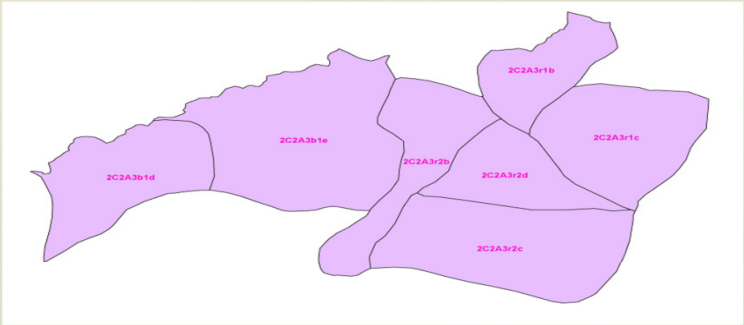
Detailed Project Report

Integrated Watershed Management Programme--VII

Year-2009-10

(IWMP-VII)



Department Of Land Development and Water Resources, Uttar Prades

Project Implementing Agency

Bhoomi Sanrakshan Adhikari

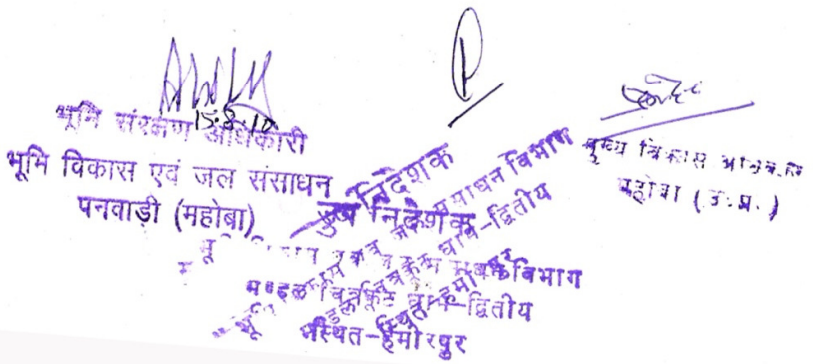
(L.D.W.R), Panwari, Mahoba

I. MANDATORY CERTIFICATION

"It is certified that the State Government of Uttar Pradesh will abide by the following mandatory conditions laid down by DoLR"

1	The area of the proposed projects are not covered under assured irrigation
2	The area of the proposed project is not covered or overlapping with any other watershed projects sanctioned by the central govt./ state govt./ autonomous bodies & others
3	The State must sign all the mandatory MoUs before implementing the project
4	The timeframes and milestones of the projects will be followed
5	The Budget requested for must follow the criteria laid down in the Common Guidelines, 2008
6	The State must release matching State Share within 15 days from release of each installment of central funds
7	Purchase of vehicles and other equipments are not permitted and nor is construction of buildings allowed. Only purchase of computers and related software is permitted
8	Savings, if any, in each component of the project cost can be utilized only for activities in the Watershed works
9	The DWDU will have one Member exclusively responsible for monitoring
10	All works will be evaluated after each phase of completion. Fund release will depend on favourable reports received from evaluators
11	Evaluators must include only institutions and agencies and not individuals
12	The State and DRDA cell will furnish monitoring reports and periodical reports as desired by DoLR
13	Composition of the WDT must be clearly spelt out and the team Members must be fully in place at the time of signing of the MoU of contract ~~between the PIA and DRDA Cell~~
14	That DRDA shall release the funds to the PIAs and the watershed committees within 15 days of receipt of the funds
15	The Watershed Committee must be a registered society ~~under the Societies Registration Act, 1860~~
16	At least one of the WDT Members must be a woman
17	The Gram Sabhas of the proposed project areas have passed resolutions for people's contribution towards WDF

Resource-use agreements on the principles of equity and sustainability must be worked out among the User Groups prior to the concerned work being undertaken
The DPR must give detailed justification for the proposed project duration
No works on private lands will be repaired/ maintained from the WDF
The PIA will start project work within three months of the receipt of first installment by DWDU/agency or else it can come under the purview of foreclosure
The State will not undertake unnecessary foreclosure of the projects. In the event of foreclosure, the State will refund the amount and furnish all necessary documents as desired by DoLR. The State shall also take administrative and legal action against any defalcation, misappropriation, mis-utilization, deliberate negligence and laxity which has caused foreclosure of the project.



EXECUTIVE SUMMARY

All the micro-watersheds of IWMP-VII, 2009-10 are situated in Panwari Block of District Mahoba, Uttar Pradesh. The project consists of seven micro-watersheds namely Simariya, Nakra, Naugaon, Kilhauwa-I, Kilhauwa-II, Fadna and Natarra. Watershed project is situated in Panwari block of District Mahoba and spread over in 27villages of 13 gram Panchayat. The total geographical area of the IWMP-VII is 5621.38 ha, out of which 5493.00 ha is treatable under Integrated Watershed Management Programme IWMP-VII.

All micro-watershed falls in agro-climatic zone of Central Plain Zone representing semi-arid ecological sub-region. The micro-watersheds of IWMP-VII are situated at an elevation of some 137 to 241 m. above mean sea level and have relief from 28 to 93 m. The watershed has a general slope of less than 1.45 per cent. General topography of the watershed is mild to gentle. Elevation range and relief are given in Table 2.3.

Spatial distribution of different slope classes was prepared using Arc GIS. Slope was divided into five classes' viz. 0-0.5, 0.5-1.0, 1-3, 3-5, and more than 5 per cent. Per cent areal extent of different slope classes in IWMP-VII micro-watershed is shown in Table 2.4. The dominant slope category in the micro-watershed were 1-3 per cent (50.52%) followed by 3-5 per cent (25.50%).

On an average 29 per cent of the population is scheduled caste. Population details of the IWMP-IV are depited in Table 3.1. In general 8 per cent population migrate from the project area due to drought and earn more money, however, migration was more than 50 per cent during 2007-08 due to continuous drought from 2004 to 2007 in the region.

Major crops of the watershed are urd, mung, sorghum, til and pigeon pea during *kharif* and lentil, chickpea, field pea, durum wheat, wheat, linseed and mustard during *rabi.* The productivity of these crops is significantly lower than the national and state average. The cropping intensity during *kharif* is significantly lower than the *rabi*. The pre-dominant tree species are Neem *(Azadirachta indica),* Babool (*Acacia nilotica)*, Palas and Ber (*Zizyphus* spp.).

Participatory Rural Appraisal (PRA) exercise was conducted to understand the people's needs and problems. The exercise brought out pressing needs and preferences of people for water harvesting structures through pucca checkdams on ephemeral streams, earthen bunding to protect soil erosion from agricultural fields along with field drainage structure, crop varieties with improved package of practices, agro forestry interventions and improved cultivation of fodder production, etc.

The Watershed Committee (WC) and SHGs have been constituted and registrations of Watershed Committees were done under Societies Registration Act XXI, 1860. Active participation and co-operation of community will be ensured by building their capacities through exposures and trainings.

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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 of Uttar Pradesh is given in following Tables 1.1, 1.2 and 1.3.

Table 1.1: Approved plan (PPRs) by Steering Committee (SC)/Govt. of India, District- Mahoba

Year	Project	MWS	Area (Treatable) (ha)	Project Cost (Rs. Lakh)	Name of PIA	Date of Sanction by S.C. Got. Of India
2009-10	IWMP-I	11	5560.00	667.20	LDWR, Mahoba-I, U.P.	16-03-2010
2009-10	IWMP-II	8	5020.00	602.40	LDWR, Mahoba-III,	16-03-2010
2009-10	IWMP-III	7	4150.00	498.00	LDWR, Charkhari-II, Mahoba, U.P.	16-03-2010
2009-10	IWMP-IV	6	5160.00	619.20	LDWR, Charkhari-I, Mahoba, U.P.	16-03-2010
2009-10	IWMP-V	7	4660.00	559.20	LDWR, Mahoba-II, U.P.	16-03-2010
2009-10	IWMP-VI	7	5250.00	630.00	LDWR, Mahoba-III, U.P.	16-03-2010
2009-10	IWMP-VII	7	5493.00	659.16	LDWR, Panwari, Mahoba, U.P.	16-03-2010
Total		**53**	**35293.00**	**4235.16**		

Table 1.2: Status of previous DPRs District- Mahoba

S. No.	Approved Project	Status of DPR under preparation/ prepared/approved by SLNA with date	Treatable Area ha	Project Area (Geographical) ha	Project cost Rs.(Lakh)	Project period (Fin. Year from 2010-11to2013-14)	PIA
1	IWMP-I	Prepared / under revision	5560.00	11031.42	667.20	2010-11 to 2013-14	LDWR, Mahoba-I, U.P.
2	IWMP-II	Prepared / under revision	5020.00	6055.00	602.40	2010-11 to 2013-14	LDWR, Mahoba-III,
3	IWMP-III	Prepared / under revision	4150.00	5000.00	498.00	2010-11 to 2013-14	LDWR, Charkhari-II, Mahoba, U.P.
4	IWMP-IV	Prepared / under revision	5160.00	6230.00	619.20	2010-11 to 2013-14	LDWR, Charkhari-I, Mahoba, U.P.

5	IWMP-V	Prepared / under revision	4660.00	5188.00	559.20	2010-11 to 2013-14	LDWR, Mahoba-II, U.P.
6	IWMP-VI	Prepared / under revision	5250.00	6340.00	630.00	2010-11 to 2013-14	LDWR, Mahoba-III, U.P.
7	IWMP-VII	Prepared / under revision	5493.00	6102.36	659.16	2010-11 to 2013-14	LDWR, Panwari, Mahoba, UP
Total			**35293.00**	**45946.78**	**4235.16**	**-**	**-**

1.1 Project Background

All the micro-watersheds of IWMP-VII, 2009-10 are situated in Panwari block of District Mahoba, Uttar Pradesh. The project consists of seven micro-watersheds namely Simariya, Nakra, Naugaon, Kilhauwa-I, Kilhauwa-II, Fadna and Natarra with total geographical area of 5621.38 ha, out of which 5493.00 ha is treatable with total outlay of Rs.659.16 lakh under Integrated Watershed Management Programme.

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

Name Of Micro Watershed	Micro Watershed Code	Total Geographical Area	Total Treatable Area
Simariya	2C2A3b1d	841.60	730.00
Nakra	2C2A3b1e	1463.10	1340.00
Naugaon	2C2A3r2b	713.23	630.00
Kilhauwa-I	2C2A3r1c	896.87	810.00
Kilhauwa-II	2C2A3r2c	1150.53	1053.00
Fadna	2C2A3r2d	542.51	480.00
Natarra	2C2A3r1b	494.62	450.00
Total		**6102.36**	**5493.0**

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

Watershed project	Micro Watersheds (MWS)	Micro watersheds code	Name of Watershed in which MWS is falling (River / Nala name)
IWMP-VII	Simariya	2C2A3b1d	Brahma & Kulari River
IWMP-VII	Nakra	2C2A3b1e	Brahma & Kulari River
IWMP-VII	Naugaon	2C2A3r2b	Brahma & Kulari River
IWMP-VII	Kilhauwa-I	2C2A3r1c	Brahma & Kulari River
IWMP-VII	Kilhauwa-II	2C2A3r2c	Brahma & Kulari River

IWMP-VII	Fadna	2C2A3r2d	Brahma & Kulari River
IWMP-VII	Natarra	2C2A3r1b	Brahma & Kulari River

1.2 Need and Scope for Watershed Development

Bundelkhand region was 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 objectives:

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 1.5 and composite ranking was developed on the basis of these parameters. The seventeen criteria were taken with total of 205 weightage points. The criterion taken are availability of drinking water, irrigation, 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 (% of poor population), virginity of land, productivity potential of land and soil organic carbon status. The weightage for project is about 90.24 per cent (Table 1.6).

Table 1.5: 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 (10)	Poor (7.5)	Good (5)	Very Good (0)
12	Status of Technical	10	Very poor	Poor	Good	Very Good

	Knowledge for improved farming systems		(10)	(7.5)	(5)	(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 1.6: Weightage of the project

S. No.	Criteria	Weightage points
1	Drinking water	10
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	15
14	Poverty index (% of poor population)	10
15	Virginity	10
16	Productivity potential of land	10
17	Organic carbon status	15
	Total Weightage (Out of total 205)	**185**
	Weightage Percentage	**90.24**

1.4 Details of ongoing watershed programme

Presently, no watershed development programme is going on in the micro-watershed**.**

CHAPTER - 2

GENERAL DESCRIPTION OF PROJECT AREA

2.1 Location:

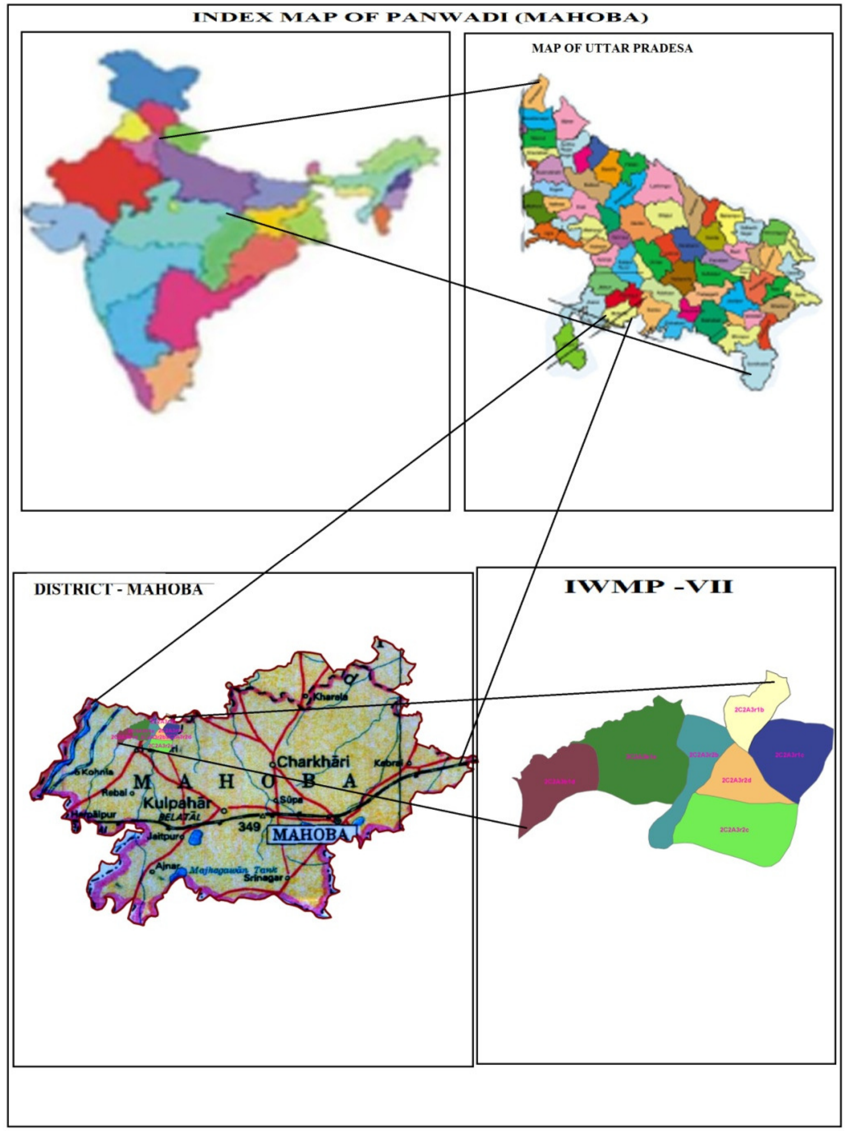
The micro-watersheds of IWMP-VII are located in Panwari block of Mahoba district. It is about 48 km. from Mahoba on Mahoba to Rath road. Location (lat/long), Gram Panchayat, villages and its geographical area for each micro-watershed are depicted in Table 2.1. Total area of the project is 6102.36 ha, out of which 5493.00 ha is treatable.

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

Sl. No.	Name of micro watershed with Code	Latitude / Longitude	Name of GP	Names of villages	Name of Block	Area of village included in MWS(Geographical)	Details of important /approach road with distance km
1	Simariya 2C2A3b1d	25^0 25' 33.24" - 25^0 27' 49.46" N 79^0 26' 33.65" - 79^0 28' 36.84" E	Lalaura Burhera Lodhipura Jakha Panwari	Lalaura Simariya Bahaduepur Naubad Burhera Lodhipura Jakha Panwari	Panwari	10.76 175.51 90.68 115.17 275.51 138.04 35.93	
	Total					**841.60**	
2	Nakra 2C2A3b1e	25^0 26' 21.98" – 25^0 28' 57.12" N 79^0 27' 56.04" – 79^0 30' 44.20"	Jakha Nakra Panwari	Jakha Nakra Panwari Kasari Paharpura	Panwari	431.03 496.92 181.88 155.35 102.46	

		E		Saigarpura Budhaura Naugaon Khagarra		71.53 10.55 9.38 4.00	
	Total					**1463.10**	
3	Naugaon 2C2A3r2b	25^0 25' 19.12" – 25^0 28' 29.75" N 79^0 29' 46.87" - 79^0 31' 49.34" E	Nakra Fadna	Nakra Naugaon Fadna Budhaura Ghurwas Mau Sikandarpura Raimalpura	Panwari	226.48 171.08 72.14 31.23 90.43 84.19 37.68	
	Total					**713.23**	
4	Kilhauwa-I 2C2A3r1c	25^0 26' 22.19" – 25^0 28' 23.88" N 79^0 32' 07.97" - 79^0 34' 8.43" E	Kilhauwa Bhatewara Kalan Natarra	Kilhauwa Bhatewara Kalan Natarra Kamala Garautha Jaraula Singhayn	Panwari	427.18 40.49 185.8 138.51 2.67 36.27 65.95	
	Total					**896.87**	
5	Kilhauwa-II 2C2A3r2c	25^0 24' 53.70" – 25^0 26' 39.77" N 79^0 30' 20.91" - 79^0 33' 19.01" E	Kilahaua Fadna Gugaura	Budhaura Kilhauwa Fadna Ghurwas Mau Sikandarpura Naunka Gugaura	Panwari	294.43 418.12 34.64 35.9 70.87 5.84 85.22	

				Khera Nankari		205.41	
	Total					**1150.43**	
6	Fadna 2C2A3r2d	25^0 26’ 22.43” – 25^0 27’ 50.36” N 79^0 30’ 52.89” - 79^0 33’ 15.52” E	Fadna Kilhauwa	Naugaon Fadna Budhaura Kilhauwa	Panwari	79.21 250.66 19.28 193.36	
	Total					**542.51**	
7	Natarra 2C2A3r1b	25^0 27’ 35.78” - 25^0 29’ 32.32” N 79^0 31’ 33.38” - 79^0 33’ 7.43”E	Nakra Kilhauwa Natarra	Nakra Naugaon Kilhauwa Natarra	Panwari	146.21 16.57 12.38 319.46	
	Total					**494.62**	
	Grand Total					**6102.36**	


INDEX MAP OF PANWADI (MAHOBA)
MAP OF UTTAR PRADESA
DISTRICT - MAHOBA
IWMP -VII
Kharela
Charkhari
Kabrai
M A H O B A
Kohnia
Rebal
Kulpahar
BELATAL
Supa
Jaitpura
349
MAHOBA
Ajnar
Majhagawan Tank
Srinagar
2C2A3r1b
2C2A3r1c
2C2A3r2d
2C2A3r2c

2.2 Area and Landuse: Village wise detailed information on type of land is depicted in Table 2.2. The total culturable land of the project is 5623.67 ha, out of which **38.67** (0.63%) ha land is under assured irrigation mainly by means of open shallow dug wells. The cultivable rainfed, temporary and permanent wastelands are about 91.52, 4.50 and 1.50 per cent, respectively, of culturable land of the project.

Table 2.3: Details of land resources in IWMP-VII of Mahoba district

S. No.	Name of MWS with code	Name of Village	Cultivated rainfed area	Cultivated irrigated area	Uncultivated wasteland/ fallow		Pvt. Agri. Land					Forest Land	Community land	Others	Total area(ha)
					Temp	Permanent	Gen	SC	ST	OBC	Total			(Habitat, Road. Etc.	(Geographical)
1	Simariya 2C2A3b1d	Lalaura	9.47	0.06	0.48	0.16	0.94	2.83		4.09	7.86	-	0.15	0.22	10.76
		Simariya	154.29	1.05	7.90	2.63	15.37	46.11		66.61	128.10	-	2.46	3.51	175.51
		Bahaduepur Naubad	79.70	0.54	4.08	1.36	7.94	23.82		34.41	66.17	-	1.27	1.81	90.68
		Burhera	101.23	0.69	5.18	1.73	10.09	30.26		43.70	84.05	-	1.61	2.30	115.17
		Lodhipura	242.28	1.65	12.40	4.13	24.14	72.41		104.59	201.14	-	3.86	5.51	275.51
		Jakha	121.36	0.83	6.21	2.07	12.09	36.27		52.39	100.76	-	1.93	2.76	138.04
		Panwari	31.60	0.22	1.62	0.54	3.15	9.44		13.64	26.23	-	0.50	0.72	35.93
	Total		**740**	**5.05**	**37.87**	**12.62**	**73.72**	**221.17**		**319.47**	**614.37**	**-**	**11.78**	**16.83**	**841.6**
2	Nakra 2C2A3b1e	Jakha	402.84	4.35	19.57	6.52	38.10	114.31		165.12	317.54	-	5.22	8.70	435.03
		Nakra	460.16	4.97	22.36	7.45	43.53	130.58		188.61	362.71	-	5.96	9.94	496.92
		Panwari	168.43	1.82	8.18	2.73	15.93	47.79		69.04	132.76	-	2.18	3.64	181.88
		Kasari	143.90	1.55	6.99	2.33	13.61	40.83		58.98	113.43	-	1.86	3.11	155.35
		Paharpura	94.85	1.02	4.61	1.54	8.97	26.92		38.88	74.76	-	1.23	2.05	102.46
		Saigarpura	66.26	0.72	3.22	1.07	6.27	18.80		27.16	52.23	-	0.86	1.43	71.53
		Budhaura	9.76	0.11	0.47	0.16	0.92	2.77		4.00	7.69	-	0.13	0.21	10.55
		Naugaon	86.72	0.94	4.21	1.40	8.20	24.61		35.55	68.36	-	1.12	1.87	9.38
	Total		**1355**	**14.63**	**65.84**	**21.95**	**128.17**	**384.50**		**555.39**	**1068.06**	**-**	**17.56**	**29.26**	**1463.1**

3	Naugaon 2C2A3r2b	Nakra	201.61	1.13	10.19	3.40	19.84	59.51		85.96	165.31	-	3.40	4.53	226.48
		Naugaon	152.34	0.86	7.70	2.57	14.99	44.97		64.95	124.91	-	2.57	3.42	171.08
		Fadna	64.20	0.36	3.24	1.08	6.32	18.95		27.37	52.64	-	1.08	1.44	72.14
		Budhaura	27.81	0.16	1.41	0.47	2.74	8.21		11.86	22.80	-	0.47	0.62	31.23
		Ghurwas Mau	80.52	0.45	4.07	1.36	7.92	23.77		34.33	66.02	-	1.36	1.81	90.43
		Sikandarpur a	74.93	0.42	3.79	1.26	7.37	22.12		31.95	61.44	-	1.26	1.68	84.19
		Raimalpura	33.53	0.19	1.69	0.56	3.30	9.90		14.30	27.49	-	0.56	0.75	37.68
	Total		**635**	**3.57**	**32.10**	**10.70**	**62.48**	**187.44**		**270.74**	**520.66**	**-**	**10.70**	**14.26**	**713.23**
4	Kilhauwa-I 2C2A3r1c	Kilhauwa	390.57	2.14	19.22	6.41	37.42	112.26		162.16	311.84	-	5.98	8.54	427.18
		Bhatewara Kalan	36.98	0.20	1.82	0.61	3.54	10.63		15.35	29.53	-	0.57	0.81	40.49
		Natarra	169.90	0.93	8.36	2.79	16.28	48.84		70.54	135.66	-	2.60	3.72	185.8
		Kamala	126.61	0.69	6.23	2.08	12.13	36.39		52.57	101.09	-	1.94	2.77	138.51
		Garautha	24.60	0.13	1.21	0.40	2.36	7.07		10.21	19.64	-	0.38	0.54	2.67
		Jaraula	33.13	0.18	1.63	0.54	3.17	9.52		13.75	26.45	-	0.51	0.72	36.27
		Singhayn	60.27	0.33	2.97	0.99	5.77	17.32		25.02	48.12	-	0.92	1.32	65.95
	Total		**820**	**4.48**	**40.36**	**13.45**	**78.57**	**235.70**		**340.46**	**654.72**	**-**	**12.56**	**17.94**	**896.88**
5	Kilhauwa-II 2C2A3r2c	Budhaura	275.09	1.47	13.25	4.42	25.79	77.37		111.75	214.91	-	4.71	5.89	294.43
		Kilhauwa	390.66	2.09	18.81	6.27	36.62	109.87		158.70	305.19	-	6.69	8.36	418.12
		Fadna	32.36	0.17	1.56	0.52	3.03	9.10		13.14	25.28	-	0.55	0.69	34.64
		Ghurwas Mau	33.54	0.18	1.62	0.54	3.14	9.43		13.63	26.20	-	0.57	0.72	35.9
		Sikandarpur a	66.22	0.35	3.19	1.06	6.21	18.62		26.90	51.73	-	1.13	1.42	70.87
		Naunka	54.83	0.29	2.64	0.88	5.14	15.42		22.27	42.83	-	0.94	1.17	5.84
		Gugaura	79.66	0.43	3.84	1.28	7.47	22.40		32.36	62.23	-	1.36	1.70	85.22
		Khera Nankari	192.00	1.03	9.25	3.08	18.00	54.00		78.00	149.99	-	3.29	4.11	205.41

	Total		**1075**	**5.75**	**51.77**	**17.26**	**100.78**	**302.33**		**436.70**	**839.81**	**-**	**18.41**	**23.01**	**1150.43**
6	Fadna 2C2A3r2d	Naugaon	72.27	0.40	3.56	1.19	6.94	20.82		30.07	57.82	-	1.11	1.58	79.21
		Fadna	228.69	1.25	11.28	3.76	21.96	65.87		95.14	182.97	-	3.51	5.01	250.66
		Budhaura	17.57	0.10	0.87	0.29	1.69	5.06		7.31	14.06	-	0.27	0.39	19.28
		Kilhauwa	176.42	0.97	8.70	2.90	16.94	50.81		73.40	141.15	-	2.71	3.87	193.36
	Total		**495**	**2.71**	**24.41**	**8.14**	**47.52**	**142.57**		**205.94**	**396.03**	**-**	**7.60**	**10.85**	**542.51**
7	Natarra 2C2A3r1b	Nakra	137.45	0.73	6.58	2.19	12.81	38.42		55.50	106.73	-	1.90	2.92	146.21
		Naugaon	15.58	0.08	0.75	0.25	1.45	4.35		6.29	12.10	-	0.22	0.33	16.57
		Kilhauwa	11.63	0.06	0.56	0.19	1.08	3.25		4.69	9.03	-	0.16	0.25	12.38
		Natarra	300.34	1.60	14.38	4.79	27.99	83.96		121.27	233.22	-	4.15	6.39	319.46
	Total		**465**	**2.47**	**22.26**	**7.42**	**43.33**	**129.99**		**187.76**	**361.07**	**-**	**6.43**	**9.89**	**494.62**
Grand Total			**5585.00**	**38.67**	**274.61**	**91.54**	**534.57**	**1603.7**		**2316.46**	**4454.73**	**-**	**85.03**	**122.05**	**6102.36**

(*Source: LDWR, Panwari, Mahoba, U.P.*)

2.3 Physiography

The micro-watersheds of IWMP-VII are situated at an elevation of some 137 to 241 m above mean sea level and have relief from 28 to 93 m. The watershed has a general slope of less than 1 per cent. General topography of the watershed is mild to gentle. Elevation range and relief are given in Table 2.3.

Table 2.3: Micro-watershed wise elevation range and relief

Name of MWS & code	Minimum	Maximum	Relief
Simariya 2C2A3b1d	143	171	28
Nakra 2C2A3b1e	137	166	29
Naugaon 2C2A3r2b	144	183	39
Kilhauwa-I 2C2A3r1c	150	179	29
Kilhauwa-II 2C2A3r2c	148	241	93
Fadna 2C2A3r2d	150	178	28
Natarra 2C2A3r1b	144	172	28

Slope: Spatial distribution of different slope classes was prepared using Arc GIS. Slope was divided into five classes' viz. 0-0.5, 0.5-1.0, 1-3, 3-5, and more than 5 per cent. Per cent areal extent of different slope classes in IWMP-VII micro-watershed is shown in Table 2.4. The dominant slope category in the micro-watershed were 1-3 per cent (50.52%) followed by 3-5 per cent (25.50%).

Table 2.4: Areal extent of various slope classes in the micro-watershed of IWMP-VII

S. No.	Name of MWS & code	Slope range wise area (ha)						Total Project Area (ha)
		0-0.5%	0.5-1.0%	1-3%	3-5%	>5%		
						Undulating	Terraced	
1	Simariya 2C2A3b1d	46.29	92.58	433.42	214.61	54.70		841.60
2	Nakra 2C2A3b1e	84.86	160.94	749.11	373.09	95.10		1463.10
3	Naugaon 2C2A3r2b	39.94	78.46	366.60	181.87	46.36		713.23
4	Kilhauwa-I 2C2A3r1c	52.02	98.66	459.20	228.70	58.30		896.87
5	Kilhauwa-II 2C2A3r2c	92.03	126.55	563.71	293.36	74.78		1150.43
6	Fadna 2C2A3r2d	43.40	59.68	265.83	138.34	35.26		542.51
7	Natarra 2C2A3r1b	37.10	54.41	244.84	126.13	32.15		494.62
	Total	**395.64**	**671.26**	**3082.71**	**1556.10**	**396.65**		**6102.36**

2.4 Climate

The annual rainfall of the Bundelkhand region varies from 500 to 1100 mm, about 90% of which is received during South-West monsoon period (Singh *et al*. 2002). The major part of the rainfall is received during the month of July and August. The length of growing season in Bundelkhand ranges between 90 to 150 days depending upon rainfall and temperature regimes. The winter rains are erratic, occasional, meager and uncertain. The total rainy days/year vary from 30-45 in the region with an average of 37. 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. It has been observed that in a cycle of 5 years, 2 are normal, 2 drought years and 1 is excessive rainfall year (Tiwari *et al*. 1998).

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

Table 2.5: Average monthly rainfall and temperature at IWMP-VII, Mahoba

Month	Rainfall in mm.								Temperature c	
	2004	2005	2006	2007	2008	2009	2010	Average	Max.	Min.
January	43	43	0	0	0	2.8	2.2	13.00	6.5	3.5
February	0	0	0	53	0	1.8	22.1	10.99	11.2	8.4
March	0	0	11	7.7	0	2.0	0.0	2.96	32.8	21.6
April	2	2	9	0	0	5.2	0.0	2.60	38.40	29.7
May	0	0	7	1	2.2	31.2	0.5	5.99	45.40	34.2
June	135	135	79.80	11.8	219.50	10.7	14.2	86.57	47.20	35.1
July	133.10	133.10	260.40	154	431	179.40	148.8	205.69	46.40	33.60
August	166.50	166.50	84.80	195.8	229.30	204.40	166.90	173.46	42.30	31.70
September	203.60	203.60	58.20	62	109.90	135.10	139.0	130.20	37.40	29.20
October	8.90	8.90	37	0	5.8	86.40	25.0	24.57	34.70	28.50
November	NA	NA	8	0	11.4	17.20	20.7	11.46	31.40	19.80
December	0	0	0	9	0.0	6.8	0.5	2.33	24.40	9.30
Total	692.10	692.10	555.20	494.30	1009.10	683.00	539.90	55.81	34.84	24.30

Source: Data site of Agro-meteorological Deptt.

The open pan evaporation varied in the range of 0.6 to 25 mm/day during the year with average of about 5.4 mm/day. Average relative humidity varied in the range of 24 to 96 per cent; however the range of wind speed is 1.0 to 20 kmph. The details of flood and drought in the project area are showed in Table 2.6.

Table 2.6: Details of flood and drought in the project area (IWMP-VII, Mahoba.)

Name of Micro Watershed	Particulars	Villages	Periodicity		Not affected
			Annual	Any other (please specify)	
Simariya Nakra Naugaon	Flood	No. of villages	-	-	-
		Name(s) of villages	-	-	-
	Drought	**No. of villages**- 27	-	-	

Kilhauwa-I Kilhauwa-II Fadna Natarra		**Name of Village:** Lalaura, Simaria, Bahaduepur Naubad, Burhera, Lodhipura, Jakha, Panwari, Nakra, Kasari, Paharpura, Saigarpura, Budhaura, Naugaon, Fadna, Ghurwas Mau, Sikandarpura, Raimalpura, Kilhauwa, Naunka, Gugaura, Khera Nankari, Natarra, Bhatewara Kalan, Kamala, Garautha, Jaraula and Singhayn.	**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	-

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 Simariya, Nakra, Naugaon, Kilhauwa-I, Kilhauwa-II, Fadna and Natarra micro-watershed was conducted by PIA and described in the subsequent sections.

3.1. Social-Economic Analysis

It is apparent from the social profile that the micro-watershed is inhabited by different caste and class. About 29 per cent of the population is scheduled caste. Population details of the IWMP-VII are depited in Table 3.1. In general 7 per cent population migrate from the project area due to drought and earn more money, 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.The scenario of migration, infrastructure and common properties resources available in the project was analysed through house hold survey and is depicted in Table 3.2, 3.3 and 3.4, respectively.

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

Name of Micro Watershed	Name of Gram Panchayat	Total Population			Population of SC/ST		
		Total	Male	Female	Total	Male	Female
Simariya	Nakra	3412	1859	1553	856	466	390
	Fadna	685	373	312	224	118	106
Nakra	Devganpura	1361	734	627	540	310	230
	Panwari	12431	6648	5783	3152	1721	1431
Naugaon	Lodhipura	820	438	382	294	155	139
	Burhera	850	454	396	298	157	141
Kilhauwa-I	Natarra	1441	762	679	326	168	158
	Kilhauwa	3629	1944	1685	1441	789	654
Kilhauwa-II	Lalaura	539	300	239	197	116	81
	Bhatewara Kalan	1260	693	567	504	297	197

Fadna	Karehara Khurd	215	113	102	2	1	1
Natarra	Gugaura	1176	651	525	237	139	98
	Jakha	1953	1058	895	580	321	259
	Grand Total	**29772**	**16027**	**13745**	**8651**	**4758**	**3885**

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

Names MWS with code	Name of Gram Panchayat	Type of Farmer	No. of households	No. of BPL households	Land holding (ha)		
					Irrigated	Rainfed	Total
Simariya 2C2A3b1d	Nakra	(i) Big (above 4 ha.)	45	-			
		(ii) Medium (2-4 ha.)	223	-			
		(iii) Small (1-2 ha.)	120	-			
		(iv) Marginal (0-1ha.)	190	190			
		(v) Landless	22	22			
		Total	**600**	**212**	**6.83**	**799.22**	**806.05**
	Fadna	(i) Big (above 4 ha.)	5	-			
		(ii) Medium (2-4 ha.)	19	-			
		(iii) Small (1-2 ha.)	27	-			
		(iv) Marginal (0-1ha.)	49	49			
		(v) Landless	7	7			
		Total	**107**	**56**	**1.78**	**325.25**	**327.03**
Nakra 2C2A3b1e	Devganpura	(i) Big (above 4 ha.)	11	-			
		(ii) Medium (2-4 ha.)	39	-			
		(iii) Small (1-2 ha.)	55	-			
		(iv) Marginal (0-1ha.)	104	104			
		(v) Landless	10	10			
		Total	**219**	**114**	**-**	**-**	**-**
Naugaon	Panwari	(i) Big (above 4 ha.)	98	-			
		(ii) Medium (2-4 ha.)	453	-			

2C2A3r2b		(iii) Small (1-2 ha.)	390	-			
		(iv) Marginal (0-1ha.)	863	863			
		(v) Landless	156	156			
		Total	**1959**	**1019**	**2.04**	**200.03**	**202.07**
Kilhauwa-I	Lodhipura	(i) Big (above 4 ha.)	5	-			
2C2A3r1c		(ii) Medium (2-4 ha.)	35	-			
		(iii) Small (1-2 ha.)	39	-			
		(iv) Marginal (0-1ha.)	64	64			
		(v) Landless	7	7			
		Total	**152**	**71**	**1.65**	**242.28**	**243.93**
Kilhauwa-II	Burhera	(i) Big (above 4 ha.)	12	-			
2C2A3r2c		(ii) Medium (2-4 ha.)	48	-			
		(iii) Small (1-2 ha.)	69	-			
		(iv) Marginal (0-1ha.)	56	56			
		(v) Landless	8	8			
		Total	**193**	**64**	**0.69**	**101.23**	**101.92**
Fadna	Natarra	(i) Big (above 4 ha.)	13	**-**			
2C2A3r2d		(ii) Medium (2-4 ha.)	46	**-**			
		(iii) Small (1-2 ha.)	90	**-**			
		(iv) Marginal (0-1ha.)	98	98			
		(v) Landless	10	10			
		Total	**257**	**108**	**2.53**	**470.24**	**182.52**
Natarra	Kilhauwa	(i) Big (above 4 ha.)	32	**-**			
2C2A3r1b		(ii) Medium (2-4 ha.)	167	**-**			
		(iii) Small (1-2 ha.)	212	**-**			
		(iv) Marginal (0-1ha.)	222	222			
		(v) Landless	15	15			
		Total	**648**	**237**	**5.26**	**969.28**	**974.54**
	Lalaura	(i) Big (above 4 ha.)	5	**-**			
		(ii) Medium (2-4 ha.)	17	**-**			

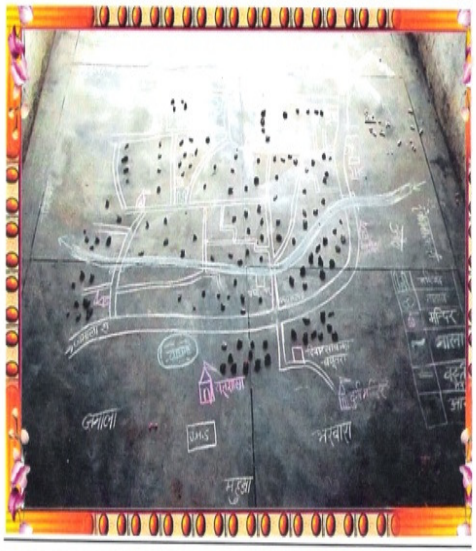
		(iii) Small (1-2 ha.)	27	-			
		(iv) Marginal (0-1ha.)	39	39			
		(v) Landless	5	5			
		Total	**93**	**44**	**0.06**	**9.47**	**9.53**
	Bhatewara Kalan	(i) Big (above 4 ha.)	26	-			
		(ii) Medium (2-4 ha.)	98	-			
		(iii) Small (1-2 ha.)	118	-			
		(iv) Marginal (0-1ha.)	143	143			
		(v) Landless	15	15			
		Total	**400**	**158**	**0.20**	**36.98**	**37.18**
	Karehara Khurd	(i) Big (above 4 ha.)	1	-			
		(ii) Medium (2-4 ha.)	5	-			
		(iii) Small (1-2 ha.)	7	-			
		(iv) Marginal (0-1ha.)	11	11			
		(v) Landless	3	3			
		Total	**27**	**14**	**-**	**-**	**-**
	Gugaura	(i) Big (above 4 ha.)	9	-			
		(ii) Medium (2-4 ha.)	44	-			
		(iii) Small (1-2 ha.)	47	-			
		(iv) Marginal (0-1ha.)	79	79			
		(v) Landless	9	9			
		Total	**188**	**88**	**0.43**	**79.66**	**80.09**
	Jakha	(i) Big (above 4 ha.)	16	-			
		(ii) Medium (2-4 ha.)	68	-			
		(iii) Small (1-2 ha.)	93	-			
		(iv) Marginal (0-1ha.)	136	136			
		(v) Landless	10	10			
		Total	**324**	**146**	**5.18**	**524.20**	**529.38**
		Grand Total	**4574**	**2331**	**26.65**	**3757.84**	**3494.24**

Table 3.3: Details of migration from Project area (IWMP-VII, Mahoba): Pre-project status

Names of Watershed With Code	Name of Gram Panchayat	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)
Simariya 2C2A3b1d Nakra 2C2A3b1e Naugaon 2C2A3r2b Kilhauwa-I 2C2A3r1c Kilhauwa-II 2C2A3r2c Fadna 2C2A3r2d Natarra 2C2A3r1b	Nakra	273	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Fadna	56	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Devganpura	114	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Panwari	1243	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Lodhipura	67	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Burhera	68	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Natarra	122	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Kilhauwa	301	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Lalaura	44	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Bhatewara Kalan	100	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Karehara Khurd	18	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Gugaura	96	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Jakha	156	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
Grand Total		**2658**					

