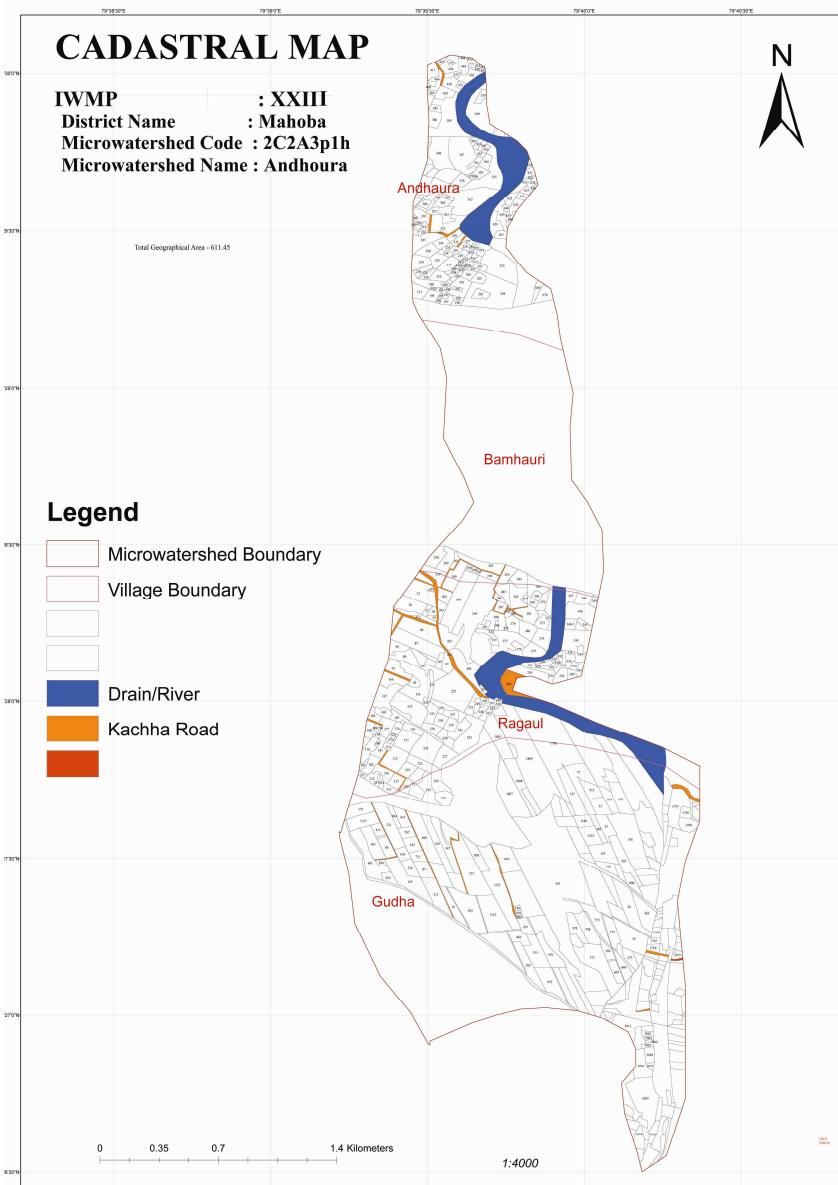
Total Geographical Area : 683.74 ha
RBC Area : 150.42 ha
Treatable Area : 440.62 ha
Cultivated Area : 533.31 ha

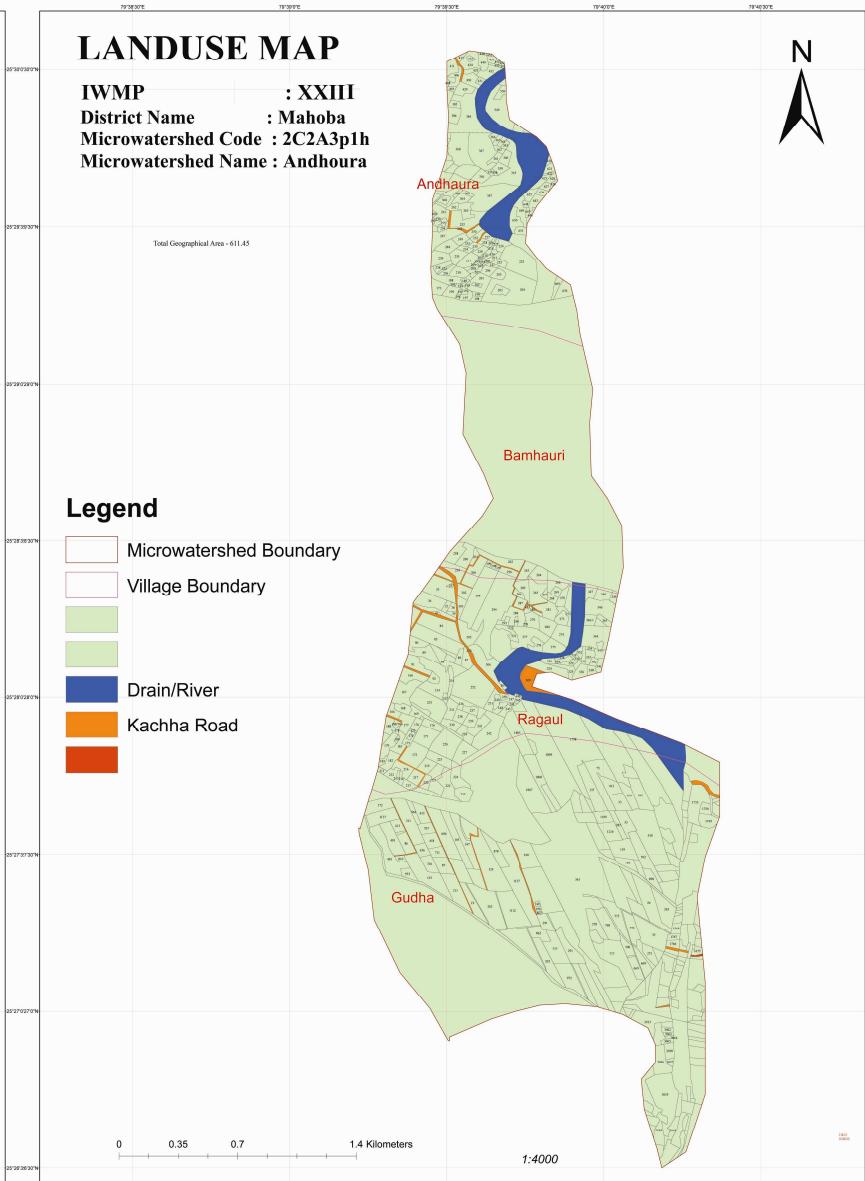
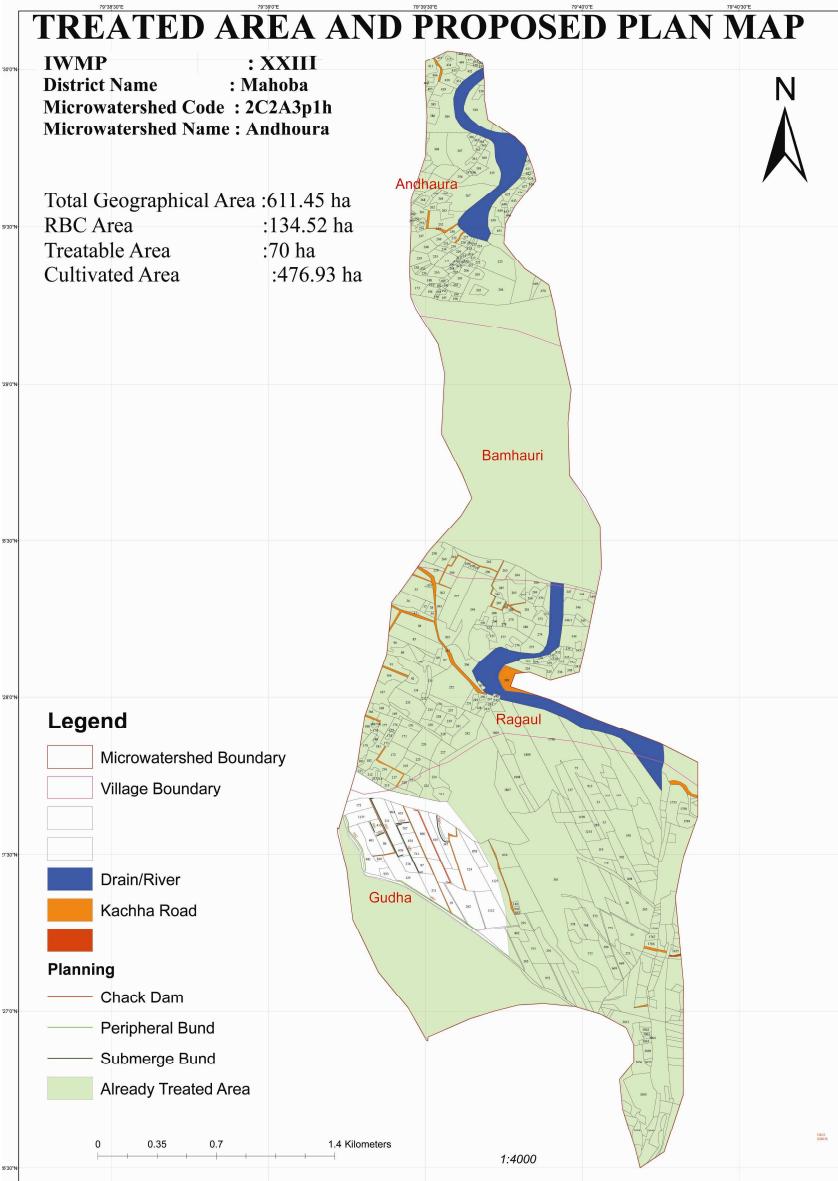