PHOTOGRAPHS OF PRA

SOCIAL MAP VILL. KILAUA,
PANWARI - MAHOBA



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SOCIAL MAP VILL. NAUGOWN,
PANWARI - MAHOBA

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SELF HELP GROUP (MALE) VILL. KILAUA, PANWARI - MAHOBA

SOCIAL MAP VILL. NAKRA, PANWARI - MAHOBA

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P.R.A. VILL. NAUGOWN, PANWARI - MAHOBA

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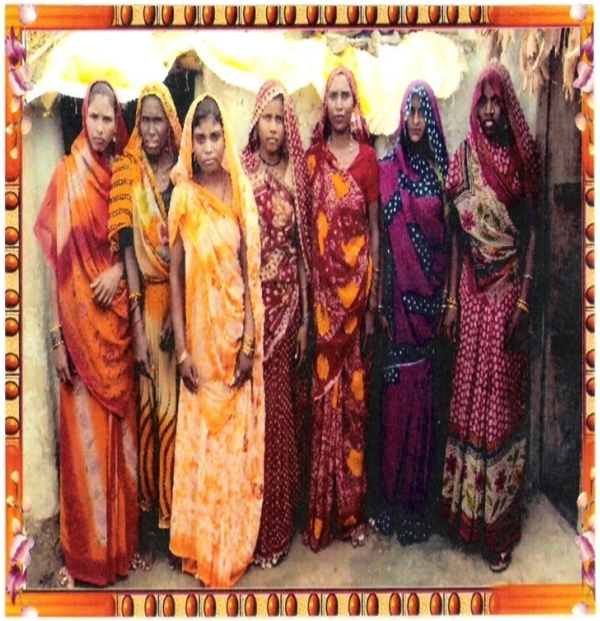
SELF HELP GROUP (FEMALE) VILL. KILAUA, PANWARI - MAHOBA

SELF HELP GROUP (FEMALE) VILL. NATARRA, PANWARI - MAHOBA



SELF HELP GROUP (MALE) VILL. JAKHA, PANWARI - MAHOBA

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

S. No.	Name of Micro Watershed	Parameters	Status			
1	Simariya 2C2A3b1d	Name of villages connected to the main road by an all-weather road	Panwari			
		Village's Name provided with electricity	Lodhipura, Burhera, Simariya, Lalaura, Jakha			
		No. of households without access to drinking water	20/			
		No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 05	(S) 04	(HS) 01	(VI) -
		Names of villages with access to Primary Health Centre	Panwari, Lodhipura, Burhera			
		Names of villages with access to Veterinary Dispensary	Panwari			
		Names of villages with access to Post Office	Panwari, Burhera			
		Names of villages with access to Banks	Panwari			
		Names of villages with access to Markets/ mandis	Panwari			
		Names of villages with access to Agro-industries	-			
		Total quantity of surplus milk deficit	-			
		No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) -	(S) -	(PA) -	(O) 07
		Name of villages with access to Anganwadi Centre	Panwari, Simariya, Lalaura			
		Cummunity centre, Panchayat Ghar	Panwari, Lodhipura, Burehra, Lodhipura			

S. No.	Name of Micro Watershed	Parameters	Status			
2	Nakra 2C2A3b1e	Name of villages connected to the main road by an all-weather road	Nakra, Panwari			
		Village's Name provided with electricity	Nakra, Panwari, Naugaon, Burehra, Jakha			
		No. of households without access to drinking water	35/			
		No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 04	(S) 03	(HS) 01	(VI) -
		Names of villages with access to Primary Health Centre	Nakra, Naugaon, Panwari			
		Names of villages with access to Veterinary Dispensary	Panwari			
		Names of villages with access to Post Office	Panwari			

		Names of villages with access to Banks	Panwari			
		Names of villages with access to Markets/ mandis	Panwari, Nakra			
		Names of villages with access to Agro-industries				
		Total quantity of surplus milk deficit	-			
		No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) -	(S) -	(PA) -	(O) 10
		Name of villages with access to Anganwadi Centre	Panwari, Nakra, Naugaon, Jakha, Burehra			
		Cummunity centre, Panchayat Ghar	Panwari, Nakra, Naugaon, Jakha			

S. No.	Name of Micro Watershed	Parameters	Status			
3	Naugaon 2C2A3r2b	Name of villages connected to the main road by an all-weather road	Nakra			
		Village's Name provided with electricity	Naugaon, Nakra, Fadna, Burehra			
		No. of households without access to drinking water	16/			
		No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 03	(S) 03	(HS) 01	(VI) -
		Names of villages with access to Primary Health Centre	Nakra, Naugaon			
		Names of villages with access to Veterinary Dispensary	-			
		Names of villages with access to Post Office	Nakra			
		Names of villages with access to Banks	-			
		Names of villages with access to Markets/ mandis	-			
		Names of villages with access to Agro-industries	-			
		Total quantity of surplus milk deficit	-			
		No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/others (O))	(U) -	(S) -	(PA) -	(O) 08
		Name of villages with access to Anganwadi Centre	Nakra, Naugaon, Fadna, Burehra			
		Cummunity centre, Panchayat Ghar	Naugaon, Nakra, Fadna			

S. No.	Name of Micro Watershed	Parameters	Status			
4	Kilhauwa-I 2C2A3r1c	Name of villages connected to the main road by an all-weather road				
		Village's Name provided with electricity	Kilahuwa, Bhatewara Kalan, Natarra, Jaraula			
		No. of households without access to drinking water	21/			
		No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 04	(S) 03	(HS) 01	(VI) -
		Names of villages with access to Primary Health Centre	Kilhauwa			
		Names of villages with access to Veterinary Dispensary	-			
		Names of villages with access to Post Office	Jaraula			
		Names of villages with access to Banks	-			
		Names of villages with access to Markets/ mandis	Kilahuwa			
		Names of villages with access to Agro-industries	-			
		Total quantity of surplus milk deficit	-			
		No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/others (O))	(U) -	(S) -	(PA) -	(O) 07
		Name of villages with access to Anganwadi Centre	Kilahuwa, Jaraula, Bhatewara Kalan			
		Cummunity centre, Panchayat Ghar	Kilahuwa, Jaraula, Bhatewara Kalan			

S. No.	Name of Micro Watershed	Parameters	Status			
5	Kilhauwa-II 2C2A3r2c	Name of villages connected to the main road by an all-weather road				
		Village's Name provided with electricity	Kilahuwa, Burhera, Gugaura, khera Nankari, Fadna			
		No. of households without access to drinking water	29/			
		No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 05	(S) 03	(HS) -	(VI) -
		Names of villages with access to Primary Health Centre	Kilahuwa			
		Names of villages with access to Veterinary Dispensary	-			
		Names of villages with access to Post Office	Kilahuwa			

		Names of villages with access to Banks	-			
		Names of villages with access to Markets/ mandis	Kilahuwa			
		Names of villages with access to Agro-industries	-			
		Total quantity of surplus milk deficit	-			
		No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/others (O))	(U) -	(S) -	(PA) -	(O) 06
		Name of villages with access to Anganwadi Centre	Kilahuwa, Fadna, Burehra, Gugaura, Khera Nankari			
		Cummunity centre, Panchayat Ghar	Kilahuwa, Fadna, Gugaura, Khera Nankari			

Sr. No.	**Name of Micro Watershed**	**Parameters**	**Status**			
6	Fadna 2C2A3r2d	Name of villages connected to the main road by an all-weather road				
		Village's Name provided with electricity	Naugaon, Fadna, Kilhauwa, Burehra			
		No. of households without access to drinking water	20/			
		No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 04	(S) 03	(HS) -	(VI) -
		Names of villages with access to Primary Health Centre	Naugaon, Kilahuwa			
		Names of villages with access to Veterinary Dispensary				
		Names of villages with access to Post Office	Kilahuwa			
		Names of villages with access to Banks	-			
		Names of villages with access to Markets/ mandis	Kilahuwa			
		Names of villages with access to Agro-industries	-			
		Total quantity of surplus milk deficit	-			
		No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) -	(S) -	(PA) -	(O) 09
		Name of villages with access to Anganwadi Centre	Naugaon, Kilahuwa, Burehra			
		Cummunity centre, Panchayat Ghar	Naugaon, Kilahuwa, Burehra			

S. No.	Name of Micro Watershed	Parameters	Status			
7	Natarra 2C2A3r1b	Name of villages connected to the main road by an all-weather road	Nakra			
		Village's Name provided with electricity	Nararra, Naugaon, Kilahuwa			
		No. of households without access to drinking water	22/			
		No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 04	(S) 03	(HS) -	(VI) -
		Names of villages with access to Primary Health Centre	Kilahuwa, Naugan, Nakra			
		Names of villages with access to Veterinary Dispensary	-			
		Names of villages with access to Post Office	Nakra, Kilahuwa			
		Names of villages with access to Banks	-			
		Names of villages with access to Markets/ mandis	Kilahuwa, Nakra			
		Names of villages with access to Agro-industries	-			
		Total quantity of surplus milk deficit	-			
		No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/others (O))	(U) -	(S) -	(PA) -	(O) 07
		Name of villages with access to Anganwadi Centre	Nakra, Naugaon, Kilahuwa			
		Cummunity centre, Panchayat Ghar	Nakra, Naugaon, Kilahuwa			

Table 3.5: Details of common property resources in IWMP-VII, Mahoba

Sr. No.	Names of MWS with code	CPR Particulars	Total Area (ha) Area owned/ in possession of				Area available for treatment (ha)			
			Pvt. persons	Govt. Revanue	PRI	Other	Pvt. persons	Govt. (Specify dept.)	PRI	Other
1	Simariya 2C2A3b1d	Wasteland/ degraded land	50.49	-	11.78	-	50.49	-	11.78	-
		Pastures		-	-	-	-	-	-	-
		Orchards		-	-	-	-	-	-	-
		Village Woodlot	2.35	-	0.74	-	--	-	-	-
		Forest		-	-	-	-	-	-	-
		Village Ponds/ Tanks		-	0.35	-	-	-	0.35	-

		Community Buildings		-	11.78	-	-	-	-	-
		Weekly Markets		-	0.13	-	-	-	-	-
		Permanent markets		-	-	--	--	--	--	--
		Temples/ Places of worship		-	0.28	--	--	--	--	--
		Habitat, Chakmarg, Sector, Road etc	-	16.83	-	-	-	-	-	-
		Total	**52.84**	**16.83**	**25.06**		**50.49**		**12.13**	

Details of common property resources in IWMP-VII, Mahoba

Sr. No.	Names of MWS with code	CPR Particulars	Total Area (ha) Area owned/ in possession of				Area available for treatment (ha)			
			Pvt. persons	Govt. Revanue	PRI	Any other (Pl. Specify)	Pvt. persons	Govt. (specify dept.)	PRI	Any other (Pl. Specify)
2	Nakra 2C2A3b1e	Wasteland/ degraded land	87.79		17.56	-	87.79	-	17.56	-
		Pastures			-	-	-	-	-	-
		Orchards			-	-	-	-	-	-
		Village Woodlot	3.02		1.11	-	-	-	-	-
		Forest			-	-	-	-	-	-
		Village Ponds/ Tanks			0.75	-	-	-	0.75	-
		Community Buildings	-	-	17.56	-	-	-	-	-
		Weekly Markets	--	--	-	--	--	--	--	--
		Permanent markets	--	--	-	--	--	--	--	--
		Temples/ Places of worship			0.41	--	--	--	--	--
		Habitat, Chakmarg, Sector, Road etc	-	29.26	-	-	-	-	-	-
		Total	**90.81**	**29.26**	**37.39**		**87.79**		**18.31**	

Details of common property resources in IWMP-VII, Mahoba

Sr. No.	Names of MWS with code	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)
3	Naugaon 2C2A3r2b	Wasteland/ degraded land	42.80		10.70		42.80	-	10.70	-
		Pastures			-	-	-	-	-	-
		Orchards			-	-	-	-	-	-
		Village Woodlot	3.41		1.52	-	-	-	-	-
		Forest			-	-	-	-	-	-
		Village Ponds/ Tanks			0.97	-	-	-	0.97	-
		Community Buildings			10.70	-	-	-	-	-
		Weekly Markets			0.25	--	--	--	--	--
		Permanent markets			-	--	--	--	--	--
		Temples/ Places of worship			0.75	--	--	--	--	--
		Habitat, Chakmarg, Sector, Road etc	-	14.26	-	-	-	-	-	-
		Total	**46.21**	**14.26**	**24.89**		**42.8**		**11.67**	

Details of common property resources in IWMP-VII, Mahoba

S. No.	Names of MWS with code	CPR Particulars	Total Area (ha) Area owned/ in possession of				Area available for treatment (ha)			
			Pvt. persons	Govt. Revenue	PRI	Any other (Pl.Specify)	Pvt. persons	Govt. (specify dept.)	PRI	Any other (Pl. Specify)
4	Kilhauwa-I 2C2A3r1c	Wasteland/ degraded land	53.81		12.56	-	53.81	-	12.56	
		Pastures			-	-	-	-	-	-
		Orchards			-	-	-	-	-	-
		Village Woodlot	2.26		0.95	-	-	-	-	-
		Forest			-	-	-	-	-	-

		Village Ponds/ Tanks			0.41	-	-	-	0.41	-
		Community Buildings			12.56	-	-	-	-	-
		Weekly Markets			0.64	--	--	--	--	--
		Permanent markets			--	--	--	--	--	--
		Temples/ Places of worship			0.86	--	--	--	--	--
		Habitat, Chakmarg, Sector, Road etc	-	17.94	-	-	-	-	-	-
		Total	**56.07**	**17.94**	**27.98**		**53.81**		**12.97**	

Details of common property resources in IWMP-VII, Mahoba

Sr. No.	**Names of MWS with code**	**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)**
5	Kilhauwa-II 2C2A3r2c	Wasteland/ degraded land	69.03		18.41	-	69.03	-	18.41	-
		Pastures			-	-	-	-	-	-
		Orchards			-	-	-	-	-	-
		Village Woodlot	3.41		1.78	-	-	-	-	-
		Forest			-	-	-	-	-	-
		Village Ponds/ Tanks			1.01	-	-	-	1.01	-
		Community Buildings			18.41	-	-	-	-	-
		Weekly Markets			0.47	-	--	--	--	--
		Permanent markets			--	--	--	--	--	--
		Temples/ Places of worship			0.49	--	--	--	--	--
		Habitat, Chakmarg, Sector, Road etc	-	23.01	-	-	-	-	-	-
		Total	**72.44**	**23.01**	**40.57**		**69.03**		**19.42**	

Details of common property resources in IWMP-VII, Mahoba

S. No.	Names of MWS with code	CPR Particulars	Total Area (ha) Area owned/ In possession of				Area available for treatment (ha)			
			Pvt. persons	Govt. Revenue	PRI	Any other (Pl. Specify)	Pvt. persons	Govt. (Specify dept.)	PRI	Any other (Pl. Specify)
6	Fadna 2C2A3r2d	Wasteland/ degraded land	32.55		7.60	-	32.55	-	7.60	
		Pastures			-	-	-	-	-	-
		Orchards			-	-	-	-	-	-
		Village Woodlot	1.98		0.54	-	-	-	-	-
		Forest			-	-	-	-	-	-
		Village Ponds/ Tanks			0.84	-	-	-	0.84	-
		Community Buildings			7.60	-	-	-	-	-
		Weekly Markets			0.19	--	--	--	--	--
		Permanent markets			--	--	--	--	--	--
		Temples/ Places of worship			0.38	--	--	--	--	--
		Habitat, Chakmarg, Sector, Road etc	-	10.85	-	-	-	-	-	-
		Total	**34.53**	**10.85**	**17.15**		**32.55**		**8.44**	

Details of common property resources in IWMP-VII, Mahoba

S. No.	Names of MWS with code	CPR Particulars	Total Area (ha) Area owned/ In possession of				Area available for treatment (ha)			
			Pvt. persons	Govt. Revenue	PRI	Any other (Pl. Specify)	Pvt. persons	Govt. (specify dept.)	PRI	Any other (Pl. Specify)
7	Natarra 2C2A3r1b	Wasteland/ degraded land	29.68		6.43	-	29.68		6.43	-
		Pastures			-	-	-	-	-	-
		Orchards			-	-	-	-	-	-
		Village Woodlot	1.75		0.47	-	-	-	-	-
		Forest			-	-	-	-	-	-

		Village Ponds/ Tanks			0.29	-	-	-	0.29	-
		Community Buildings			6.43	-	-	-	-	-
		Weekly Markets			0.40	--	--	--	--	--
		Permanent markets			--	--	--	--	--	--
		Temples/ Places of worship	-		0.22	--	--	--	--	--
		Habitat, Chakmarg, Sector, Road etc	-	9.89	-	-	-	-	-	-
		Total	**31.43**	**9.89**	**14.24**		**29.68**		**6.72**	

3.2 Soil and Land Holding Pattern

Majority of the land of the project is heavy textured soil. Category wise details of farmer and their irrigated area are described in Table 3.6.

Table 3.6: Details of Soil texture in IWMP-VII, 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	Simariya	167.9	492.75	69.35	730
2	Nakra	241.2	1066.64	32.16	1340
3	Naugaon	100.8	511.56	17.64	630
4	Kilhauwa-I	121.5	667.44	21.06	810
5	Kilhauwa-II	126.36	896.103	30.537	1053
6	Fadna	57.6	408.48	13.92	480
7	Natarra	94.5	321.75	33.75	450
	Total IWMP-VII	**909.86**	**4364.723**	**218.417**	**5493**

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 3.5. As far as productivity of cereals is concerned, it is significantly lower than the state and national average. Micro-watershed wise cropping intensity varied from 125.29 to 168.96 per cent with on average 142.60 per cent for the project.

Table 3.7: Micro-watershed wise details of Crops, their Productivity and Production in IWMP-VII, Mahoba
Name of MWS - Simariya

S.no	Crop.	Area in (Ha.)		Productivity Q/Ha		Production (Q)			
						Grain/Main product		Fodder/Fuel/ Other Product.	
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	**Kharif**								
1	Urd		127.36		3.80		483.97		120.99
2	Moong		22.45		3.90		87.56		21.89
3	Arhar		85.42		5.60		478.35		1913.40
4	Sorghum		30.73		3.50		107.56		215.12
5	Til		47.87		1.90		90.95		136.43
	Total		**313.83**				**1248.38**		**2407.83**
B	**Rabi**								
1	Wheat	5.05	161.86	18.25	9.70	92.163	1570.04	380.20	2355.06
2	Masoor	-	196.47	-	5.60	-	1100.23	-	1650.345
3	Gram	-	87.34	-	5.80	-	506.57	-	508.07
4	Pea	-	18.62	-	7.90	-	147.10	-	149.6
5	Mustard	-	88.12	-	5.10	-	449.41	-	674.115
6	Linseed	-	43.34	-	7.80	-	338.05	-	507.075
	Total	**5.05**	**595.75**	**-**		**92.163**	**4111.41**	**380.20**	**5844.265**
C	**Zaid**								
	Nil								
	Cultivable Area	**745.05**		**Cropping Intensity**		**125.29**			

Name of MWS -Nakra

S.no	Crop.	Area in (Ha.)		Productivity Q /Ha		Production (Q)			
						Grain/Main product		Fodder/Fuel/ Other Product.	
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	**Kharif**								
1	Urd		282.65		3.80		1074.07		268.52
2	Moong		48.76		4.00		195.04		48.76
3	Arhar		174.43		5.50		959.37		3837.48
4	Sorghum		82.97		3.50		290.40		580.80
5	Til		80.42		1.90		152.80		229.20
	Total		**669.23**				**2671.67**		**4964.76**
B	**Rabi**								
1	Wheat	14.63	384.42	18.00	9.00	263.34	3459.78	555.41	5189.67
2	Barley	-	44.13	-	10.00	-	441.30	-	706.08
3	Masoor	-	392.17	-	5.50	-	2156.94	-	3235.41
4	Gram	-	222.04	-	5.80	-	1287.83	-	1289.33
5	Pea	-	28.76	-	8.00	-	230.08	-	232.58
6	Linseed	-	67.41	-	7.90	-	532.54	-	798.81
	Total	**14.63**	**1138.93**	**-**		**263.34**	**8108.47**	**555.41**	**11451.88**
C	**Zayad**								
	Nil								
	Cultivable Area	**1369.63**		**Cropping Intensity**		**136.03**			

Name of MWS -Naugaon

S.no	Crop.	Area in (Ha.)		Productivity Q /Ha		Production (Q)			
						Grain/Main product		Fodder/Fuel/ Other Product.	
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	**Kharif**								
1	Urd		167.37		4.10		686.22		42.89
2	Moong		44.45		3.90		173.36		10.84
3	Arhar		98.06		5.50		539.33		8629.28
4	Sorghum		44.24		3.80		168.11		672.44
5	Til		65.72		1.90		124.87		280.97
	Total		**419.84**				**1691.88**		**9636.41**
B	**Rabi**								
1	Wheat	3.57	180.74	18.65	9.40	66.58	1698.96	360.24	3822.66
2	Barley	-	38.32	-	5.60	-	214.59	-	515.02
3	Masoor	-	210.33	-	5.80	-	1219.91	-	1832.12
4	Gram	-	84.41	-	7.90	-	666.84	-	670.84
5	Pea	-	12.63	-	5.20	-	65.68	-	101.02
6	Mustard	-	22.76	-	7.50	-	170.70	-	384.08
	Total	**3.57**	**549.19**			**66.58**	**4036.68**	**360.24**	**7325.73**
C	**Zaid**								
	Nil								
	Cultivable Area	**638.57**		**Cropping Intensity**		**154.38**			

Name of MWS - Kilhauwa-I

S.No	Crop.	Area in (Ha.)		Productivity Q /Ha		Production (Q)			
						Grain/Main product		Fodder/Fuel/ Other Product.	
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	**Kharif**								
1	Urd		176.47		4.50		794.12		198.53
2	Moong		37.23		5.10		189.87		47.47
3	Arhar		88.09		5.80		510.92		2043.68
4	Sorghum		47.14		4.80		226.27		452.54
5	Til		50.75		3.50		177.63		266.45
	Total		**399.68**				**1898.81**		**3008.66**
B	**Rabi**								
1	Wheat	4.48	175.34	18.80	9.70	84.22	1700.80	385.87	2551.20
2	Barley	-	26.40	-	9.20	-	242.88	-	388.61
3	Masoor	-	200.17	-	5.70	-	1140.97	-	1711.46
4	Gram	-	106.32	-	5.60	-	595.39	-	596.89
5	Pea	-	22.17	-	7.80	-	172.93	-	175.43
6	Mustard	-	86.32	-	5.20	-	448.86	-	673.29
7	Linseed	**-**	47.04	**-**	7.80	**-**	366.91	**-**	550.365
	Total	-	**663.76**	-		**84.22**	**4668.74**	**385.87**	**6647.24**
C	**Zaid**								
	Nil								
	Cultivable Area	**824.48**		**Cropping Intensity**		**131.84**			

Name of MWS - Kilhauwa-II

S.No	Crop.	Area in (Ha.)		Productivity Q /Ha		Production (Q)			
						Grain/Main product		Fodder/Fuel/ Other Product.	
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	**Kharif**								
1	Urd		290.92		4.20		1221.86		305.47
2	Moong		32.14		4.50		144.63		36.16
3	Arhar		95.73		5.50		526.52		2106.08
4	Sorghum		56.44		3.60		203.18		406.36
5	Til		84.06		1.90		159.71		239.57
	Total		**559.29**				**2255.91**		**3093.63**
B	**Rabi**								
1	Wheat	5.75	282.17	18.75	9.80	107.81	2765.27	410.09	4147.91
2	Barley	-	33.23	-	9.90	-	328.98	-	526.37
3	Masoor	-	302.34	-	5.80	-	1753.57	-	2630.36
4	Gram	-	145.41	-	5.70	-	828.84	-	830.34
5	Pea	-	33.24	-	8.00	-	265.92	-	268.42
6	Mustard	-	84.72	-	5.40	-	457.49	-	686.24
7	Linseed	**-**	46.17	**-**	7.50	**-**	346.28	**-**	519.42
	Total	**5.75**	**927.28**	-		**107.81**	**6746.34**	**410.09**	**9609.04**
C	**Zaid**								
	Nil								
	Cultivable Area		**1080.75**	**Cropping Intensity**		**141.72**			

Name of MWS - Fadna

S.no	Crop.	Area in (Ha.)		Productivity Q /Ha		Production (Q)			
						Grain/Main product		Fodder/Fuel/ Other Product.	
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	**Kharif**								
1	Urd		108.30		4.50		487.35		121.84
2	Moong		23.61		4.80		113.33		28.33
3	Arhar		77.07		5.10		393.06		1572.24
4	Sorghum		32.44		3.20		103.81		207.62
5	Til		56.82		1.80		102.28		153.42
	Total		**298.24**				**1199.82**		**2083.45**
B	**Rabi**								
1	Wheat	2.71	144.87	18.90	9.90	51.22	1434.21	349.54	2151.315
2	Barley	-	21.19	-	9.80	-	207.66	-	332.26
3	Masoor	-	167.43	-	5.80	-	971.09	-	1456.635
4	Gram	-	74.28	-	5.40	-	401.11	-	402.61
5	Pea	-	18.42	-	5.90	-	108.68	-	111.18
6	Linseed	-	37.71	-	8.10	-	305.45	-	458.175
	Total	**2.71**	**510.07**	**18.90**		**51.22**	**3428.20**	**349.54**	**4912.171**
C	**Zaid**								
	Nil								
	Cultivable Area	**497.71**		**Cropping Intensity**		**168.96**			

Name of MWS - Natarra

S.no	Crop.	Area in (Ha.)		Productivity Q /Ha		Production (Q)			
						Grain/Main product		Fodder/Fuel/ Other Product.	
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	**Kharif**								
1	Urd		140.03		5.10		714.15		178.54
2	Moong		28.17		5.60		157.75		39.44
3	Arhar		47.70		6.10		290.97		1163.88
4	Sorghum		27.21		4.80		130.61		261.22
5	Til		40.18		2.90		116.52		174.78
	Total		**283.29**				**1410.01**		**1817.86**
B	**Rabi**								
1	Wheat	2.47	96.20	18.50	9.50	45.70	913.90	341.47	1370.85
2	Barley	-	16.61	-	9.70	-	161.12	-	257.79
3	Masoor	-	112.46	-	5.80	-	652.27	-	978.41
4	Gram	-	68.22	-	6.20	-	422.96	-	424.46
5	Pea	-	12.26	-	8.50	-	104.21	-	106.71
6	Mustard	-	38.45	-	6.80	-	261.46	-	392.19
	Total	**2.47**	**344.20**	**-**		**45.70**	**2515.92**	**341.47**	**3530.41**
C	**Zaid**								
	Nil								
	Cultivable Area	**467.47**		**Cropping Intensity**		**139.99**			

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

Summary	Unit	Production During Kharif	Production during Rabi	Total Production	Remarks
Food Production (Atlas.)					
Cereals	Quintal	1202.94	9993.013	**11195.95**	-
Pulses	Quintal	10221.80	14799.12	**25020.92**	-
Oilseed	Quintal	924.76	3677.15	**4601.91**	-
Grand Total	**Quintal**	**12349.5**	**28469.28**	**40818.78**	**-**
					-
Fodder Production (Atlas.)					-
Dry Fodder	Quintal	2796.10	45314.895	**48111.00**	-
Green Fodder	Quintal				-
Fuel Production					
Arhar+Mustard+Til Plants	Quintal	**25556.775**			-
Over all Cropping Intensity	**142.60**				

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 3.7).

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	Simariya 2C2A3b1d	Lalaura Simariya Bahaduepur Naubad Burhera Lodhipura Jakha Panwari	Nil	Nil	Nil	Nil	30	2.6	78
2	Nakra 2C2A3b1e	Jakha Nakra Panwari Kasari Paharpura Saigarpura Budhaura Naugaon	Nil	Nil	Nil	Nil	25	2.6	65
3	Naugaon 2C2A3r2b	Nakra Naugaon Fadna Budhaura Ghurwas Mau Sikandarpura Raimalpura	Nil	Nil	Nil	Nil	26	2.5	65
4	Kilhauwa-I 2C2A3r1c	Kilhauwa Bhatewara Kalan Natarra	Nil	Nil	Nil	Nil	24	2.5	60

		Kamala Garautha Jaraula Singhayn							
5	Kilhauwa-II 2C2A3r2c	Budhaura Kilhauwa Fadna Ghurwas Mau Sikandarpura Naunka Gugaura Khera Nankari	Nil	Nil	Nil	Nil	28	2.5	70
6	Fadna 2C2A3r2d	Naugaon Fadna Budhaura Kilhauwa	Nil	Nil	Nil	Nil	30	3	90
7	Natarra 2C2A3r1b	Nakra Naugaon Kilhauwa Natarra	Nil	Nil	Nil	Nil	26	2.5	65
	Total for IWMP- VII						**189**	**18.2**	**493**
	(Scattered fruit plant of Papaya, Kathal, Ber, Aonla, Guava, etc)								

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 in IWMP- VII, Mahoba (All Figures are in No.)

Name of Micro watershed with code	Name of Gram Panchayat	Cow		Buffalo		Ox/Bull	Goat	Sheep	Piggeries	Poultry			Other
		Desi	Crossed	Desi	Murrah					Broiler	Layers	Total	specify
Simariya 2C2A3b1d	Nakra	79	2	30	6	18	80	0	-	0	8	8	
Nakra 2C2A3b1e	Fadna	40	2	26	6	18	95	0		12	9	9	
Naugaon 2C2A3r2b	Devganpura	12	2	27	2	8	30	0		14	0	0	
Kilhauwa-I 2C2A3r1c	Panwari	201	11	150	17	75	490	0	-	15	52	52	
Kilhauwa-II 2C2A3r2c	Lodhipura	119	4	75	11	42	375	0	-	11	27	27	
Fadna 2C2A3r2d	Burhera	78	4	42	9	26	220	0	-	0	15	15	
Natarra 2C2A3r1b	Natarra	14	1	12	2	6	48	0		15	3	3	
	Kilhauwa	198	4	105	17	60	455	0	-	0	35	35	
	Lalaura	33	1	18	2	9	72	0	-	12	6	6	
	Bhatewara Kalan	15	1	16	10	19	135	0	-	14	17	17	
	Karehara Khurd	56	2	26	8	24	209	0	-	15	12	12	
	Gugaura	22	1	15	1	10	42	0		14	6	6	
	Jakha	11	1	29	2	8	31	0		11	0	0	
Grand Total		**878**	**36**	**571**	**93**	**323**	**2282**	**0**		**133**	**190**	**190**	

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

Name of Micro Watershed with code	Name of Gram Panchayat	Milk Production (Liter Per day)				Goatry	Poultry		Piggeries weight Kg/Pig
		Cows		Buffalos		Weight in Kg/goat	Broiler Weight in Kg/ Brl	Layers No. of eggs/year	
		Desi	Crossed	Desi	Murrah				
Simariya 2C2A3b1d	Nakra	1.90	-	1.75	3.50	26	-	110	-
Nakra 2C2A3b1e	Fadna	1.60	-	1.40	3.60	25	1.2	116	-
Naugaon 2C2A3r2b	Devganpura	1.40	-	1.80	3.60	27	1.25	116	-
Kilhauwa-I	Panwari	2.20	-	2.00	3.40	24	1.45		-
	Lodhipura	1.20	2.80	1.40	3.60	22	1.50	116	-
	Burhera	1.45	2.60	1.60	3.40	25	-		-
	Natarra	1.50	-	1.80	3.50	28	1.40	126	-

2C2A3r1c Kilhauwa-II 2C2A3r2c Fadna 2C2A3r2d Natarra 2C2A3r1b	Kilhauwa	1.35	2.65	1.50	3.40	25	-		
	Lalaura	0.80	2.10	1.90	3.10	22	1.35	122	
	Bhatewara Kalan	0.95	2.15	1.95	3.25	21	1.30	119	
	Karehara Khurd	0.90	2.10	1.00	3.20	23	1.10	90	
	Gugaura	0.75	2.00	1.85	3.10	22	1.35	125	
	Jakha	0.80	2.05	1.80	3.05	21	1.25	115	
Average for IWMP-VII		**1.29**	**2.31**	**1.67**	**3.36**	**24**	**1.32**	**116**	-

3.6 Pasture 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: Pasture, vegetative cover/grassland in IWMP-VII, Mahoba

Name & Code of Micro watershed	Name of Gram Panchayat	Pasture Land (Area ha)			Grassland (Area ha)		Other vegetative cover (Area ha)	
		Reserve	Gram Samaj (Natural /Planted)	Total	Gram Samaj	Private	Gram Samaj	Private
Simariya 2C2A3b1d Nakra 2C2A3b1e Naugaon 2C2A3r2b Kilhauwa-I 2C2A3r1c Kilhauwa-II 2C2A3r2c Fadna 2C2A3r2d Natarra 2C2A3r1b	Nakra	-	1.89	1.89	-	-	-	3.10
	Fadna	-	1.70	1.70				2.96
	Devganpura	-	1.60	1.60	-	-	-	3.00
	Panwari	-	2.05	2.05	-	-	-	4.95
	Lodhipura	-	1.58	1.58	-	-	-	3.10
	Burhera	-	1.50	1.50	-	-	-	2.95
	Natarra	-	1.90	1.90	-	-	-	3.80
	Kilhauwa	-	1.85	1.85	-	-	-	3.70
	Lalaura	-	1.45	1.45	-	-	-	3.25
	Bhatewara Kalan	-	1.25	1.25	-	-	-	3.35
	Karehara Khurd	-	1.10	1.10	-	-	-	3.34
	Gugaura	-	1.40	1.40	-	-	-	2.90
	Jakha	-	1.60	1.60	-	-	-	2.95
Total for Project IWMP-VII		**-**	**20.87**	**20.87**				**43.35**

3.7 Livelihood Status

Assestless/landless people earn their livelihood mainly from labour and *batai.* They were earning about Rs. 3000/per month. It is expected that their income will enhance due to watershed management as it will generate sustained employment opportunity. Intervention based on piggeries, fisheries, black smithy and carpentery was not in practice. Livelihood status of landless, farmers and interventions based livelihood status are shown in Table 3.11, 3.12 and 3.13, respectively.

Table 3.13: Livelihood Status of Landless People

Name & Code of micro watershed	Name of Gram Panchayat	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				
Simariya 2C2A3b1d Nakra 2C2A3b1e	Nakra	Labour/ Batai	8	-	12	2	22	33500	Goatary, Poultry	84500	With investment work i.e extra income in SHG
	Fadna	Labour/ Batai	1	-	5	1	7	32500	Goatary, Poultry	85000	With investment work i.e extra income in SHG
	Devganpura	Labour/ Batai	2	-	7	1	10	32500	Goatary, Poultry	83000	With investment work i.e extra income in SHG
	Panwari	Labour/ Batai	40	-	99	17	156	33500	Goatary, Poultry	85000	With investment work i.e extra income in SHG

Naugaon 2C2A3r2b	Lodhipura	Labour/ Batai	2	-	5	-	7	32000	Goatary, Poultry	84000	With investment work i.e extra income in SHG
Kilhauwa-I 2C2A3r1c	Burhera	Labour/ Batai	2	-	6	-	8	32500	Goatary, Poultry	84000	With investment work i.e extra income in SHG
	Natarra	Labour/ Batai	2	-	7	1	10	33000	Goatary, Poultry	87000	With investment work i.e extra income in SHG
Kilhauwa-II 2C2A3r2c	Kilhauwa	Labour/ Batai	3	-	11	1	15	33500	Goatary, Poultry	85000	With investment work i.e extra income in SHG
Fadna 2C2A3r2d	Lalaura	Labour/ Batai	1	-	4	-	5	32500	Goatary, Poultry	83000	With investment work i.e extra income in SHG
	Bhatewara Kalan	Labour/ Batai	4	-	9	2	15	32500	Goatary, Poultry	85000	With investment work i.e extra income in SHG
Natarra 2C2A3r1b	Karehara Khurd	Labour/ Batai	1	-	2	-	3	33500	Goatary, Poultry	84000	With investment work i.e extra income in SHG
	Gugaura	Labour/ Batai	2	-	7	-	9	32000	Goatary, Poultry	84000	With investment work i.e extra

											income in SHG
	Jakha	Labour/ Batai	1	-	8	1	10	32500	Goatary, Poultry	87000	With investment work i.e extra income in SHG
Total for the Project IWMP-VII			**69**		**182**	**26**	**277**	**32769**		**84654**	

Table 3.14: Details of Livelihood Status of the Farmers

Name & Code of micro watershed	Name of Gram Panchayat	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				
Simariya 2C2A3b1d Nakra 2C2A3b1e Naugaon	Nakra	Agriculture + A.H., Labour, Batai	**183**	**-**	**276**	**119**	**578**	35000-45000	Improvement of agri.prod. Improvement of animal husbandry NRM	157750	-
	Fadna	Agriculture + A.H., Labour, Batai	**21**	**-**	**70**	**9**	**100**	35000-45000	Improvement of agri.prod. Improvement of animal husbandry NRM	164750	-
	Devganpura	Agriculture + A.H. ., Labour, Batai	**52**		**140**	**17**	**209**	35000-45000	Improvement of agri.prod. Improvement of animal husbandry NRM	156400	-

2C2A3r2b Kilhauwa-I	Panwari	Agriculture + A.H. ., Labour, Batai	**526**	**-**	**1057**	**220**	**1803**	35000-45000	Improvement of agri.prod. Improvement of animal husbandry NRM	162300	-
2C2A3r1c Kilhauwa-II	Lodhipura	Agriculture + A.H. ., Labour, Batai	**26**	**-**	**105**	**14**	**145**	35000-45000	Improvement of agri.prod. Improvement of animal husbandry NRM	150900	-
2C2A3r2c Fadna	Burhera	Agriculture + A.H. ., Labour, Batai	**44**		**132**	**9**	**185**	35000-45000	Improvement of agri.prod. Improvement of animal husbandry NRM	142600	-
2C2A3r2d Natarra 2C2A3r1b	Natarra	Agriculture + A.H. ., Labour, Batai	**64**	**-**	**154**	**29**	**247**	35000-45000	Improvement of agri.prod. Improvement of animal husbandry NRM activities Livelihood	141500	-
	Kilhauwa	Agriculture + A.H. ., Labour, Batai	**201**	**-**	**295**	**137**	**633**	35000-45000	Improvement of agri.prod. Improvement of animal husbandry NRM	157750	

	Lalaura	Agriculture + A.H. ., Labour, Batai	**24**		**49**	**15**	**88**	35000-45000	Improvement of agri.prod. Improvement of animal husbandry NRM	164750	
	Bhatewara Kalan	Agriculture + A.H. ., Labour, Batai	**108**	-	**237**	**40**	**385**	35000-45000	Improvement of agri.prod. Improvement of animal husbandry NRM	156400	
	Karehara Khurd	Agriculture + A.H. ., Labour, Batai	**5**	-	**16**	**3**	**24**	35000-45000	Improvement of agri.prod. Improvement of animal husbandry NRM	162300	
	Gugaura	Agriculture + A.H. ., Labour, Batai	**52**	-	**112**	**15**	**179**	35000-45000	Improvement of agri.prod. Improvement of animal husbandry NRM	150900	
	Jakha	Agriculture + A.H. ., Labour, Batai	**100**	**-**	**148**	**66**	**314**	35000-45000	Improvement of agri.prod. Improvement of animal husbandry NRM	157750	
Grand Total			**1406**		**2791**	**693**	**4890**				

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

'Income in Rs

S. No	Name of MWS with code	Name of village	Activities																			
			Dairy		Poultry		Goatry		Piggeries		Fisheries		Black Smithy		Carpentry		Stitching/ knitting		Wages		Agriculture	
			No	Av. income	No	Av. income	No	Av. income	No	Av. income	No	Av. income	No	Av. income	No	Av. income	No	Av. income	No	Av. income	No	Av. income
1	Simariya 2C2A3b1d	Lalaura Simariya Bahaduepur Naubad Burhera Lodhipura Jakha Panwari																				
		Total	**228**	**18000**	**30**	**2370**	**111**	**8760**	-	-	-	-	-	-	-	-	-	-	**98**	**7740**	**218**	**17210**
2	Nakra 2C2A3b1e	Jakha Nakra Panwari Kasari Paharpura Saigarpura Budhaura Naugaon																				
		Total	**441**	**34810**	**57**	**4500**	**210**	**16580**	-	-	-	-	-	-	-	-	-	-	**111**	**8760**	**416**	**32850**
3	Naugaon 2C2A3r2b	Nakra Naugaon Fadna Budhaura Ghurwas Mau Sikandarpura Raimalpura																				
		Total	**190**	**15000**	**26**	**18500**	**94**	**45000**	-	-	-	-	-	-	-	-	-	-	**85**	**24500**	**180**	**35000**
4	Kilhauwa-I 2C2A3r1c	Kilhauwa Bhatewara Kalan Natarra Kamala Garautha																				

		Jaraula Singhayn																				
		Total	**255**	**20130**	**33**	**2600**	**125**	**9870**	-	-	-	-	-	-	-	-	-	-	**119**	**9400**	**242**	**19100**
5	Kilhauwa-II 2C2A3r2c	Budhaura Kilhauwa Fadna Ghurwas Mau Sikandarpura Naunka Gugaura Khera Nankari																				
		Total	**370**	**29210**	**47**	**3710**	**180**	**14210**	-	-	-	-	-	-	-	-	-	-	**156**	**12320**	**350**	**370**
6	Fadna 2C2A3r2d	Naugaon Fadna Budhaura Kilhauwa																				
		Total	**181**	**14290**	**24**	**1900**	**89**	**7030**	-	-	-	-	-	-	-	-	-	-	**78**	**6160**	**174**	**13740**
7	Natarra 2C2A3r1b	Nakra Naugaon Kilhauwa Natarra																				
		Total	**42**	**3310**	**5**	**400**	**20**	**1580**	-	-	-	-	-	-	-	-	-	-	**18**	**1420**	**43**	**3400**
	IWMP-VII	**GT**	**1707**	**134750**	**222**	**33980**	**829**	**103030**											**665**	**70300**	**1623**	**121670**

3.8 Hydrology, Water resources and Soil and moisture Conservation

Open 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 low due to low water holding capacity of the soils. In the name of soil and moisture conservation only field bund Use of micro-irrigation is almost nil in the area. Groundwater status, irrigation status and source are given in Table 3.14, 3.15 and 3.16, respectively.

Table 3.16: Ground Water Status in IWMP-VII, Mahoba

S. No.	Name & Code of Micro watershed	Name of Village	Depth of Ground Water Table (Below Ground level) in Meter		No. of Observation well	Remarks
			Before Monsoon	After Monsoon		
1	Simariya 2C2A3b1d	Lalaura Simariya Bahaduepur Naubad Burhera Lodhipura Jakha Panwari	Avrg.14.80	Avrg.12.50	07	-
2	Nakra 2C2A3b1e	Jakha Nakra Panwari Kasari Paharpura Saigarpura Budhaura Naugaon	Avrg.14.50	Avrg.11.60	09	-
3	Naugaon 2C2A3r2b	Nakra Naugaon Fadna Budhaura Ghurwas Mau Sikandarpura Raimalpura	Avrg.14.75	Avrg.11.20	06	-
4	Kilhauwa-I 2C2A3r1c	Kilhauwa Bhatewara Kalan Natarra Kamala	Avrg.14.25	Avrg.11.35	07	-

		Garautha Jaraula Singhayn				
5	Kilhauwa-II 2C2A3r2c	Budhaura Kilhauwa Fadna Ghurwas Mau Sikandarpura Naunka Gugaura Khera Nankari	Avrg.14.70	Avrg.12.40	08	-
6	Fadna 2C2A3r2d	Naugaon Fadna Budhaura Kilhauwa	Avrg.14.55	Avrg.11.30	05	-
7	Natarra 2C2A3r1b	Nakra Naugaon Kilhauwa Natarra	Avrg.14.45	Avrg.11.65	08	-
		Average of IWMP- VII	**14.51**	**11.48**	**50**	

Depth of water table in open shallow dug wells in the project area was about 14 to 15 m during pre monsoon; however it was in the range of 11-12 m during post monsoon season.

Table 3.17: Irrigation Status in IWMP-VII, Mahoba

Sr. No.	Name & Micro Watershed with code	Name of Village	Gross Cultivated Area				Net Cultivated Area	Gross Irrigated Area				Net Irrigated Area	Rainfed Area
			Kharif	Rabi	Zaid	Total		Kharif	Rabi	Zaid	Total		
1	Simariya 2C2A3b1d	Lalaura Simariya Bahaduepur Naubad Burhera	313.83	595.75		909.58	745.05		5.05			5.05	740.00

		Lodhipura Jakha Panwari											
2	Nakra 2C2A3b1e	Jakha Nakra Panwari Kasari Paharpura Saigarpura Budhaura Naugaon	669.23	1138.93		1808.16	1369.63		14.63			14.63	1355.00
3	Naugaon 2C2A3r2b	Nakra Naugaon Fadna Budhaura Ghurwas Mau Sikandarpura Raimalpura	419.84	549.19		969.03	638.57		3.57			3.57	635.00
4	Kilhauwa-I 2C2A3r1c	Kilhauwa Bhatewara Kalan Natarra Kamala Garautha Jaraula Singhayn	399.68	663.76		1063.44	824.48		4.48			4.48	820.00
5	Kilhauwa-II 2C2A3r2c	Budhaura Kilhauwa Fadna Ghurwas Mau Sikandarpura Naunka Gugaura Khera Nankari	559.29	927.28		1486.57	1080.75		5.75			5.75	1075.00

6	Fadna 2C2A3r2d	Naugaon Fadna Budhaura Kilhauwa	298.24	510.07		808.31	497.71		2.71			2.71	495.00
7	Natarra 2C2A3r1b	Nakra Naugaon Kilhauwa Natarra	283.29	344.20		627.49	467.47		2.47			2.47	465.00
Total for IWMP- VII			**2943.4**	**4729.18**		**7672.58**	**5623.66**		**38.66**			**38.66**	**5585**

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

Sr. No.	**Name &Micro watershed with code**	**Name of Village**	**Canal Area**	**State Tube wells**		**Tanks**		**Open well**		**Bore wells**		**Lift irrigation**		**Others (Specify)**		**Total Irrigated Area**	**Rem.**
				No.	**Area**	**No.**	**Area**	**No.**	**Area**	**No.**	**Area**	**No.**	**Area**	**No.**	**Area**		
1	Simariya 2C2A3b1d	Lalaura Simariya Bahaduepur Naubad Burhera Lodhipura Jakha Panwari	-	-	-	-	-	8	**5.05**	-	-	-	-	-	-	**5.05**	-
2	Nakra 2C2A3b1e	Jakha Nakra Panwari Kasari Paharpura Saigarpura Budhaura Naugaon	-	-	-	-	-	9	**14.63**	-	-	-	-	-	-	**14.63**	-

3	Naugaon 2C2A3r2b	Nakra Naugaon Fadna Budhaura Ghurwas Mau Sikandarpura Raimalpura	-	-	-	-	-	7	**3.57**	-	-	-	-	-	-	**3.57**	-
4	Kilhauwa-I 2C2A3r1c	Kilhauwa Bhatewara Kalan Natarra Kamala Garautha Jaraula Singhayn	-	-	-	-	-	9	**4.48**	-	-	-	-	-	-	**4.48**	-
5	Kilhauwa-II 2C2A3r2c	Budhaura Kilhauwa Fadna Ghurwas Mau Sikandarpura Naunka Gugaura Khera Nankari	-	-	-	-	-	10	**5.75**	-	-	-	-	-	-	**5.75**	-
6	Fadna 2C2A3r2d	Naugaon Fadna Budhaura Kilhauwa	-	-	-	-	-	7	**2.71**	-	-	-	-	-	-	**2.71**	-
7	Natarra 2C2A3r1b	Nakra Naugaon Kilhauwa Natarra	-	-	-	-	-	8	**2.47**	-	-	-	-	-	-	**2.47**	-
	Total							**58**	**38.67**							**38.67**	

CHAPTER – 4

INSTITUTIONAL BUILDING AND PROJECT MANAGEMENT

4.1 Project Implementing Agency

The Project Implementing Agency (PIA) is Soil Conservation Officer, Department of Land Development and Water Resources, IWMP-VII, Mahoba-II, Mahoba, Uttar Pradesh. The PIA was given responsibility to develop the micro-watershed by District Watershed Development Unit (DWDU) and State Level Nodal Agency (SLNA) considering its vast experiences in handling land and water management issues in the region. The PIA has well experienced trained and sufficient staff to handle the watershed management programme efficiently. 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, and KVK located at Mahoba. Details of PIA are presented in subsequent section.

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

S. No.	Particulars of PIA	
1	Name of organization	Department of Land Development and Water Resources, Uttar Pradesh
2	Designation & Address	Bhoomi Sanrakshan Adhikari, Land Development and Water Resources District –Mahoba.
3	Telephone/Mobil No.	BSA- 9559392089
4	Fax	NA
5	E-mail	

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

S. No.	Name	Designation	Qualification	Experience (Years)
1	Shri A.K Pathak	BSA	Intermediate (Ag) Diploma in Ag. Engg.	33
2	Shri O.P.Singh	Senior Engg	Intermediate (Ag) Diploma in Ag. Engg.	30
3	Shri Hotilal Dohre	Accountant	M.Com.	28
4	Shri Rajveer Singh	Senior Clerck	B.A.	27
5	Shri R.P. Gautam	Draftman	Intermediate Diploma	32
6	Shri C.P.Singh	Clerck	B.A	27
7	Shri Vikas Kumar	A.S.C.I	B.Sc. (Ag.)	6 Months
8	Shri Shailendra Kumar	A.S.C.I	B.Sc. (Ag.)	6 Months

9	Shri Surendra Kumar Yadav	A.S.C.I	M.Sc. (Ag.)	6 Months
10	Shri Deepak Shukla	IV Class	Intermediate	31
11	Shri Braj Raj Singh	IV Class	8th	11
12	Shri A.K.Upaddhyaya	Seenchpal	B.A., LLB	31
13	Shri Niranjan Singh	Seenchpal	B.Sc	28
14	Shri Chandra Prakash	Seenchpal	High School	27
15	Shri Ashfak Ali	Seenchpal	Intermediate	27
16	Shri Baboo Ram	Seenchpal	High School	33
17	Shri Ram Naresh Singh	Seenchpal	B.A	23
18	Shri S.K Ajmani	Seenchpal	High School	35

Table 4.3: Details of Watershed Development Team (WDT) in the project area

Project- IWMP- VII **PIA- BSA, LDWR, Mahoba** **District – Mahoba**

S. No.	Name of the PIA	Names of WDT members	M/F	Age	Qualification / Experience	Role/ Function
1	LDWR, Panwari, Mahoba.	Shilpi Agrawal	F	26	M.A. Sociology	-
2		Shobhna Nayak	F	21	B.Sc Biotechnology	-
3		Mahendra Singh Rajpoot	M	33	M.Sc(Ag)	-

Jal Sanrakshan Samiti Nakra**, Gram Panchayat:** Nakra **Name of Project: - IWMP-VII** **District- Mahoba**

S. No.	Name of Gram Sabha/ GP	Date of Constitution/ Registration as a Society (dd/mm/ yyyy)	Designation	M/ F	S C	S T	OBC/Gen	S F	M F	L F	Land -less	U G	SH G	G P	Educa-tional qualification	Function(s) assigned
1	Nakra	10-6-2010	President	M	√	-	√	-	-	√	-	√	-	-	8th	Implementation of Watershed programme under the
			Secretary	M	√	-	-	√	-	-	-	-	-	-	10th	
			Member	M	-	-	√	√	-	-	-	√	-	-	8th	
			Member	M	-	-	√	√	-	-	-	√	-	-	10th	

			Member	M	√	-	-	-	√	-	-	√	-	-	10th	supervision of PIA (as per common guide lines)
			Member	M	-	-	√	-	√	-	-	√	-	-	10th	
			Member	M	-	-	√	√	-	-	-	-	√	-	8th	
			Member	M	√	-	√	√	-	-	-	-	√	-	8th	
			Member	M	√	-	-	-	-	-	√	-	-	-	5th	
			Member	M	-	-	√	-								
			Member	M												
			Member	M												
			Member	M	√	-	-	√	-	-	-	-	-	-	5th	
			Member	M	√	-	-	-	-	-	-	-	-	√		

Jal Sanrakshan Samiti Fadna**, Gram Panchayat:** Fadna **Name of Project: - IWMP VII** **District- Mahoba**

Sl. No.	Name of Gram Sabha/ GP	Date of Constitution/ Registration as a Society (dd/mm/ yyyy)	Designation	M/F	SC	ST	OBC/Gen	SF	MF	LF	Land-less	UG	SHG	GP	Educa-tional qualification	Function(s) assigned
2	Fadna	9.06.2010	President	M		-	√	-	-	-	-	√	-	-	B.A.	Implementation of Watershed programme under the supervision of PIA (as per common guide lines)
			Secretary	M	-	-	√	-	√	-	-	√	-	-	10th	
			Member	M	-	-	√	√	-	-	-	-	-	-	10th	
			Member	M	√	-	-	-	-	-	√	-	-	-	8th	
			Member	M	√	-	-	-	√	-	-	√	-	-	Inter	
			Member	M	√	-	-	√	-	-	-	-	√	-	8th	
			Member	F	√	-	-	-	-	-	-	-	√	-	-	
			Member	M	√	-	-	√	-	-	-	-	√	-	5th	
			Member	M	-	-	√	-	-	-	-	-	-	√	5th	
			Member	F	√	-	-	√	-	-	-	-	-	-	-	

			Member	M	-	-	√	-	-	-	-	-	√	-	5th	

Jal Sanrakshan Samiti Devganpura**, Gram Panchayat:** Devganpura **Name of Project: - IWMP- VII** **District- Mahoba**

S. No.	Name of Gram Sabha/ GP	Date of Constitution / Registration as a Society (dd/mm/ yyyy)	Designation	M/F	SC	ST	OBC/Gen	SF	MF	LF	Land-less	UG	SHG	GP	Educa-tional qualification	Function (s) assigned
3	Devganpura	9.07.2010	President	M	-	-	√	√	-	-	-	√	-	-	8th	Implementation of Watershed programme under the supervision of PIA (as per common guide lines)
			Secretary	M	-	-	√	-	√	-	-	√	-	-	Inter	
			Member	M	-	-	√	√	-	-	-	√	-	-	8th	
			Member	M	-	-	√	-	-	-	-	√	-	-	8th	
			Member	M	√	-	-	√	-	-	-	-	-	√	8th	
			Member	M	-	-	√	-	-	-	-	-	-	√	9th	
			Member	M	-	-	√	-	√	-	-	-	√	-	8th	
			Member	M	-	-	√	√	-	-	-	-	√	-	8th	
			Member	F	-	-	√	-	-	-	-	-	-	√	5th	
			Member	M	-	-	√	-	-	-	√	-	-	-	8th	
			Member	F	√	-	-	-	-	-	-	-	√	√	8th	
			Member	M	-	-	√	-	√	-	-	√	-	-	8th	

Jal Sanrakshan Samiti- Panwari**, Gram Panchayat:** Panwari **Name of Project:- IWMP-VII** **District- Mahoba**

Sr. No.	Name of Gram Sabha/ GP	Date of Constitution/ Registration as a Society (dd/mm/ yyyy)	Designation	M/F	SC	ST	OBC/Gen	SF	MF	LF	Land-less	UG	SHG	GP	Educa-tional qualification	Function(s) assigned

4	Panwari	**10.06.2010**	President	M	√	-	-	-	√	-	-	√	-	-	Inter	Implementation of Watershed programme under the supervision of PIA (as per common guide lines)
			Secretary	M		-	√	√	-	-	-	-	-	√	10^{th}	
			Member	M	√	-	-	√	-	-	-	√	-	-	5^{th}	
			Member	M	√	-	-	√	-	-	-	√	-	-	5^{th}	
			Member	M	√	-	-	-	√	-	-	√	-	-	5^{th}	
			Member	M	-	-	√	-	√	-	-	-	√	-	8^{th}	
			Member	M	√	-	-	√	-	-	-	-	√	-	8^{th}	
			Member	F	√	-	-	√	-	-	-	-	√	-	5^{th}	
			Member	M	-	-	√	-	-	-	√	-	-	-	Inter	
			Member	F	√	-	-	-	-	-	-	-	-	√	-	

Jal Sanrakshan Samiti Lodhipura**, Gram Panchayat:** Lodhipura **Name of Project: - IWMP-VII** **District- Mahoba**

Sl. No.	**Name of Gram Sabha/ GP**	**Date of Constitution/ Registration as a Society (dd/mm/ yyyy)**	**Designation**	**M/F**	**SC**	**ST**	**OBC/Gen**	**SF**	**MF**	**LF**	**Land-less**	**UG**	**SHG**	**GP**	**Educa-tional qualification**	**Function(s) assigned**
5	Lodhipura	**09.06.2010**	President	M	-	-	√	-	√	-	-	-	-	√	B.A.	Implementation of Watershed programme under the supervision of PIA (as per common guide lines)
			Secretary	M	√	-	-	√	-	-	-	-	-	√	Inter	
			Member	M	-	-	√	√	-	-	-	√	-	-	10^{th}	
			Member	M	-	-	√	√	-	-	-	√	-	-	8^{th}	
			Member	M	√	-	-	√	-	-	-	-	-	√	8^{th}	
			Member	M	-	-	√	-	√	-	-	-	-	√	10^{th}	
			Member	M	-	-	√	√	-	-	-	-	√	-	5^{th}	
			Member	F	-	-	√	-	-	-	-	-	√	-	8^{th}	
			Member	M	√	-	-	√	-	-	-	√	-	-	8^{th}	
			Member	F	√	-	-	-	√	-	-	√	-	-	5^{th}	
			Member	M	√	-	-	-	-	-	√	-	-	-	5^{th}	

			Member	-	√	-	-	-	√	-	-	√	-	-	5th	

Jal Sanrakshan Samiti Burhera**, Gram Panchayat:** Burhera **Name of Project: - IWMP VII** **District- Mahoba**

Sl. No.	Name of Gram Sabha/ GP	Date of Constitution/ Registration as a Society (dd/mm/ yyyy)	Designation	M/F	SC	ST	OBC/Gen	SF	MF	LF	Land-less	UG	SHG	GP	Educa-tional qualification	Function(s) assigned
6	Burhera	08.06.2010	President	M	-	-	√	-	√	-	-	√	-	-	B Sc.	Implementation of Watershed programme under the supervision of PIA (as per common guide lines)
			Secretary	M	-	-	√	√	-	-	-	-	√	-	M.A	
			Member	M	-	-	√	√	-	-	-	√	-	-	8th	
			Member	M	-	-	√	√	-	-	-	√	-	-	8th	
			Member	M	√	-	-	√	-	-	-	-	-	√	8th	
			Member	M	-	-	√	-	√	-	-	-	-	√	10th	
			Member	M	-	-	√	√	-	-	-	-	√	-	5th	
			Member	F	-	-	√	-	-	-	-	-	√	-	8th	
			Member	M	√	-	-	√	-	-	-	√	-	-	8th	
			Member	F	√	-	-	-	√	-	-	√	-	-	5th	
			Member	M	√	-	-	-	-	-	√	-	-	-	5th	

Jal Sanrakshan Samiti- Natarra**, Gram Panchayat:** Natarra **Name of Project: - IWMP VII** **District- Mahoba**

Sl. No.	Name of Gram Sabha/ GP	Date of Constitution/ Registration as a Society (dd/mm/ yyyy)	Designation	M/F	SC	ST	OBC/Gen	SF	MF	LF	Land-less	UG	SHG	GP	Educa-tional qualifi-cation	Function(s) assigned
7	Natarra	08.06.2010	President	M	-	-	√	-	-	√	-	-	-	√	12th	Implementation of Watershed programme
			Secretary	M	√	-	-	√	-	-	-	√	-	-	10th	
			Member	M	√	-	-	√	-	-	-	√	-	-	8th	

			Member	M	√	-	-	√	-	-	-	√	-	-	Inter	under the supervision of PIA (as per common guide lines)
			Member	M	-	-	√	-	√	-	-	√	-	-	10th	
			Member	M	-	-	√	-	√	-	-	-	√	-	Inter	
			Member	M	√	-	-	√	-	-	-	-	√	-	10th	
			Member	M	√	-	-	√	-	-	-	-	√	-	10th	
			Member	F		-	√	-	√	-	-	-	-	√	-	
			Member	M	√	-	-	√	-	-	√	-	-	-	8th	
			Member	M	√	-	-	√	-	-	-	-	-	√	8th	
			Member	F	√	-	-	√	-	-	-	-	-	√	-	

Jal Sanrakshan Samiti- Kilhauwa**, Gram Panchayat:** Kilhauwa **Name of Project: - IWMP VII** **District- Mahoba**

Sl. No.	Name of Gram Sabha/ GP	Date of Constitution/ Registration as a Society (dd/mm/ yyyy)	Designation	M/F	SC	ST	OBC/Gen	SF	MF	LF	Land-less	UG	SHG	GP	Educa-tional qualifi-cation	Function(s) assigned
8	Kilhauwa	08.06.2010	President	M	√	-		-	√	-	-	√	-	-	10th	Implementation of Watershed programme under the supervision of PIA (as per common guide lines)
			Secretary	M	√	-	-	√	-	-	-	√	-	-	10th	
			Member	M	√	-	-	√	-	-	-	√	-	-	8th	
			Member	M	√	-	-	√	-	-	-	√	-	-	Inter	
			Member	M	-	-	√	-	√	-	-	√	-	-	10th	
			Member	M	-	-	√	-	√	-	-	-	√	-	Inter	
			Member	M	√	-	-	√	-	-	-	-	√	-	10th	
			Member	M	√	-	-	√	-	-	-	-	√	-	10th	
			Member	F		-	√	-	√	-	-	-	-	√	-	
			Member	M	√	-	-	√	-	-	√	-	-	-	8th	
			Member	M	√	-	-	√	-	-	-	-	-	√	8th	
			Member	F	√	-	-	√	-	-	-	-	-	√	-	

Jal Sanrakshan Samiti- Lalaura**, Gram Panchayat:** Lalaura **Name of Project: - IWMP VII** **District- Mahoba**

Sl. No.	Name of Gram Sabha/ GP	Date of Constitution/ Registration as a Society (dd/mm/ yyyy)	Designation	M/F	SC	ST	OBC/Gen	SF	MF	LF	Land-less	UG	SHG	GP	Educa-tional qualifi-cation	Function(s) assigned
9	Lalaura	08.06.2010	President	M	√	-		-	√	-	-	√	-	-	10th	Implementation of Watershed programme under the supervision of PIA (as per common guide lines)
			Secretary	M	√	-	-	√	-	-	-	√	-	-	10th	
			Member	M	√	-	-	√	-	-	-	√	-	-	8th	
			Member	M	√	-	-	√	-	-	-	√	-	-	Inter	
			Member	M	-	-	√	-	√	-	-	√	-	-	10th	
			Member	M	-	-	√	-	√	-	-	-	√	-	Inter	
			Member	M	√	-	-	√	-	-	-	-	√	-	10th	
			Member	M	√	-	-	√	-	-	-	-	√	-	10th	
			Member	F		-	√	-	√	-	-	-	-	√	-	
			Member	M	√	-	-	√	-	-	√	-	-	-	8th	
			Member	M	√	-	-	√	-	-	-	-	-	√	8th	
			Member	F	√	-	-	√	-	-	-	-	-	√	-	

Jal Sanrakshan Samiti- Bhatewara Kalan**, Gram Panchayat:** Bhatewara Kalan**Name of Project: - IWMP VII** **District- Mahoba**

Sl. No.	Name of Gram Sabha/ GP	Date of Constitution/ Registration as a Society (dd/mm/ yyyy)	Designation	M/F	SC	ST	OBC/Gen	SF	MF	LF	Land-less	UG	SHG	GP	Educa-tional qualifi-cation	Function(s) assigned
10	Bhatewara Kalan	08.06.2010	President	M	√	-		-	√	-	-	√	-	-	10th	Implementation of Watershed programme under the
			Secretary	M	√	-	-	√	-	-	-	√	-	-	10th	
			Member	M	√	-	-	√	-	-	-	√	-	-	8th	
			Member	M	√	-	-	√	-	-	-	√	-	-	Inter	

			Member	M	-	-	√	-	√	-	-	√	-	-	10th	supervision of PIA (as per common guide lines)
			Member	M	-	-	√	-	√	-	-	-	√	-	Inter	
			Member	M	√	-	-	√	-	-	-	-	√	-	10th	
			Member	M	√	-	-	√	-	-	-	-	√	-	10th	
			Member	F		-	√	-	√	-	-	-	-	√	-	
			Member	M	√	-	-	√	-	-	√	-	-	-	8th	
			Member	M	√	-	-	√	-	-	-	-	-	√	8th	
			Member	F	√	-	-	√	-	-	-	-	-	√	-	

Jal Sanrakshan Samiti- Karehara Khurd**, Gram Panchayat:** Karehara Khurd **Name of Project: - IWMP VII District- Mahoba**

Sl. No.	Name of Gram Sabha/ GP	Date of Constitution/ Registration as a Society (dd/mm/ yyyy)	Designation	M/F	SC	ST	OBC/Gen	SF	MF	LF	Land-less	UG	SHG	GP	Educa-tional qualifi-cation	Function(s) assigned
11	Karehara Khurd	08.06.2010	President	M	√	-		-	√	-	-	√	-	-	10th	Implementation of Watershed programme under the supervision of PIA (as per common guide lines)
			Secretary	M	√	-	-	√	-	-	-	√	-	-	10th	
			Member	M	√	-	-	√	-	-	-	√	-	-	8th	
			Member	M	√	-	-	√	-	-	-	√	-	-	Inter	
			Member	M	-	-	√	-	√	-	-	√	-	-	10th	
			Member	M	-	-	√	-	√	-	-	-	√	-	Inter	
			Member	M	√	-	-	√	-	-	-	-	√	-	10th	
			Member	M	√	-	-	√	-	-	-	-	√	-	10th	
			Member	F		-	√	-	√	-	-	-	-	√	-	
			Member	M	√	-	-	√	-	-	√	-	-	-	8th	
			Member	M	√	-	-	√	-	-	-	-	-	√	8th	
			Member	F	√	-	-	√	-	-	-	-	-	√	-	

Jal Sanrakshan Samiti- Gagaura**, Gram Panchayat:** Gagaura **Name of Project: - IWMP VII** **District- Mahoba**

Sl. No.	Name of Gram Sabha/ GP	Date of Constitution/ Registration as a Society (dd/mm/ yyyy)	Designation	M/F	SC	ST	OBC/Gen	SF	MF	LF	Land-less	UG	SHG	GP	Educa-tional qualifi-cation	Function(s) assigned
12	Gagaura	08.06.2010	President	M	√	-		-	√	-	-	√	-	-	10th	Implementation of Watershed programme under the supervision of PIA (as per common guide lines)
			Secretary	M	√	-	-	√	-	-	-	√	-	-	10th	
			Member	M	√	-	-	√	-	-	-	√	-	-	8th	
			Member	M	√	-	-	√	-	-	-	√	-	-	Inter	
			Member	M	-	-	√	-	√	-	-	√	-	-	10th	
			Member	M	-	-	√	-	√	-	-	-	√	-	Inter	
			Member	M	√	-	-	√	-	-	-	-	√	-	10th	
			Member	M	√	-	-	√	-	-	-	-	√	-	10th	
			Member	F		-	√	-	√	-	-	-	-	√	-	
			Member	M	√	-	-	√	-	-	√	-	-	-	8th	
			Member	M	√	-	-	√	-	-	-	-	-	√	8th	
			Member	F	√	-	-	√	-	-	-	-	-	√	-	

Jal Sanrakshan Samiti- Jakha**, Gram Panchayat:** Jakha **Name of Project: - IWMP VII** **District- Mahoba**

Sl. No.	Name of Gram Sabha/ GP	Date of Constitution/ Registration as a Society (dd/mm/ yyyy)	Designation	M/F	SC	ST	OBC/Gen	SF	MF	LF	Land-less	UG	SHG	GP	Educa-tional qualifi-cation	Function(s) assigned
13	Jakha	08.06.2010	President	M	√	-		-	√	-	-	√	-	-	10th	Implementation of Watershed programme under the
			Secretary	M	√	-	-	√	-	-	-	√	-	-	10th	
			Member	M	√	-	-	√	-	-	-	√	-	-	8th	
			Member	M	√	-	-	√	-	-	-	√	-	-	Inter	

			Member	M	-	-	√	-	√	-	-	√	-	-	10^{th}	supervision of PIA (as per common guide lines)
			Member	M	-	-	√	-	√	-	-	-	√	-	Inter	
			Member	M	√	-	-	√	-	-	-	-	√	-	10^{th}	
			Member	M	√	-	-	√	-	-	-	-	√	-	10^{th}	
			Member	F		-	√	-	√	-	-	-	-	√	-	
			Member	M	√	-	-	√	-	-	√	-	-	-	8^{th}	
			Member	M	√	-	-	√	-	-	-	-	-	√	8^{th}	
			Member	F	√	-	-	√	-	-	-	-	-	√	-	

The project IWMP-VII spread over in 27 villages of 13 gram panchayat. Gram panchayat wise watershed committee was constituted and detailes are given in above Table.

Table 4.6: Details of Self Help Groups (SHGs) in the project area

Project- IWMP VII **District – Mahoba**

S.No	WC / Name of Village	Name of PIA	Project Name	Description Of Registerd SHG			
				Only Male	Only Female	Male & Female	Total
1	Jal Sangrahan Samiti Naugaon	LDWR IWMP-VII Panwari.	IWMP VII	4	-	-	4
2	Jal Sangrahan Samiti Fadna		IWMP VII	2	1	-	3
3	Jal Sangrahan Samiti Simariya		IWMP VII	1	1	-	2
4	Jal Sangrahan Samiti Nakra		IWMP VII	1	1	-	2
5	Jal Sangrahan Samiti Kilhauwa-I		IWMP VII	1	-	-	1
6	Jal Sangrahan Samiti Kilhauwa-II		IWMP VII	-	2	-	2
	Total			**9**	**5**		**14**

(M – Male, F – Female)

Number Of Members				SC/ST Members			Landless Members			Activities
	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Landless	30	28	58	15	21	36	30	28	58	Goatary, Buffalo Keeping
Small	18	17	35	-	-	-	-	-	-	Goatary, Buffalo Keeping
Marginal	20	22	42	-	-	-	-	-	-	Goatary, Buffalo Keeping
Other	5	4	9	-	-	-	-	-	-	Goatary, Buffalo Keeping
Total	**73**	**71**	**144**	**15**	**21**	**36**	**30**	**28**	**58**	

Account Number	Date of Account	Name of Bank	Deposited Rs in Account	President	Treasurer	Name of SHG
50089867025	15.12.2011	Allahabad Bank, Panwari	1950.00	Gambhir Singh	Sugar Singh	Jai Kal Bhairav Nakra
50089640059	14.12.2011	Allahabad Bank, Panwari	2000.00	Har Kunwar	Rubina	Jai Shri Ram, Kilahuwa
50089639779	14.12.2011	Allahabad Bank, Panwari	2200.00	Tara	Vimla	Maa Durga, Kilahuwa
50094781843	03.01.2012	Allahabad Bank, Panwari	500.00	Arun	Shailendra	Maa Sherawali Naugaon
50094782337	03.01.2012	Allahabad Bank, Panwari	500.00	Hirdesh Kumar	Pawan Kumar	Jai Nirmal Baba Naugaon
50094782042	03.01.2012	Allahabad Bank, Panwari	500.00	Mukesh Kumar	Raj Kumar	Balaji Naugaon
50094781989	03.01.2012	Allahabad Bank, Panwari	500.00	Nathu Ram	Rampal	Jai Ma Durga Naugaon
50094881622	01.02.2012	Allahabad Bank, Panwari	500.00	Rajni	Sunita	Jai Ma Saraswati, Nakra
50098103759	02.03.2012	Allahabad Bank, Panwari	500.00	Shri Dhan Singh	Karan Singh	Jai Balaji Fadna

Table 4.7: Details of Fund flow of Watershed Committee Accounts in IWMP-VII, Mahoba (Amount in Rs.)

S. No.	Name of MWS with code	Name of watershed committee (WC)	Opening Balance	Deposit			Withdrawal			Interest accrued	Closing balance
				DRDA/ ZP cheque No./date	Amount / Date of deposit in WC Account	Total amount available in WC Account as on 31.03.2011	Amount withdrawn by Cash/ Cheque	Date of with-drawal	Purpose of with-drawal		
1	Simariya 2C2A3b1d		-	6.56		6.56					
2	Nakra 2C2A3b1e		-	12.04		12.04					

3	Naugaon 2C2A3r2b		-	5.69		5.69					
4	Kilhauwa-I 2C2A3r1c		-	7.30		7.30					
5	Kilhauwa-II 2C2A3r2c		-	9.48		9.48					
6	Fadna 2C2A3r2d		-	4.32		4.32					
7	Natarra 2C2A3r1b		-	4.07		4.07					
		-	-	49.46		**49.46**					

4.3 Convergence in IWMP-VII, Mahoba

Several programmes are running in the area which are sponsored by Central and State Govt. and could be converged with watershed programmes. Some of them are listed in Table 4.10. The details of the activities to be carried out under convergence in the project are mentioned in Chapter 5. However, micro-watershed wise amount of convergence is mentioned in Table 4.11.

Table 4.8: List of Central/State sponsored schemes

S.No.	Name of Programme	Implementing Agency	Objectives of the Programme
1	Seed Distribution Programme (Pulse Development & ISOPAM)	U.P. Agriculture Deptt.	To increase seed replacement ratio for higher productivity
2	Pump set Distribution (Food Security Mission)	Agriculture Deptt.	Providing irrigation
3	Training Programme	Agriculture Deptt., KVK	Capacity building of the farmers
4	HDPE pipe	Agriculture Deptt.	
5	National Horticulture Mission (NHM)	Horticulture Deptt.	Increasing the area under fruits and vegetables
6	Sanitation Programme	Gram Vikash	To make hygienic condition in the rural

			areas
7	MGNERGA (Bunding, Farm Pond, Adarsh Jalashay, Blast well, Chakroad, etc.)	Gram Panchayat	To provide work to the all village personnel under the rojgar guarantee yojana
8	Dept. of Animal Husbandry	U.P. Animal Husbandry	To improve the productivity of livestock
9	Afforestation	Deptt. of Forest U.P.	
10	NABARD (Agriculture & SMC)	Deptt. Of Agriculture	

Table 4.9: Details of Convergence of IWMP with other Schemes in IWMP-VII, Mahoba (Rs. In Lakh)

S. No.	Name of Micro Watershed	Names of Departments with Schemes converging with IWMP	Fund made available to convergence (Rs. in lakh)	Was this fund included in Rs. 12, 000/ 15,000 per ha.		Name of activity/task/structure undertaken with converged funds	Reference no. of activity/ task/ structure in DPR[@]	Level at which decision for convergence was taken[$]
				Yes	No	(a) Structures (b) livelihoods (c) Any other (pl. specify)[#]		
1	Simariya 2C2A3b1d	MGNREGA	6.04	Additional to the cost of Rs. 12000/ha		Natural Resource Management (Soil and water conservation Structures)	Included in DPR	Distrct Level
2	Nakra 2C2A3b1e	-do-	3.34					
3	Naugaon 2C2A3r2b	-do-	5.89					
4	Kilhauwa-I 2C2A3r1c	-do-	3.73					
5	Kilhauwa-II 2C2A3r2c	-do-	23.80					
6	Fadna 2C2A3r2d	-do-	10.90					
7	Natarra 2C2A3r1b	-do-	5.16					
	Total for project		**58.86**					

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 62 EPA activities were executed in the project area which costed Rs. 26.37 Lakh. Photographs of entry point activities done in the project are given below:

S.No.	Name of Microwatershed	Name of Activity	Length/No	Total Amount Spent (Lakh)
1	Simariya 2C2A3b1d	Kharanja, Pakigul , Kishan Manch, Sokpit, Handpump Repair	10	3.50
2	Nakra 2C2A3b1e	Kisan Manch, Bathroom, Hand Pump Repair, Sokpit, Kharja	09	6.44
3	Naugaon 2C2A3r2b	Sokpit, Well Repair, Kisan Manch, Bathroom, Handpump Repair, Kharanja	07	3.03
4	Kilhauwa-I 2C2A3r1c	Well Repair, Charhi Repair, Puliya, Sokpit	06	3.89
5	Kilhauwa-II 2C2A3r2c	Sokpit, Kharja, Charhi, School Boundry, Chabootara	9	5.05
6	Fadna 2C2A3r2d	Sokpit, Road Filling, Kisan Manch, Well Repair, Charhi.	12	2.30
7	Natarra 2C2A3r1b	Sokpit, Kisan Manch, Nali Crossing, Pond Step	04	2.16
	Total		**57**	**26.37**

PHOTOGRAPHS OF EPA

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 18 years data (1990-2009) with a gap of 2005 and 2006). It is estimated that runoff potential of the project area is 349.29 mm, equivalent to 55 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-VII, Mahoba)

S. No.	Name of Micro Watershed with Code	Cause	Type of erosion	Area affected (ha)	Run off (mm/ year)	Average Soil Loss (Tonnes/ ha/ year)
1	Simariya 2C2A3b1d	Water erosion				
		a	Sheet	204.4	346	26
		b	Rill	423.4		
		c	Gully	102.2		
		Total		**730.00**		
2	Nakra 2C2A3b1e	Water erosion				
		a	Sheet	375.2	355	27
		b	Rill	777.2		
		c	Gully	187.6		
		Total		**1340.00**		
3	Naugaon 2C2A3r2b	Water erosion				
		a	Sheet	176.4	348	28
		b	Rill	365.4		
		c	Gully	88.2		
		Total		**630.00**		
4	Kilhauwa-I 2C2A3r1c	Water erosion				
		a	Sheet	226.8	360	29
		b	Rill	469.8		
		c	Gully	113.4		
		Total		**810.00**		
5	Kilhauwa-II 2C2A3r2c	Water erosion				
		a	Sheet	294.8	339	26
		b	Rill	610.7		

		c	Gully	147.4		
		Total		**1053.00**		

6	Fadna 2C2A3r2d	Water erosion				
		a	Sheet	134.4	345	28
		b	Rill	278.4		
		c	Gully	67.2		
		Total		**480.00**		

7	Natarra 2C2A3r1b	Water erosion				
		a	Sheet	126.0	352	27
		b	Rill	261.0		
		c	Gully	63.0		
		Total		**450.00**		

	Total for IWMP-VII	Water erosion				
		a	**Sheet**	1538.0	**349.29**	**27.29**
		b	**Rill**	3185.9		
		c	**Gully**	769.0		
		Total		**5493.00**		

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 summerised 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-VII, Mahoba Amount In (Lakh)

Sr. No.	Particular of Measures/Activities	Unit	Simariya 2C2A3b1d		Nakra 2C2A3b1e		Naugaon 2C2A3r2b		Kilhauwa-I 2C2A3r1c	
		No., Length/ ha, Volume	Qanty.	Cost	Qanty.	Cost	Qanty.	Cost	Qnty	Est. Cost
I	**Soil & Water Conservation Measures**									
	A- Moisture Conservation Measures									
	1. Field Bund	-	-	-	-	-	-	-	-	-
	2. Contour Bund (with Sodding)	cum	3220	3.16	4770	4.71	2590	2.56	3960	3.92
	3. Peripheral Bund (with Sodding)	cum	4140	8.03	3174	6.26	4145	8.04	3205	6.22
	4. Marginal Bund (with Sodding)	cum	1465	2.84	3334	7.64	1990	3.86	2905	5.63
	5.Submergence Bundhi (with Sodding)	cum	8270	13.56	13222	21.83	6190	10.15	9570	15.69
	B- Water Resource Development									
	1. Tank/Pond	No								
	2- Water Harvesting Bundhi/	cum	2645	10.97	1180	4.24	1500	6.11	2140	9.05
	3-GP									
	4. Field Drainage Structure/ Drop Spill Way	No	3	9.14	9	28.01	2	5.59	4	11.02
	5-ECD		1990	5.89	3310	19.19	2160	10.41	1050	5.12
	Total		21730/3	53.59	28990/9	91.88	18575/2	46.72	22830/4	56.65
	Total for IWMP			**49.06**		**90.05**		**42.34**		**54.43**
	Convergence MNREGA			**4.53**		**1.83**		**4.38**		**2.22**
B	**Silvi-postoral System**									
	A. Trees + Grasses									
	1. Sirash - Stylo hamata & Cencrush (1:1)	ha	2	0.40	2	0.40	2	0.40	2	0.40
	3. Subabul - Stylo hamata & Cencrush (1:1)		1	0.21	1	0.21	1	0.21	1	0.21