Legend

- Micro-watershed Boundary
- Village Boundary
- Drain/River
- Kachha Road
- Pucca Road
- Chack Dam
- Peripheral Bund
- Submerge Bund
- Water Harvesting Bund
- Already Treated Area

0 0.3 0.6 1.2 1.8 2.4 Kilometers





CADASTRAL MAP

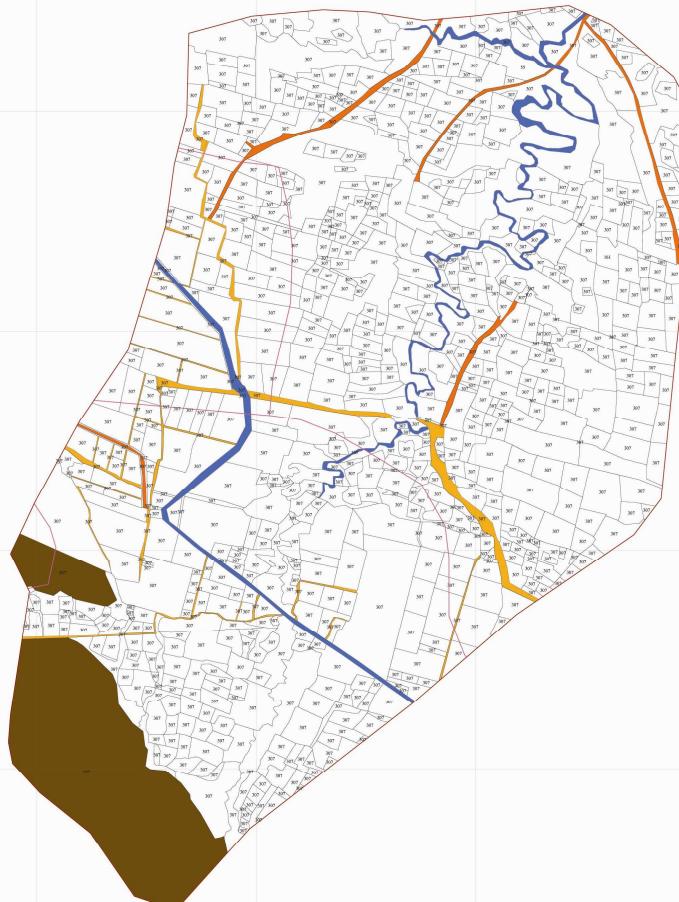
IWMP

: XXIII

District Name : MAHOB
Microwatershed Code : 2C2A3q2b
Microwatershed Name : Gugaura

1:4000

Total Geographical Area - 496.54 ha



Legend

- Micro-Watershed Boundary
- Village Boundary
-
- Drain/River
- Kachha Road
- Pucca Road
- Hill
- f

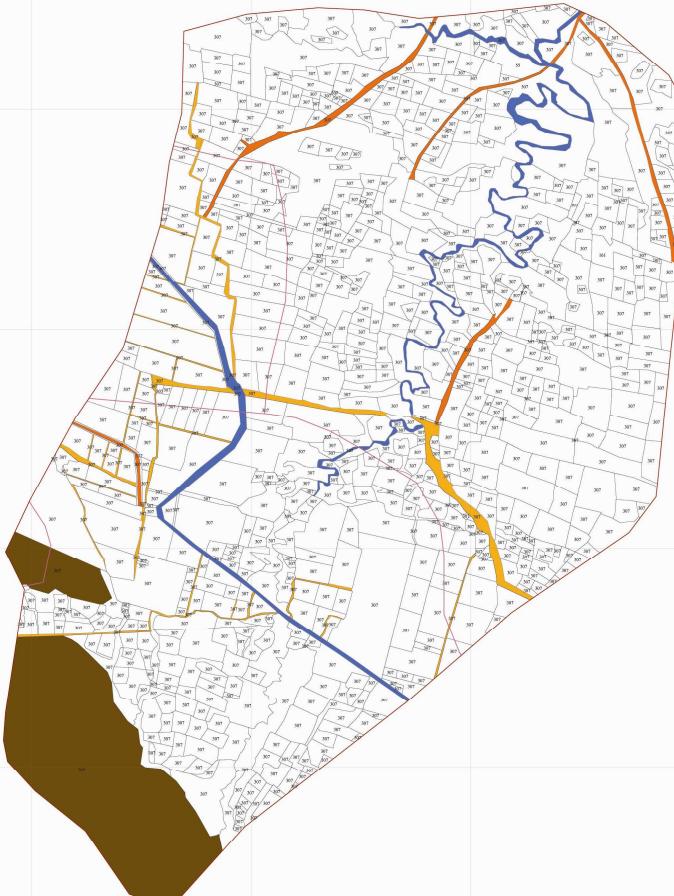


LAND USE MAP

IWMP : XXIII
District Name : MAHOBIA
Microwatershed Code : 2C2A3q2b
Microwatershed Name : Gugaura

1:4000

Total Geographical Area : 565.5 ha



Legend

- Micro-Watershed Boundary
- Village Boundary
- Drain/River
- Kachha Road
- Pucca Road
- Hill
- f

PARTICIPATORY CROP DEMONSTRATION TRIALS

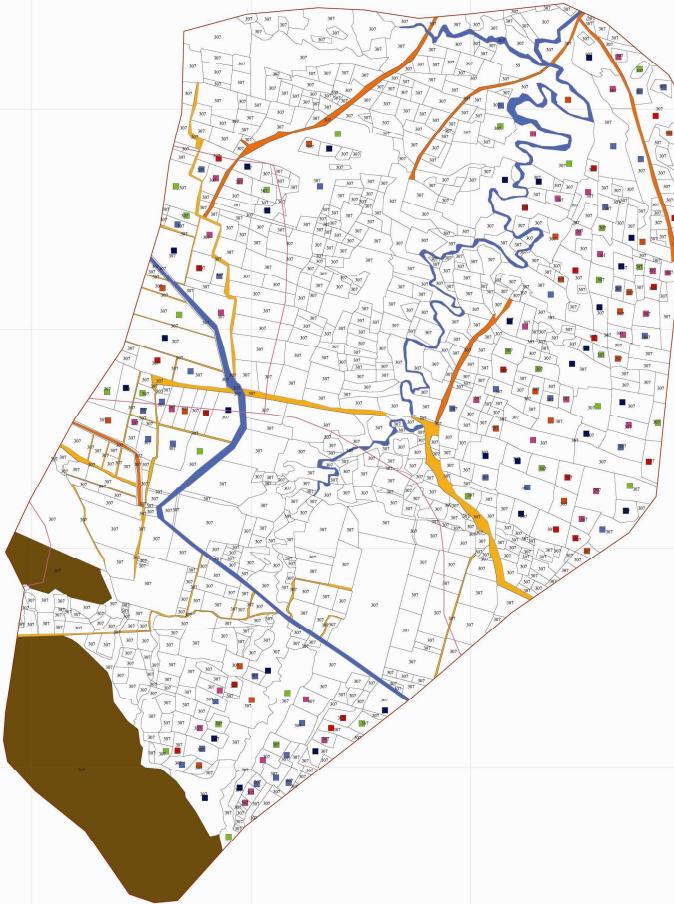
IWMP : XXIII
District Name : MAHOBIA
Microwatershed Code : 2C2A3q2b
Microwatershed Name : Gugaura

1:4000

Total Geographical Area - 496.54 Ha

Legend

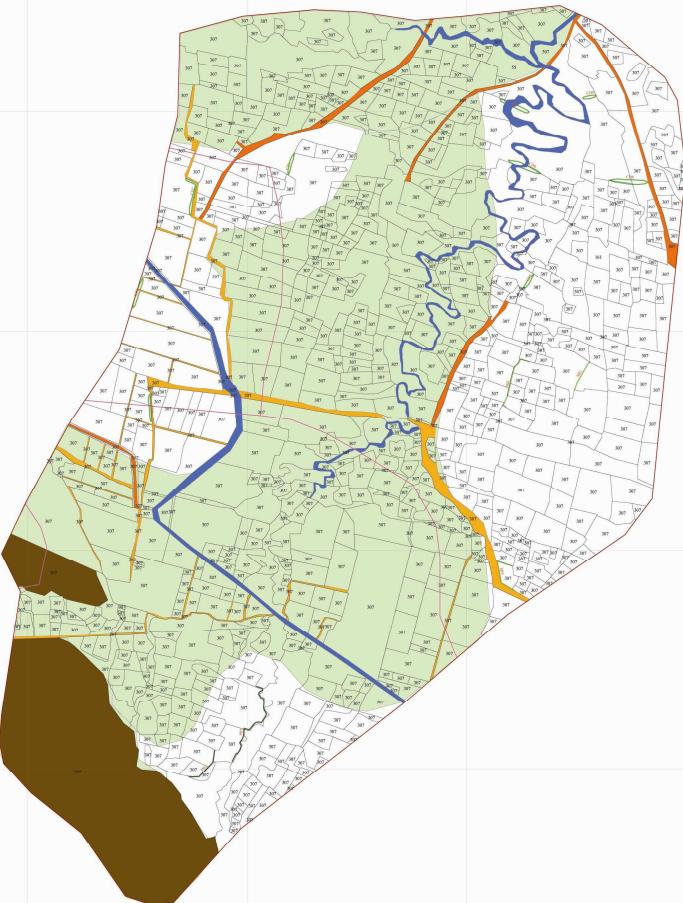
- Micro-Watershed Boundary
- Village Boundary
- Drain/River
- Kachha Road
- Pucca Road
- Hill
- f
- Kharif 2012-13
- Kharif 2013-14
- Kharif 2014-15
- Rabi 2012-13
- Rabi 2013-14
- Rabi 2014-15