	B. Grasses species									
	1. Hetropogon / Crysopogon (On bund)	ha	10	0.30	10	0.30	10	0.30	10	0.30
	2. Cencrush (On bund)	ha	10	0.30	10	0.30	10	0.30	10	0.30
	3. Dina Nath grass (On bund)	ha	10	0.30	10	0.30	10	0.30	10	0.30
	Total		**33**	**1.510**	**33**	**1.510**	**33**	**1.510**	**33**	**1.510**
	Convergence MNREGA (Including Silvi-postoral Syst)			**6.04**		**3.34**		**5.89**		**3.73**
II	**Livelihood for landless People**									
	1. Goatary	No SHGs/Member	4/40	0.92	8/80	1.85	3/30	0.71	3/30	0.72
	2. Back Yard Poultry	No SHGs/Member	2/20	0.47	4/40	0.93	1/10	0.24	2/20	0.48
	3. Poultry (Broiler)	No SHGs/Member	6/60	1.44	12/120	2.85	5/50	1.18	5/50	1.19
	4. Black Smithy	No SHGs/Member	1/10	0.24	5/50	1.20	1/10	0.23	2/20	0.48
	5. Rope Making (Linseed)	No SHGs/Member	1/10	0.23	4/40	0.95	1/10	0.23	1/10	0.23
	6. Tailoring	No SHGs/Member	5/50	1.20	10/100	2.35	4/40	0.96	6/60	1.42
	7. Repairing of Diesel Engine / Implements	No SHGs/Member	2/2	0.30	1/1	0.15	1/1	0.15	1/1	0.15
	8. Vermi composting	No SHGs/Member	8/80	1.92	10/100	2.35	6/60	1.45	10/100	2.40
	9. Fruit Processing	No SHGs/Member	1/10	0.23	1/10	0.23	1/10	0.24	2/20	0.48
	10. Mini Dal Mill	No SHGs/Member	1/10	0.23	1/10	0.24	1/10	0.23	1/10	0.24
	11. Mini flour Mill	No	1/10	0.235	1/10	0.23	1/10	0.22	1/10	0.24

		SHGs/Member								
	12. Mini Oil Expeller	No SHGs/Member	1/10	0.235	1/10	0.22	1/10	0.24	1/10	0.24
	13. Carpentry	No SHGs/Member	1/10	0.23	4/40	0.92	3/30	0.72	2/20	0.48
	Total		**33/321**	**7.88**	**61/601**	**14.47**	**29/281**	**6.80**	**37/361**	**8.75**
III	**Agriculture Production System**									
	A- Crop Demonstrations- (Crop Wise)									
	(1)SMC Area:									
	1. Lentil (ICM)	No. of farmers /Area (ha)	15/15	0.350	20/20	0.47	20/15	0.350	20/15	0.350
	2. Chickpea (ICM)	No. of farmers /Area	5/2.5	0.265	16/8	0.44	5/2.5	0.265	16/8	0.44
	3. Field Pea (ICM)	No. of farmers /Area	9/4.5	0.263	16/8	0.46	9/4.5	0.263	16/8	0.46
	4. Linseed (ICM)	No. of farmers /Area	5/2.5	0.20	18/9	0.27	5/2.5	0.20	12/6	0.18
	5. Mustard (ICM)	No. of farmers /Area	8/4	0.112	8/4	0.112			8/4	0.112
	6. Til (IPNM)	No. of farmers /Area	5/2.5	0.10	20/10	0.36	5/2.5	0.10	10/5	0.18
	7. Urd (ICM)	No. of farmers /Area	5/2.5	0.20	12/6	0.21	5/2.5	0.20	12/6	0.21
	8. Sorghum (ICM)	No. of farmers /Area	5/2.5	0.20	5/2.5	0.20	5/2.5	0.20	5/2.5	0.20
	9. Arhar (ICM)	No. of farmers /Area	8/4	0.16	18/9	0.27	4/2	0.16	18/9	0.27
	10. Wheat	**No. of farmers /Area**	5/2.5	0.29	10/5	0.58	5/2.5	0.29	10/5	0.58

	B- Production of seeds									
	1. Lentil	No. of farmers /Area	5/2.5	0.150	30/15	0.90	5/2.5	0.150	15/7.5	0.45
	2. Chickpea	No. of farmers /Area	15/7.5	0.150	30/15	0.30	15/7.5	0.150	15/7.5	0.150
	3. Field Pea	No. of farmers /Area	15/7.5	0.150	10/5	0.48	15/7.5	0.150	8/4	0.32
	4. Linseed	No. of farmers /Area	8/4	0.150	16/8	0.30	8/4	0.150	16/8	0.30
	5. Mustard	No. of farmers /Area	4/2	0.02	4/2	0.02	4/2	0.02	4/2	0.02
	6. Wheat	No. of farmers /Area	8/3	0.20	10/5	0.30	8/3	0.20	10/5	0.30
	7. Til	No. of farmers /Area	4/2	0.012	8/4	0.02	4/2	0.012	8/4	0.02
	8. Urd	No. of farmers /Area	8/4	0.05	8/4	0.05	8/4	0.05	16/8	0.10
	Agro forestry:-									
	A. Scattered Plantation									
	Species…..									
	1- Aonla	No. of Plants	200	0.12	300	0.18	100	0.06	200	0.12
	2- Ber	No. of Plants	200	0.10	300	0.15	100	0.05	200	0.10
	3- Bael	No. of Plants	200	0.12	300	0.18	50	0.03	200	0.12
	4 - Citrus spp..	No. of Plants	200	0.10	300	0.15	50	0.03	200	0.10
	5. Guava	No. of Plants	200	0.12	300	0.18	100	0.06	200	0.12
	B. Agri-Horticultural System									
	Species									
	1- Aonla	Area in ha	2.0	0.240	4.5	0.56	2.0	0.240	2.0	0.240
	2- Ber	Area in ha	2.0	0.236	4.5	0.56	2.0	0.236	2.0	0.236
	5. Guava	Area in ha	1.25	0.205	2.5	0.35	1.25	0.205	1.25	0.205

	C Block Plantation/ Orchard									
	Species…..									
	1- Guava (Spacing 8 X 6 M)	Area in ha	2.0	0.254	4.0	0.508	2.0	0.254	2.0	0.254
	2- Ber (Sapcing 8 X 5 M)	Area in ha	1.5	0.188	4.0	0.50	1.5	0.188	1.5	0.188
	3- Aonla (Spacing 8 X 8 M)	Area in ha	2.0	0.112	5.0	0.28	2.0	0.112	2.0	0.112
	D. Afforestation on Private Land									
	Species									
	1- Teak (Sapcing 4 X 2.5 M)	ha.	2.00	0.220	3.0	1.74	2.00	0.220	1.00	0.110
	2- Shisham (Sapcing 8 X 6 M)	ha.	2.40	0.252	4.0	0.42	2.40	0.252	2.0	0.21
	3. Bael (8 X 8 M)	ha	2.00	0.19	3.0	0.285	2.00	0.19	2.00	0.19
	4. Jamun (Scattered plantation)	No	750	0.45	1000	0.60	750	0.45	750	0.45
	5. Phalsa (On Bund)	Running Meter	1500	0.60	1500	0.60	1000	0.40	1500	0.60
	Live Stock Management									
	A. Rearing of Milch cattle-									
	1- Cow-	No. of Units / Farmers	60/88	0.01	60/88	0.01	60/88	0.01	60/88	0.01
	2- Buffalloes-	No. of Units / Farmers	2/2	0.24	4/4	0.48	1/1	0.12	2/2	0.24
	3- Goatry-	No. of Units / Farmers	384/35	0.02	384/35	0.02	384/35	0.02	384/35	0.02
	4- Poultry-	No. of Units / Farmers	10/10	-	10/10	-	10/10	-	10/10	-
	5- Broiler-	No. of Units / Farmers	5/5	0.24	5/5	0.24	2/2	0.12	2/2	0.12
	6- Layers-	No. of Units / Farmers	5/5	0.24	5/5	0.24	2/2	0.12	2/2	0.12
	7- Piggeries-	No. of Units / Farmers	0	0.00	0	0.00	0	0.00	0	0.00
	8- Fisheries -	No. of Units / Farmers	2/4	0.18	4/8	0.36	2/4	0.18	1/2	0.09

	9- Dairy -	No. of Units / Farmers	20/4	0.40	20/4	0.40	10/2	0.20	10/2	0.20
	10- Green Fodder	ha/farmer	5/10	0.40	7.5/15	0.60	5/10	0.40	5/10	0.40
	B. Veterinary Services/									
	1- Vaccination/Medication	No. of Animals	890	0.04	890	0.04	890	0.04	890	0.04
	2- Infertility Management	No. of Animals	890	0.04	890	0.04	890	0.04	890	0.04
	3- Others	No. of Animals								
	C. Live stock Improvement Measures									
	1- Artificial Insemination	No. of Animals	356	0.18	356	0.18	356	0.18	356	0.18
	2- Natural Service.	He Buffalo	1	0.24	2	0.48	1	0.24	1	0.24
	Total for Ag. Production System			**8.76**		**16.08**		**7.56**		**9.72**

Sr. No.	**Particular of Measures/Activities**	**Unit**	Kilhauwa-II 2C2A3r2c		Natarra 2C2A3r1b		Fadna 2C2A3r2d	
		No., Length/ ha, Volume	**Qanty.**	**Cost**	**Qanty.**	**Cost**	**Qanty.**	**Cost**
I	**Soil & Water Conservation Measures**							
	A- Moisture Conservation Measures							
	1. Field Bund	-	-	-	-	-	-	-
	2. Contour Bund (with Sodding)	cum	7796	7.70	2250	2.22		
	3. Peripheral Bund (with Sodding)	cum	5675	11.00	3170	6.22	2350	4.50
	4. Marginal Bund (with Sodding)	cum	6650	12.89	1850	3.59	1825	3.54
	5.Submergence Bundhi (with Sodding)	cum	19200	31.72	9395	15.40	6285	10.31
	B- Water Resource Development							
	1. Tank/Pond	No						
	2- Water Harvesting Bundhi/	cum	3680	13.23	1540	5.54	1000	3.60
	3-GP							
	4. Field Drainage Structure/ Drop Spill Way	No					2	5.87
	5-ECD		3985	16.51	1800	8.68	1260	6.07

	Total		**46986**	**93.05**	**20005**	**41.65**	**12720/2**	**33.89**
	Total for IWMP			**70.76**		**32.26**		**30.24**
	Convergence MNREGA			**22.29**		**9.39**		**3.65**
B	**Silvi-postoral System**							
	A. Trees + Grasses							
	1. Sirash - Stylo hamata & Cencrush (1:1)	ha	2	0.40	2	0.40	2	0.40
	3. Subabul - Stylo hamata & Cencrush (1:1)		1	0.21	1	0.21	1	0.21
	B. Grasses species							
	1. Hetropogon / Crysopogon (On bund)	ha	10	0.30	10	0.30	10	0.30
	2. Cencrush (On bund)	ha	10	0.30	10	0.30	10	0.30
	3. Dina Nath grass (On bund)	ha	10	0.30	10	0.30	10	0.30
	Total		**33**	**1.510**	**33**	**1.510**	**33**	**1.510**
	Convergence MNREGA (Including Silvi-postoral Syst)			**23.80**		**10.90**		**5.16**
II	**Livelihood for landless People**							
	1. Goatary	No SHGs/Member	5/50	1.20	3/30	0.69	2/20	0.46
	2. Back Yard Poultry	No SHGs/Member	2/20	0.48	1/10	0.21	1/10	0.24
	3. Poultry (Broiler)	No SHGs/Member	7/70	1.68	5/50	1.10	5/50	1.20
	4. Black Smithy	No SHGs/Member	2/20	0.48	1/10	0.23	1/10	0.23
	5. Rope Making (Linseed)	No SHGs/Member	3/30	0.72	1/10	0.23	1/10	0.23
	6. Tailoring	No SHGs/Member	10/100	2.40	2/20	0.48	2/20	0.48
	7. Repairing of Diesel Engine / Implements	No SHGs/Member	1/1	0.15	1/1	0.15	1/1	0.15
	8. Vermi composting	No SHGs/Member	10/100	2.36	3/30	0.70	3/30	0.70
	9. Fruit Processing	No SHGs/Member	1/10	0.23	1/10	0.24	1/10	0.24
	10. Mini Dal Mill	No SHGs/Member	1/10	0.24	1/10	0.23	1/10	0.23
	11. Mini flour Mill	No SHGs/Member	1/10	0.24	1/10	0.23	1/10	0.23
	12. Mini Oil Expeller	No SHGs/Member	1/10	0.24	1/10	0.24	1/10	0.24
	13. Carpentry	No SHGs/Member	4/40	0.96	2/20	0.45	1/10	0.23
	Total		**48/471**	**11.37**	**23/221**	**5.18**	**14/140**	**4.86**
III	**Agriculture Production System**							
	A- Crop Demonstrations- (Crop Wise)							

	(1)SMC Area:							
	1. Lentil (ICM)	No. of farmers /Area (ha)	20/10	0.47	15/7.5	0.350	10/5	0.235
	2. Chickpea (ICM)	No. of farmers /Area	16/8	0.44	6/3	0.165	6/3	0.165
	3. Field Pea (ICM)	No. of farmers /Area	16/8	0.46	6/3	0.175	6/3	0.175
	4. Linseed (ICM)	No. of farmers /Area	12/6	0.18	5/2.5	0.20	5/2.5	0.20
	5. Mustard (ICM)	No. of farmers /Area	8/4	0.112	8/4	0.112	8/4	0.112
	6. Til (IPNM)	No. of farmers /Area	10/5	0.18	8/4	0.144	4/2	0.072
	7. Urd (ICM)	No. of farmers /Area	12/6	0.21	10/5	0.175	10/5	0.175
	8. Sorghum (ICM)	No. of farmers /Area	10/5	0.40	5/2.5	0.20	5/2.5	0.20
	9. Arhar (ICM)	No. of farmers /Area	18/9	0.27	4/5	0.16	2/3	0.08
	10. Wheat	**No. of farmers /Area**	10/5	0.58	5/2.5	0.29	5/2.5	0.29
	B- Production of seeds							
	1. Lentil	No. of farmers /Area	15/7.5	0.45	5/2.5	0.15	5/2.5	0.15
	2. Chickpea	No. of farmers /Area	15/7.5	0.150	-	-	-	-
	3. Field Pea	No. of farmers /Area	8/4	0.32	15/7.5	0.15	15/7.5	0.15
	4. Linseed	No. of farmers /Area	16/8	0.30	8/4	0.150	8/4	0.150

	5. Mustard	No. of farmers /Area	4/2	0.02	0	0.000	0	0.000
	6. Wheat	No. of farmers /Area	8/4	0.30	4/1.5	0.100	4/1.5	0.100
	7. Til	No. of farmers /Area	8/4	0.02	4/2	0.01	8/4	0.02
	8. Urd	No. of farmers /Area	8/4	0.05	8/4	0.05	8/4	0.05
	Agro forestry:-							
	A. Scattered Plantation							
	Species…..							
	1- Aonla	No. of Plants	200	0.12	100	0.06	100	0.06
	2- Ber	No. of Plants	200	0.10	100	0.05	100	0.05
	3- Bael	No. of Plants	200	0.12	50	0.03	50	0.03
	4 - Citrus spp..	No. of Plants	200	0.10	50	0.03	50	0.03
	5. Guava	No. of Plants	200	0.12	100	0.06	100	0.06
	B. Agri-Horticultural System							
	Species							
	1- Aonla	Area in ha	4.5	0.56	1.0	0.125	1.0	0.125
	2- Ber	Area in ha	4.5	0.56	1.0	0.115	1.0	0.115
	5. Guava	Area in ha	2.5	0.35	0.50	0.145	0.50	0.145
	C Block Plantation/ Orchard							
	Species…..							
	1- Guava (Spacing 8 X 6 M)	Area in ha	2.0	0.254	1.0	0.127	1.0	0.127
	2- Ber (Sapcing 8 X 5 M)	Area in ha	2.0	0.25	1.0	0.125	1.0	0.125
	3- Aonla (Spacing 8 X 8 M)	Area in ha	2.5	0.14	2.0	0.112	2.0	0.112
	D. Afforestation on Private Land							
	Species							
	1- Teak (Sapcing 4 X 2.5 M)	ha.	2.0	1.16	1.00	0.110	1.00	0.110
	2- Shisham (Sapcing 8 X 6 M)	ha.	4.0	0.42	1.20	0.126	1.20	0.126

	3. Bael (8 X 8 M)	ha	2.00	0.19	2.00	0.19	1.00	0.095
	4. Jamun (Scattered plantation)	No	750	0.45	250	0.15	250	0.15
	5. Phalsa (On Bund)	Running Meter	1500	0.60	500	0.20	500	0.20
	Live Stock Management							
	A. Rearing of Milch cattle-							
	1- Cow-	No. of Units / Farmers	60/88	0.01	60/88	0.01	60/88	0.01
	2- Buffalloes-	No. of Units / Farmers	2/2	0.24	1/1	0.12	1/1	0.12
	3- Goatry-	No. of Units / Farmers	384/35	0.02	384/35	0.02	384/35	0.02
	4- Poultry-	No. of Units / Farmers	10/10	-	10/10	-	10/10	-
	5- Broiler-	No. of Units / Farmers	5/5	0.24	2/2	0.12	2/2	0.12
	6- Layers-	No. of Units / Farmers	5/5	0.24	1/1	0.06	1/1	0.06
	7- Piggeries-	No. of Units / Farmers	0	0.00	0	0.00	0	0.00
	8- Fisheries -	No. of Units / Farmers	2/4	0.18	1/2	0.09	1/2	0.09
	9- Dairy -	No. of Units / Farmers	20/4	0.40	5/1	0.10	5/1	0.10
	10- Green Fodder	ha/farmer	5/10	0.40	5/10	0.40	5/10	0.40
	B. Veterinary Services/							
	1- Vaccination/Medication	No. of Animals	890	0.04	890	0.04	890	0.04
	2- Infertility Management	No. of Animals	890	0.04	890	0.04	890	0.04
	3- Others	No. of Animals						
	C. Live stock Improvement Measures							
	1- Artificial Insemination	No. of Animals	356	0.18	356	0.18	356	0.18

	2- Natural Service.	He Buffalo	1	0.24	1	0.24	1	0.24
	Total for Ag. Production System			**12.64**		**5.76**		**5.40**

Note: The budget available under IWMP-VII is Rs.659.16 lakh; however, the activities are planned for the Rs. 718.02. The deficit of Rs 58.86 will be making up through convergence of different development schemes of central and state govt.

Table 5.2: Gram Panchayat wise details of Watershed Development Activities proposed in IWMP-VII, Panwari, Mahoba.

S. No.	Particular of Measures/Activities	Unit	Nakra		Fadna		Devganpura		Panwari		Lodhipura	
		No., Length/ ha, Volume	Qanty.	Cost	Qanty.	Cost	Qanty.	Cost	Qnty	Cost	Qnty	Cost
I	**Soil & Water Conservation Measures**											
	A- Moisture Conservation Measures											
	1. Field Bund	-	-	-	-	-	-	-	-	-	-	-
	2. Contour Bund (with Sodding)	cum	5210	5.14	10401	10.28	1050	1.04	200	0.20	1940	1.92
	3. Peripheral Bund (with Sodding)	cum	4212	8.17	8745	16.93	350	0.76			1865	3.62
	4. Marginal Bund (with Sodding)	cum	3054	7.07	6870	13.35			1650	3.20	475	0.92
	5.Submergence Bundhi (with Sodding)	cum	9788	16.19	17025	27.95	1095	1.80	900	1.48	7320	12.00
	B- <u>Water Resource Development</u>											
	1. Tank/Pond	No										
	2- Water Harvesting Bundhi/	cum	1620	5.83	4310	15.51					620	3.69

	3-GP											
	4. Field Drainage Structure/ Drop Spill Way	No					1	3.54	3	8.41	3	10.00
	5-ECD		2930	19.92	7025	33.86			220	1.06	1190	2.04
	Total		**26814**	**62.32**	**54376**	**117.88**	2495/1	7.14	2970/3	14.35	13410/3	34.19
	Total for IWMP			**54.90**		**89.99**		**5.66**		**12.32**		**32.99**
	Convergence MNREGA			**7.42**		**27.89**		**1.48**		**2.03**		**1.20**
B	**Silvi-postoral System**											
	A. Trees + Grasses											
	1. Sirash - Stylo hamata & Cencrush (1:1)	ha	2	0.40	2	0.40	2	0.40	2	0.40	2	0.40
	3. Subabul - Stylo hamata & Cencrush (1:1)		1	0.21	1	0.21	1	0.21	1	0.21	1	0.21
	B. Grasses species											
	1. Hetropogon / Crysopogon (On bund)	ha	10	0.30	10	0.30	10	0.30	10	0.30	10	0.30
	2. Cencrush (On bund)	ha	10	0.30	10	0.30	10	0.30	10	0.30	10	0.30
	3. Dina Nath grass (On bund)	ha	10	0.30	10	0.30	10	0.30	10	0.30	10	0.30
	Total		**33**	**1.510**	**33**	**1.510**	**33**	**1.510**	**33**	**1.510**	**33**	**1.510**
	Convergence MNREGA (Including Silvi-postoral Syst)			**8.93**		**26.38**		**2.99**		**3.54**		**2.71**
II	**Livelihood for landless People**											
	1. Goatary	No	5/50	1.20	10/100	2.35	1/10	0.22	1/10	0.22	2/20	0.48

		SHGs/Member										
	2. Back Yard Poultry	No SHGs/Member	1/10	0.24	5/50	1.15			1/10	0.23	1/10	0.23
	3. Poultry (Broiler)	No SHGs/Member	5/50	1.20	10/100	2.38	1/10	0.24	2/20	0.42	4/40	0.96
	4. Black Smithy	No SHGs/Member	1/10	0.24	3/30	0.72			1/10	0.23	1/10	0.23
	5. Rope Making (Linseed)	No SHGs/Member	1/10	0.23	1/10	0.23			1/10	0.23	1/10	0.24
	6. Tailoring	No SHGs/Member	8/80	1.96	8/80	1.95	1/10	0.23	2/20	0.42	2/20	0.46
	7. Repairing of Diesel Engine / Implements	No SHGs/Member	1/1	0.15	1/1	0.15					1/1	0.15
	8. Vermi composting	No SHGs/Member	10/100	2.40	11/110	2.64	1/10	0.22	1/10	0.23	5/50	1.20
	9. Fruit Processing	No SHGs/Member	1/10	0.24	2/20	0.48					1/10	0.23
	10. Mini Dal Mill	No SHGs/Member	1/10	0.23	2/20	0.48					1/10	0.23
	11. Mini flour Mill	No SHGs/Membe	1/10	0.24	2/20	0.48					1/10	0.21

		r										
	12. Mini Oil Expeller	No SHGs/Member	1/10	0.245	1/10	0.23					1/10	0.22
	13. Carpentry	No SHGs/Member	1/10	0.24	5/50	1.22					2/20	0.46
	Total		**37/361**	**8.82**	**61/601**	**14.46**	**4/40**	**0.91**	**9/90**	**1.98**	**23/221**	**5.30**
III	**Agriculture Production System**											
	A- Crop Demonstrations- (Crop Wise)											
	(1)SMC Area:											
	1. Lentil (ICM)	No. of farmers /Area (ha)	12/6	0.28	12/6	0.28	3/1.5	0.07	3/1.5	0.07	6/3	0.14
	2. Chickpea (ICM)	No. of farmers /Area	12/6	0.33	12/6	0.33	3/1.5	0.083	3/1.5	0.083	6/3	0.165
	3. Field Pea (ICM)	No. of farmers /Area	6/3	0.175	6/3	0.175					0	0.00
	4. Linseed (ICM)	No. of farmers /Area	5/2.5	0.20	5/2.5	0.20					0	0
	5. Mustard (ICM)	No. of farmers /Area	10/5	0.14	10/5	0.14					10/5	0.14
	6. Til (IPNM)	No. of farmers /Area	10/5	0.20	10/5	0.20					5/2.5	0.10
	7. Urd (ICM)	No. of farmers /Area	10/5	0.40	10/5	0.40					0	0
	8. Sorghum (ICM)	No. of farmers /Area	5/2.5	0.20	5/2.5	0.20					0	0

	9. Arhar (ICM)	No. of farmers /Area	4/2	0.16	4/2	0.16	2/1	0.08			2/1	0.08
	10. Wheat	**No. of farmers /Area**	20/10	0.58	15/7.5	0.435	5/2.5	0.145	5/2.5	0.145	5/2.5	0.145
	B- Production of seeds											
	1. Lentil	No. of farmers /Area	10/5	0.300	30/15	0.90	5/2.5	0.150	5/2.5	0.150	5/2.5	0.150
	2. Chickpea	No. of farmers /Area	15/7.5	0.150	30/15	0.90	8/4	0.077	8/4	0.077	15/7.5	0.15
	3. Field Pea	No. of farmers /Area	15/7.5	0.150	15/7.5	0.150			2/1	0.08	2/1	0.08
	4. Linseed	No. of farmers /Area	8/4	0.150	8/4	0.150						
	5. Mustard	No. of farmers /Area	10/5	0.150	10/5	0.150			5/2.5	0.075	5/2.5	0.075
	6. Wheat	No. of farmers /Area	16/8	0.200	30/16	0.400	4/2	0.050	4/2	0.050	4/2	0.05
	7. Til	No. of farmers /Area	4/2	0.012	4/2	0.012					4/2	0.012
	8. Urd	No. of farmers /Area	2/1	0.062	4/2	0.124					2/1	0.062
	Agro forestry:-											
	A. Scattered Plantation											
	Species…..											
	1- Aonla	No. of Plants	400	0.24	400	0.24					400	0.24
	2- Ber	No. of Plants	200	0.10	200	0.10					200	0.10
	3- Bael	No. of Plants	300	0.18	300	0.18	100	0.06	100	0.06	200	0.12

	4 - Citrus spp..	No. of Plants	100	0.05	300	0.15					100	0.05
	5. Guava	No. of Plants	200	0.12	200	0.12					200	0.12
	B. Agri-Horticultural System											
	Species											
	1- Aonla	Area in ha	3.00	0.338	4.50	0.507					3.00	0.338
	2- Ber	Area in ha	3.00	0.315	4.50	0.473					3.00	0.315
	5. Guava	Area in ha	1.00	0.212	4.50	0.953					1.00	0.212
	C Block Plantation/ Orchard											
	Species…..											
	1- Guava (Spacing 8 X 6 M)	Area in ha	2.50	0.312	5.0	0.624					2.50	0.312
	2- Ber (Sapcing 8 X 5 M)	Area in ha	3.50	0.438	5.25	0.657					3.50	0.438
	3- Aonla (Spacing 8 X 8 M)	Area in ha	2.50	0.234	5.0	0.468					2.50	0.234
	D. Afforestation on Private Land											
	Species											
	1- Teak (Sapcing 4 X 2.5 M)	ha.	0.75	0.185	6.00	1.16			0.75	0.185	0.75	0.185
	2- Shisham (Sapcing 8 X 6 M)	ha.	1.20	0.121	4.80	0.504			1.20	0.121	1.20	0.121
	3. Bael (8 X 8 M)	ha	2.00	0.19	6.00	0.57			1.00	0.095	2.00	0.19
	4. Jamun (Scattered plantation)	No	500	0.30	1000	0.60					250	0.15
	5. Phalsa (On Bund)	Running Meter	1000	0.40	2000	0.80			250	0.10	250	0.10
	Live Stock											

	Management											
	A. Rearing of Milch cattle-											
	1- Cow-	No. of Units / Farmers	60/88	0.01	30/44	0.06			30/44	0.06	30/44	0.06
	2- Buffalloes-	No. of Units / Farmers	2/2	0.24	3/3	0.36					1/1	0.12
	3- Goatry-	No. of Units / Farmers	384/35	0.02	384/35	0.02	384/35	0.02	384/35	0.02	384/35	0.02
	4- Poultry-	No. of Units / Farmers	10/10	-	10/10	-	10/10	-	10/10	-	10/10	-
	5- Broiler-	No. of Units / Farmers	5/5	0.24	5/5	0.24					1/1	0.06
	6- Layers-	No. of Units / Farmers	5/5	0.24	5/5	0.24					1/1	0.06
	7- Piggeries-	No. of Units / Farmers	0	0.00	-	-	0	0.00	0	0.00	-	-
	8- Fisheries -	No. of Units / Farmers	2/4	0.18	2/4	0.18			1/2	0.09	2/4	0.18
	9- Dairy -	No. of Units / Farmers	20/6	0.400	20/6	0.400	5/1	0.10	5/1	0.10	5/1	0.10
	10- Green Fodder	ha/farmer	5/10	0.40	5/10	0.400	1.5/3	0.100	1.5/3	0.100	3/1.5	0.20
	B. Veterinary Services/											
	1- Vaccination/Medication	No. of Animals	890	0.04	876	0.04	890	0.04	890	0.04	876	0.04
	2- Infertility Management	No. of Animals	890	0.04	876	0.03	890	0.04	890	0.04	876	0.03
	3- Others	No. of Animals										

	C. Live stock Improvement Measures											
	1- Artificial Insemination	No. of Animals	356	0.18	640	0.21			640	0.21	640	0.21
	2- Natural Service.	He Buffalo	1	0.24	2	0.48			1	0.24	1	0.24
	Total for Ag. Production System			**9.80**		**16.07**		**1.01**		**2.20**		**5.89**

Sr. No.	**Particular of Measures/Activities**	**Unit**	Burehra		Natarra		Kilahuwa		Lalaura		Bhatewara Kalan	
		No., Length/ ha, Volume	**Qanty.**	**Cost**	**Qanty.**	**Cost**	**Qanty.**	**Cost**	**Qnty**	**Cost**	**Qnty**	**Cost**
I	**Soil & Water Conservation Measures**											
	A- Moisture Conservation Measures											
	1. Field Bund	-	-	-	-	-	-	-	-	-	-	-
	2. Contour Bund (with Sodding)	cum	880	0.89	3195	3.16	4615	4.55				
	3. Peripheral Bund (with Sodding)	cum	1250	2.42	3020	5.93	2620	5.08				
	4. Marginal Bund (with Sodding)	cum	500	0.97	2685	5.21	2095	4.06				
	5.Submergence Bundhi (with Sodding)	cum	175	0.29	10615	17.32	12925	21.20	295	0.380		
	B- <u>Water Resource Development</u>											
	1. Tank/Pond	No										
	2- Water Harvesting	cum	1285	4.62	2620	10.02	640	2.62			620	2.68

	Bundhi/											
	3-GP											
	4. Field Drainage Structure/ Drop Spill Way	No					7	21.04			1	2.49
	5-ECD		220	1.06	2000	9.64	2170	10.47			650	3.19
	Total		**4310**	**10.25**	24135	51.28	25065/7	69.02	**295**	**0.38**	**1270/ 1**	**8.31**
	Total for IWMP			**6.57**		**39.29**		**66.02**		**0.38**		**5.67**
	Convergence MNREGA			**3.68**		**11.99**		**3.00**				**2.64**
B	**Silvi-postoral System**											
	A. Trees + Grasses											
	1. Sirash - Stylo hamata & Cencrush (1:1)	ha	2	0.40	2	0.40	2	0.40	2	0.40	2	0.40
	3. Subabul - Stylo hamata & Cencrush (1:1)		1	0.21	1	0.21	1	0.21	1	0.21	1	0.21
	B. Grasses species											
	1. Hetropogon / Crysopogon (On bund)	ha	10	0.30	10	0.30	10	0.30	10	0.30	10	0.30
	2. Cencrush (On bund)	ha	10	0.30	10	0.30	10	0.30	10	0.30	10	0.30
	3. Dina Nath grass (On bund)	ha	10	0.30	10	0.30	10	0.30	10	0.30	10	0.30
	Total		**33**	**1.510**	**33**	**1.510**	**33**	**1.510**	**33**	**1.510**	**33**	**1.510**
	Convergence MNREGA (Including Silvi-postoral Syst)			**5.19**		**13.50**		**4.51**		**1.51**		**4.15**
II	**Livelihood for landless People**											
	1. Goatary	No SHGs/Member	1/10	0.24	4/40	0.95	6/60	1.44			1/10	0.23

	2. Back Yard Poultry	No SHGs/Member	1/10	0.22	2/20	0.48	2/20	0.48			1/10	0.24
	3. Poultry (Broiler)	No SHGs/Member	2/20	0.38	4/40	0.96	6/60	1.42	1/4	0.06	1/10	0.23
	4. Black Smithy	No SHGs/Member			1/10	0.24	2/20	0.48				
	5. Rope Making (Linseed)	No SHGs/Member			1/10	0.23	2/20	0.46				
	6. Tailoring	No SHGs/Member			4/40	0.94	6/60	1.43				
	7. Repairing of Diesel Engine / Implements	No SHGs/Member			1/1	0.15	1/1	0.15				
	8. Vermi composting	No SHGs/Member	1/10	0.22	5/50	1.18	10/100	2.36			1/10	0.21
	9. Fruit Processing	No SHGs/Member			1/10	0.24	2/20	0.48				
	10. Mini Dal Mill	No SHGs/Member			1/10	0.24	2/20	0.48				
	11. Mini flour Mill	No SHGs/Member			1/10	0.23	2/20	0.48				
	12. Mini Oil Expeller	No			1/10	0.24	2/20	0.48				

		SHGs/Member										
	13. Carpentry	No SHGs/Member			1/10	0.23	2/20	0.48				
	Total		**5/50**	**1.06**	**26**	**6.31**	**45/441**	**10.61**	**1/4**	**0.06**	**4/40**	**0.91**
III	**Agriculture Production System**											
	A- Crop Demonstrations- (Crop Wise)											
	(1)SMC Area:											
	1. Lentil (ICM)	No. of farmers /Area (ha)	3/1.5	0.07	6/3	0.14	20/10	0.47			6/3	0.14
	2. Chickpea (ICM)	No. of farmers /Area	0	0	6/3	0.165	16/8	0.44			6/3	0.165
	3. Field Pea (ICM)	No. of farmers /Area	0	0.00	0	0.00	16/8	0.46			-	-
	4. Linseed (ICM)	No. of farmers /Area	0	0	0	0	12/6	0.18			-	-
	5. Mustard (ICM)	No. of farmers /Area	5/2.5	0.07	10/5	0.14	8/4	0.112				
	6. Til (IPNM)	No. of farmers /Area	-	-	5/2.5	0.10	10/5	0.18			-	-
	7. Urd (ICM)	No. of farmers /Area	-	-	5/2.5	0.20	12/6	0.21			-	-
	8. Sorghum (ICM)	No. of farmers /Area	0	0	5/2.5	0.20	10/5	0.40			0	0
	9. Arhar (ICM)	No. of farmers /Area	2/1	0.04	2/1	0.04	18/9	0.27				

	10. Wheat	**No. of farmers /Area**	5/2	0.145	10/5	0.29	10/5	0.58			5/2	0.145
	B- Production of seeds											
	1. Lentil	No. of farmers /Area	-	-	10/5	0.30	15/7.5	0.45			-	-
	2. Chickpea	No. of farmers /Area	0	0	15/7.5	0.15	30/15	0.30			0	0
	3. Field Pea	No. of farmers /Area	-	-	2/1	0.08	8/4	0.32			-	-
	4. Linseed	No. of farmers /Area	0	0			16/8	0.30			0	0
	5. Mustard	No. of farmers /Area	0	0.000	5/2.5	0.075	8/4	0.04			0	0.000
	6. Wheat	No. of farmers /Area	4/1	0.10	4/2	0.15	7/3	0.225			3/1	0.10
	7. Til	No. of farmers /Area	2/1	0.006	4/2	0.012	8/4	0.02				
	8. Urd	No. of farmers /Area	0	0.000	2/1	0.062	8/4	0.05			0	0.000
	<u>Agro forestry</u>:-											
	A. Scattered Plantation											
	Species…..											
	1- Aonla	No. of Plants	-	-	400	0.24	200	0.12			-	-
	2- Ber	No. of Plants	0	0	200	0.10	200	0.10			0	0
	3- Bael	No. of Plants			200	0.12	200	0.12				
	4 - Citrus spp...	No. of Plants			150	0.08	200	0.10				
	5. Guava	No. of Plants			200	0.12	200	0.12				
	B. Agri-Horticultural System											

	Species											
	1- Aonla	Area in ha	-	-	3.00	0.338	3.00	0.338			-	-
	2- Ber	Area in ha	0	0	3.00	0.315	3.00	0.315			0	0
	5. Guava	Area in ha	-	-	1.00	0.212	2.5	0.35			-	-
	C Block Plantation/ Orchard											
	Species…..											
	1- Guava (Spacing 8 X 6 M)	Area in ha	-	-	2.50	0.312	2.0	0.254			-	-
	2- Ber (Sapcing 8 X 5 M)	Area in ha	0	0	3.50	0.438	2.0	0.25			0	0
	3- Aonla (Spacing 8 X 8 M)	Area in ha	-	-	2.50	0.234	2.5	0.14			-	-
	D. Afforestation on Private Land											
	Species											
	1- Teak (Sapcing 4 X 2.5 M)	ha.	-	-	1.50	0.37	2.0	1.16			-	-
	2- Shisham (Sapcing 8 X 6 M)	ha.	0	0	1.20	0.121	2.0	0.21			0	0
	3. Bael (8 X 8 M)	ha			2.00	0.19	2.00	0.19				
	4. Jamun (Scattered plantation)	No			250	0.15	750	0.45				
	5. Phalsa (On Bund)	Running Meter			500	0.20	1000	0.40				
	Live Stock Management											
	A. Rearing of Milch cattle-											
	1- Cow-	No. of Units / Farmers	30/44	0.06	30/44	0.06	60/88	0.01			30/44	0.06

	2- Buffalloes-	No. of Units / Farmers	1/1	0.12	1/1	0.12	2/2	0.24			-	-
	3- Goatry-	No. of Units / Farmers	371/30	0.014	384/35	0.02	384/35	0.02			371/30	0.014
	4- Poultry-	No. of Units / Farmers	10/10	-	10/10	-	10/10	-			10/10	-
	5- Broiler-	No. of Units / Farmers	1/1	0.06	1/1	0.06	3/3	0.18			1/1	0.06
	6- Layers-	No. of Units / Farmers	1/1	0.06	1/1	0.06	3/3	0.18			1/1	0.06
	7- Piggeries-	No. of Units / Farmers	-	-	-	-	0	0.00			-	-
	8- Fisheries -	No. of Units / Farmers	-	-	2/4	0.18	3/6	0.24			-	-
	9- Dairy -	No. of Units / Farmers	5/1	0.10	5/1	0.10	20/4	0.40			5/1	0.10
	10- Green Fodder	ha/farmer	3/1.5	0.20	3/1.5	0.20	5/10	0.40			3/1.5	0.20
	B. Veterinary Services/											
	1- Vaccination/Medication	No. of Animals	876	0.04	876	0.04	890	0.04	876	0.04		
	2- Infertility Management	No. of Animals	876	0.04	876	0.04	890	0.04	876	0.03		
	3- Others	No. of Animals										
	C. Live stock Improvement Measures											
	1- Artificial Insemination	No. of Animals			640	0.21	356	0.18				
	2- Natural Service.	He Buffalo			1	0.24	1	0.24				

	Total for Ag. Production System		**1.17**		**7.02**		**11.79**		**0.07**		**1.01**

Sr. No.	**Particular of Measures/Activities**	**Unit**	Karehra Khurd		Gugaura		Jakha	
		No., Length/ ha, Volume	**Qanty.**	**Cost**	**Qanty.**	**Cost**	**Qanty.**	**Cost**
I	**Soil & Water Conservation Measures**							
	A- Moisture Conservation Measures							
	1. Field Bund	-	-	-	-	-	-	-
	2. Contour Bund (with Sodding)	cum	650	0.65			1245	1.19
	3. Peripheral Bund (with Sodding)	cum	260	0.50	2300	4.46	1000	1.94
	4. Marginal Bund (with Sodding)	cum					1315	2.55
	5.Submergence Bundhi (with Sodding)	cum	1300	2.13	2450	4.75	4225	6.93
	B- Water Resource Development							
	1. Tank/Pond	No						
	2- Water Harvesting Bundhi/	cum			1240	4.46	1670	6.01
	3-GP							
	4. Field Drainage Structure/ Drop Spill Way	No					4	12.92
	5-ECD				1100	5.30	1160	5.69
	Total		**2210**	**3.28**	7090	18.97	10615/4	37.23
	Total for IWMP			**2.29**		**17.81**		**35.23**
	Convergence MNREGA			**0.99**		**1.16**		**2.00**
B	**Silvi-postoral System**							
	A. Trees + Grasses							
	1. Sirash - Stylo hamata & Cencrush (1:1)	ha	2	0.40	2	0.40		4.80
	3. Subabul - Stylo hamata & Cencrush (1:1)		1	0.21	1	0.21		2.52
	B. Grasses species							
	1. Hetropogon / Crysopogon (On bund)	ha	10	0.30	10	0.30		3.60
	2. Cencrush (On bund)	ha	10	0.30	10	0.30		3.60