TREATED AREA AND PROPOSED PLAN MAP

IWMP : XXIII
District Name : MAHOBIA
Microwatershed Code : 2C2A3q2b
Microwatershed Name : Gugaura

1:4000
Total Geographical Area : 565.5 ha
RBC Area : 144.4 ha
Treatable Area : 188 ha
Cultivated Area : 512.4 ha



Legend

- Micro-Watershed Boundary
- Village Boundary
- Drain/River
- Kachha Road
- Pucca Road
- Hill
- f

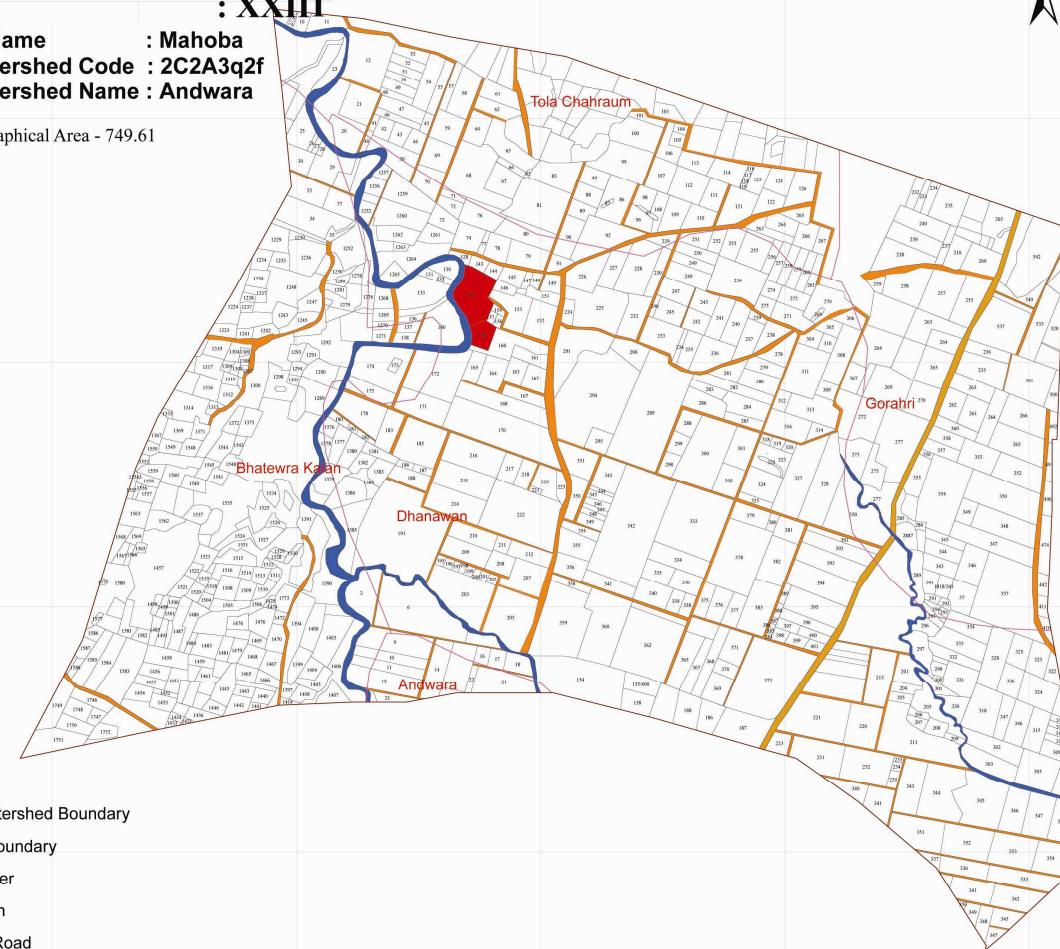
Planning

- Chack Dam
- Peripheral Bund
- Submerge Bund
- Already Treated Area

CADASTRAL MAP IWMP : XXIII

District Name : Mahoba
Microwatershed Code : 2C2A3q2f
Microwatershed Name : Andwara

Total Geographical Area - 749.61



-25°27'0

-25°28'3

25°26'0

26/26/2

1-188

TREATED AREA AND PROPOSED PLAN MAP

IWMP : XXIII

District Name : Mahoba
 Microwatershed Code : 2C2A3q2f
 Microwatershed Name : Andwara

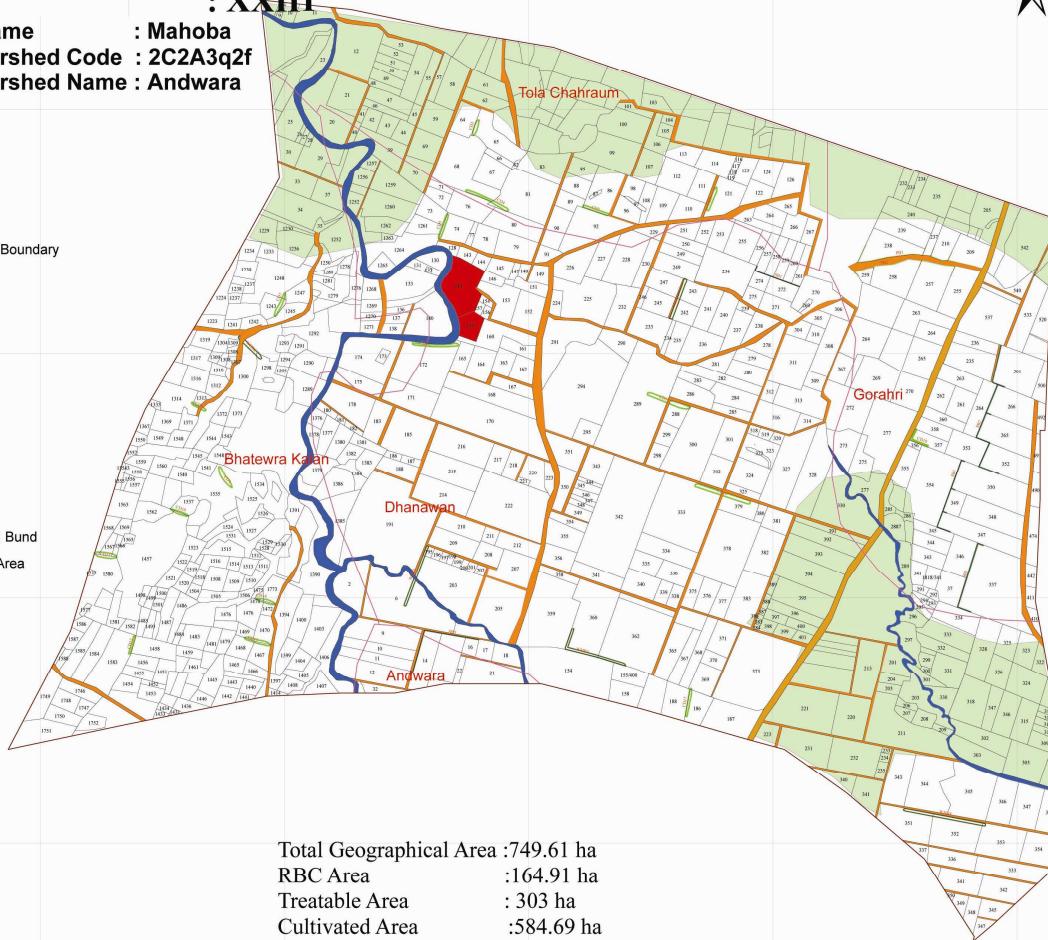


Legend

- Micro watershed Boundary
- Village Boundary
- Drain/River
- Habitation
- Kachha Road
- Pucca Road
- Field

Planning

- Check Dam
- Peripheral Bund
- Submerge Bund
- Water Harvesting Bund
- Already Treated Area



0 0.3 0.6 1.2 Kilometers

1:4000

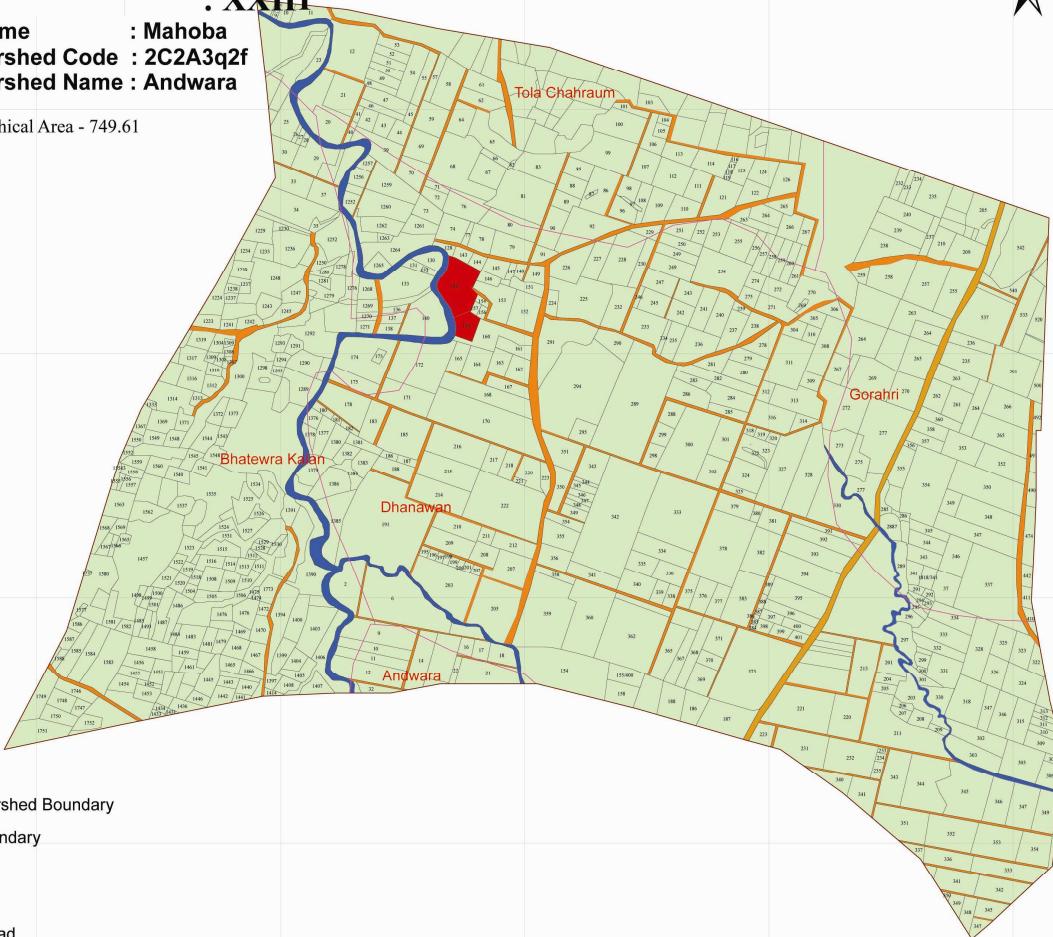
DKD
RRDR

LANDUSE MAP

IWMP : XXIII

District Name : Mahoba
Microwatershed Code : 2C2A3q2f
Microwatershed Name : Andwara