	3. Dina Nath grass (On bund)	ha	10	0.30	10	0.30		3.60
	Total		**33**	**1.510**	**33**	**1.510**		18.12
	Convergence MNREGA (Including Silvi-postoral Syst)			**1.510**		**1.510**		103.60
II	**Livelihood for landless People**							
	1. Goatary	No SHGs/Member			1/10	0.22	3/30	0.70
	2. Back Yard Poultry	No SHGs/Member			1/10	0.22	1/10	0.23
	3. Poultry (Broiler)	No SHGs/Member	2/16	0.37	2/20	0.44	4/40	0.95
	4. Black Smithy	No SHGs/Member			1/10	0.22	1/10	0.24
	5. Rope Making (Linseed)	No SHGs/Member			1/10	0.22	1/10	0.24
	6. Tailoring	No SHGs/Member			1/10	0.22	2/20	0.49
	7. Repairing of Diesel Engine / Implements	No SHGs/Member					1/1	0.15
	8. Vermi composting	No SHGs/Member			1/10	0.22	5/50	1.22
	9. Fruit Processing	No SHGs/Member			1/10	0.22	1/10	0.24
	10. Mini Dal Mill	No SHGs/Member			1/10	0.22	1/10	0.24
	11. Mini flour Mill	No SHGs/Member			1/10	0.22	1/10	0.24
	12. Mini Oil Expeller	No SHGs/Member			1/10	0.22	1/10	0.24
	13. Carpentry	No SHGs/Member			1/10	0.22	2/20	0.48
	Total		**2/16**	**0.37**	**13/121**	**2.86**	**24**	**5.66**
III	**Agriculture Production System**							
	A- Crop Demonstrations- (Crop Wise)							
	(1)SMC Area:							
	1. Lentil (ICM)	No. of farmers /Area (ha)			3/1.5	0.07	6/3	0.14
	2. Chickpea (ICM)	No. of farmers /Area			0	0	6/3	0.165
	3. Field Pea (ICM)	No. of farmers /Area			0	0.00	0	0.00
	4. Linseed (ICM)	No. of farmers /Area			0	0	0	0

	5. Mustard (ICM)	No. of farmers /Area			5/2.5	0.07	10/5	0.14
	6. Til (IPNM)	No. of farmers /Area			-	-	5/6	0.10
	7. Urd (ICM)	No. of farmers /Area			-	-	5/6	0.20
	8. Sorghum (ICM)	No. of farmers /Area			0	0	5/2.5	0.20
	9. Arhar (ICM)	No. of farmers /Area			2/1	0.08	2/1	0.08
	10. Wheat	**No. of farmers /Area**			5/2.5	0.145	10/5	0.29
	B- Production of seeds							
	1. Lentil	No. of farmers /Area			-	-	10/5	0.30
	2. Chickpea	No. of farmers /Area			0	0	15/7.5	0.15
	3. Field Pea	No. of farmers /Area			-	-	2/1	0.08
	4. Linseed	No. of farmers /Area			0	0		
	5. Mustard	No. of farmers /Area			0	0.000	5/2.5	0.075
	6. Wheat	No. of farmers /Area			2/1	0.08	3/3	0.21
	7. Til	No. of farmers /Area			2/1	0.006	4/2	0.012
	8. Urd	No. of farmers /Area			0	0.000	2/1	0.062
	Agro forestry:-							
	A. Scattered Plantation							

	Species…..							
	1- Aonla	No. of Plants			-	-	100	0.06
	2- Ber	No. of Plants			0	0	100	0.05
	3- Bael	No. of Plants					100	0.06
	4 - Citrus spp..	No. of Plants					100	0.05
	5. Guava	No. of Plants					100	0.06
	B. Agri-Horticultural System							
	Species							
	1- Aonla	Area in ha			-	-	3.00	0.338
	2- Ber	Area in ha			0	0	3.00	0.315
	5. Guava	Area in ha			-	-	1.00	0.212
	C Block Plantation/ Orchard							
	Species…..							
	1- Guava (Spacing 8 X 6 M)	Area in ha			2.50	0.312	1.25	0.152
	2- Ber (Sapcing 8 X 5 M)	Area in ha			3.50	0.438	3.50	0.438
	3- Aonla (Spacing 8 X 8 M)	Area in ha			2.50	0.234	2.50	0.234
	D. Afforestation on Private Land							
	Species							
	1- Teak (Sapcing 4 X 2.5 M)	ha.			1.50	0.37	1.50	0.37
	2- Shisham (Sapcing 8 X 6 M)	ha.			1.20	0.121	1.20	0.121
	3. Bael (8 X 8 M)	ha			1.00	0.095	1.00	0.095
	4. Jamun (Scattered plantation)	No					250	0.15
	5. Phalsa (On Bund)	Running Meter			500	0.20	500	0.20
	Live Stock Management							
	A. Rearing of Milch cattle-							
	1- Cow-	No. of Units / Farmers			30/44	0.06	30/44	0.06
	2- Buffalloes-	No. of Units / Farmers			1/1	0.12	1/1	0.12

	3- Goatry-	No. of Units / Farmers			371/30	0.014	384/35	0.02
	4- Poultry-	No. of Units / Farmers	10/10	-	10/10	-	10/10	-
	5- Broiler-	No. of Units / Farmers					1/1	0.06
	6- Layers-	No. of Units / Farmers					1/1	0.06
	7- Piggeries-	No. of Units / Farmers			-	-	-	-
	8- Fisheries -	No. of Units / Farmers			-	-	1/2	0.09
	9- Dairy -	No. of Units / Farmers			5/1	0.10	5/1	0.10
	10- Green Fodder	ha/farmer			3/1.5	0.20	3/1.5	0.20
	B. Veterinary Services/							
	1- Vaccination/Medication	No. of Animals			876	0.04	876	0.04
	2- Infertility Management	No. of Animals			876	0.03	876	0.04
	3- Others	No. of Animals						
	C. Live stock Improvement Measures							
	1- Artificial Insemination	No. of Animals	316	0.17	356	0.18	640	0.21
	2- Natural Service.	He Buffalo	1	0.24	1	0.24	1	0.24
	Total for Ag. Production System			**0.41**		**3.18**		**6.29**

DESIGN AND ESTIMATES OF CHECKDAM

Design of Drop Structure/Drop Spillway of 3 m crest

HYDROLOGIC DESIGN

Area				
(ha)	25			
slope	0.015			
K	7.47			
a	0.17			
b	0.75			
n	0.96			

Time of Concentration

		Le.77	Se-0.385	
L (m)	200	**59.12799**		
S	0.015		**5.0373818**	
		hour	Tc + b	(tc+b) power n
Tc	**5.7991**	0.096652	0.8466524	0.852308737

Intensity

		Tr power a
Tr	15	1.584658
I		13.88862

Discharge

			Taken
	c	0.5	Coeff
	I	138.8862	mm/hr
	A	25	ha
	Q	4.822438	Cumec

HYDRAULIC DESIGN

	Length of crest weir (m)		**3**
	Weir height (m)	h	

	Q = 1.71*L*h power (3/2)						
	h power 3/2	0.940046					
	h	0.95966	**0.95**	h1			
	h + free board	1.055626	**1**				
Depth of gulley		2					
Height of water drop (H)		1		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 downword force (kg)				Wn	W-U	**1210**	Wn Square	**1464100**
Resultant (kg)				R				**1309.23642**
				H	1			
				Xbar		**0.41875**		
				Z		**0.1614153**		
Point of Resultant (xbar+Z)						**0.5801653**		
				EA		0.68125		
				P*H/3		166.66667		
				W*EA		1199		
				b/6		0.1833333		
				b/2		0.55		
	e = xbar+Z-b/2			e (OF)		0.0301653		
	fmax = Wn/b(1+6*e/b)			fmax		1280.9917		
A Safety against sliding								
		(mu*W)/P				1.21		
B Safety against overturning		(W*EA)/(P*H/3)				2.1049983		
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				8719.0083	
Depth of Foundation						
Normal scour depth, dn			0.473[Q/f]power1/3			
	Q (cumec)	4.822438388				
	Q (Cusec)	170.1720454				
	f is silt factor, take=		2			
	[q/f]		85.0860227			
	[q/f] power1/3		4.398312416			
	dn (ft)		2.080401773			
	dn (m)		0.634268833			
Maximum scour depth, dm			1.5*dn	**0.95140325**		
Technical Specification						
Foundation depth, D			1.33 dm	**1.265366322**		**1.25**
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				0.3333333	**0.30**
	F (m)	0.7				
	E (m)	3.6	or	1.05	say	**3.50**
Length of Basin Lb						
Lb (m)= F(2.28*h/F+0.52)			2.644		say	**2.60**
Height of the sidewall at end sill is taken to be minimum 1.5h1,but more than H/2						
				more than		
	J (m)	1.5h1	1.425	H/2	0.5	**1.40**
Height of the sidewall at the weir end						
Equal to gully depth		2				**2.00**
	M (m)	2(F+1.33h-J)			1.26	**1.70**
	K (m)	Lb+.1-M			1.44	**1.50**
Length of Wing wall (WL)						
	WL = 2.25h				2.25	**2.25**
Depth of Toe Wall						
	h1+0.1				1.05	**1.10**

WORK ABSTRACT								
Sl. No.	**Item**	**Specification (m)**			**Quantity (cum)**			
		Length	**Breadth**	**Depth**				
1	**Clearing of site (Removal of trees, shrubs and bushes)**	10.00	10.00					
2	**Earth work**							
	a) in hard soil Headwall Foundation	3.00	1.90	1.00	5.70	Effective depth will be 0.75 m		
	b) in hard soil RHS of Headwall extension	3.50	1.90	2.00	13.30	Effective depth will be 0.75 m		
	c) in hard soil LHS of Headwall extension	3.50	1.90	2.00	13.30	Effective depth will be 0.75 m		
	d) in hard soil cutoff wall	10.00	1.20	0.50	6.00			
	e)in hard soil side wall on both side	6.40	1.60	3.00	30.72	Effective depth will be 0.8 m		
	f) in hard soil Toe wall	3.00	1.40	1.20	5.04	Effective depth will be 1.10 m		
	g) in hard soil Wing wall on both side	4.50	1.40	3.00	18.90	Effective depth will be 0.8 m		
	h) Apron	2.60	3.00	0.40	3.12			
				Total	**96.08**			
3	**Cement concrete**							
	Cement Concrete (1:2:4)							
	a) cutoff wall	10.00	0.50	0.50	2.50			
	b) Head wall coping	3.00	0.50	0.05	0.08			
	c) Apron	2.60	3.00	0.05	0.39			
	d) Transverse sill coping	3.00	0.50	0.05	0.08			
				Total	**3.04**			
	Cement Concrete (1:4:8)							
	e) Cutoff wall	10.00	0.80	0.15	1.20			
	f) Toe wall	3.00	0.90	0.15	0.41			
	g) Apron	2.60	3.00	0.15	1.17			

	h) Side wall on both side	6.40	1.20	0.15	1.15			
	i) Wing wall on both side	4.50	1.00	0.15	0.68			
	j)Headwall and Headwall Extension	10.00	1.30	0.15	1.95			
				Total	**6.55**			
4	**Requirement of sand to nullify the impact of cracks**							
	a) Below cutoff wall	10.00	0.70	0.10	0.70			
	b)Below Headwall and headwall extension	10.00	0.70	0.10	0.70			
	c) Below side wall on both sides	6.40	1.20	0.10	0.77			
	d) Below wing wall on both side	4.50	1.00	0.10	0.45			
	e) Below apron	2.60	3.00	0.10	0.78			
	f) Below Toe wall	3.00	0.90	0.10	0.27			
				Total	**3.67**			
5	**Stone Masonary in CM 1:4**							
	a) Headwall and Headwall Extension on both side-Foundation	10.00	1.10	0.75	8.25			
	b) Headwall+ Headwall Extension on both side above gully bed-super structure	10.00	0.80	1.00	8.00	Width=(0.5+1.1)/2= 0.8 m		
	c) Headwall Extension on both the side above crest	7.00	0.50	1.00	3.50			
	d) Foundation for side wall on both side	6.40	1.00	0.80	5.12			
	e) Side wall on both side -super structure (K Part)-I	3.00	0.80	1.40	3.36			
	f) Side wall on both side-above part-I mentioned in (e): (K Part)-II	3.00	0.60	0.60	1.08			
	g) Side wall on both side-Super structure (M Part)-I	3.40	0.80	1.40	3.81			
	h) Side wall on both side above Part-I mentioned in (i): (M Part)-II	3.40	0.60	0.30	0.61	Avg. ht. of triangle portion=		0.30
	i) Foundation for wing wall on both side	4.50	0.80	0.80	2.88			

	j) Wing wall on both side-Super structure- Part- I	4.50	0.70	0.60	1.89			
	k) Wing wall on both side-Above Part-I mentioned in (l): Part -II	4.50	0.60	0.40	1.08	Avg. ht. of triangle portion=		0.40
	l) Toe wall: Part I	3.00	0.70	0.70	1.47			
	m) Toe wall: Part II	3.00	0.60	0.40	0.72			
	n) Transverse Sill	3.00	0.60	0.30	0.54			
	o) Apron	2.60	3.00	0.40	3.12			
				Total	**45.43**			
6	**M S Bar (10 mm, q)**				**2.00**			
7	**Providing rough stone pitching in u/s (both side)**	34.00	2.00	0.25	**17.00**			
8	**Cement pointing to stone masonary in CM 1:3 (sqm)**							
	a) Headwall both side	6.00		1.00	6.00			
	b) Side wall both side (RHS and LHS)-Part I	6.40		1.40	8.96			
	c) Side wall both side (RHS and LHS)-Part II	3.00		0.60	1.80			
	d) Side wall both side (RHS and LHS)-Part-III	3.40		0.30	1.02	Avg. ht. of triangle portion=		0.30
	e) Wing wall both side-Part I	4.50		0.60	2.70			
	f) Wing wall both side-Part I	6.00		0.40	2.40	Avg. ht. of triangle portion=		0.40
				Total	**22.88**			
9	**Filling of black clay soil in the up stream (free from any kind of gravel)**				**3.00**	trolly		

MATERIAL ABSTRACT								
		Required Quantiy						
		Quantiy, cum	Cement, bags	Sand, cum	Conc ,cum	Khanda (cum)	Boulder (cum)	MS Bar (q)
1	Cement Concrete mix for cut-	3.04	19.46	1.37	2.74			

	off wall (1:2:4): 12 mm conc.							
2	Cement Concrete mix for cut-off wall (1:4:8); 20 mm conc.	6.55	22.28	3.08	6.16			
3	Stone Maspnary in CM 1:4	45.43	113.58	15.45		45.43		
4	MS Bar for reinforcing							1.50
5	Boulder for pitching	17.00					17.00	
6	Cement pointing to stone masonary in CM 1:3 (sqm)	22.88	1.42	0.14				
7	Black clay soil (gravel free)	3.00						
8	Requirement of sand to nullify the impact of cracks in black soil			3.67				
	Total		**156.73**	**23.71**	**8.89**	**45.43**	**17.00**	**1.50**

COST ABSTRACT						
	Sl. No.	**Item**	**Quantity**	**Unit**	**Rate (Rs./Unit)**	**Amount (Rs.)**
A	1	Cement	157	Bag	250.00	39181.59
	2	Sand	23.71	m^3	950.00	22520.49
	3	Concrete-12 mm	2.74	m^3	1500.00	4104.00
	4	Concrete-20 mm	6.16	m^3	1250.00	7698.60
	5	Khanda	45	m^3	1350.00	61330.50
	6	M S Bar (10 mm Saria)	2.00	q	4800.00	9600.00
	7	Boulder	17.00	m^3	900.00	15300.00
	8	Filling of black clay soil in the up stream (free from any kind of gravel)	3.00		1800.00	5400.00
					Total	**165135.18**
B	9	Water supply through tanker @ 3 % of material cost				4954.06

C	9	Labour Charges @ 25%						41283.80
							Total (A+B+C)	**211373.04**
	10	Misc. @ 3%						6341.19
							G. Total	**217714.23**
		Say Rs. 218000/- (Rs. Two lakh eighteen thousand only)						

Note: The cost of materials is inclusive of all taxes and transportation to site. It may vary with respect to place and time

4 m. Crest

HYDROLOGIC DESIGN

Area				
(ha)	40			
slope	0.008			
K	7.47			
a	0.17			
b	0.75			
n	0.96			
Time of Concentration				
		Le.77	Se-0.385	
L (m)	500	**119.7311**		
S	0.008		**6.4166796**	
		hour	Tc + b	(tc+b) power n
Tc	**14.958**	0.249306	0.9993056	0.999333
Intensity				
		Tr power a		
Tr	15	1.584658		
I		11.84529		
Discharge				

		Taken							
c	0.5	Coeff							
I	118.4529	mm/hr							
A	40	ha							
Q	6.580717		Cumec						

HYDRAULIC DESIGN

Length of crest weir (m)		**4**						
Weir height (m)	h							
Q = 1.71*L*h power (3/2)								
h power 3/2	0.962093							
h	0.974591	**0.95**	h1					
h + free board	1.072051	**1**						
Depth of gulley	2							
Height of water drop (H)	1		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 downword force (kg)		Wn	W-U	**1210**	Wn Square	**1464100**	
Resultant (kg)		R				**1309.236419**	
		H	1				
		Xbar		**0.41875**			
		Z		**0.16141529**			

Point of Resultant (xbar+Z)			**0.58016529**
	EA		0.68125
	P*H/3		166.666667
	W*EA		1199
	b/6		0.18333333
	b/2		0.55
e = xbar+Z-b/2	e (OF)		0.03016529
fmax = Wn/b(1+6*e/b)	fmax		1280.99174
A Safety against sliding			
	(mu*W)/P		1.21
B Safety against overturning	(W*EA)/(P*H/3)		2.10499827
C Safety against Tension	e<b/6 or b/6-e should be +ive		0.15316804
D Safety against Crushing	Permiss comp Stress kg/sqm	say	10000
	PCS-fmax should be +ive		8719.00826

Depth of Foundation

Normal scour depth, dn	0.473[Q/f]power1/3		
Q (cumec)	6.580717		
Q (Cusec)	232.2174		
f is silt factor, take=	2		
[q/f]	116.1087035		
[q/f] power1/3	4.878521896		
dn (ft)	2.307540857		
dn (m)	0.703518554		
Maximum scour depth, dm	1.5*dn	**1.055277831**	

Technical Specification

Foundation depth, D			1.33 dm	**1.403519515**		**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				0.33333333	**0.30**
	F (m)	0.7				
	E (m)	3.6	or	1.05	say	**3.50**
Length of Basin Lb						
Lb (m)= F(2.28*h/F+0.52)			2.644		say	**2.60**
Height of the sidewall at end sill is taken to be minimum 1.5h1,but more than H/2						
				more than		
	J (m)	1.5h1	1.425	H/2	0.5	**1.40**
Height of the sidewall at the weir end						
Equal to gully depth		2				**2.00**
	M (m)	2(F+1.33h-J)			1.26	**1.70**
	K (m)	Lb+.1-M			1.44	**1.50**
Length of Wing wall (WL)						
	WL = 2.25h				2.25	**2.25**
Depth of Toe Wall						
	h1+0.1				1.05	**1.10**

WORK ABSTRACT								
Sl. No.	**Item**	**Specification (m)**			**Quantity (cum)**			
		Length	**Breadth**	**Depth**				
1	**Clearing of site (Removal of trees, shrubs and bushes)**	10.00	10.00					
2	**Earth work**							
	a) in hard soil Headwall Foundation	4.00	1.90	1.00	7.60	Effective depth will be 0.70 m		
	b) in hard soil RHS of Headwall extension	3.50	1.90	2.00	13.30	Effective depth will be 0.75 m		
	c) in hard soil LHS of Headwall extension	3.50	1.90	2.00	13.30	Effective depth will be 0.75 m		
	d) in hard soil cutoff wall	11.00	1.20	0.75	9.90			
	e)in hard soil side wall on both side	6.40	1.60	3.00	30.72	Effective depth will be 1 m		
	f) in hard soil Toe wall	4.00	1.40	1.20	6.72	Effective depth will be 1.10 m		
	g) in hard soil Wing wall on both side	4.50	1.40	3.00	18.90	Effective depth will be 1 m		
	h) Apron	2.60	4.00	0.40	4.16			
				Total	**104.60**			
3	**Cement concrete**							
	Cement Concrete (1:2:4)							
	a) cutoff wall	11.00	0.50	0.70	3.85			
	b) Head wall coping	4.00	0.50	0.05	0.10			
	c) Apron	2.60	4.00	0.05	0.52			
	d) Transverse sill coping	4.00	0.50	0.05	0.10			
				Total	**4.57**			
	Cement Concrete (1:4:8)							
	e) Cutoff wall	11.00	0.70	0.15	1.16			
	f) Toe wall	4.00	0.90	0.15	0.54			
	g) Apron	2.60	4.00	0.15	1.56			
	h) Side wall on both side	6.40	1.20	0.15	1.15			
	i) Wing wall on both side	4.50	1.00	0.15	0.68			
	j)Headwall and Headwall Extension	10.00	1.30	0.15	1.95			

				Total	**7.03**			
4	**Requirement of sand to nullify the impact of cracks**							
	a) Below cutoff wall	11.00	0.70	0.10	0.77			
	b)Below Headwall and headwall extension	11.00	0.70	0.10	0.77			
	c) Below side wall on both sides	6.40	1.20	0.10	0.77			
	d) Below wing wall on both side	4.50	1.00	0.10	0.45			
	e) Below apron	2.60	4.00	0.10	1.04			
	f) Below Toe wall	4.00	0.90	0.10	0.36			
				Total	**4.16**			
5	**Stone Masonary in CM 1:4**							
	a) Headwall and Headwall Extension on both side-Foundation	11.00	1.10	0.70	8.47			
	b) Headwall+ Headwall Extension on both side above gully bed-super structure	11.00	0.80	1.00	8.80	Width=(0.5+1.1)/2= 0.8 m		
	c) Headwall Extension on both the side above crest	7.00	0.50	1.00	3.50			
	d) Foundation for side wall on both side	6.40	1.00	1.00	6.40			
	e) Side wall on both side -super structure (K Part)-I	3.00	0.80	1.40	3.36			
	f) Side wall on both side-above part-I mentioned in (e): (K Part)-II	3.00	0.60	0.60	1.08			
	g) Side wall on both side-Super structure (M Part)-I	3.40	0.80	1.40	3.81			
	h) Side wall on both side above Part-I mentioned in (i): (M Part)-II	3.40	0.60	0.30	0.61	Avg. ht. of triangle portion=		0.30
	i) Foundation for wing wall on both side	4.50	0.80	1.00	3.60			
	j) Wing wall on both side-Super structure-Part- I	4.50	0.70	0.60	1.89			

	k) Wing wall on both side-Above Part-I mentioned in (l): Part -II	4.50	0.60	0.40	1.08	Avg. ht. of triangle portion=	0.40
	l) Toe wall: Part I	4.00	0.70	0.70	1.96		
	m) Toe wall: Part II	4.00	0.60	0.40	0.96		
	n) Transverse Sill	4.00	0.60	0.30	0.72		
	o) Apron	2.60	4.00	0.40	4.16		
				Total	**50.40**		
6	**M S Bar (10 mm, q)**				**2.00**		
7	**Providing rough stone pitching in u/s (both side)**	34.00	2.00	0.25	**17.00**		
8	**Cement pointing to stone masonary in CM 1:3 (sqm)**						
	a) Headwall both side	8.00		1.00	8.00		
	b) Side wall both side (RHS and LHS)-Part I	6.40		1.40	8.96		
	c) Side wall both side (RHS and LHS)-Part II	3.00		0.60	1.80		
	d) Side wall both side (RHS and LHS)-Part-III	3.40		0.30	1.02	Avg. ht. of triangle portion=	0.30
	e) Wing wall both side-Part I	4.50		0.60	2.70		
	f) Wing wall both side-Part I	6.00		0.40	2.40	Avg. ht. of triangle portion=	0.40
				Total	**24.88**		
9	**Filling of black clay soil in the up stream (free from any kind of gravel)**				**3.00**	trolly	

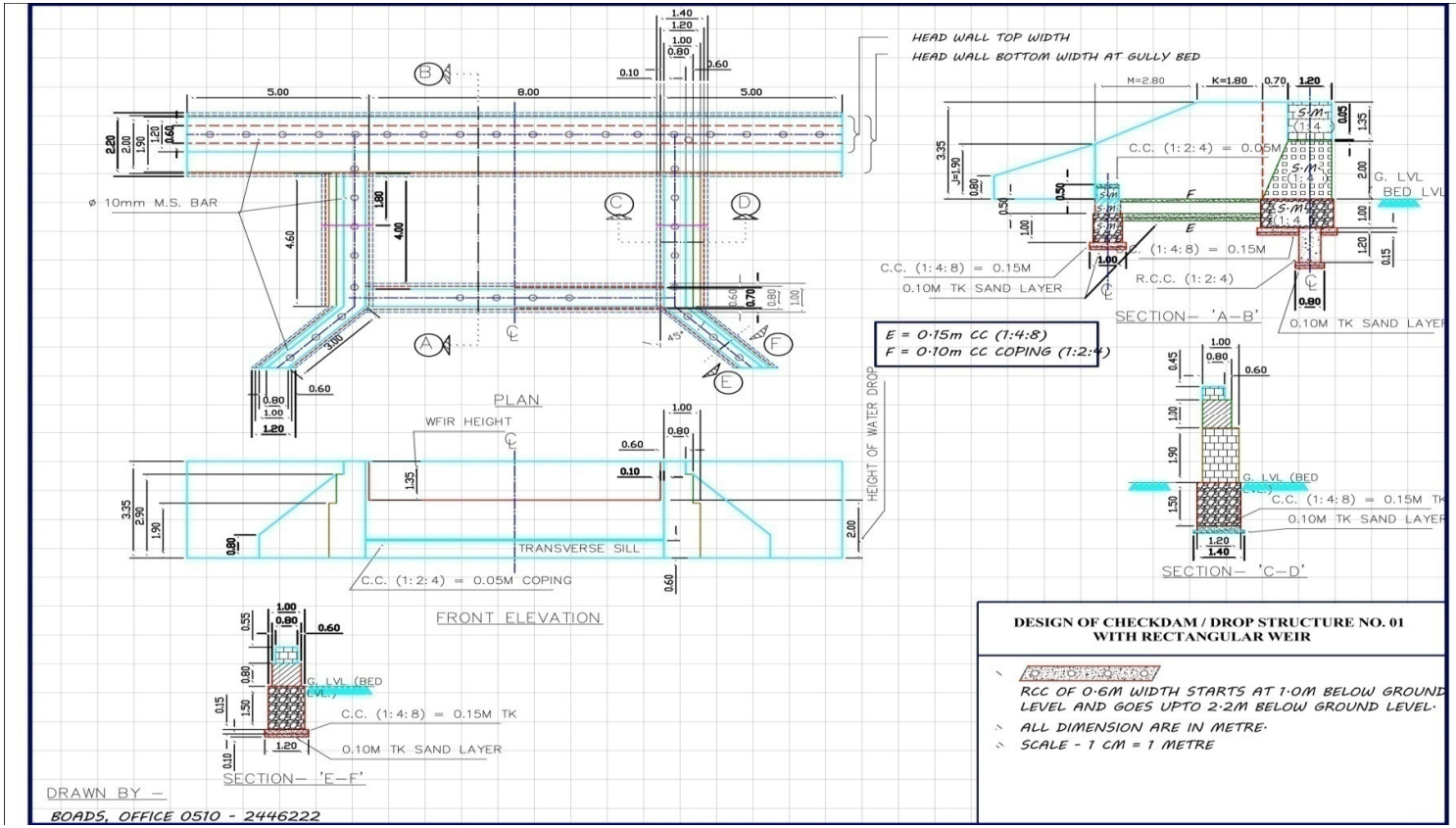
MATERIAL ABSTRACT							
		Required Quantiy					
		Quantiy, cum	Cement, bags	Sand, cum	Conc ,cum	Khanda (cum)	Boulder(cum)	MS Bar (q)
1	Cement Concrete mix for cut-off wall	4.57	29.25	2.06	4.11			

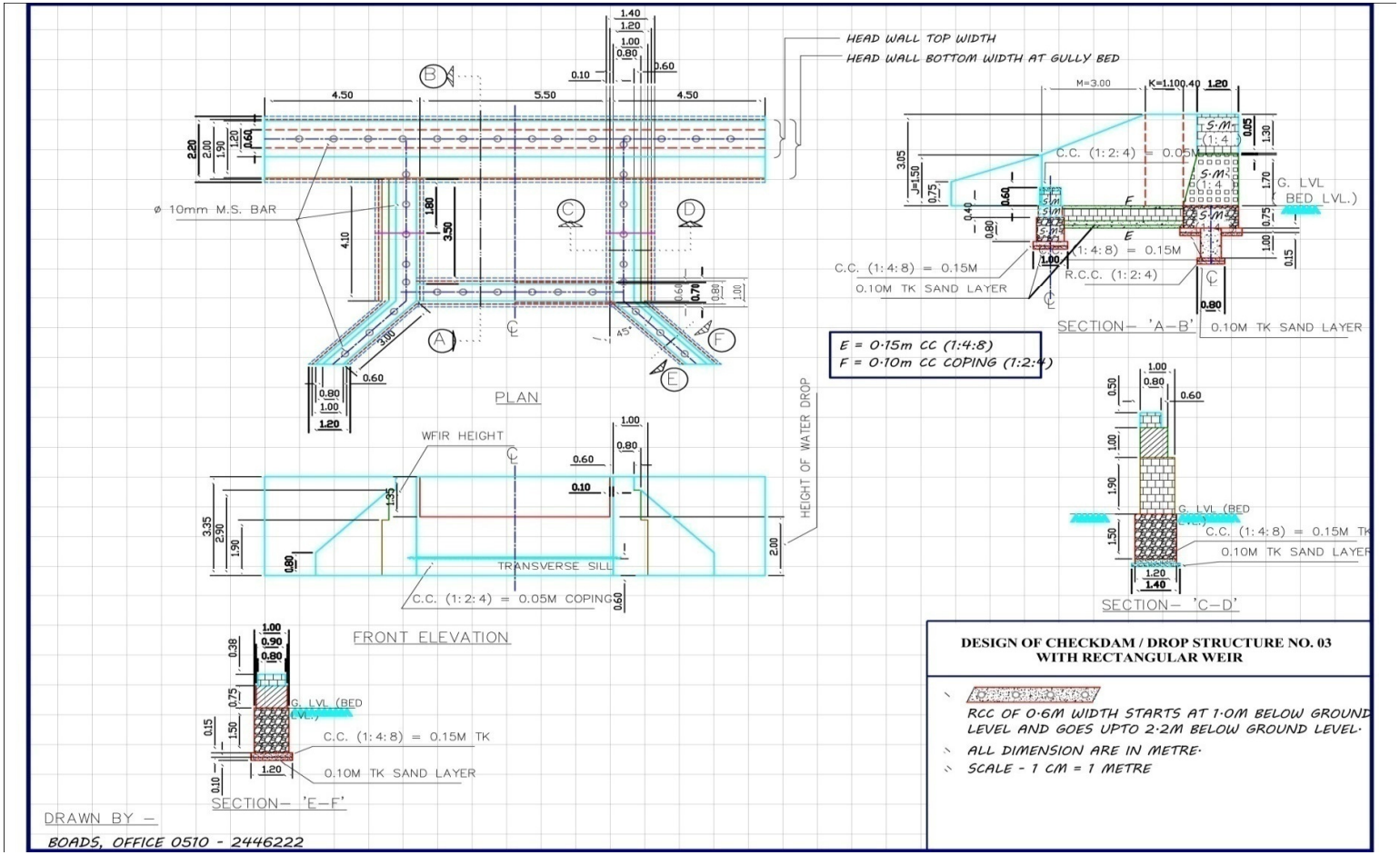
	(1:2:4): 12 mm conc.							
2	Cement Concrete mix for cut-off wall (1:4:8); 20 mm conc.	7.03	23.91	3.31	6.61			
3	Stone Maspnary in CM 1:4	50.40	126.00	17.14		50.40		
4	MS Bar for reinforcing							1.50
5	Boulder for pitching	17.00					17.00	
6	Cement pointing to stone masonary in CM 1:3 (sqm)	24.88	1.54	0.16				
7	Black clay soil (gravel free)	3.00						
8	Requirement of sand to nullify the impact of cracks in black soil			4.16				
	Total		**180.70**	**26.81**	**10.72**	**50.40**	**17.00**	**1.50**

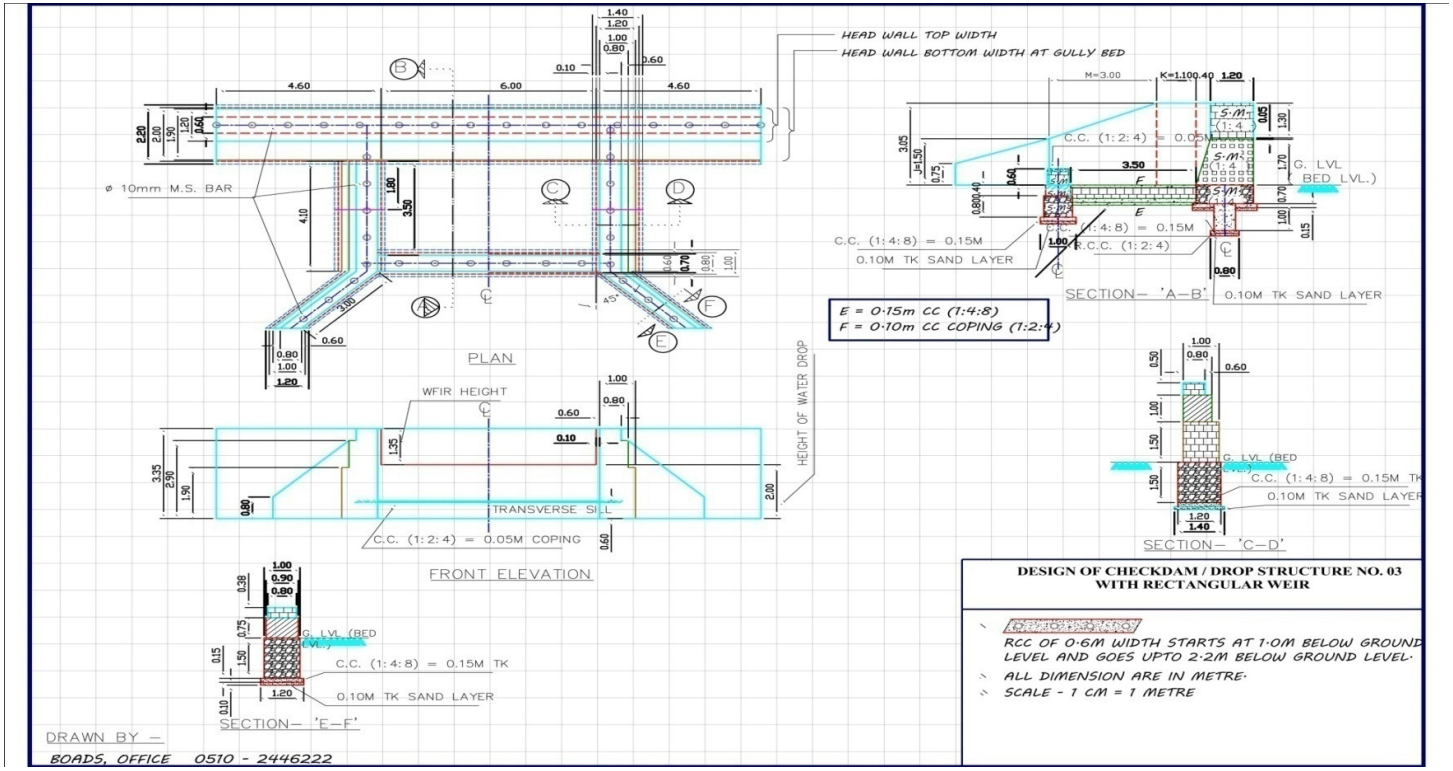
COST ABSTRACT						
	Sl. No.	**Item**	**Quantity**	**Unit**	**Rate (Rs./Unit)**	**Amount (Rs.)**
A	1	Cement	181	Bag	250.00	45174.84
	2	Sand	26.81	m^3	950.00	25471.67
	3	Concrete-12 mm	4.11	m^3	1500.00	6169.50
	4	Concrete-20 mm	6.61	m^3	1250.00	8262.60
	5	Khanda	50	m^3	1350.00	68040.00

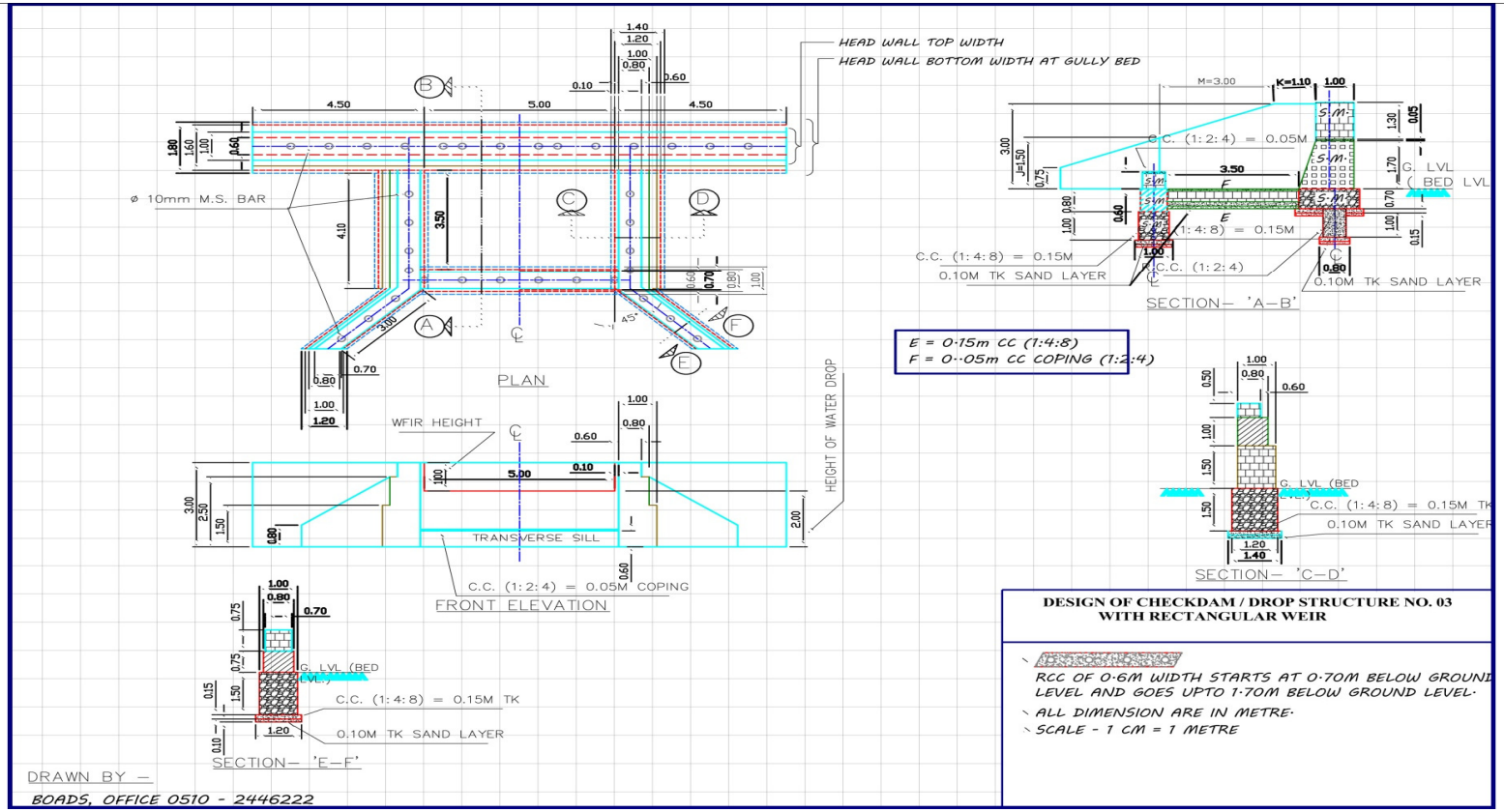
	6	M S Bar (10 mm Saria)	2.00	q	4800.00	9600.00
	7	Boulder	17.00	m^3	900.00	15300.00
	8	Filling of black clay soil in the up stream (free from any kind of gravel)	3.00		1800.00	5400.00
					Total	**183418.61**
B	9	Water supply through tanker @ 3 % of material cost				5502.56
C	9	Labour Charges @ 25%				45854.65
					Total (A+B+C)	**234775.82**
	10	Misc. @ 3%				7043.27
					G. Total	**241819.10**
		Say Rs. 242000/- (Rs. Two lakh rorty two thousand only)				