Total Geographical Area - 749.61



Legend

- Micro watershed Boundary
- Village Boundary
- Drain/River
- Habitation
- Kachha Road
- Pucca Road
- Field

0 0.3 0.6 1.2 Kilometers

1:4000

DKD
RRDR

PARTICIPATORY CROP DEMONSTRATION TRIALS

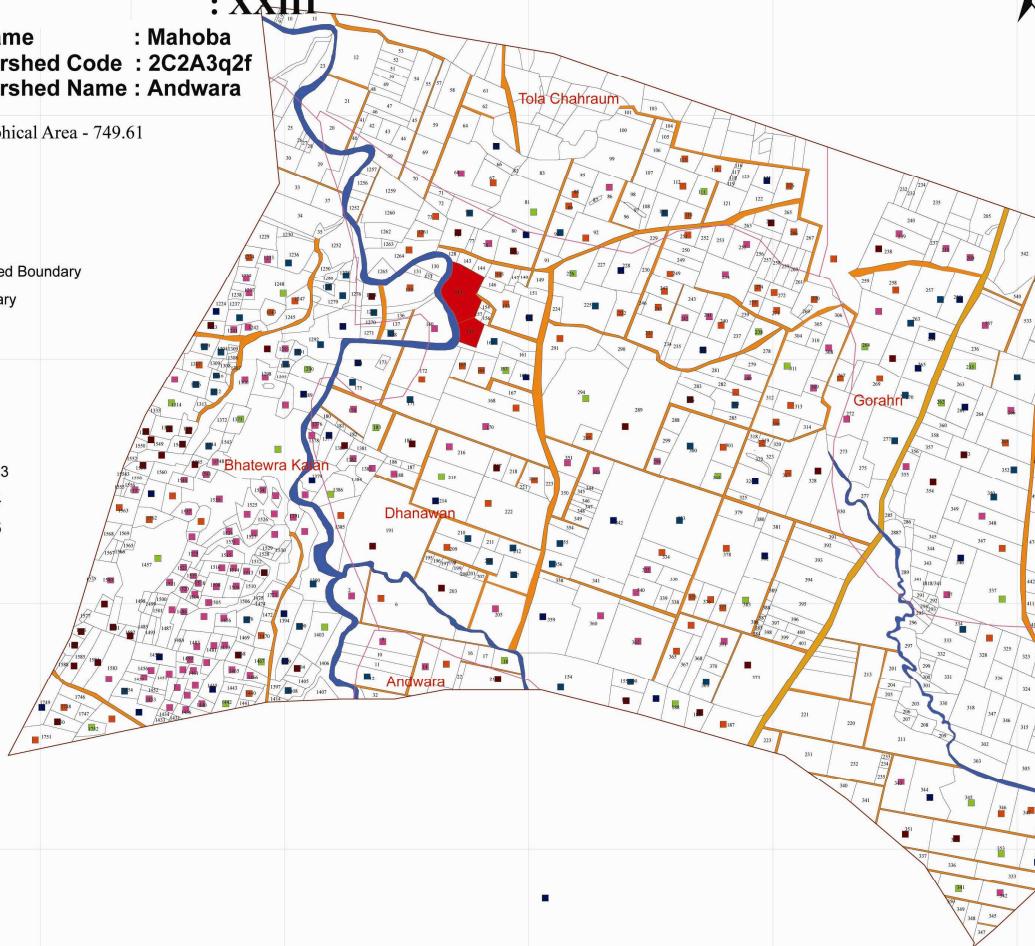
IWMP : XXIII

District Name : Mahoba
 Microwatershed Code : 2C2A3q2f
 Microwatershed Name : Andwara

Total Geographical Area - 749.61

Legend

- Micro watershed Boundary
- Village Boundary
- Drain/River
- Habitation
- Kachha Road
- Pucca Road
- Field
- Kharif 2011-13
- Kharif 2013-14
- Kharif 2014-15
- Rabi 2012-13
- Rabi 2013-14
- Rabi 2014-15



0 0.3 0.6 1.2 Kilometers

1:4000

DKD
RRDR

CADASTRAL MAP

IWMP

: XXIII

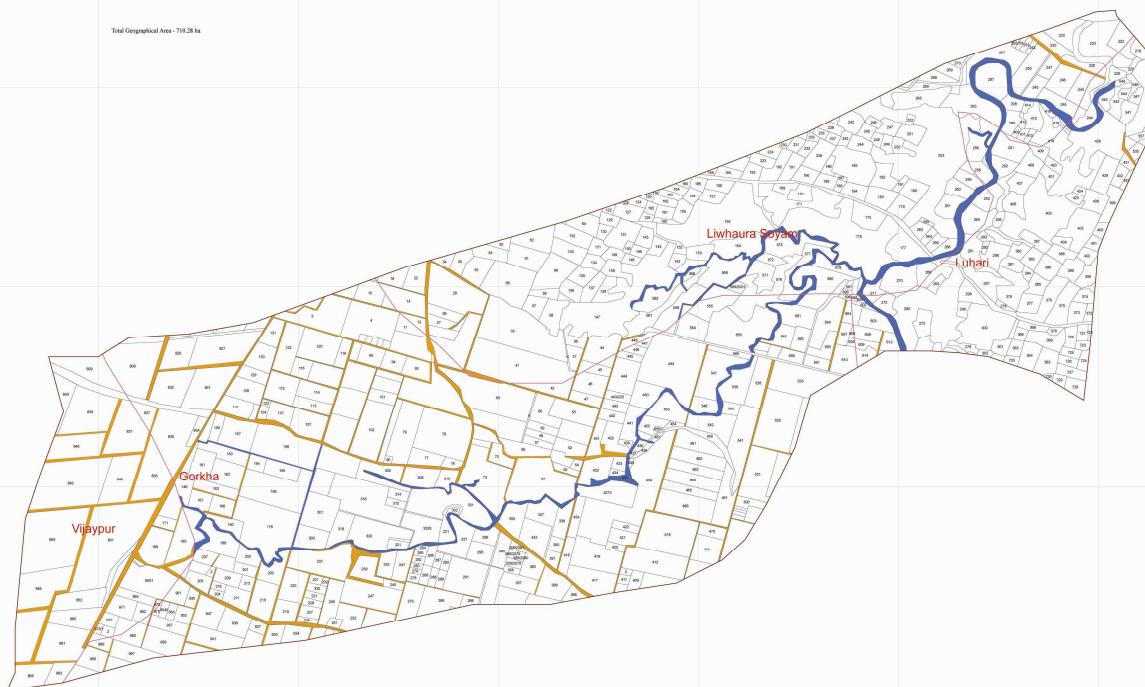
District Name

: Mahoba

Microwatershed Code : 2C2A3w2a

Microwatershed Name : Vijaypur

Total Geographical Area - 710.28 ha



Legend

- Micro-watershed Boundary
- Village Boundary
- Field
- Drain/River
- Kachha Road

0

0.4

0.8

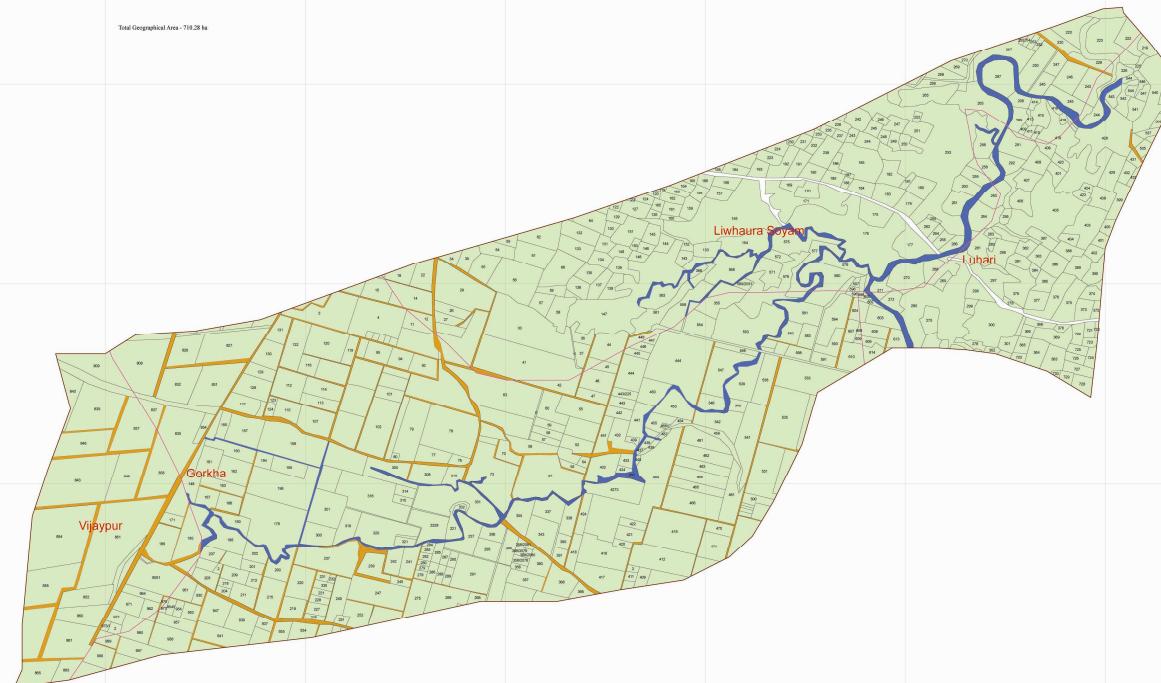
1.6 Kilometers

1:4000

000
000

LANDUSE MAP
IWMP : XXIII
District Name : Mahoba
Microwatershed Code : 2C2A3w2a
Microwatershed Name : Vijaypur