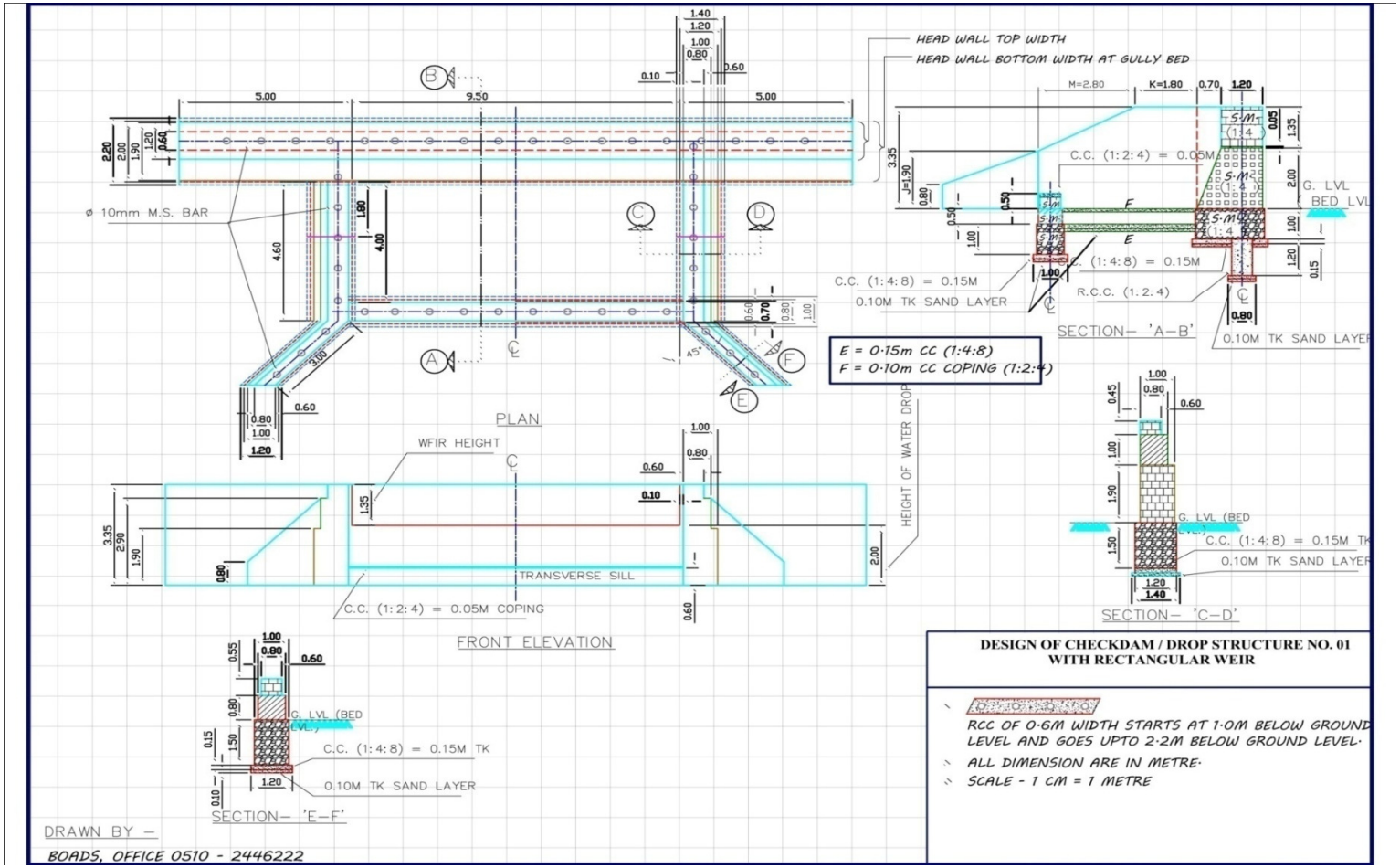
Note: The cost of materials is inclusive of all taxes and transportation to site. It may vary with respect to place and time


HEAD WALL TOP WIDTH
HEAD WALL BOTTOM WIDTH AT GULLY BED
ø 10mm M.S. BAR
PLAN
WFIR HEIGHT
TRANSVERSE SILL
HEIGHT OF WATER DROP
C.C. (1:2:4) = 0.05M COPING
FRONT ELEVATION
C.C. (1:2:4) = 0.05M
C.C. (1:4:8) = 0.15M
0.10M TK SAND LAYER
R.C.C. (1:2:4)
SECTION– 'A–B'
E = 0·15m CC (1:4:8)
F = 0·10m CC COPING (1:2:4)
G. LVL (BED LVL.)
C.C. (1:4:8) = 0.15M TK
SECTION– 'C–D'
SECTION– 'E–F'
DESIGN OF CHECKDAM / DROP STRUCTURE NO. 01
WITH RECTANGULAR WEIR
RCC OF 0·6M WIDTH STARTS AT 1·0M BELOW GROUND LEVEL AND GOES UPTO 2·2M BELOW GROUND LEVEL·
ALL DIMENSION ARE IN METRE·
SCALE - 1 CM = 1 METRE
DRAWN BY –
BOADS, OFFICE 0510 - 2446222


HEAD WALL TOP WIDTH
HEAD WALL BOTTOM WIDTH AT GULLY BED
ϕ 10mm M.S. BAR
PLAN
WFIR HEIGHT
TRANSVERSE SILL
HEIGHT OF WATER DROP
C.C. (1:2:4) = 0.05M COPING
FRONT ELEVATION
G. LVL (BED LVL.)
C.C. (1:4:8) = 0.15M TK
0.10M TK SAND LAYER
SECTION– 'E–F'
C.C. (1:2:4) = 0.05M
C.C. (1:4:8) = 0.15M
R.C.C. (1:2:4)
SECTION– 'A–B'
E = 0·15m CC (1:4:8)
F = 0·10m CC COPING (1:2:4)
SECTION– 'C–D'
DESIGN OF CHECKDAM / DROP STRUCTURE NO. 03
WITH RECTANGULAR WEIR
RCC OF 0·6M WIDTH STARTS AT 1·0M BELOW GROUND LEVEL AND GOES UPTO 2·2M BELOW GROUND LEVEL·
ALL DIMENSION ARE IN METRE·
SCALE - 1 CM = 1 METRE
DRAWN BY –
BOADS, OFFICE 0510 - 2446222


HEAD WALL TOP WIDTH
HEAD WALL BOTTOM WIDTH AT GULLY BED
ø 10mm M.S. BAR
PLAN
WFIR HEIGHT
TRANSVERSE SILL
C.C. (1:2:4) = 0.05M COPING
FRONT ELEVATION
HEIGHT OF WATER DROP
C.C. (1:4:8) = 0.15M
0.10M TK SAND LAYER
R.C.C. (1:2:4)
SECTION– 'A–B'
E = 0·15m CC (1:4:8)
F = 0·10m CC COPING (1:2:4)
SECTION– 'C–D'
SECTION– 'E–F'
DESIGN OF CHECKDAM / DROP STRUCTURE NO. 03
WITH RECTANGULAR WEIR
RCC OF 0·6M WIDTH STARTS AT 1·0M BELOW GROUND LEVEL AND GOES UPTO 2·2M BELOW GROUND LEVEL·
ALL DIMENSION ARE IN METRE·
SCALE - 1 CM = 1 METRE
DRAWN BY –
BOADS, OFFICE 0510 - 2446222


HEAD WALL TOP WIDTH
HEAD WALL BOTTOM WIDTH AT GULLY BED
ø 10mm M.S. BAR
PLAN
WFIR HEIGHT
TRANSVERSE SILL
HEIGHT OF WATER DROP
C.C. (1:2:4) = 0.05M COPING
FRONT ELEVATION
G. LVL (BED LVL)
C.C. (1:4:8) = 0.15M TK
0.10M TK SAND LAYER
SECTION— 'E—F'
C.C. (1:2:4) = 0.05M
C.C. (1:4:8) = 0.15M
SECTION— 'A—B'
E = 0·15m CC (1:4:8)
F = 0··05m CC COPING (1:2:4)
SECTION— 'C—D'
DESIGN OF CHECKDAM / DROP STRUCTURE NO. 03
WITH RECTANGULAR WEIR
RCC OF 0·6M WIDTH STARTS AT 0·70M BELOW GROUND LEVEL AND GOES UPTO 1·70M BELOW GROUND LEVEL·
ALL DIMENSION ARE IN METRE·
SCALE - 1 CM = 1 METRE
DRAWN BY —
BOADS, OFFICE 0510 - 2446222


HEAD WALL TOP WIDTH
HEAD WALL BOTTOM WIDTH AT GULLY BED
ø 10mm M.S. BAR
PLAN
WFIR HEIGHT
TRANSVERSE SILL
C.C. (1:2:4) = 0.05M COPING
FRONT ELEVATION
HEIGHT OF WATER DROP
E = 0·15m CC (1:4:8)
F = 0·10m CC COPING (1:2:4)
C.C. (1:4:8) = 0.15M
0.10M TK SAND LAYER
R.C.C. (1:2:4)
SECTION– 'A–B'
G. LVL
BED LVL
C.C. (1:4:8) = 0.15M TK
SECTION– 'C–D'
G. LVL (BED LVL)
C.C. (1:4:8) = 0.15M TK
0.10M TK SAND LAYER
SECTION– 'E–F'
DESIGN OF CHECKDAM / DROP STRUCTURE NO. 01
WITH RECTANGULAR WEIR
RCC OF 0·6M WIDTH STARTS AT 1·0M BELOW GROUND LEVEL AND GOES UPTO 2·2M BELOW GROUND LEVEL·
ALL DIMENSION ARE IN METRE·
SCALE - 1 CM = 1 METRE
DRAWN BY –
BOADS, OFFICE 0510 - 2446222

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
1.	Krishi Vigyan Kendra	Belatal P.O.- Jaitpur Mahoba	Programme Coordinator	Ag. University	Extension
2.	National research agroforestry (Agriculture Division)	Gwalior Road, Mahoba	HOD	I.C.A.R.	Teaching & Training
3.	Govt. Agriculture School	Chirgaon, Mahoba	DD (Ag.)	State Govt.	Training to Farmers
4.	Govt. Poly-technique	Mahoba	Principal	State Govt.	Draft man training
5.	ITI	Mahoba	Principal	State Govt.	Draft man training
6.	District Udhyod Kendra	Mahoba	Director	State Govt.	Livelihood trainings
7.	C. S. A. University of Ag. & Tech.,	Nawabganj, Kanpur	VC	Ag. University	Research & Extension

8.	Distt. Rural development Institute	Mahoba	Central Incharge	State Govt.	Water Conservation

		1st year		2nd year		3rd year		4th year		**Total**	
	MD	Physical	Financial	Physical	Financial	Physical	Financial	Physical	Financial	Physical	Financial
Capacity Building	2915	583	6.59	1758	13.183	1758	13.1832			4394	32.96
(a) SLNA level	583	117	1.32	233	2.637	233	2.63664			583	6.59
(b) District level	875	175	1.32	350	2.637	350	2.63664			875	6.59
(c) WDT level	292	58	1.32	117	2.637	117	2.63664			292	6.59
(d) WC level	1166	233	2.64	466	0.659	466	0.65916			1166	13.18
(2) No. of total persons trained	8240	1648		3296		3296					
(a) SLNA level	206	41	0.82	41	1.112	41	1.112	-	-	124	3.05
(b) District level	824	16	0.082	247	11.618	247	11.618	-	-	511	23.32
(c) WDT level	206	4	0.029	82	0.297	82	0.297	-	-	169	0.62
(d) WC level	6592	132	0.712	2637	2.637	2637	2.637	-	-	5405	5.98
Total											**32.96**

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, Mahoba
2.	User Group, SHGs members	Agriculture Production system and specialized training for SHGs (3 day)	To increase the Agriculture productivity and	Integrated crop management in pulses, cereals, oilseeds,	Lectures, videos and visits	Krishi Vigyan Kendra, Bharari, Mahoba

			livelihood improvement	vegetables, orchards and small scale projects related to Agriculture.		
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, Mahoba
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, Mahoba
5	PIA/WDT members	Cultivation of fodder in watershed	Awareness and knowledge enhancement	Package of practices of fodder cultivation	Lectures, videos and visits to successful watershed	Indian Grassland and Fodder Research Institute, Mahoba
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, Mahoba / CSWCRTI&RS, Datia, MP

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/DWDU 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/DWDU for monitoring and evaluation. The PIA shall submit quarterly progress reports (countersigned by the Watershed Committee (WC) President) to the DWDU for further submission to the SLNA. Sustainable and unbiased monitoring will be ensured by involving an independent agency. 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

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

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
- 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.

Table 7.2: Year wise financial phasing (Rs in Lakh) Project IWMP-VII, LDWR- Panwari, Mahoba

Sr. No.	Particulars	1st Year	2nd Year	3rd Year	4th Year	Total
1	Administrative Cost-10%	16.48	16.48	16.48	16.48	65.92
2	Monitering-1%	1.65	1.65	1.65	1.65	6.59
3	Evalution-1%	1.65	1.65	1.65	1.65	6.59
4	Entry Point Activity-4%	26.37	-	-	-	26.366
5	Institution & Capacity Building-5%	13.18	13.18	6.59	-	32.96
6	DPR-1%	6.59	-	-	-	6.59
7	Watershed Dev. Work-56%	73.83	110.74	110.74	73.83	369.13
8	Livelihood Activity-9%	47.46	5.93	5.93	-	59.32
9	Production System & Micro enterprises-10%	13.18	39.55	13.18		65.92
10	Consolidation-3%	-	1.98	1.98	15.82	19.77
	Total	**200.38**	**191.16**	**158.20**	**109.42**	**659.16**

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 replecment, 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 markenting)
- State of environment (Improvement in vegetative comver, hydrology and adoption of IPNM)
- Profitability (Loss preventing and cost reducing measures, valu 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 21 per cent, in turn acreage in agricultural activities will be increased by about 1152 ha. Therefore, an additional employment of about 115200 man 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 32 per cent, however soil and nutrient loss may be reduced up to 40 per cent from the watershed.
- Irrigation intensity may be increased to 30 per cent from present 4 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 3 m may be easily obtained after implementation of the programme
- Productivity of crops may be increased by about 25 per cent
- Significant saving of seeds may be obtained through crop demonstration with improved package of practices
- During implementation phase about 1,50,000 mandays will be created through the soil and water conservation measures and crop/agroforestry interventions.

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 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

Beneficiary wise details of Proposed / Planned W/S Development Activities (Individual)

Simariya														
Name of the beneficiary	Caste SC-ST/Others	Khasara No.	Area (ha)	Activity (Proposed)	Length (M)	Breadth (Cm)	Top width (Cm)	Height (Cm)	Cross Section (m2)	E.W. (Cum)	Rate per (Cum)	Safe structure No. & cost	Total Cost (Rs.)	Contribution in shape of Lab/cash
	Vill-Jakha	78		WHB-2	280	200	800	125	6.25	1750.00	57.54		1.007	0.076
		375		CD-5	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		18		CD-9	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		44		CB-8	200	425	60	70	1.70	339.50	47.00		0.160	0.012
		51,54		SB-10	225	450	60	130	3.32	745.88	49.46		0.369	0.028
		24		SB-11	300	450	60	130	3.32	994.50	49.46		0.492	0.037
		369		WHB-9	220	200	800	125	6.25	1375.00	57.54		0.791	0.059
		30		WHB-10	240	200	800	125	6.25	1500.00	57.54		0.863	0.065
		26		MB-7	240	490	70	140	3.92	940.80	49.46		0.465	0.035
	Vill-Panwari													
		56		MB-3	250	490	70	140	3.92	980.00	49.46		0.485	0.036
		56		SB-9	250	450	60	130	3.32	828.75	49.46		0.410	0.031
		83		CD-4	220	800	130	200	9.30	2046.00	51.83		1.060	0.080
		86		CB-7	200	360	60	100	2.10	420.00	47		0.197	0.015

	Vill-Budherau													
		322		WHB-3	325	200	800	125	6.25	2031.25	57.54		1.169	0.088
		235		WHB-4	280	200	800	125	6.25	1750.00	57.54		1.007	0.076
		190,193		WHB-7	380	200	800	125	6.25	2375.00	57.54		1.367	0.102
		97		WHB-8	300	200	800	125	6.25	1875.00	57.54		1.079	0.081
		13		MB-1	250	490	70	140	3.92	980.00	49.46		0.485	0.036
		29		MB-2	250	490	70	140	3.92	980.00	49.46		0.485	0.036
		223		PB-9	250	490	70	140	3.92	980.00	49.46		0.485	0.036
		5,6		PB-10	250	490	70	140	3.92	980.00	49.46		0.485	0.036
		3		PB-11	250	490	70	140	3.92	980.00	49.46		0.485	0.036
		246, 248		PB-12	500	490	70	140	3.92	1960.00	49.46		0.969	0.073
		31		SB-25	175	450	60	130	3.32	580.13	49.46		0.287	0.022
		535		CB-10	200	360	60	100	2.10	420.00	47.00		0.197	0.015
		39		CB-11	170	360	60	100	2.10	357.00	47.00		0.168	0.013
		536		CB-12	170	360	60	100	2.10	357.00	48.00		0.171	0.013
		544		CB-15	170	360	60	100	2.10	357.00	49.00		0.175	0.013
		548		CB-16	170	360	60	100	2.10	357.00	50.00		0.179	0.013
		59		CD-6	220	800	130	200	9.30	2046.00	51.83		1.060	0.080
	Vill-Lodhipura													
		123,130,131		SB-1	500	450	60	130	3.32	1657.50	49.47		0.820	0.061
		379,380		SB-5	375	450	60	130	3.32	1243.13	49.47		0.615	0.046

		12		SB-6	150	450	60	130	3.32	497.25	49.47		0.246	0.018
		413		SB-7	150	450	60	130	3.32	497.25	49.47		0.246	0.018
		129		SB-8	175	450	60	130	3.32	580.13	49.47		0.287	0.022
		36		SB-13	150	450	60	130	3.32	497.25	49.47		0.246	0.018
		29,30		SB-14	175	450	60	130	3.32	580.13	49.47		0.287	0.022
		36		SB-15	200	450	60	130	3.32	663.00	49.47		0.328	0.025
		268,269		SB-20	400	450	60	130	3.32	1326.00	49.47		0.656	0.049
		255		CB-1	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		77		CB-2	200	360	60	100	2.10	420.00	47.00		0.197	0.015
		112		CB-3	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		366		CB-4	200	360	60	100	2.10	420.00	47.00		0.197	0.015
		384		CB-5	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		156,157		CB-6	400	360	60	100	2.10	840.00	47.00		0.395	0.030
		341		CB-9	175	360	60	100	2.10	367.50	47.00		0.173	0.013
		56		CD-2	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		46		CD-10	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		302		SB-12	250	450	60	130	3.32	828.75	49.47		0.410	0.031
		335		SB-17	300	450	60	130	3.32	994.50	49.47		0.492	0.037
		271		SB-18	175	450	60	130	3.32	580.13	49.47		0.287	0.022
		143		SB-19	225	450	60	130	3.32	745.88	49.47		0.369	0.028
		123		SB-26	250	450	60	130	3.32	828.75	49.47		0.410	0.031
		39		SB-27	275	450	60	130	3.32	911.63	49.47		0.451	0.034
		256		SB-30	250	450	60	130	3.32	828.75	49.47		0.410	0.031
	Vill-Simariya													
		293/251,		WHB-1	220								2.250	

		350												
		147		WHB-5	200	200	800	125	6.25	1250.00	57.54		0.719	0.054
		580		WHB-6	200	200	800	125	6.25	1250.00	57.54		0.719	0.054
		242		SB-16	250	450	60	130	3.32	828.75	49.47		0.410	0.031
		44		SB-21	250	450	60	130	3.32	828.75	49.47		0.410	0.031
		27,28		SB-22	150	450	60	130	3.32	497.25	49.47		0.246	0.018
		31		SB-23	200	450	60	130	3.32	663.00	49.47		0.328	0.025
		41		SB-24	150	450	60	130	3.32	497.25	49.47		0.246	0.018
		560		SB-28	300	450	60	130	3.32	994.50	49.47		0.492	0.037
		592		SB-29	250	450	60	130	3.32	828.75	49.47		0.410	0.031
		269		SB-31	250	450	60	130	3.32	828.75	49.47		0.410	0.031
		266		SB-32	250	450	60	130	3.32	828.75	49.47		0.410	0.031
		581		PB-1	170	490	70	140	3.92	666.40	49.47		0.330	0.025
		573		PB-2	170	490	70	140	3.92	666.40	49.47		0.330	0.025
		65		PB-3	150	490	70	140	3.92	588.00	49.47		0.291	0.022
		555		PB-4	200	490	70	140	3.92	784.00	49.47		0.388	0.029
		578,607,608		PB-5	500	490	70	140	3.92	1960.00	49.47		0.970	0.073
		44		PB-6	100	490	70	140	3.92	392.00	49.47		0.194	0.015
		269,270,272		PB-14	400	490	70	140	3.92	1568.00	49.47		0.776	0.058
		553		PB-15	175	490	70	140	3.92	686.00	49.47		0.339	0.025
		23		MB-4	150	490	70	140	3.92	588.00	49.47		0.291	0.022
		58		MB-5	150	490	70	140	3.92	588.00	49.47		0.291	0.022
		565		MB-6	175	490	70	140	3.92	686.00	49.47		0.339	0.025
		616		CB-13	170	360	60	100	2.10	357.00	47.00		0.168	0.013

		1269		CB-14	170	360	60	100	2.10	357.00	47.00		0.168	0.013
		566		CB-17	175	360	60	100	2.10	367.50	47.00		0.173	0.013
		32		CD-7	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
Malua, Kesri, Nandram etc		431,4564 /1,454/2		SB-2	560	450	60	130	3.32	1856.40	49.46		0.918	0.069
Ram Swaroop, Jagat Ram etc		426, 425,424/ 1, 424/2		SB-3	350	450	60	130	3.32	1160.25	49.46		0.574	0.043
Sushila, Mikkhu, Manipal etc		352/1,35 2/2		SB-4	360	450	60	130	3.32	1193.40	49.46		0.590	0.044
Subodh, Vinay Singh		293/251		CD-1	1 m. Crest								2.5	
		12		CD-3	275	800	130	200	9.30	2557.50	51.83		1.326	0.099
		32		CD-8	375	800	130	200	9.30	3487.50	51.83		1.808	0.136
		15		PB-7	425	490	70	140	3.92	1666.00	49.47		0.824	0.062
		21		PB-8	275	490	70	140	3.92	1078.00	49.47		0.533	0.040
		1265		PB-13	325	490	70	140	3.92	1274.00	49.47		0.630	0.047

Nakra														
Name of the beneficiary	Caste SC-ST/Others	Khasara No.	Area (ha)	Activity (Proposed)	Length (M)	Breadth (Cm)	Top width (Cm)	Height (Cm)	Cross Section (m2)	E.W. (Cum)	Rate per (Cum)	Safe structure No. & cost	Total Cost (Rs.)	Contribution in shape of Lab/cash
	Vill-Jakha	400		SB-35	300	450	60	130	3.32	994.50	49.46		0.492	0.037

		654		SB-36	375	450	60	130	3.32	1243.13	49.46		0.615	0.046
		268		SB-37	375	450	60	130	3.32	1243.13	49.46		0.615	0.046
		306		SB-38	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		538		SB-39	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		324		SB-40	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		768		SB-41	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		769		SB-42	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		770		SB-43	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		762		SB-44	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		687		SB-45	125	450	60	130	3.32	414.38	49.46		0.205	0.015
		63		SB-46	125	450	60	130	3.32	414.38	49.46		0.205	0.015
		678		SB-47	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		737		SB-48	325	450	60	130	3.32	1077.38	49.46		0.533	0.040
		749		SB-49	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		284		SB-50	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		300		SB-51	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		301		SB-52	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		302		SB-53	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		303		SB-54	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		157		SB-55	225	450	60	130	3.32	745.88	49.46		0.369	0.028
		732		CB-8	250	360	60	100	2.10	525.00	47.00		0.247	0.019
		297		CB-9	270	360	60	100	2.10	567.00	47.00		0.266	0.020
		726		CB-15	200	360	60	100	2.10	420.00	47.00		0.197	0.015
		280/1		CB-16	325	360	60	100	2.10	682.50	47.00		0.321	0.024
		608		MB-2	275	490	70	140	3.92	1078.00	49.46		0.533	0.040

		623		MB-3	300	490	70	140	3.92	1176.00	49.46		0.582	0.044
		440,444, 445		MB-6	500	490	70	140	3.92	1960.00	49.46		0.969	0.073
		777		PB-15	250	490	70	140	3.92	980.00	49.46		0.485	0.036
		567		PB-17	225	490	70	140	3.92	882.00	49.46		0.436	0.033
		480		PB-18	275	490	70	140	3.92	1078.00	49.46		0.533	0.040
		433		PB-19	250	490	70	140	3.92	980.00	49.46		0.485	0.036
		715		WHB-4	280	200	800	125	6.25	1750.00	57.54		1.007	0.076
		212		CD-7	200	800	130	200	9.30	1860.00	51.83		0.964	0.072
		29		CD-5	250	800	130	200	9.30	2325.00	52.83		1.228	0.092
		484		CD-6	350	800	130	200	9.30	3255.00	53.83		1.752	0.131
		607		WHB-2	300	200	800	125	6.25	1875.00	57.54		1.079	0.081
		28		WHB-3	350	200	800	125	6.25	2187.50	57.54		1.259	0.094
	Vill- Kasari													
		504		CB-17	350	360	60	100	2.10	735.00	47.00		0.345	0.026
		484		CD-4	200	800	130	200	9.30	1860.00	51.83		0.964	0.072
		87		SB-11	300	450	60	130	3.32	994.50	49.46		0.492	0.037
		121,128, 129		SB-26	550	450	60	130	3.32	1823.25	49.46		0.902	0.068
		59		SB-27	325	450	60	130	3.32	1077.38	49.46		0.533	0.040
		91		SB-29	225	450	60	130	3.32	745.88	49.46		0.369	0.028
		83		SB-31	250	450	60	130	3.32	828.75	49.46		0.410	0.031
		143		SB-32	325	450	60	130	3.32	1077.38	49.46		0.533	0.040
		114		CD-10	300	800	130	200	9.30	2790.00	51.83		1.446	0.108
		118		CD-11	350	800	130	200	9.30	3255.00	51.83		1.687	0.127

		144		CD-12	400	800	130	200	9.30	3720.00	51.83		1.928	0.145
		102		CD-13	250	800	130	200	9.30	2325.00	51.83		1.205	0.090
		104		CD-14	300	800	130	200	9.30	2790.00	51.83		1.446	0.108
	Vill-Panwari													
		12		SB-33	300	450	60	130	3.32	994.50	49.46		0.492	0.037
		547		SB-34	350	450	60	130	3.32	1160.25	49.46		0.574	0.043
		516		MB-7	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		134		MB-8	200	490	70	140	3.92	784.00	49.46		0.388	0.029
		10		MB-9	225	490	70	140	3.92	882.00	49.46		0.436	0.033
		329		MB-10	100	490	70	140	3.92	392.00	49.46		0.194	0.015
		332		MB-11	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		539		MB-12	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		534		MB-13	200	490	70	140	3.92	784.00	49.46		0.388	0.029
		320		MB-14	225	490	70	140	3.92	882.00	49.46		0.436	0.033
	Vill-Paharpura													
		164		CB-10	250	360	60	100	2.10	525.00	47.00		0.247	0.019
		38		CB-14	250	360	60	100	2.10	525.00	47.00		0.247	0.019
		76		PB-13	250	490	70	140	3.92	980.00	49.46		0.485	0.036
		66		PB-16	425	490	70	140	3.92	1666.00	50.46		0.841	0.063
		63		MB-5	325	490	70	140	3.92	1274.00	51.46		0.656	0.049
	Vill-													

	Saigarpura												
				CB-11	350	360	60	100	2.10	735.00	47.00	0.345	0.026
		161		CB-12	350	360	60	100	2.10	735.00	47.00	0.345	0.026
		157		CB-13	350	360	60	100	2.10	735.00	47.00	0.345	0.026
		162		PB-12	350	490	70	140	3.92	1372.00	55.58	0.763	0.057
		90		SB-28	325	450	60	130	3.32	1077.38	49.46	0.533	0.040
		91		SB-30	350	450	60	130	3.32	1160.25	49.46	0.574	0.043
	Vill-Nakra												
		86		SB-11	350	450	60	130	3.32	1160.25	49.46	0.574	0.043
		1219		SB-12	350	450	60	130	3.32	1160.25	49.46	0.574	0.043
		178,163		SB-13	350	450	60	130	3.32	1160.25	49.46	0.574	0.043
		10,361,225		SB-14	350	450	60	130	3.32	1160.25	49.46	0.574	0.043
		1135,26		SB-15	350	450	60	130	3.32	1160.25	49.46	0.574	0.043
		1085		SB-16	350	450	60	130	3.32	1160.25	49.46	0.574	0.043
		1143		SB-17	350	450	60	130	3.32	1160.25	49.46	0.574	0.043
		1031		SB-18	350	450	60	130	3.32	1160.25	49.46	0.574	0.043
		443		SB-19	350	450	60	130	3.32	1160.25	49.46	0.574	0.043
		518		SB-20	350	450	60	130	3.32	1160.25	49.46	0.574	0.043
		1039		SB-21	350	450	60	130	3.32	1160.25	49.46	0.574	0.043
		10,461,048		SB-22	500	450	60	130	3.32	1657.50	49.46	0.820	0.061
		542		SB-23	250	450	60	130	3.32	828.75	49.46	0.410	0.031
		1213		SB-24	250	450	60	130	3.32	828.75	49.46	0.410	0.031

		1275		SB-25	250	450	60	130	3.32	828.75	49.46		0.410	0.031
		557,558		CB-1	250	360	60	100	2.10	525.00	47.00		0.247	0.019
		11,691,180		CB-2	250	360	60	100	2.10	525.00	47.00		0.247	0.019
		1705		CB-3	250	360	60	100	2.10	525.00	47.00		0.247	0.019
		1041		CB-4	250	360	60	100	2.10	525.00	47.00		0.247	0.019
		1159		CB-5	225	360	60	100	2.10	472.50	47.00		0.222	0.017
		1191		CB-6	300	360	60	100	2.10	630.00	47.00		0.296	0.022
		1212		CB-7	300	360	60	100	2.10	630.00	47.00		0.296	0.022
		588/2		MB-1	284	900	100	250	12.50	3550.00	47.95		1.702	0.128
		517		MB-4	250	490	70	140	3.92	980.00	49.46		0.485	0.036
		740		PB-1	54	490	70	140	3.92	211.68	49.46		0.105	0.008
		742		PB-2	54	490	70	140	3.92	211.68	49.46		0.105	0.008
		721/1		PB-3	70	490	70	140	3.92	274.40	49.46		0.136	0.010
		702		PB-4	38	490	70	140	3.92	148.96	49.46		0.074	0.006
		696		PB-5	35	490	70	140	3.92	137.20	49.46		0.068	0.005
		615		PB-6	234	490	70	140	3.92	917.28	49.46		0.454	0.034
		688		PB-7	202	490	70	140	3.92	791.84	49.46		0.392	0.029
		496		PB-14	250	490	70	140	3.92	980.00	49.46		0.485	0.036
		309		WHB-1	250	200	800	125	6.25	1562.50	57.54		0.899	0.067
		726		SB-1	101	450	60	130	3.32	334.82	49.46		0.166	0.012
		724		SB-2	33	450	60	130	3.32	109.40	49.46		0.054	0.004
		725		SB-3	28	450	60	130	3.32	92.82	49.46		0.046	0.003
		721/2		SB-4	47	450	60	130	3.32	155.81	49.46		0.077	0.006
		699		SB-5	125	450	60	130	3.32	414.38	49.46		0.205	0.015
		705/3		SB-6	24	450	60	130	3.32	79.56	49.46		0.039	0.003

		597		SB-8	80	700	100	200	8.00	640.00	44.33		0.284	0.021
		705		SB-9	50	450	60	130	3.32	165.75	49.46		0.082	0.006
		689		SB-10	70	450	60	130	3.32	232.05	49.46		0.115	0.009
		585		ECD-1	60	1200	100	300	19.50	1170.00	51.07		0.598	0.045
		574		ECD-2	58	1100	100	300	18.00	1044.00	51.07		0.533	0.040
		597		ECD-3	42	1100	100	300	18.00	756.00	51.07		0.386	0.029
		309		CD-9	250	1100	100	300	18.00	4500.00	51.07		2.298	0.172
Pucca Work		721		CD-1									0.800	
		705		CD-2									0.750	
		689		CD-3									0.600	
		721		DSW-1	721								2.35	
		705		DSW-2	705									
Khagarra		61		PB-8	52	490	70	140	3.92	203.84	49.46		0.101	0.008
		61		PB-9	55	490	70	140	3.92	215.60	49.46		0.107	0.008
		61		PB-10	26	490	70	140	3.92	101.92	49.46		0.050	0.004
		64		PB-11	79	490	70	140	3.92	309.68	49.46		0.153	0.011
		366,367, 368,385, 382		SB-7	564	450	60	130	3.32	1869.66	49.46		0.925	0.069
Kharari		570		CD-8	300	1100	100	300	18.00	5400.00	51.07		2.758	0.207

Naugaon														
Name of the beneficiary	Caste SC-ST/Others	Khasara No.	Area (ha)	Activity (Proposed)	Length (M)	Breadth (Cm)	Top width (Cm)	Height (Cm)	Cross Section (m2)	E.W. (Cum)	Rate per (Cum)	Safe structure No. & cost	Total Cost (Rs.)	Contribution in shape of Lab/cash
Vill-Nakra		1622		SB-4	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		1638		SB-5	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		1583		SB-6	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		1567		SB-7	125	450	60	130	3.32	414.38	49.46		0.205	0.015
		1578		SB-9	125	450	60	130	3.32	414.38	49.46		0.205	0.015
		1657		SB-10	125	450	60	130	3.32	414.38	49.46		0.205	0.015
		1665		SB-11	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		133		SB-12	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		134		SB-13	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		135		SB-14	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		80-84		SB-15	200	450	60	130	3.32	663.00	49.46		0.328	0.025
		1600		CB-1	120	360	60	100	2.10	252.00	47.00		0.118	0.009
		1605		CB-2	120	360	60	100	2.10	252.00	47.00		0.118	0.009
		1580		CB-3	125	360	60	100	2.10	262.50	47.00		0.123	0.009
		1596		CB-4	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		1613		CB-5	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		79		CB-6	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		78		CB-7	150	360	60	100	2.10	315.00	47.00		0.148	0.011

		119		CD-1	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		593,594		CD-2	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		3		CD-3	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		1566		CD-4	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		1,630,144		WHB-1	220	200	800	125	6.25	1375.00	57.54		0.791	0.059
		1571		WHB-2	220	200	800	125	6.25	1375.00	57.54		0.791	0.059
		218		PB-1	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		16,611,664		PB-2	250	490	70	140	3.92	980.00	49.46		0.485	0.036
		148		PB-3	250	490	70	140	3.92	980.00	49.46		0.485	0.036
		13,371,594		PB-4	400	490	70	140	3.92	1568.00	49.46		0.776	0.058
		1571		PB-5	200	490	70	140	3.92	784.00	49.46		0.388	0.029
		411		PB-6	225	490	70	140	3.92	882.00	49.46		0.436	0.033
		1,602		MB-1	190	490	70	140	3.92	744.80	49.46		0.368	0.028
		1,624		MB-2	220	490	70	140	3.92	862.40	49.46		0.427	0.032
		1,650		MB-3	200	490	70	140	3.92	784.00	49.46		0.388	0.029
		1,660		MB-4	210	490	70	140	3.92	823.20	49.46		0.407	0.031
		1,543		SB-8	180	450	60	130	3.32	596.70	49.46		0.295	0.022
		1,545		SB-27	200	450	60	130	3.32	663.00	49.46		0.328	0.025
		1,611		WHB-6	200	200	800	125	6.25	1250.00	57.54		0.719	0.054
		1,616		WHB-7	220	200	800	125	6.25	1375.00	57.54		0.791	0.059
		1642		WHB-8	200	200	800	125	6.25	1250.00	57.54		0.719	0.054
Vill-Naugaon		116		MB-4	150	490	70	140	3.92	588.00	49.46		0.291	0.022

		122		MB-5	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		335		MB-6	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		336		MB-7	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		39,40		MB-10	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		87		SB-16	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		67		SB-17	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		50		SB-18	200	450	60	130	3.32	663.00	49.46		0.328	0.025
		260		SB-19	200	450	60	130	3.32	663.00	49.46		0.328	0.025
		261		SB-20	200	450	60	130	3.32	663.00	49.46		0.328	0.025
		13,19 ,20		CB-8	250	360	60	100	2.10	525.00	47.00		0.247	0.019
		18		CB-9	175	360	60	100	2.10	367.50	47.00		0.173	0.013
		60		CB-10	200	360	60	100	2.10	420.00	47.00		0.197	0.015
		37		CB-11	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		265		CB-12	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		279		CB-13	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		277		CB-14	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		69		CB-17	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		25,28		WHB-3	220	200	800	125	6.25	1375.00	57.54		0.791	0.059
		221		WHB-4	220	200	800	125	6.25	1375.00	57.54		0.791	0.059
		18		CD-5	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		38,24 5		CD-6	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		107		CD-7	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		116		CD-8	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		18,19		PB-7	150	490	70	140	3.92	588.00	49.46		0.291	0.022

		,20												
		252,29		PB-8	220	490	70	140	3.92	862.40	49.46		0.427	0.032
		298,299,300		PB-11	225	490	70	140	3.92	882.00	49.46		0.436	0.033
		21		PB-12	200	490	70	140	3.92	784.00	49.46		0.388	0.029
		92		PB-13	250	490	70	140	3.92	980.00	49.46		0.485	0.036
		1761		SB-1	54	450	60	130	3.32	179.01	49.46		0.089	0.007
		1765		SB-2	66	450	60	130	3.32	218.79	49.46		0.108	0.008
		1768		SB-3	80	450	60	130	3.32	265.20	49.46		0.131	0.010
		1765		DSW-1	2 M. Crest									
		1768		DSW-2	2 M. Crest									
		47		WHB-9	210	200	800	125	6.25	1312.50	57.54		0.755	0.057
		110		WHB-10	220	200	800	125	6.25	1375.00	57.54		0.791	0.059
Vill-Fadna		286		PB-9	300	490	70	140	3.92	1176.00	49.46		0.582	0.044
		28,289		PB-10	300	490	70	140	3.92	1176.00	49.46		0.582	0.044
		121,122		PB-14	350	490	70	140	3.92	1372.00	49.46		0.679	0.051
		120,121		PB-15	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		282		CD-9	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		121,362		CD-10	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		125		CD-11	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		104,1		CD-12	180	800	130	200	9.30	1674.00	51.83		0.868	0.065

		45												
		340		MB-8	200	490	70	140	3.92	784.00	49.46		0.388	0.029
		342		MB-9	220	490	70	140	3.92	862.40	49.46		0.427	0.032
		289,338		WHB-5	200	200	800	125	6.25	1250.00	57.54		0.719	0.054
		146		SB-33	200	450	60	130	3.32	663.00	49.46		0.328	0.025
		390		SB-34	200	450	60	130	3.32	663.00	49.46		0.328	0.025
		327		SB-35	225	450	60	130	3.32	745.88	49.46		0.369	0.028
		329,330		CB-15	250	360	60	100	2.10	525.00	47.00		0.247	0.019
Vill-Budhaura		110-116		PB-16	300	490	70	140	3.92	1176.00	49.46		0.582	0.044
Vill-Ghurwas Mau		10		SB-31	400	450	60	130	3.32	1326.00	49.46		0.656	0.049
		31		SB-32	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		2,3		PB-17	225	490	70	140	3.92	882.00	49.46		0.436	0.033
Vill-Sihandarpura		133		SB-21	300	450	60	130	3.32	994.50	49.46		0.492	0.037
		51		SB-22	300	450	60	130	3.32	994.50	49.46		0.492	0.037
		52		SB-23	300	450	60	130	3.32	994.50	49.46		0.492	0.037
		80		SB-24	250	450	60	130	3.32	828.75	49.46		0.410	0.031
		84		SB-25	200	450	60	130	3.32	663.00	49.46		0.328	0.025
		57		SB-26	190	450	60	130	3.32	629.85	49.46		0.312	0.023
		73		SB-29	200	450	60	130	3.32	663.00	49.46		0.328	0.025

Vill-Raimalpura		65		SB-28	200	450	60	130	3.32	663.00	49.46		0.328	0.025
		9		SB-30	220	450	60	130	3.32	729.30	49.46		0.361	0.027