Total Geographical Area - 710.28 ha



Legend

- Micro-watershed Boundary
- Village Boundary
- Field
- Drain/River
- Kachha Road

0 0.4 0.8 1.6 Kilometers

1:4000

000
000

TREATED AREA AND PROPOSED PLAN MAP

IWMP

: XXIII

District Name : Mahoba

Microwatershed Code : 2C2A3w2a

Microwatershed Name : Vijaypur

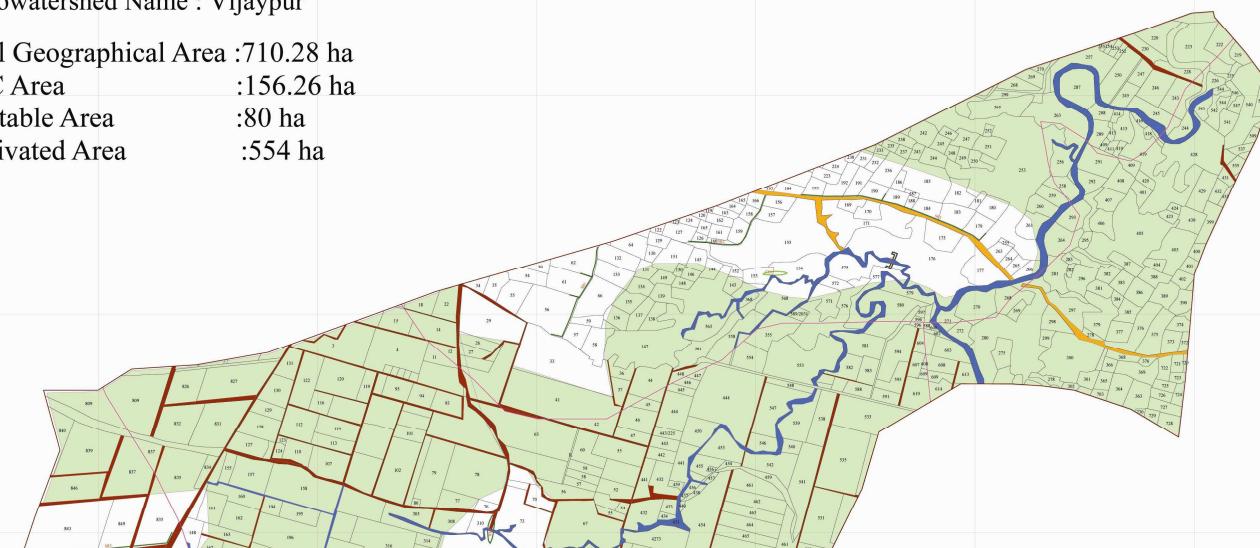
Total Geographical Area : 710.28 ha

RBC Area : 156.26 ha

Treatable Area : 80 ha

Cultivated Area : 554 ha

N



Legend

Micro-watershed Boundary