Kilahua-I													
Name of the beneficiary	Caste SC-ST/Others	Khasara No.	Area (ha)	Activity (Proposed)	Length (M)	Breadth (Cm)	Top width (Cm)	Height (Cm)	Cross Section (m2)	E.W. (Cum)	Rate per (Cum)	Safe structure No. & cost	Total Cost (Rs.)
	Vill-Natarra	492		SB-1	365	450	60	130	3.32	1209.98	49.46		0.598
		315		SB-2	250	450	60	130	3.32	828.75	49.46		0.410
		313		SB-3	225	450	60	130	3.32	745.88	49.46		0.369
		553,554		SB-4	200	450	60	130	3.32	663.00	49.46		0.328
		1,2		SB-5	255	450	60	130	3.32	845.33	49.46		0.418
		564		SB-6	250	450	60	130	3.32	828.75	49.46		0.410
		545,546		SB-8	350	450	60	130	3.32	1160.25	49.46		0.574
		540		SB-9	200	450	60	130	3.32	663.00	49.46		0.328
		319		SB-20	175	450	60	130	3.32	580.13	49.46		0.287
		317		SB-36	175	450	60	130	3.32	580.13	49.46		0.287
		310		SB-37	175	450	60	130	3.32	580.13	49.46		0.287
		2		SB-39	175	450	60	130	3.32	580.13	49.46		0.287
		280		SB-40	250	450	60	130	3.32	828.75	49.46		0.410

		567,566		PB-6	300	490	70	140	3.92	1176.00	49.46		0.582
		584		CB-15	200	360	60	100	2.10	420.00	47.00		0.197
		648		CB-16	220	360	60	100	2.10	462.00	47.00		0.217
		636		CD-4	200	800	130	200	9.30	1860.00	51.83		0.964
		491		WHB-1	280	200	800	150	7.50	2100.00	57.54		1.208
		589		WHB-2	310	200	800	150	7.50	2325.00	57.54		1.338
		539		WHB-4	240	200	800	150	7.50	1800.00	57.54		1.036
		247		MB-8	220	490	70	140	3.92	862.40	49.46		0.427
		249		MB-9	210	490	70	140	3.92	823.20	49.46		0.407
		252		MB-10	200	490	70	140	3.92	784.00	49.46		0.388
		639		MB-11	220	490	70	140	3.92	862.40	49.46		0.427
		255		MB-12	200	490	70	140	3.92	784.00	49.46		0.388
		289		MB-13	210	490	70	140	3.92	823.20	49.46		0.407
	Vill-Kamala												
		136		SB-22	250	450	60	130	3.32	828.75	49.46		0.410
		154		SB-23	250	450	60	130	3.32	828.75	49.46		0.410
		142		SB-24	250	450	60	130	3.32	828.75	49.46		0.410
		141		SB-25	250	450	60	130	3.32	828.75	49.46		0.410
		19,57		SB-29	250	450	60	130	3.32	828.75	49.46		0.410
		162		SB-30	250	450	60	130	3.32	828.75	49.46		0.410
		172,173		MB-6	200	490	70	140	3.92	784.00	49.46		0.388
		23		CB-1	175	360	60	100	2.10	367.50	47.00		0.173
		180		CB-2	175	360	60	100	2.10	367.50	47.00		0.173

		130,131		CB-17	175	360	60	100	2.10	367.50	47.00		0.173
		124,125,127		PB-8	350	490	70	140	3.92	1372.00	49.46		0.679
		125		WHB-3	250	200	800	125	6.25	1562.50	57.54		0.899
	Vill-Kilahuwa	69		SB-7	325	450	60	130	3.32	1077.38	49.46		0.533
		61		SB-10	250	450	60	130	3.32	828.75	49.46		0.410
		54		SB-11	225	450	60	130	3.32	745.88	49.46		0.369
		50		SB-12	250	450	60	130	3.32	828.75	49.46		0.410
		108,109		SB-13	325	450	60	130	3.32	1077.38	49.46		0.533
		203		SB-15	220	450	60	130	3.32	729.30	49.46		0.361
		201		SB-16	210	450	60	130	3.32	696.15	49.46		0.344
		196		SB-17	200	450	60	130	3.32	663.00	49.46		0.328
		30		SB-19	225	450	60	130	3.32	745.88	49.46		0.369
		14		SB-28	250	450	60	130	3.32	828.75	49.46		0.410
		150		SB-31	220	450	60	130	3.32	729.30	49.46		0.361
		149,145,142		SB-32	250	450	60	130	3.32	828.75	49.46		0.410
		129,130		SB-33	225	450	60	130	3.32	745.88	49.46		0.369
		77		SB-34	175	450	60	130	3.32	580.13	49.46		0.287
		70		SB-35	175	450	60	130	3.32	580.13	49.46		0.287
		38		SB-38	200	450	60	130	3.32	663.00	49.46		0.328
		95		CB-3	220	360	60	100	2.10	462.00	47.00		0.217

		11,5,12		CB-4	250	360	60	100	2.10	525.00	47.00		0.247
		12		CB-5	220	360	60	100	2.10	462.00	47.00		0.217
		357		CB-6	325	360	60	100	2.10	682.50	47.00		0.321
		358		CB-7	325	360	60	100	2.10	682.50	47.00		0.321
		359		CB-8	325	360	60	100	2.10	682.50	47.00		0.321
		100		CB-10	250	360	60	100	2.10	525.00	47.00		0.247
		143		CB-11	200	360	60	100	2.10	420.00	47.00		0.197
		59		CB-14	250	360	60	100	2.10	525.00	47.00		0.247
		66,67,68		PB-1	325	490	70	140	3.92	1274.00	49.46		0.630
		122,123		PB-2	325	490	70	140	3.92	1274.00	49.46		0.630
		73,79,80,94		PB-3	325	490	70	140	3.92	1274.00	49.46		0.630
		131,133,96		PB-4	250	490	70	140	3.92	980.00	49.46		0.485
		4		PB-5	260	490	70	140	3.92	1019.20	49.46		0.504
		9-107		PB-9	250	490	70	140	3.92	980.00	49.46		0.485
		111,115,116		PB-10	300	490	70	140	3.92	1176.00	49.46		0.582
		14		PB-11	260	490	70	140	3.92	1019.20	49.46		0.504
		59		MB-1	225	490	70	140	3.92	882.00	49.46		0.436
		37		MB-2	250	490	70	140	3.92	980.00	49.46		0.485
		77		MB-3	220	490	70	140	3.92	862.40	49.46		0.427
		85,86		MB-4	250	490	70	140	3.92	980.00	49.46		0.485
		53		MB-5	250	490	70	140	3.92	980.00	49.46		0.485

		109		MB-7	250	490	70	140	3.92	980.00	49.46		0.485
		73		WHB-3	220	200	800	150	7.50	1650.00	57.54		0.949
		140		WHB-5	220	200	800	150	7.50	1650.00	57.54		0.949
		140		CD-9	200	800	130	200	9.30	1860.00	51.83		0.964
		Plateform Formation			1								0.905
		121		CD-1	180	800	130	200	9.30	1674.00	51.83		0.868
		184		CD-2	230	800	130	200	9.30	2139.00	51.83		1.109
		186		CD-3	260	800	130	200	9.30	2418.00	51.83		1.253
		193		CD-5	240	800	130	200	9.30	2232.00	51.83		1.157
		17		CD-6	175	800	130	200	9.30	1627.50	51.83		0.844
		94		CD-7	250	800	130	200	9.30	2325.00	51.83		1.205
		95		CD-8	275	800	130	200	9.30	2557.50	51.83		1.326
	Vill-Jaraula												
		8		SB-14	225	450	60	130	3.32	745.88	49.46		0.369
		9		SB-18	250	450	60	130	3.32	828.75	49.46		0.410
		12		SB-21	300	450	60	130	3.32	994.50	49.46		0.492
		13		SB-26	275	450	60	130	3.32	911.63	49.46		0.451
		14		SB-27	250	450	60	130	3.32	828.75	49.46		0.410
		38		CB-9	300	360	60	100	2.10	630.00	47.00		0.296
		40		CB-12	200	360	60	100	2.10	420.00	48.00		0.202
		42		CB-13	150	360	60	100	2.10	315.00	49.00		0.154
		18		PB-7	260	490	70	140	3.92	1019.20	49.46		0.504
	Vill-	10		WHB-6	220	200	800	150	7.50	1650.00	57.54		0.949

	Singhayan												
		65		WHB-7	180	200	800	150	7.50	1350.00	57.54		0.777
		50		WHB-8	220	200	800	150	7.50	1650.00	57.54		0.949
		71		CD-10	230	800	130	200	9.30	2139.00	51.83		1.109
		65		CD-11	220	800	130	200	9.30	2046.00	52.83		1.081
		55		CD-12	200	800	130	200	9.30	1860.00	53.83		1.001

Kilahuwa-II														
Name of the beneficiary	Caste SC-ST/Others	Khasara No.	Area (ha)	Activity (Proposed)	Length (M)	Breadth (Cm)	Top width (Cm)	Height (Cm)	Cross Section (m2)	E.W. (Cum)	Rate per (Cum)	Safe structure No. & cost	Total Cost (Rs.)	Contribution in shape of Lab/cash
Vill-Sihandarpura														
		116		SB1	200	450	60	130	3.32	663.00	49.46		0.328	0.025
		106		SB2	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		115		SB3	300	450	60	130	3.32	994.50	49.46		0.492	0.037
		117		SB4	175	450	60	130	3.32	580.13	49.46		0.287	0.022
		122		SB5	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		133		SB6	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		817		MB-21	100	490	70	140	3.92	392.00	49.46		0.194	0.015
		816		MB-22	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		809		MB-23	225	490	70	140	3.92	882.00	49.46		0.436	0.033
Vill-		191		SB-7	100	450	60	130	3.32	331.50	49.46		0.164	0.012

Ghurwas Mau														
		191		SB-8	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		190		SB-9	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		141		SB-10	125	450	60	130	3.32	414.38	49.46		0.205	0.015
		189		SB-11	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		136		SB-12	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		143		SB-13	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		120		CB-50	100	360	60	100	2.10	210.00	49.46		0.104	0.008
		189		MB-44	100	490	70	140	3.92	392.00	49.46		0.194	0.015
		122		CB-5	122	360	60	100	2.10	256.20	47.00		0.120	0.009
		136		CB-14	136	360	60	100	2.10	285.60	47.00		0.134	0.010
		811		CB-45	811	360	60	100	2.10	1703.10	47.00		0.800	0.060
		127		CB-46	127	360	60	100	2.10	266.70	47.00		0.125	0.009
Vill-Kilahuwa		981		MB-18	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		925		CB-1	125	360	60	100	2.10	262.50	47.00		0.123	0.009
		926		CB-2	100	360	60	100	2.10	210.00	47.00		0.099	0.007
		922		CB-3	175	360	60	100	2.10	367.50	47.00		0.173	0.013
		996		CB-4	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		1023		CB-6	175	360	60	100	2.10	367.50	47.00		0.173	0.013
		983		CB-7	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		969		CB-8	175	360	60	100	2.10	367.50	47.00		0.173	0.013
		784,7		CB-9	200	360	60	100	2.10	420.00	47.00		0.197	0.015

		78												
		939		CB-41	175	360	60	100	2.10	367.50	47.00		0.173	0.013
		943		CB-42	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		985		CB-44	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		980		CB-47	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		994		CB-43	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		578		CB-30	125	360	60	100	2.10	262.50	47.00		0.123	0.009
		567		CB-29	100	360	60	100	2.10	210.00	47.00		0.099	0.007
		603		SB-20	175	450	60	130	3.32	580.13	49.46		0.287	0.022
		602		SB-21	175	450	60	130	3.32	580.13	49.46		0.287	0.022
		797		SB-24	200	450	60	130	3.32	663.00	49.46		0.328	0.025
		561		SB-25	175	450	60	130	3.32	580.13	49.46		0.287	0.022
		565		SB-26	250	450	60	130	3.32	828.75	49.46		0.410	0.031
		532		SB-27	350	450	60	130	3.32	1160.25	49.46		0.574	0.043
		521		SB-28	250	450	60	130	3.32	828.75	49.46		0.410	0.031
		520		SB-29	250	450	60	130	3.32	828.75	49.46		0.410	0.031
		469		SB-30	225	450	60	130	3.32	745.88	49.46		0.369	0.028
		450		SB-31	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		2		SB-32	125	450	60	130	3.32	414.38	49.46		0.205	0.015
		3		SB-33	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		19		SB-34	225	450	60	130	3.32	745.88	49.46		0.369	0.028
		18		SB-35	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		17		SB-36	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		152		SB-45	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		144		SB-46	150	450	60	130	3.32	497.25	49.46		0.246	0.018

		149		SB-47	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		160		SB-44	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		102		SB-48	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		103		SB-49	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		104		SB-50	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		105		SB-51	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		7		SB-52	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		8		SB-53	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		48		SB-54	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		21		SB-55	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		22		SB-56	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		86		SB-57	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		91		SB-58	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		46		SB-71	200	450	60	130	3.32	663.00	49.46		0.328	0.025
		15		SB-72	225	450	60	130	3.32	745.88	49.46		0.369	0.028
		440		SB-73	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		437		SB-74	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		445		SB-75	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		318		SB-81	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		537		SB-19										
		535		SB-61										
		534		SB-62										
		532		SB-63										
		531		SB-64										0.01844
		530		SB-65	1200	450	60	130	3.32	3978	49.46		1.968	5

		235		SB-66										
		275		SB-67										
		276		SB-68										
		277		SB-69										
		278		SB-70										
		280		SB-80	700	450	60	130	3.32	2321	49.46		1.148	
		561		SB-93										
		630		SB-94	300	450	60	130	3.30	995.00	49.46		0.492	
		289		CD-8	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		202		CD-13	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		195		WHB-5	200	200	800	125	6.25	1250.00	57.54		0.719	0.054
		290		PB-11	100	490	70	140	3.92	392.00	49.46		0.194	0.015
		209		PB-12	225	490	70	140	3.92	882.00	49.46		0.436	0.033
		956		MB-19	175	490	70	140	3.92	686.00	49.46		0.339	0.025
		818		MB-20	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		635		MB-48	175	490	70	140	3.92	686.00	49.46		0.339	0.025
Vill-Khera Nankari		250,252		MB-4	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		250		MB-5	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		221,222		MB-6	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		243		MB-7	100	490	70	140	3.92	392.00	49.46		0.194	0.015
		107		MB-8	100	490	70	140	3.92	392.00	49.46		0.194	0.015
		113		MB-9	100	490	70	140	3.92	392.00	49.46		0.194	0.015

		112		MB-10	100	490	70	140	3.92	392.00	49.46		0.194	0.015
		121		MB-11	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		124		MB-12	200	490	70	140	3.92	784.00	49.46		0.388	0.029
		133		MB-13	200	490	70	140	3.92	784.00	49.46		0.388	0.029
		85		MB-14	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		72		MB-15	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		61		MB-16	200	490	70	140	3.92	784.00	49.46		0.388	0.029
		62		MB-17	100	490	70	140	3.92	392.00	49.46		0.194	0.015
		36		SB-37	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		55		SB-38	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		54		SB-39	125	450	60	130	3.32	414.38	49.46		0.205	0.015
		56		SB-40	300	450	60	130	3.32	994.50	49.46		0.492	0.037
		160		SB-41	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		158		SB-42	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		157		SB-43	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		69		SB-59	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		67		SB-60	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		248,259		SB-89	200	450	60	130	3.32	663.00	49.46		0.328	0.025
		175,176		SB-90	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		106		SB-91	175	450	60	130	3.32	580.13	49.46		0.287	0.022
		114,115		SB-92	250	450	60	130	3.32	828.75	49.46		0.410	0.031
		97,116		WHB-11	220	200	800	125	6.25	1375.00	57.54		0.791	0.059

		178		WHB-12	220	200	800	125	6.25	1375.00	57.54		0.791	0.059
		166		CD-6	200	800	130	200	9.30	1860.00	51.83		0.964	0.072
		162		CD-12	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		104		CD-7	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		162,177		PB-13	350	490	70	140	3.92	1372.00	49.46		0.679	0.051
		103,116		PB-14	250	490	70	140	3.92	980.00	49.46		0.485	0.036
		95		PB-10										
		118		PB-15										
		117		PB-16	200	490	70	140	3.92	784.00	49.46		0.388	
		19		SB-95	250	450	60	130	3.32	828.75	49.46		0.410	0.031
		199		SB-99	550	450	60	130	3.32	1823.25	49.46		0.902	0.068
		211		SB-100	280	450	60	130	3.32	928.20	49.46		0.459	0.034
Vill-Gugaura		421		MB-1	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		160		MB-2	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		271		MB-3	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		462,499		PB-15	400	490	70	140	3.92	1568.00	49.46		0.776	0.058
		266,264		PB-16	300	490	70	140	3.92	1176.00	49.46		0.582	0.044
		306,314		PB-17	400	490	70	140	3.92	1568.00	49.46		0.776	0.058
		306		CD-9	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		311		CD-10	180	800	130	200	9.30	1674.00	51.83		0.868	0.065

		479		CD-11	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		308		WHB-7	200	200	800	125	6.25	1250.00	57.54		0.719	0.054
		314		WHB-8	200	200	800	125	6.25	1250.00	57.54		0.719	0.054
		332		WHB-9	200	200	800	125	6.25	1250.00	57.54		0.719	0.054
		1,135		WHB-10	200	200	800	125	6.25	1250.00	57.54		0.719	0.054
		318		SB-82	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		11,561,160		SB-83	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		318		SB-85	200	450	60	130	3.32	663.00	49.46		0.328	0.025
		316		SB-86	200	450	60	130	3.32	663.00	49.46		0.328	0.025
		328		SB-87	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		1,167		SB-84	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		253		SB-88	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		66		SB-101	300	450	60	130	3.32	994.50	50.46		0.502	0.038
		67		SB-102	200	450	60	130	3.32	663.00	51.46		0.341	0.026
		91		SB-103	400	450	60	130	3.32	1326.00	52.46		0.696	0.052
		107		SB-104	160	450	60	130	3.32	530.40	53.46		0.284	0.021
		113,119		SB-105	450	450	60	130	3.32	1491.75	54.46		0.812	0.061
		159		SB-106	100	450	60	130	3.32	331.50	55.46		0.184	0.014
		191		SB-107	160	450	60	130	3.32	530.40	56.46		0.299	0.022
		203		PB-23										
		208		PB-24										
		209		PB-25	400	490	70	140	3.92	1568.00	49.46		0.776	
Vill-		20		SB-14	200	450	60	130	3.32	663.00	49.46		0.328	0.025

Budhaura														
		184		SB-15	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		219		SB-16	175	450	60	130	3.32	580.13	49.46		0.287	0.022
		210		SB-17	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		214		SB-18	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		588		SB-22	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		587		SB-23	175	450	60	130	3.32	580.13	49.46		0.287	0.022
		614		SB-76	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		615		SB-77	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		617		SB-78	150	450	60	130	3.32	497.25	49.46		0.246	0.018
		618		SB-79	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		90		SB-96	350	450	60	130	3.32	1160.25	49.46		0.574	0.043
		78		SB-97	200	450	60	130	3.32	663.00	49.46		0.328	0.025
		88		SB-98	100	450	60	130	3.32	331.50	49.46		0.164	0.012
		3		PB-1	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		62		PB-2	200	490	70	140	3.92	784.00	49.46		0.388	0.029
		60		PB-3	200	490	70	140	3.92	784.00	49.46		0.388	0.029
		78		PB-4	250	490	70	140	3.92	980.00	49.46		0.485	0.036
		175		PB-5	200	490	70	140	3.92	784.00	49.46		0.388	0.029
		180		PB-6	200	490	70	140	3.92	784.00	49.46		0.388	0.029
		233,237		PB-7	250	490	70	140	3.92	980.00	49.46		0.485	0.036
		211,227		PB-8	300	490	70	140	3.92	1176.00	49.46		0.582	0.044
		248/2,249/		PB-9	300	490	70	140	3.92	1176.00	49.46		0.582	0.044

		2												
		118		PB-18	200	490	70	140	3.92	784.00	49.46		0.388	0.029
		326		PB-19	250	490	70	140	3.92	980.00	49.46		0.485	0.036
		349,353		PB-20	200	490	70	140	3.92	784.00	49.46		0.388	0.029
		25,343		PB-21	200	490	70	140	3.92	784.00	49.46		0.388	0.029
		21		PB-22	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		62		WHB-1	200	200	800	125	6.25	1250.00	57.54		0.719	0.054
		206		WHB-2	200	200	800	125	6.25	1250.00	57.54		0.719	0.054
		222		WHB-3	200	200	800	125	6.25	1250.00	57.54		0.719	0.054
		775		WHB-4	200	200	800	125	6.25	1250.00	57.54		0.719	0.054
		347		WHB-6	220	200	800	125	6.25	1375.00	57.54		0.791	0.059
		343		WHB-13	200	200	800	125	6.25	1250.00	57.54		0.719	0.054
		326		WHB-14	200	200	800	125	6.25	1250.00	57.54		0.719	0.054
		343		WHB-15	200	200	800	125	6.25	1250.00	57.54		0.719	0.054
		83		WHB-16	220	200	800	125	6.25	1375.00	57.54		0.791	0.059
		25		WHB-17	200	200	800	125	6.25	1250.00	57.54		0.719	0.054
		36		WHB-18	200	200	800	125	6.25	1250.00	57.54		0.719	0.054
		702		CD-1	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		702		CD-2	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		233		CD-3	185	800	130	200	9.30	1720.50	51.83		0.892	0.067
		228		CD-4	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		256		CD-5	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		357		CD-14	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		359		CD-15	180	800	130	200	9.30	1674.00	51.83		0.868	0.065

		343		CD-16	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		342		CD-17	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		16,18		CD-18	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		26		CD-19	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		21		CD-20	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		37		CD-21	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		99		CD-22	180	800	130	200	9.30	1674.00	51.83		0.868	0.065
		804		MB-24	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		806		MB-25	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		802		MB-26	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		801		MB-27	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		800		MB-28	100	490	70	140	3.92	392.00	49.46		0.194	0.015
		796		MB-29	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		240		MB-30	175	490	70	140	3.92	686.00	49.46		0.339	0.025
		70,71		MB-31	100	490	70	140	3.92	392.00	49.46		0.194	0.015
		82		MB-32	100	490	70	140	3.92	392.00	49.46		0.194	0.015
		84		MB-33	100	490	70	140	3.92	392.00	49.46		0.194	0.015
		96		MB-34	100	490	70	140	3.92	392.00	49.46		0.194	0.015
		135		MB-35	100	490	70	140	3.92	392.00	49.46		0.194	0.015
		134		MB-36	100	490	70	140	3.92	392.00	49.46		0.194	0.015
		101		MB-37	100	490	70	140	3.92	392.00	49.46		0.194	0.015
		128		MB-38	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		106		MB-39	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		371		MB-40	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		611		MB-41	100	490	70	140	3.92	392.00	49.46		0.194	0.015

		611		MB-42	100	490	70	140	3.92	392.00	49.46		0.194	0.015
		611		MB-43	100	490	70	140	3.92	392.00	49.46		0.194	0.015
		183		MB-45	200	490	70	140	3.92	784.00	49.46		0.388	0.029
		110-115		MB-46	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		251,252		MB-47	150	490	70	140	3.92	588.00	49.46		0.291	0.022
		338		CB-21	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		336		CB-22	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		334		CB-23	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		336		CB-24	100	360	60	100	2.10	210.00	47.00		0.099	0.007
		1,125		CB-16	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		137		CB-17	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		211		CB-10	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		243		CB-11	100	360	60	100	2.10	210.00	47.00		0.099	0.007
		244		CB-12	100	360	60	100	2.10	210.00	47.00		0.099	0.007
		245		CB-13	100	360	60	100	2.10	210.00	47.00		0.099	0.007
		246		CB-15	200	360	60	100	2.10	420.00	47.00		0.197	0.015
		367		CB-18	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		366		CB-19	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		360		CB-20	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		169		CB-31	100	360	60	100	2.10	210.00	47.00		0.099	0.007
		172		CB-32	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		159		CB-33	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		51		CB-34	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		67,68		CB-35	250	360	60	100	2.10	525.00	47.00		0.247	0.019

		,98												
		44		CB-36	100	360	60	100	2.10	210.00	47.00		0.099	0.007
		27		CB-37	100	360	60	100	2.10	210.00	47.00		0.099	0.007
		47		CB-38	100	360	60	100	2.10	210.00	47.00		0.099	0.007
		62		CB-39	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		60		CB-40	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		248/1		CB-48	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		241		CB-49	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		324		CB-25	125	360	60	100	2.10	262.50	47.00		0.123	0.009
		313		CB-26	125	360	60	100	2.10	262.50	47.00		0.123	0.009
		318		CB-27	150	360	60	100	2.10	315.00	47.00		0.148	0.011
		579		CB-28	200	360	60	100	2.10	420.00	47.00		0.197	0.015
		300		SB-108	325	450	60	130	3.32	1077.38	49.46		0.533	0.040
		307,306		SB-109	400	450	60	130	3.32	1326.00	50.46		0.669	0.050
		316		SB-110	200	450	60	130	3.32	663.00	51.46		0.341	0.026
		110		SB-111										
		111		SB-112										
		112		SB-113										
		113		SB-114										
		114		SB-115										
		115		SB-116	350	450	60	130	3.32	1162	49.46		0.575	

Fadna													
Name of the beneficiary	Caste SC-ST/Others	Khasara No.	Area (ha)	Activity (Proposed	Length (M)	Breadth (Cm)	Top width	Height (Cm)	Cross Section	E.W. (Cum)	Rate per (Cum)	Total Cost	Contribution in

				)			(Cm)		(m2)			(Rs.)	shape of Lab/cash
	Vill-Naugaon	211		SB-11	250	450	60	130	3.32	828.75	49.46	0.410	0.031
		146		SB-13	200	450	60	130	3.32	663.00	49.46	0.328	0.025
		204		SB-14	250	450	60	130	3.32	828.75	49.46	0.410	0.031
		102		SB-17	250	450	60	130	3.32	828.75	49.46	0.410	0.031
Kedar Nath, Chhavilal		200		PB-1	200	450	60	130	3.32	663.00	49.46	0.328	0.025
Chandrabhan		200/199		DSW-1	1	1M. Crest							
Shri Rajaram		211/214		DSW-2	1	1.5 M. Crest						4.316	
	Vill-Fadna												
		279		MB-1	125	490	70	140	3.92	490.00	49.46	0.242	0.018
		282		MB-2	100	490	70	140	3.92	392.00	49.46	0.194	0.015
		288		MB-3	175	490	70	140	3.92	686.00	49.46	0.339	0.025
		287		MB-4	150	490	70	140	3.92	588.00	49.46	0.291	0.022
		288		MB-5	100	490	70	140	3.92	392.00	49.46	0.194	0.015
		276		MB-7	250	490	70	140	3.92	980.00	49.46	0.485	0.036
		65		MB-8	200	490	70	140	3.92	784.00	49.46	0.388	0.029
		13		MB-9	200	490	70	140	3.92	784.00	49.46	0.388	0.029
		38		PB-3	275	490	70	140	3.92	1078.00	49.46	0.533	0.040
		50,51,52		PB-4	250	490	70	140	3.92	980.00	49.46	0.485	0.036

		194,196		PB-5	225	490	70	140	3.92	882.00	49.46	0.436	0.033
		57		PB-6	250	490	70	140	3.92	980.00	49.46	0.485	0.036
		130,137		PB-8	200	490	70	140	3.92	784.00	49.46	0.388	0.029
		171,164		PB-9	225	490	70	140	3.92	882.00	49.46	0.436	0.033
		182-187		PB-10	250	490	70	140	3.92	980.00	49.46	0.485	0.036
		21		WHB-1	200	200	800	125	6.25	1250.00	57.54	0.719	0.054
		38		WHB-2	200	200	800	125	6.25	1250.00	57.54	0.719	0.054
		52,54		WHB-3	200	200	800	125	6.25	1250.00	57.54	0.719	0.054
		100		WHB-4	200	200	800	125	6.25	1250.00	57.54	0.719	0.054
		171,176		WHB-5	200	200	800	125	6.25	1250.00	57.54	0.719	0.054
		26		CD-1	180	800	130	200	9.30	1674.00	51.83	0.868	0.065
		50,44		CD-2	180	800	130	200	9.30	1674.00	51.83	0.868	0.065
		56,196		CD-3	180	800	130	200	9.30	1674.00	51.83	0.868	0.065
		57,194		CD-4	180	800	130	200	9.30	1674.00	51.83	0.868	0.065
		127		CD-5	180	800	130	200	9.30	1674.00	51.83	0.868	0.065
		183		CD-6	180	800	130	200	9.30	1674.00	51.83	0.868	0.065
		187		CD-7	180	800	130	200	9.30	1674.00	51.83	0.868	0.065
		222		CB-1	225	360	60	100	2.10	472.50	47.00	0.222	0.017
		200		CB-2	250	360	60	100	2.10	525.00	47.00	0.247	0.019
		208		CB-3	250	360	60	100	2.10	525.00	47.00	0.247	0.019

		235		CB-4	225	360	60	100	2.10	472.50	47.00	0.222	0.017
		237		CB-5	210	360	60	100	2.10	441.00	47.00	0.207	0.016
		238		CB-6	220	360	60	100	2.10	462.00	47.00	0.217	0.016
		239		CB-7	200	360	60	100	2.10	420.00	47.00	0.197	0.015
		233		CB-8	175	360	60	100	2.10	367.50	47.00	0.173	0.013
		269		CB-9	200	360	60	100	2.10	420.00	47.00	0.197	0.015
		281		CB-10	200	360	60	100	2.10	420.00	47.00	0.197	0.015
		291		CB-11	225	360	60	100	2.10	472.50	47.00	0.222	0.017
		226		SB-5	150	450	60	130	3.32	497.25	49.46	0.246	0.018
		361		SB-6	100	450	60	130	3.32	331.50	49.46	0.164	0.012
		299		SB-8	150	450	60	130	3.32	497.25	49.46	0.246	0.018
		309		SB-9	125	450	60	130	3.32	414.38	49.46	0.205	0.015
		299		SB-10	325	450	60	130	3.32	1077.38	49.46	0.533	0.040
		161		SB-12	200	450	60	130	3.32	663.00	49.46	0.328	0.025
		111,112		SB-18	225	450	60	130	3.32	745.88	49.46	0.369	0.028
		176		SB-19	250	450	60	130	3.32	828.75	49.46	0.410	0.031
		193		SB-20	250	450	60	130	3.32	828.75	49.46	0.410	0.031
		225		SB-21	225	450	60	130	3.32	745.88	49.46	0.369	0.028
		227		SB-22	200	450	60	130	3.32	663.00	49.46	0.328	0.025
		228		SB-23	200	450	60	130	3.32	663.00	49.46	0.328	0.025
		229		SB-24	200	450	60	130	3.32	663.00	49.46	0.328	0.025
		230		SB-25	175	450	60	130	3.32	580.13	49.46	0.287	0.022
		43		SB-31	125	450	60	130	3.32	414.38	49.46	0.205	0.015
		230		PB-7	250	490	70	140	3.92	980.00	49.46	0.485	0.036
		34		SB-15	200	450	60	130	3.32	663.00	49.46	0.328	0.025

		58		SB-16	220	450	60	130	3.32	729.30	49.46	0.361	0.027
		215		SB-26	250	450	60	130	3.32	828.75	49.46	0.410	0.031
		180		SB-27	240	450	60	130	3.32	795.60	49.46	0.394	0.030
		190		SB-28	230	450	60	130	3.32	762.45	49.46	0.377	0.028
		219		SB-29	220	450	60	130	3.32	729.30	49.46	0.361	0.027
		221		SB-30	200	450	60	130	3.32	663.00	49.46	0.328	0.025
	Vill-Kilahuwa												
		168,170		SB-1	250	450	60	130	3.32	828.75	49.46	0.410	0.031
		175		SB-2	125	450	60	130	3.32	414.38	49.46	0.205	0.015
		240		SB-3	200	450	60	130	3.32	663.00	49.46	0.328	0.025
		249		SB-4	175	450	60	130	3.32	580.13	49.46	0.287	0.022
		265		SB-7	125	450	60	130	3.32	414.38	49.46	0.205	0.015
	Vill-Budhaura												
		265		MB-6	275	490	70	140	3.92	1078.00	49.46	0.533	0.040
		3		MB-10	250	490	70	140	3.92	980.00	49.46	0.485	0.036
		28		PB-2	225	490	70	140	3.92	882.00	49.46	0.436	0.033

Natarra													
Name of the beneficiary	Caste SC-ST/Others	Khasara No.	Area (ha)	Activity (Proposed)	Length (M)	Breadth (Cm)	Top width (Cm)	Height (Cm)	Cross Section (m2)	E.W. (Cum)	Rate per (Cum)	Total Cost (Rs.)	Contribution in shape of Lab/cash
Vill-Kilahuwa													

		24		SB 16	250	450	60	130	3.32	828.75	49.46	0.41	0.031
		11,12		SB 17	250	450	60	130	3.32	828.75	49.46	0.41	0.031
Sita Ram	Vill-Kamala	107		PB-10	170	490	70	140	3.92	666.40	49.46	0.33	
Prem Narayan		110		DSW 4 M. Crest									
Kishorilal		117		PB-11	250	490	70	140	3.92	980.00	49.46	0.48	
Kishorilal		116		PB-12	200	490	70	140	3.92	784.00	49.46	0.39	
Braj Kishor		108		PB-16	225	490	70	140	3.92	882.00	49.46	0.44	
Village-Naugaon		5		SB 30	250	450	60	130	3.32	828.75	49.46	0.41	0.031
Village - Nakra		14,05 1,407		SB 1	250	450	60	130	3.32	828.75	49.46	0.41	0.031
		1423		SB 2	200	450	60	130	3.32	663.00	49.46	0.33	0.025
		1732		SB 3	200	450	60	130	3.32	663.00	49.46	0.33	0.025
		1721, 1722,		SB 4	250	450	60	130	3.32	828.75	49.46	0.41	0.031
		1706		SB 6	200	450	60	130	3.32	663.00	49.46	0.33	0.025
		1708		SB 7	200	450	60	130	3.32	663.00	49.46	0.33	0.025
		1681		SB 8	150	450	60	130	3.32	497.25	49.46	0.25	0.018
		1754		SB 19	150	450	60	130	3.32	497.25	49.46	0.25	0.018
		1667		SB 36	150	450	60	130	3.32	497.25	49.46	0.25	0.018
		1690		SB 37	200	450	60	130	3.32	663.00	49.46	0.33	0.025
		1691		SB 38	225	450	60	130	3.32	745.88	49.46	0.37	0.028
		1692		SB 39	200	450	60	130	3.32	663.00	49.46	0.33	0.025
		1534		MB 6	200	490	70	140	3.92	784.00	49.46	0.39	0.029

		1709		MB 7	125	490	70	140	3.92	490.00	49.46	0.24	0.018
		1530		MB 8	150	490	70	140	3.92	588.00	49.46	0.29	0.022
		16,961,697		MB 9	150	490	70	140	3.92	588.00	49.46	0.29	0.022
		425		PB 2	175	490	70	140	3.92	686.00	49.46	0.34	0.025
		431		PB 5	150	490	70	140	3.92	588.00	49.46	0.29	0.022
		1688		PB 13	150	490	70	140	3.92	588.00	49.46	0.29	0.022
		1687		PB 14	150	490	70	140	3.92	588.00	49.46	0.29	0.022
		14,141,426		PB 15	175	490	70	140	3.92	686.00	49.46	0.34	0.025
Village - Natarra		434		SB 5	225	450	60	130	3.32	745.88	49.46	0.37	0.028
		448		SB 9	150	450	60	130	3.32	497.25	49.46	0.25	0.018
		447		SB 10	250	450	60	130	3.32	828.75	49.46	0.41	0.031
		1,741,444		SB 11	175	450	60	130	3.32	580.13	49.46	0.29	0.022
		470		SB 12	125	450	60	130	3.32	414.38	49.46	0.20	0.015
		461		SB 13	200	450	60	130	3.32	663.00	49.46	0.33	0.025
		443		SB 14	150	450	60	130	3.32	497.25	49.46	0.25	0.018
		526		SB 15	250	450	60	130	3.32	828.75	49.46	0.41	0.031
		360		SB 18	150	450	60	130	3.32	497.25	49.46	0.25	0.018
		369		SB 20	150	450	60	130	3.32	497.25	49.46	0.25	0.018
		371		SB 22	220	450	60	130	3.32	729.30	49.46	0.36	0.027
		367		SB 23	200	450	60	130	3.32	663.00	49.46	0.33	0.025
		51		SB 24	225	450	60	130	3.32	745.88	49.46	0.37	0.028

		48		SB 25	175	450	60	130	3.32	580.13	49.46	0.29	0.022
		13		SB 26	175	450	60	130	3.32	580.13	49.46	0.29	0.022
		6		SB 27	175	450	60	130	3.32	580.13	49.46	0.29	0.022
		15		SB 28	150	450	60	130	3.32	497.25	49.46	0.25	0.018
		152		SB 29	200	450	60	130	3.32	663.00	49.46	0.33	0.025
		40		SB 41	225	450	60	130	3.32	745.88	49.46	0.37	0.028
		400		SB 42	150	450	60	130	3.32	497.25	49.46	0.25	0.018
		43,46		SB 43	150	450	60	130	3.32	497.25	49.46	0.25	0.018
		42		SB 44	125	450	60	130	3.32	414.38	49.46	0.20	0.015
		404		SB 45	125	450	60	130	3.32	414.38	49.46	0.20	0.015
		395		SB 46	200	450	60	130	3.32	663.00	49.46	0.33	0.025
		35,38		CD 1	180	800	130	200	9.30	1674.00	51.83	0.87	0.065
		32		CD 2	180	800	130	200	9.30	1674.00	51.83	0.87	0.065
		53		CD 3	180	800	130	200	9.30	1674.00	51.83	0.87	0.065
		41		CD 4	180	800	130	200	9.30	1674.00	51.83	0.87	0.065
		408		CD 5	180	800	130	200	9.30	1674.00	51.83	0.87	0.065
		414		CD 6	180	800	130	200	9.30	1674.00	51.83	0.87	0.065
		406		CD 7	180	800	130	200	9.30	1674.00	51.83	0.87	0.065
		392		CD 8	180	800	130	200	9.30	1674.00	51.83	0.87	0.065
		411		CD 9	180	800	130	200	9.30	1674.00	51.83	0.87	0.065
		422		CD 10	180	800	130	200	9.30	1674.00	51.83	0.87	0.065
		36		WHB 1	220	200	800	125	6.25	1375.00	57.54	0.79	0.059
		406		WHB 2	220	200	800	125	6.25	1375.00	57.54	0.79	0.059
		414,392		WHB 3	220	200	800	125	6.25	1375.00	57.54	0.79	0.059
		416,3		WHB 4	220	200	800	125	6.25	1375.00	57.54	0.79	0.059

		92										
		419,385		WHB 5	220	200	800	125	6.25	1375.00	57.54	0.79	0.059
		420		WHB 6	220	200	800	125	6.25	1375.00	57.54	0.79	0.059
		411		WHB 7	220	200	800	125	6.25	1375.00	57.54	0.79	0.059
		83		CB 1	200	360	60	100	2.10	420.00	47.00	0.20	0.015
		87		CB 2	200	360	60	100	2.10	420.00	47.00	0.20	0.015
		78		CB 3	200	360	60	100	2.10	420.00	47.00	0.20	0.015
		59		CB 4	200	360	60	100	2.10	420.00	47.00	0.20	0.015
		48		CB 5	200	360	60	100	2.10	420.00	47.00	0.20	0.015
		151		CB 6	200	360	60	100	2.10	420.00	47.00	0.20	0.015
		71		CB 7	200	360	60	100	2.10	420.00	47.00	0.20	0.015
		10		CB 9	200	360	60	100	2.10	420.00	47.00	0.20	0.015
		23		CB 10	200	360	60	100	2.10	420.00	47.00	0.20	0.015
		60		CB 11	200	360	60	100	2.10	420.00	47.00	0.20	0.015
		381		MB 1	175	490	70	140	3.92	686.00	49.46	0.34	0.025
		346		MB 2	175	490	70	140	3.92	686.00	49.46	0.34	0.025
		383,384		MB 3	175	490	70	140	3.92	686.00	49.46	0.34	0.025
		389,339,333		MB 4	300	490	70	140	3.92	1176.00	49.46	0.58	0.044
		80		MB 5	200	490	70	140	3.92	784.00	49.46	0.39	0.029
		37		MB 10	200	490	70	140	3.92	784.00	49.46	0.39	0.029
		422		PB 1	175	490	70	140	3.92	686.00	49.46	0.34	0.025
		416,417		PB 3	100	490	70	140	3.92	392.00	49.46	0.19	0.015