Village Boundary

Drain/River

Kachha Road

Pucca Road

Planning

Chach Dam

Submerge Bund

Drop Scill Way

Water Harvesting Bund

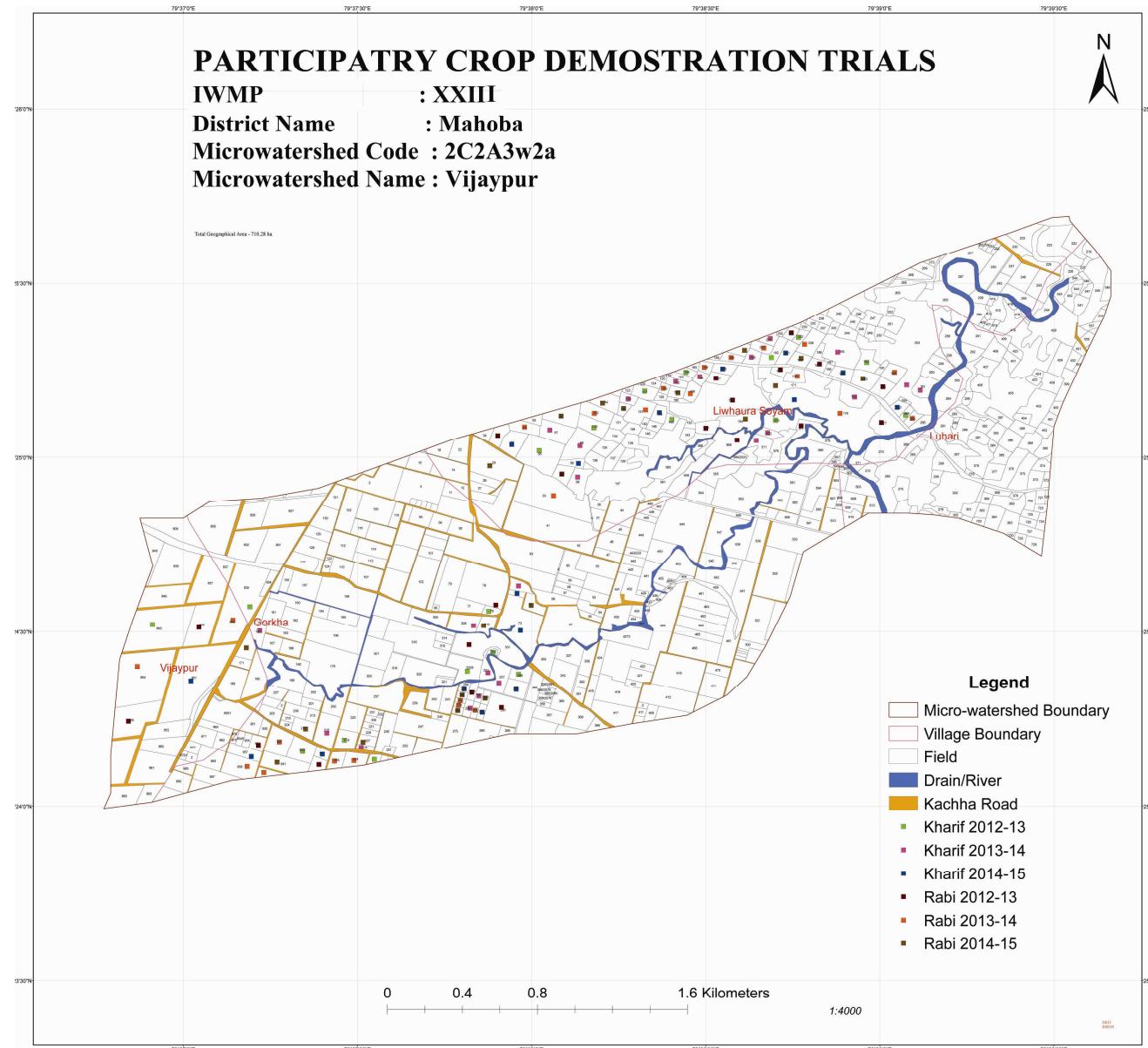
Already Treated Area

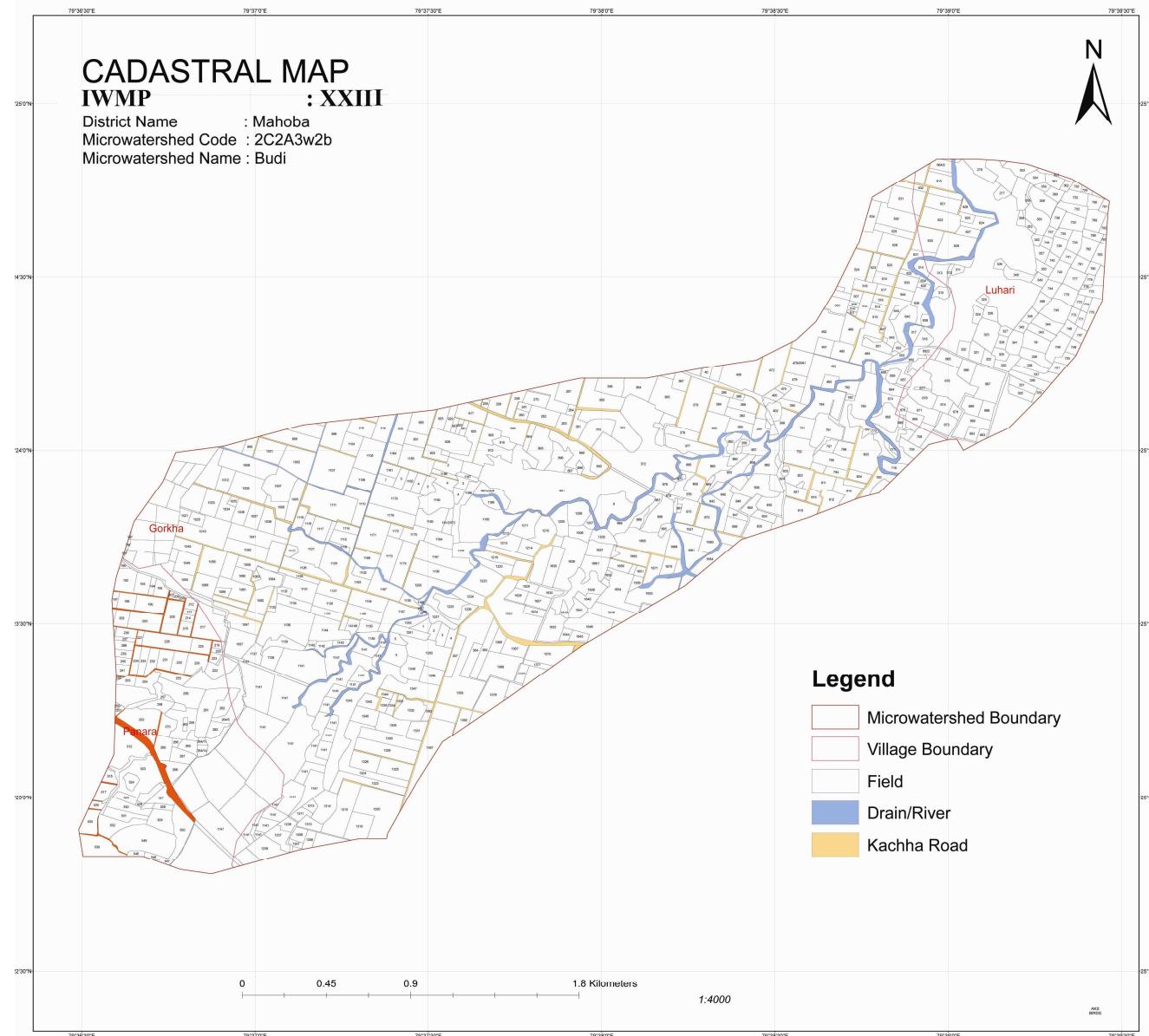
0 0.2 0.4 0.6 Kilometers

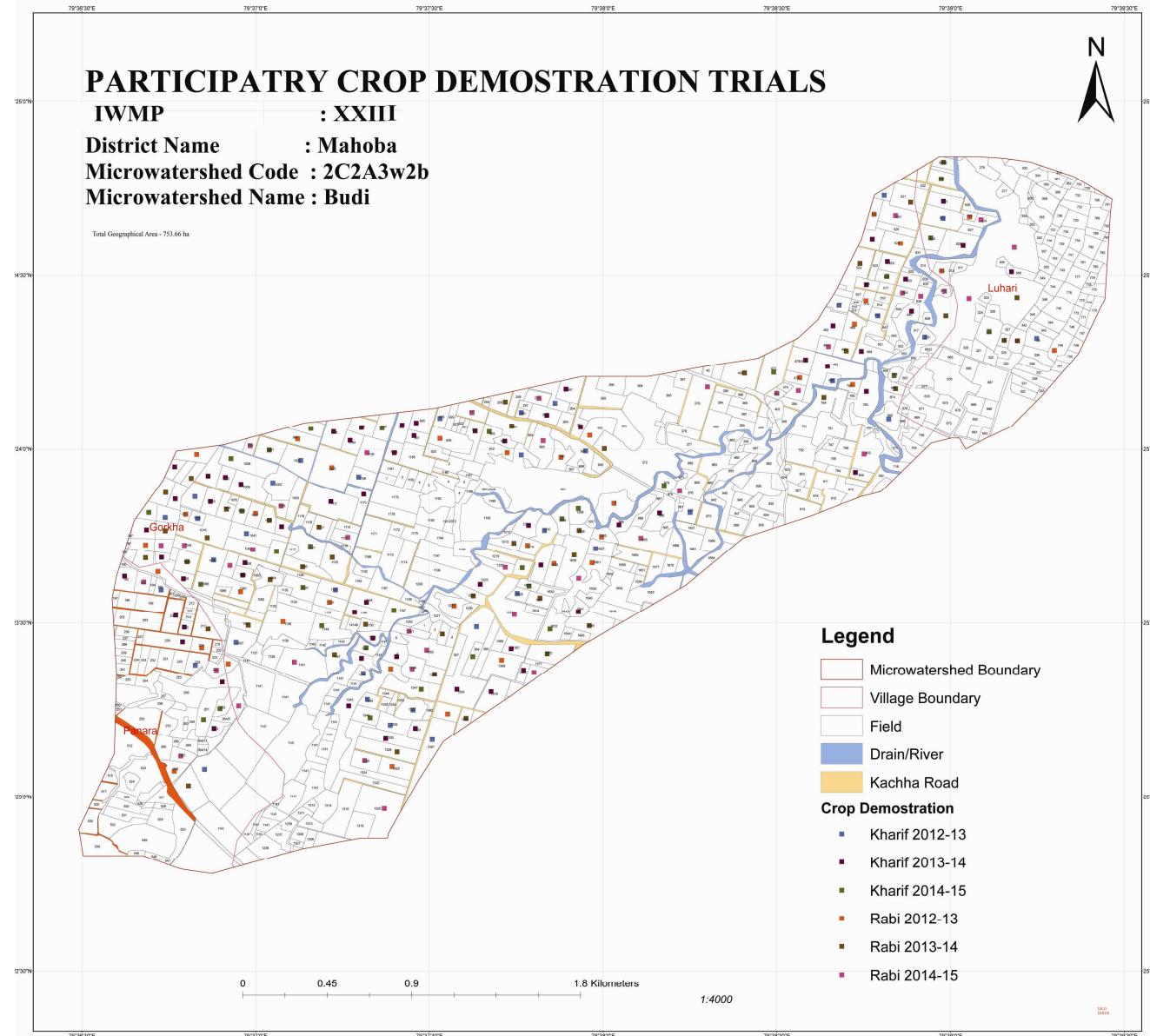
PARTICIPATORY CROP DEMONSTRATION TRIALS

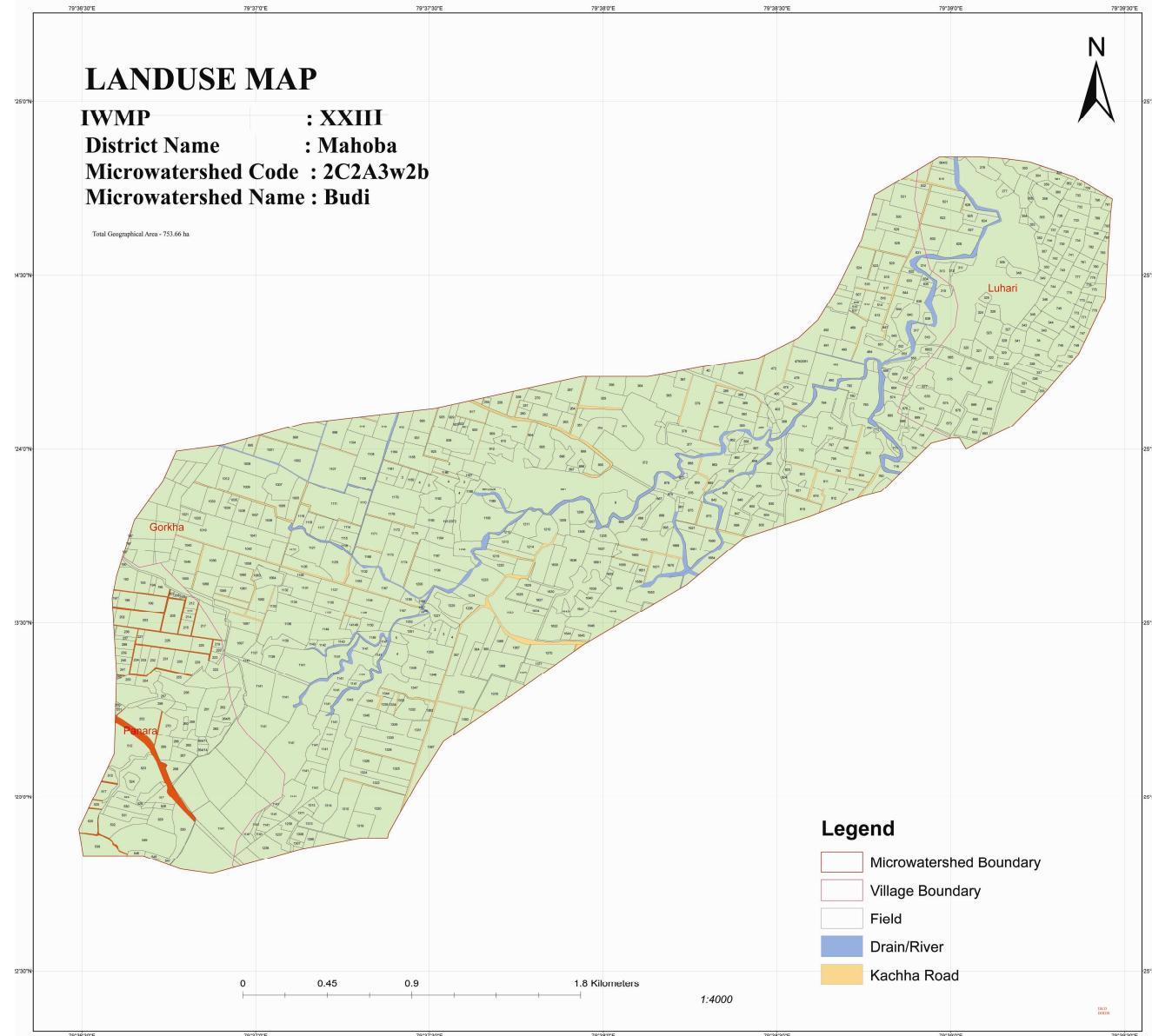
IWMP : XXIII
District Name : Mahoba
Microwatershed Code : 2C2A3w2a
Microwatershed Name : Vijaypur

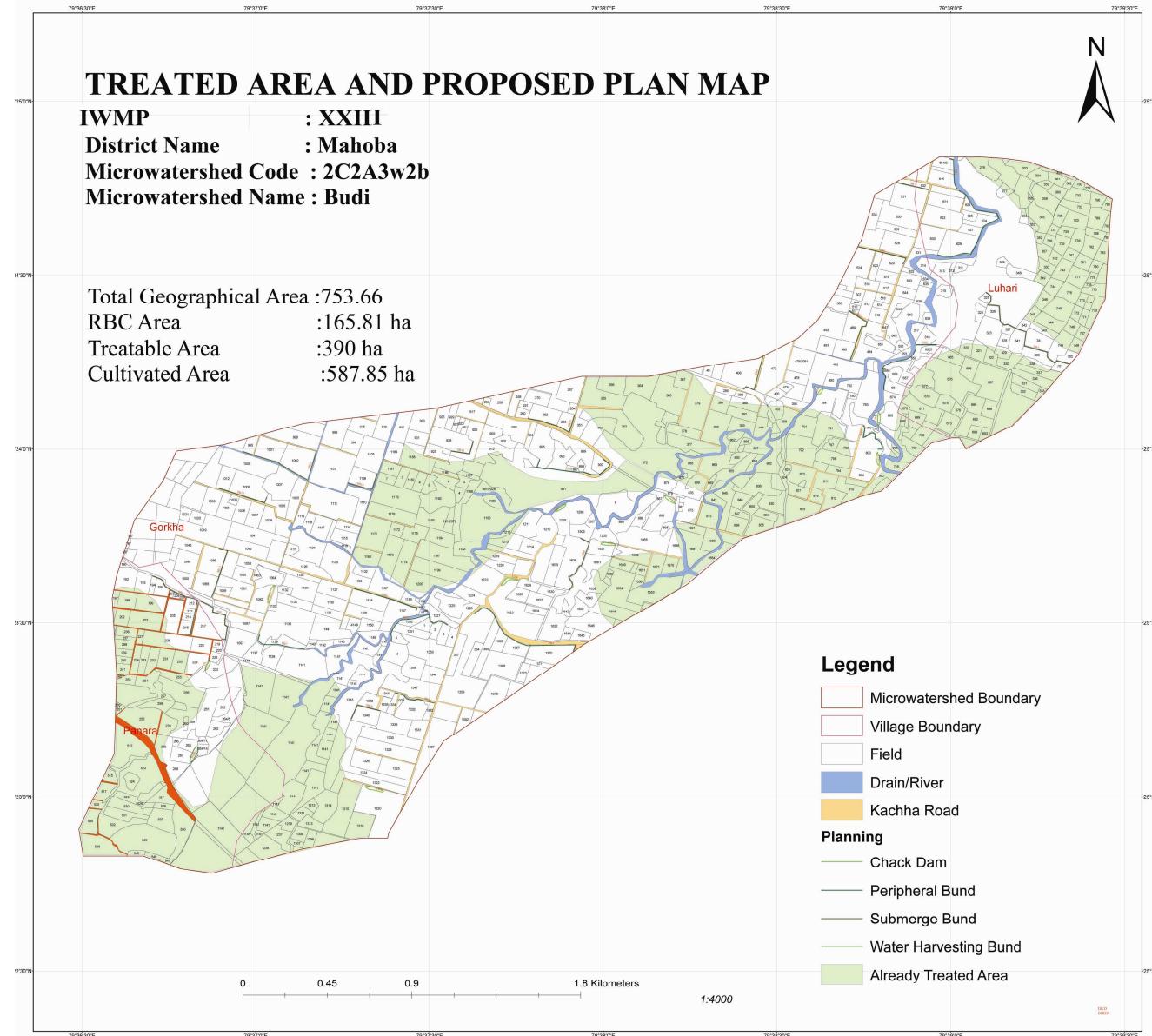
Total Geographical Area - 710.28 ha

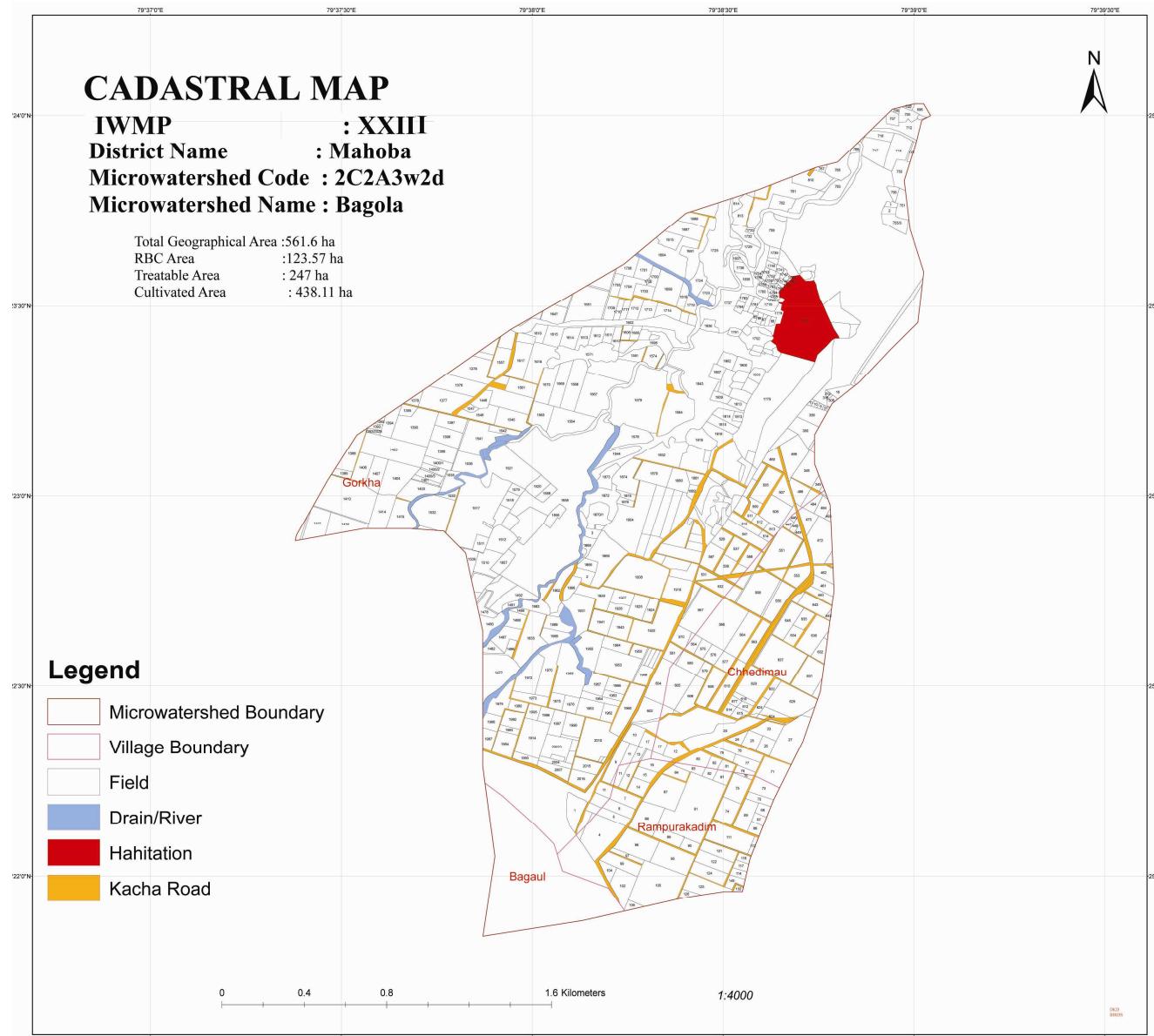


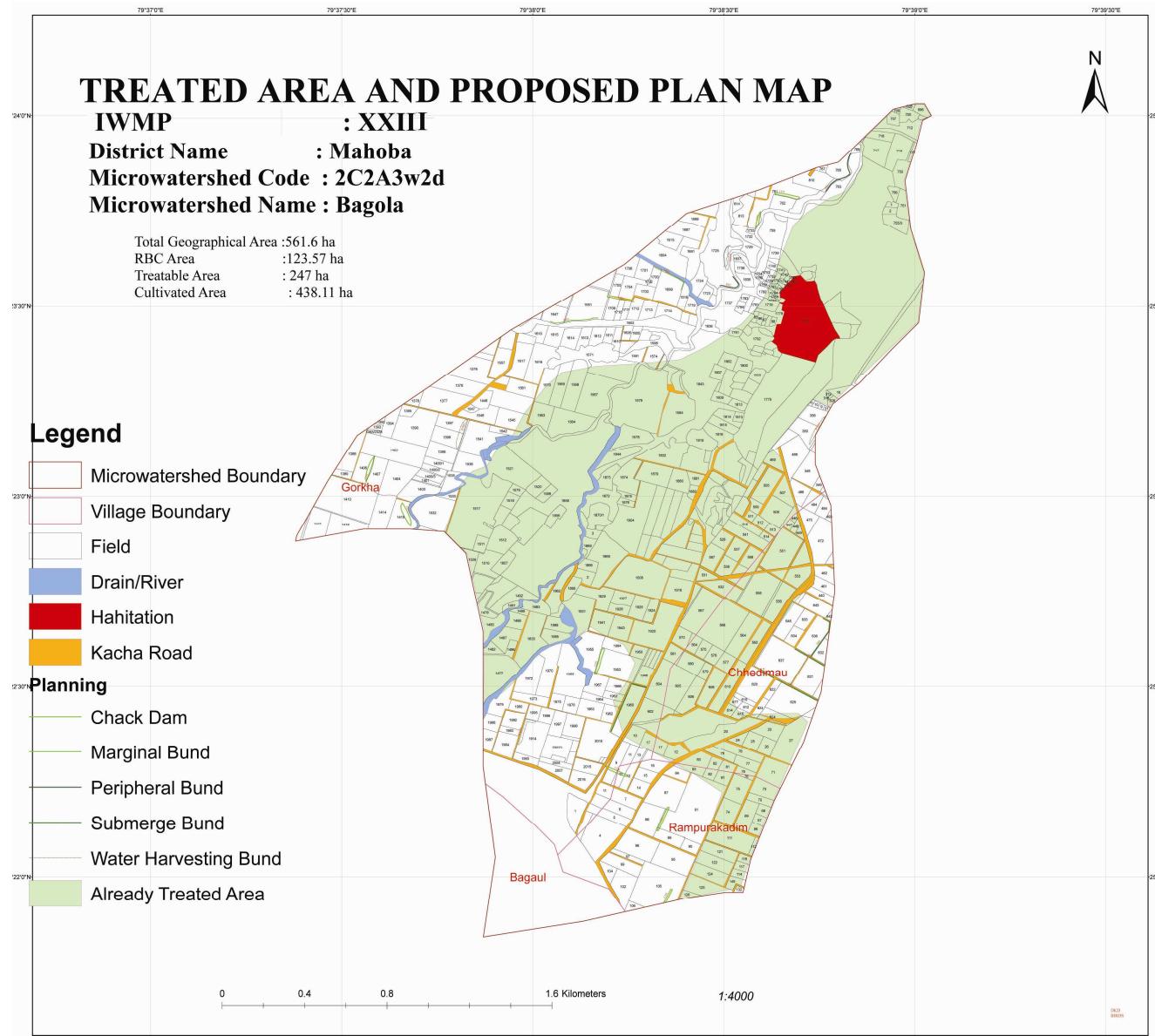


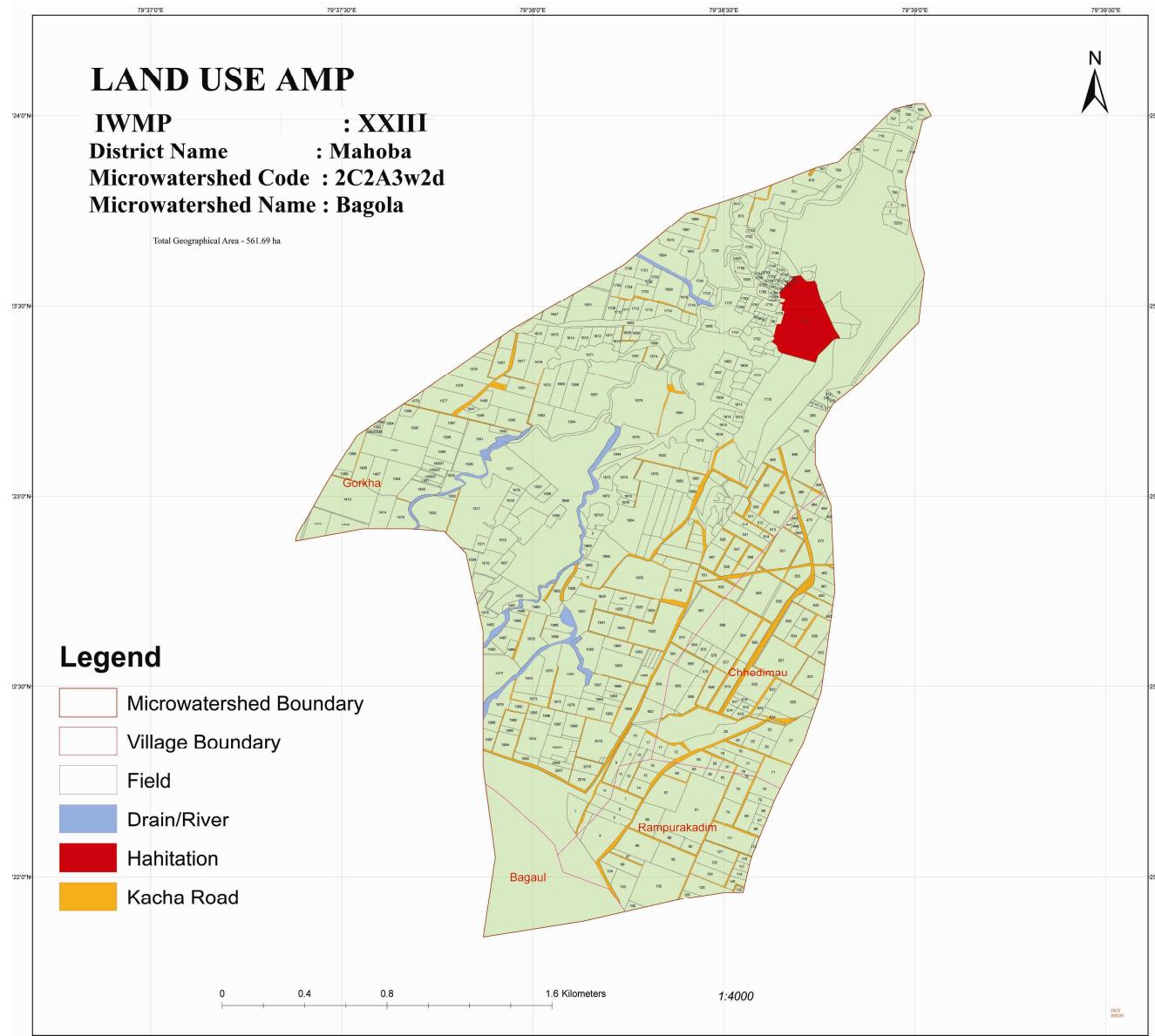


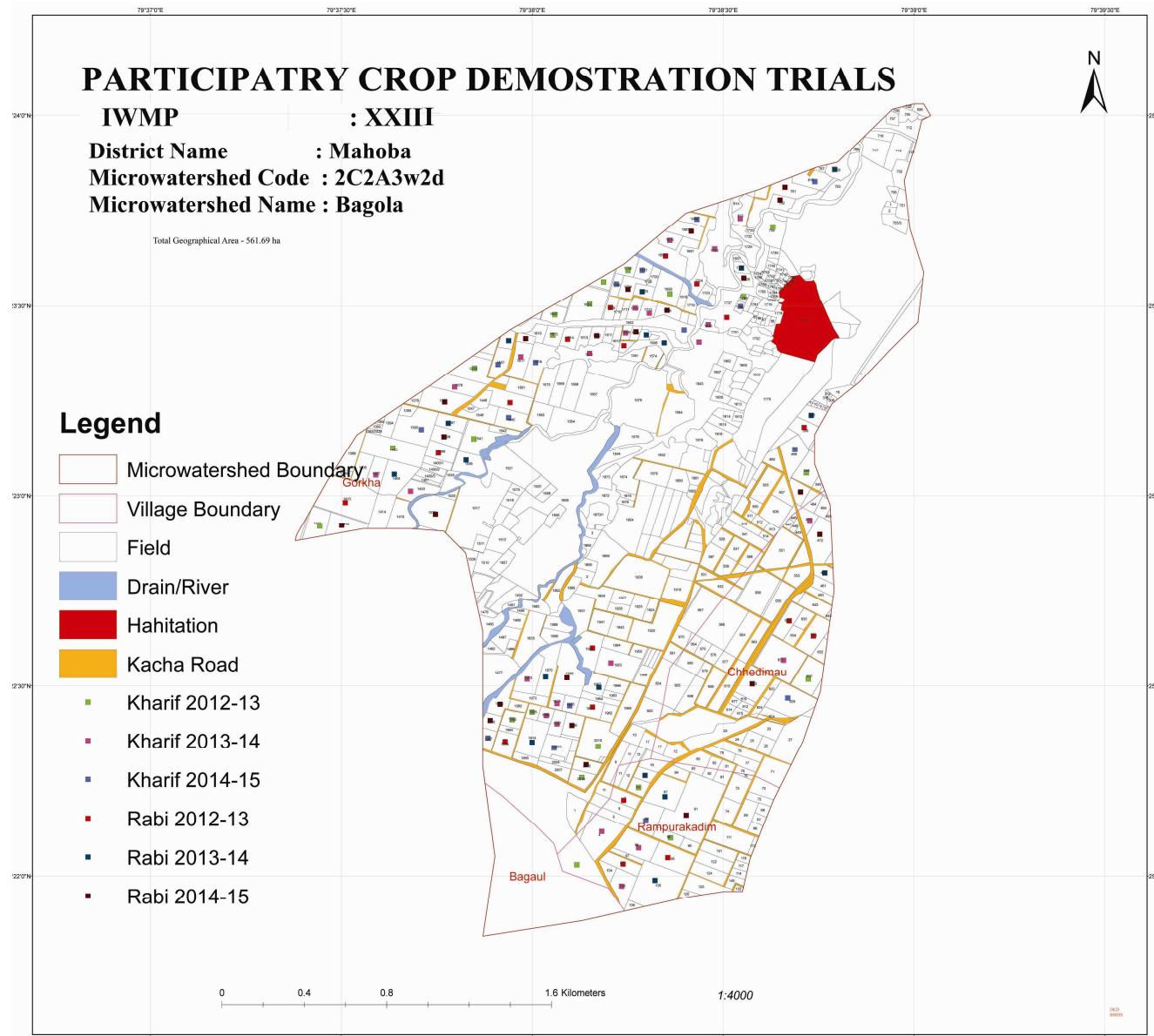












CADASTRAL MAP ALONG WITH DRAINS AND DEM

IWMP - XXIII

DISTRICT - Mahoba

N