		390		PB 4	150	490	70	140	3.92	588.00	49.46	0.29	0.022
		411		PB 6	300	490	70	140	3.92	1176.00	49.46	0.58	0.044
		392		PB 7	150	490	70	140	3.92	588.00	49.46	0.29	0.022
		416,417		PB 8	200	490	70	140	3.92	784.00	49.46	0.39	0.029
		419		PB 9	150	490	70	140	3.92	588.00	49.46	0.29	0.022
		400		SB-48	40	450	60	130	3.32	132.60	49.46	0.07	0.005
		397		SB-49	110	450	60	130	3.32	364.65	49.46	0.18	0.014
		1682		SB-50	120	450	60	130	3.32	397.80	49.46	0.20	0.015
		8		SB-51	130	450	60	130	3.32	430.95	49.46	0.21	0.016
		406		CB-8	250	360	60	100	2.10	525.00	47.00	0.25	0.019
		437		PB-17	300	490	70	140	3.92	1176.00	55.58	0.65	0.049
		437		DSW-1	1	2 M. Crest							
		528		DSW-2	1	2 M. Crest						1.05	
		53		SB-21	250	450	60	130	3.32	828.75	49.46	0.41	0.031
		353		SB-31	200	450	60	130	3.32	663.00	49.46	0.33	0.025
		354		SB-32	200	450	60	130	3.32	663.00	49.46	0.33	0.025
		355		SB-33	200	450	60	130	3.32	663.00	49.46	0.33	0.025
		356		SB-34	200	450	60	130	3.32	663.00	49.46	0.33	0.025
		472		SB-35	250	450	60	130	3.32	828.75	49.46	0.41	0.031
		473		SB-40	250	450	60	130	3.32	828.75	49.46	0.41	0.031

ANNEXURE-II
LIVELIHOOD ACTION PLAN

1. Annaual Action Plan for Livelihood (Physical & Financial)

Activities of SHGs		**First Year**		**Second Year**		**Third Year**		**Fourth Year**			
	unit	**2010-11**		**2011-12**		**2012-13**		**2013-14**		**Total Project**	
		Physical	**Financial**	**Physical**	**Financial**	**Physical**	**Financial**	**Physical**	**Financial**	**Physical**	**Financial**
(1) Activity Goatary											
(a) No. of SHG's	No.	8	2.240	17	4.48	17	4.48	0	0	42	11.200
(b) No. of members	No.	180		400		400		0	0	980	
(c) Estimated income per year	Rs.	10.08		20.2		20.2		0	0	50.4	
(2) Activity- Back Yard Poultry								0	0		
(a) No. of SHG's	No.	32	1.624	64	3.25	64	3.25	0	0	160	8.120
(b) No. of members	No.	90		750		750		0	0	1890	
(c) Estimated income per year	Rs.	18.176		36.352		36.352		0	0	90.880	
(3) Activity- Poultry , Broiler								0	0		
(a) No. of SHG's	No.	10	1.750	21	3.50	21	3.50	0	0	52	8.750
(b) No. of members	No.	50		370		370		0	0	790	
(c) Estimated income per year	Rs.	9.776		19.552		19.552		0	0	48.880	
(4) Black Smithy								0	0		
(a) No. of SHG's	No.	2	0.300	5	0.60	5	0.60	0	0	12	1.500
(b) No. of members	No.	10	0	40	0	40	0	0	0	90	
(c) Estimated income per year	Rs.	2.352	0	4.704	0	4.704	0	0	0	11.76	
(5) Rope making								0	0		

(a) No. of SHG's	No.	4	0.378	7	0.76	7	0.76	0	0	18	1.890
(b) No. of members	No.	10	0	40	0	40	0	0	0	90	0
(c) Estimated income per year	Rs.	3.528	0	7.056	0	7.056	0	0	0	17.64	
(6) Tailoring								0	0		
(a) No. of SHG's	No.	2	0.600	5	1.20	5	1.20	0	0	12	3.000
(b) No. of members	No.	10	0	40	0	40	0	0	0	100	
(c) Estimated income per year	Rs.	2.352	0	4.704	0	4.704	0	0	0	11.76	
(7) Implements repair								0	0		
(a) No. of SHG's	No.	1	0.500	3	1.00	3	1.00	0	0	7	2.500
(b) No. of members	No.	10	0	40	0	40	0	0	0	100	
(c) Estimated income per year	Rs.	1.372	0	2.744	0	2.744	0	0	0	6.86	
(8) Vermi Composting								0	0		
(a) No. of SHG's	No.	4	1.852	9	3.70	9	3.70	0	0	22	9.260
(b) No. of members	No.	20		170		170		0	0	360	
(c) Estimated income per year	Rs.	4.312	0.000	8.624	0.000	8.624	0.000	0	0	21.560	
(9) Food processing								0	0		
(a) No. of SHG's	No.	2	0.500	3	1.00	3	1.00	0	0	8	2.500
(b) No. of members	No.	10	0	40	0	40	0	0	0	100	
(c) Estimated income per year	Rs.	1.568	0	3.136	0	3.136	0	0	0	7.84	
(10) Mini Dal Mill								0	0		
(a) No. of SHG's	No.	2	0.700	5	1.40	5	1.40	0	0	12	3.500
(b) No. of members	No.	10	0	40	0	40	0	0	0	100	
(c) Estimated income per year	Rs.	2.352	0	4.704	0	4.704	0	0	0	11.76	

(11) Mini Flour Mill								0	0		
(a) No. of SHG's	No.	2	0.700	5	1.40	5	1.40	0	0	12	3.500
(b) No. of members	No.	10	0	40	0	40	0	0	0	100	
(c) Estimated income per year	Rs.	2.352	0	4.704	0	4.704	0	0	0	11.76	
(12) Mini Oil Expeller								0	0		
(a) No. of SHG's	No.	1	0.290	2	0.58	2	0.58	0	0	6	1.450
(b) No. of members	No.	10	0	40	0	0	0	0	0	0	
(c) Estimated income per year	Rs.	1.176	0	2.352	0	2.352	0	0	0	0	
(13) Carpentry								0	0		
(a) No. of SHG's	No.	2	0.430	5	0.86	5	0.86	0	0	12	2.150
(b) No. of members	No.	10	0	40	0	40	0	0	0	100	
(c) Estimated income per year	Rs.	2.352	0	4.704	0	4.704	0	0	0	11.76	
Total								0	0		**59.32**

ANNEXURE-III

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

Physical & Financial Outlay/ Target	Financial	2010-11		2011-12		2012-13		2013-14		Total	
		Physical	Financial	Physical	Financial	Physical	Financial	Physical	Financial	Physical	Financial
(1) Agriculture											
(a) Crop demonstration											
(1) No. of dem.	No.	230	3.700	460	7.400	460	7.400			1150	18.500
(2) Area	Ha.	115		230		211.2					
(b) Seed Production											
(1) No. of dem.	No.	104	2.050	208	4.100	208	4.100			520	10.250
(2) Area	Ha.	52		104		104				184	
(2) Agro-forestry / Agri-Horticulture											
(a) Area	Ha.	8	1.138	17	2.276	17	2.276			42	5.690
(b) No. of Plants	No.										
(3) Afforestation		3000	0.900	6000	1.800	6000	1.800			15000	4.500
(a) Scattered Plantation	No	3000	0.750	6000	1.500	6000	1.500			15000	3.750
(4) Animal husbandry											
(a) Green fodder	Ha./no. farmer	8/16	0.3378	16/32	0.6756	16/32	0.6756	10/20	0	35/70	1.689
(b) Rearing of milch cattle											
(i) Cow	No. of unit/ farmer no.	250	0.008	650	0.012	650	0.012	250	0.008	1800	0.040
(ii) Buffalows	No. of unit/ farmer no.	350	0.300	700	0.450	700	0.450	350	0.300	2100	1.500

(c) Goatary	,,	250	0.300	550	0.450	550	0.450	250	0.300	1600	1.500
(d) Poultry	,,	4	0.240	15	0.360	15	0.360	4	0.240	38/38	1.200
(e) Fisheries		0	0.400	3	0.600	6	0.600	6	0.400	15/30	2.000
(f) Dairy		10	0.400	38	0.600	38	0.600	10	0.400	95	2.000
(g) Health camps	No.	1256	0.300	3769	0.450	3769	0.450	3769	0.300	12562	1.500
(h) Artificial insemination	No. of animals	377	0.440	880	0.660	880	0.660	377	0.440	2513	2.200
(i) Natural service bull	No.	-	1.120	8	1.680	880	1.680	-	1.120	8	5.600
(5) Micro Interprises									0.000		0.000
(a) No. of units	No.	0	0	2	4	0	0	0	0.000	2	4.000
(b) No. of beneficiaries	No.			25							
(c) Income per year	Rs.										**65.92**

ESTIMATES OF DIFFERENT PARTICIPATORY CROP TRIALS

Estimates of different Participatory crop trials

Pulses	**Rabi**	**ICM**	**Lentil**	
Area of Demonstration - 0.50 ha				
Detail of Demonstration	**Intervention / Technology Adopted**	**Organisations for obtaining Seed**		
1. Name of Varieties	Narendra Masoor-1, DPL-15, L-4076, Pusa Vaibhav	C. S. A. Unversity 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 Weedicide	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 Paratheon powder			
	25 kg / ha	25	625	312.50
	Total (Less SSP)			**4743.25**
Integrated Crop Management	**Chickpea**			
Area of Demonstration - 0.50 ha				
Detail of Demonstration	**Intervention / Technology Adopted**	**Organisations for obtaining Seed**		
1. Name of Varieties	KGD-1168, KWR-108, Pusa-256, Pusa-367	C. S. A. Unversity 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 Weedicide	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
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 - 0.50 ha				
Detail of Demonstration	**Intervention / Technology Adopted**	**Organisations for obtaining Seed**		
1. Name of Varieties	KMPR-400, KPMR-522, Rachna, Shikha	C. S. A. Unversity 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 Paratheon powder			
	25 kg / ha	25	625	312.50
	Total (Less SSP)			**5743.25**
Integrated Crop Management	**Urd**			
Area of Demonstration - 0.50 ha				
Detail of Demonstration	**Intervention / Technology Adopted**	**Organisations for obtaining Seed**		
1. Name of Varieties	Shekhar-2, Azad-1, PU-35, Narendra Urd-1	C. S. A. Unversity 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	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)			**3543.25**
Integrated Crop Management	**Moong**			
Area of Demonstration - 0.50 ha				
Detail of Demonstration	**Intervention / Technology Adopted**	**Organisations for obtaining Seed**		
1. Name of Varieties	T.M-9937, Meha, Pant Moong-1,2 Late- Type-44, Samrat	C. S. A. Unversity 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
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
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 - 0.50 ha				
Detail of Demonstration	**Intervention / Technology Adopted**	**Organisations 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. Unversity 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 Weedicide	-	-	-	-
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 - 0.50 ha				
Detail of Demonstration	**Intervention / Technology Adopted**	**Organisations for obtaining Seed**		
1. Name of Varieties	Sweta, Subhra, Garima, Shekhar, Parwati	C. S. A. Unversity of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
	Late- Laxmi-27, Padmini			
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 Paratheon powder			
	25 kg / ha	25	625	312.50
	Total (Less SSP)			**2949.50**
Integrated Crop Management	**Mustard**			
Area of Demonstration - 0.50 ha				

Detail of Demonstration	**Intervention / Technology Adopted**	**Organisations for obtaining Seed**		
1. Name of Varieties	Varuna, Kranti, Rohini, Vaibhav, Pusa Bold	C. S. A. Unversity of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
	Late-Ashirvad, Vardan			
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 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				
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 Paratheon powder			
	25 kg / ha	25	625	312.50
	Total (Less SSP)			**2762.00**
Integrated Crop Management	**Toriya**			
Area of Demonstration - 0.50 ha				
Detail of Demonstration	**Intervention / Technology Adopted**	**Organisations for obtaining Seed**		
1. Name of Varieties	Type-9, PT-303, PT-30	C. S. A. Unversity of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI,		
	Late-Bhawani			

2. Sowing Time		Pusa New Delhi		
	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	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)			**2224.50**
Integrated Crop Management Til (Sesamum)				
Area of Demonstration - 0.50 ha				
Detail of Demonstration	**Intervention / Technology Adopted**	**Organisations for obtaining Seed**		
1. Name of Varieties	Type-4,12,13,78, Shekhar	C. S. A. Unversity of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
	Late- Pragati, Tarun			
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 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				
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 - 0.50 ha				
Detail of Demonstration	**Intervention / Technology Adopted**	**Organisations for obtaining Seed**		
1. Name of Varieties	UP-2338,WH-542,PBW-343,502,550,K-9006,307	C. S. A. Unversity 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 Weedicide	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 Paratheon powder			
	25 kg / ha	25	625	312.50
	Total (Less SSP)			**5781.50**
Integrated Crop Management	**Maize**			
Area of Demonstration - 0.50 ha				
Detail of Demonstration	**Intervention / Technology Adopted**	**Organisations 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. Unversity 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 Treatement	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 - 0.50 ha				
Detail of Demonstration	**Intervention / Technology Adopted**	**Organisations 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. Unversity 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 Treatement	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)			**3496.50**
Integrated Crop Management	**Sorghum**			
Area of Demonstration - 0.50 ha				
Detail of Demonstration	**Intervention / Technology Adopted**	**Organisations for obtaining Seed**		
1. Name of Varieties	CSV-13, 15, 1616, Bundela. CSH-16	C. S. A. Unversity 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
4. Seed Treatement	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				
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**

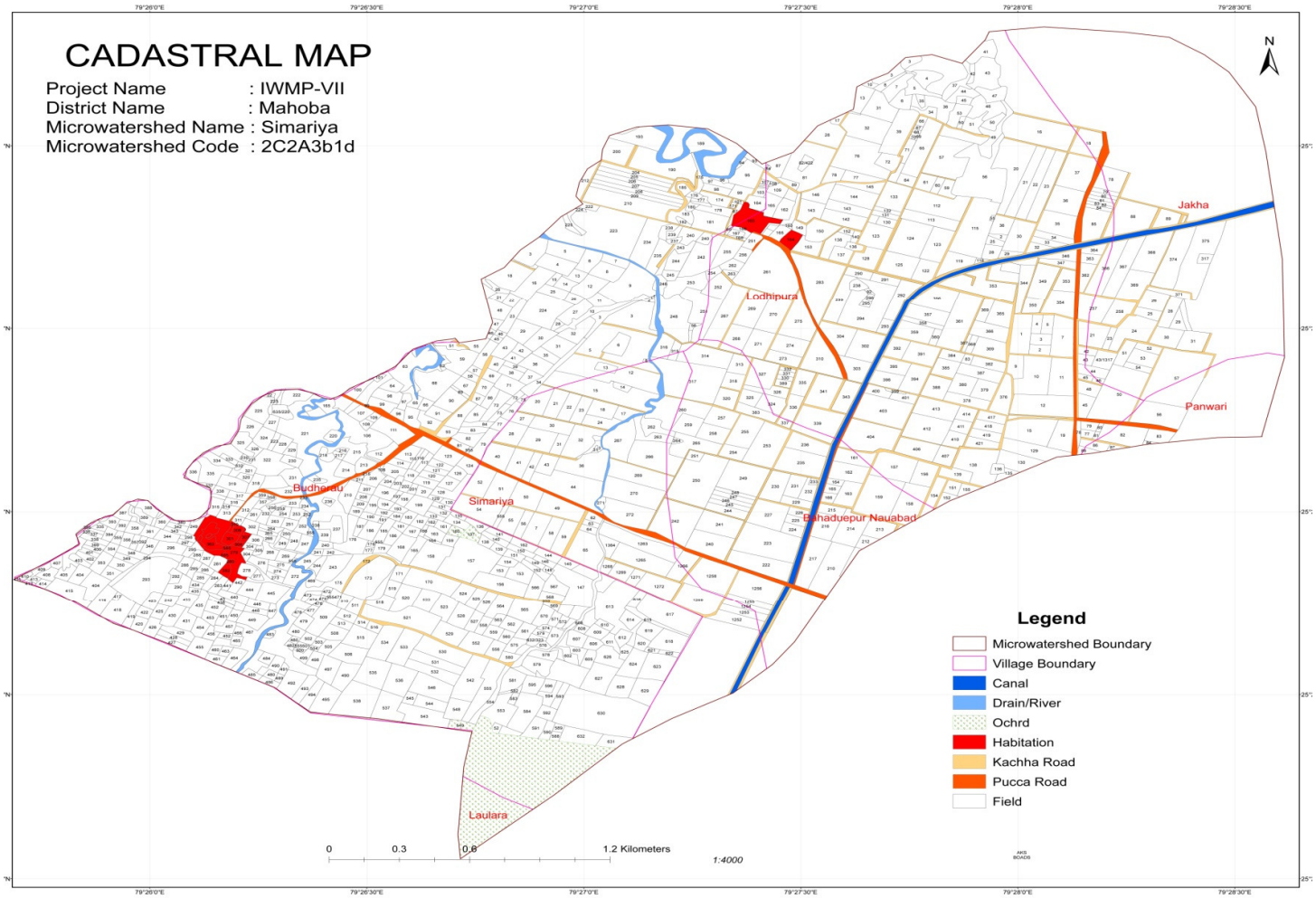
Livelihood Option for Village Groups / Community
Input supplied to Interested Groups/ SHGs

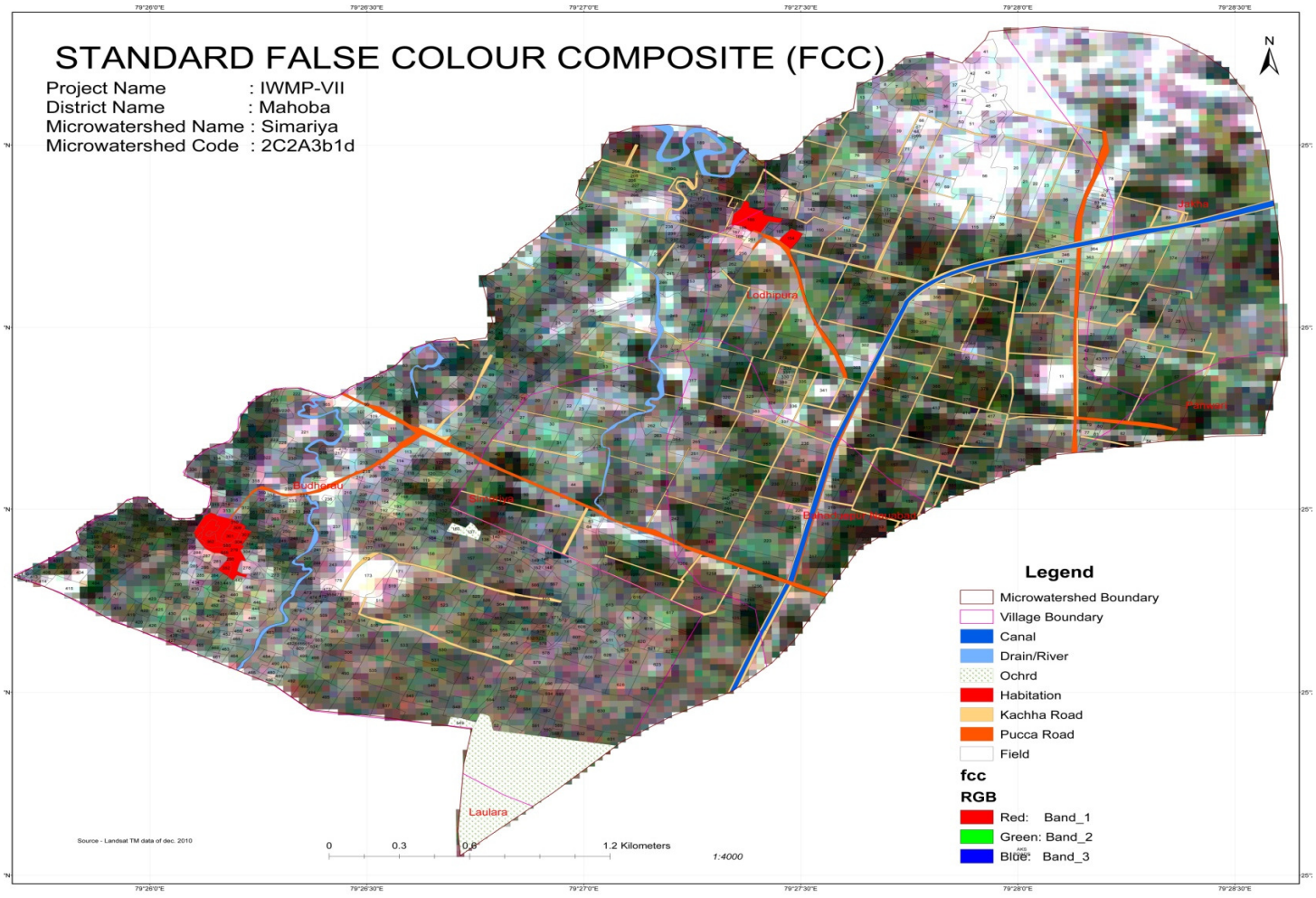
Sr. No.	Name of Activity *	Name of input	Quantity/	Rate	No of IG / SHGs	Total Amount (Rs)
1	Organic complex	Red worms *(Eisinia fetida)* *NADEP*	2 q 10 Nos	25000 5000	4 (40 FF)	100000.00
2	Goat kids	Kids	40 Nos	1200	2 (20 FF)	48000.00
		Adult	02	2500		5000.00
3	Goat rearing	Female	10 Nos	3000	1 (10 FF)	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

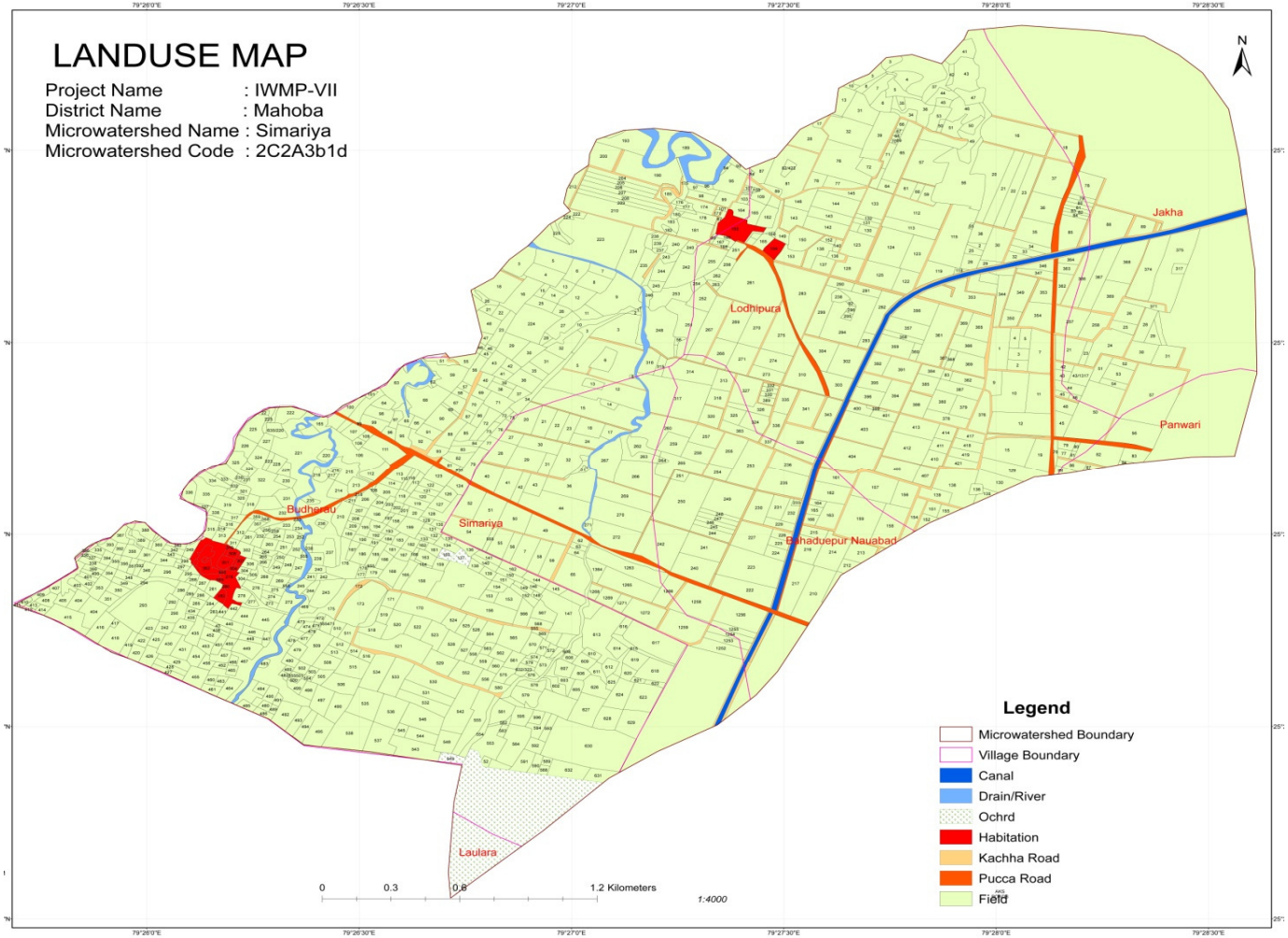
11	Back yard Poultry	Chicks	2000	18	2 (20 FF)	36000.00
12	Linseed rope making	Rope making machine	01	35000	1 (10 FF)	35000.00
13	Organic production	Registration	100 ha	6000	5	120000.00
14	Tailoring	Sieving Machine	5 in 01 SHG	25000	2	25000.00

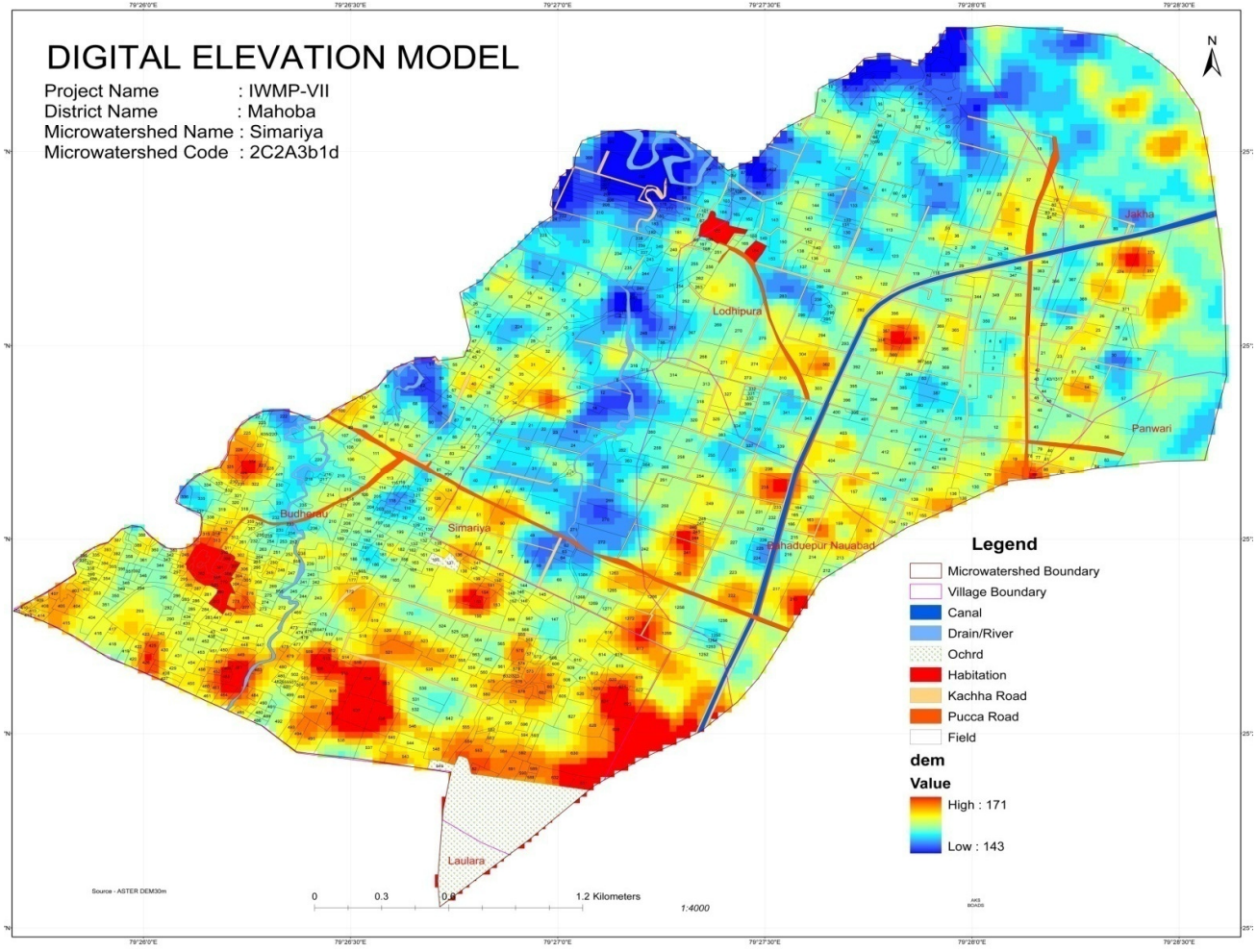
Note: Maximum Seed Money will be Rs 25000/- for one SHG / Individual. Repayment limit up to 18 months.

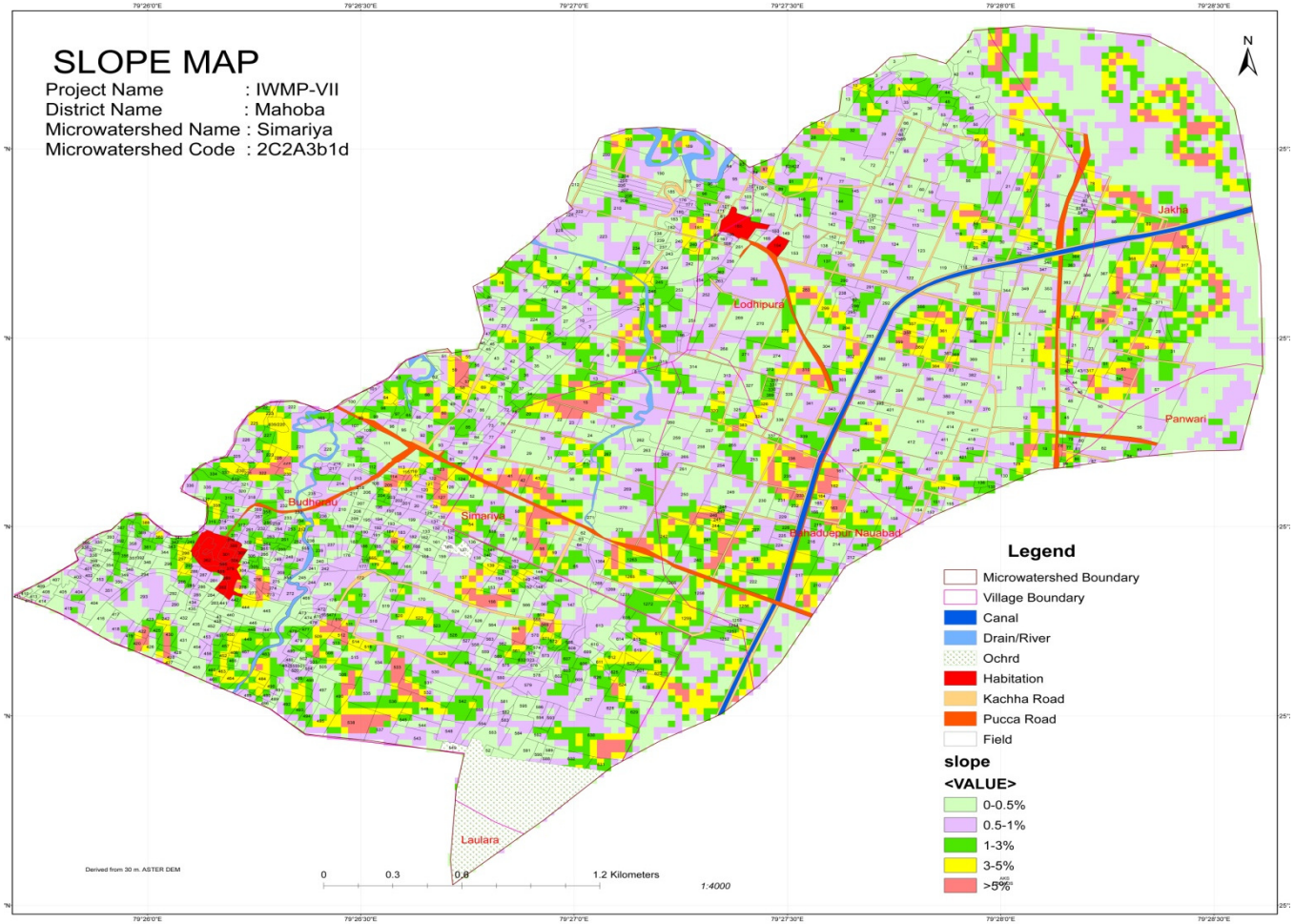
MAPS

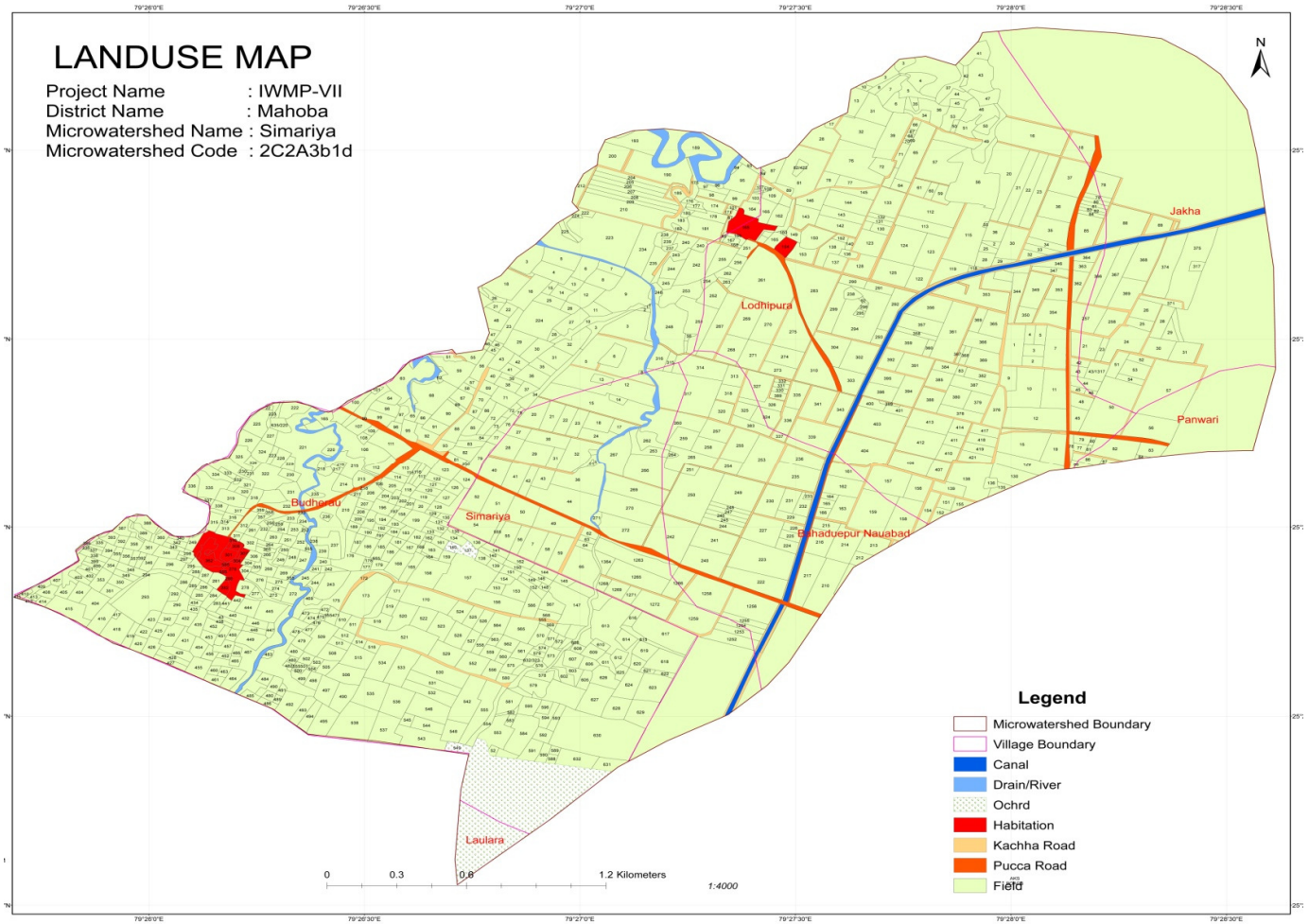

CADASTRAL MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Simariya
Microwatershed Code : 2C2A3b1d
N
Jakha
Lodhipura
Panwari
Budherau
Simariya
Bahadurpur Nauabad
Laulara
Legend
Microwatershed Boundary
Village Boundary
Canal
Drain/River
Ochrd
Habitation
Kachha Road
Pucca Road
Field
0
0.3
0.6
1.2 Kilometers
1:4000
79°26'0"E
79°26'30"E
79°27'0"E
79°27'30"E
79°28'0"E
79°28'30"E

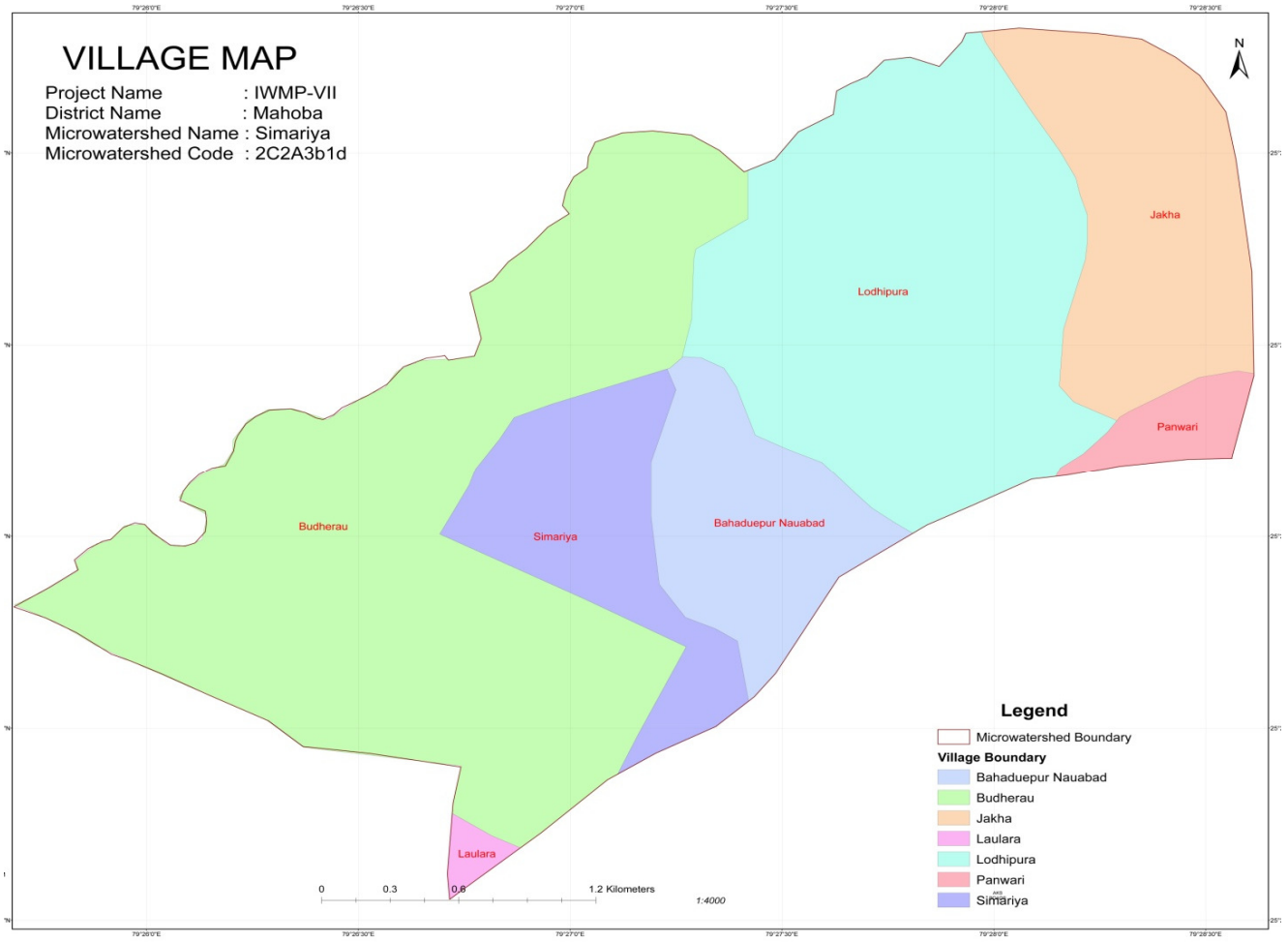

STANDARD FALSE COLOUR COMPOSITE (FCC)
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Simariya
Microwatershed Code : 2C2A3b1d
N
Lodhipura
Budhera
Laulara
Legend
Microwatershed Boundary
Village Boundary
Canal
Drain/River
Ochrd
Habitation
Kachha Road
Pucca Road
Field
fcc
RGB
Red: Band_1
Green: Band_2
Blue: Band_3
Source - Landsat TM data of dec. 2010
0
0.3
0.6
1.2 Kilometers
1:4000

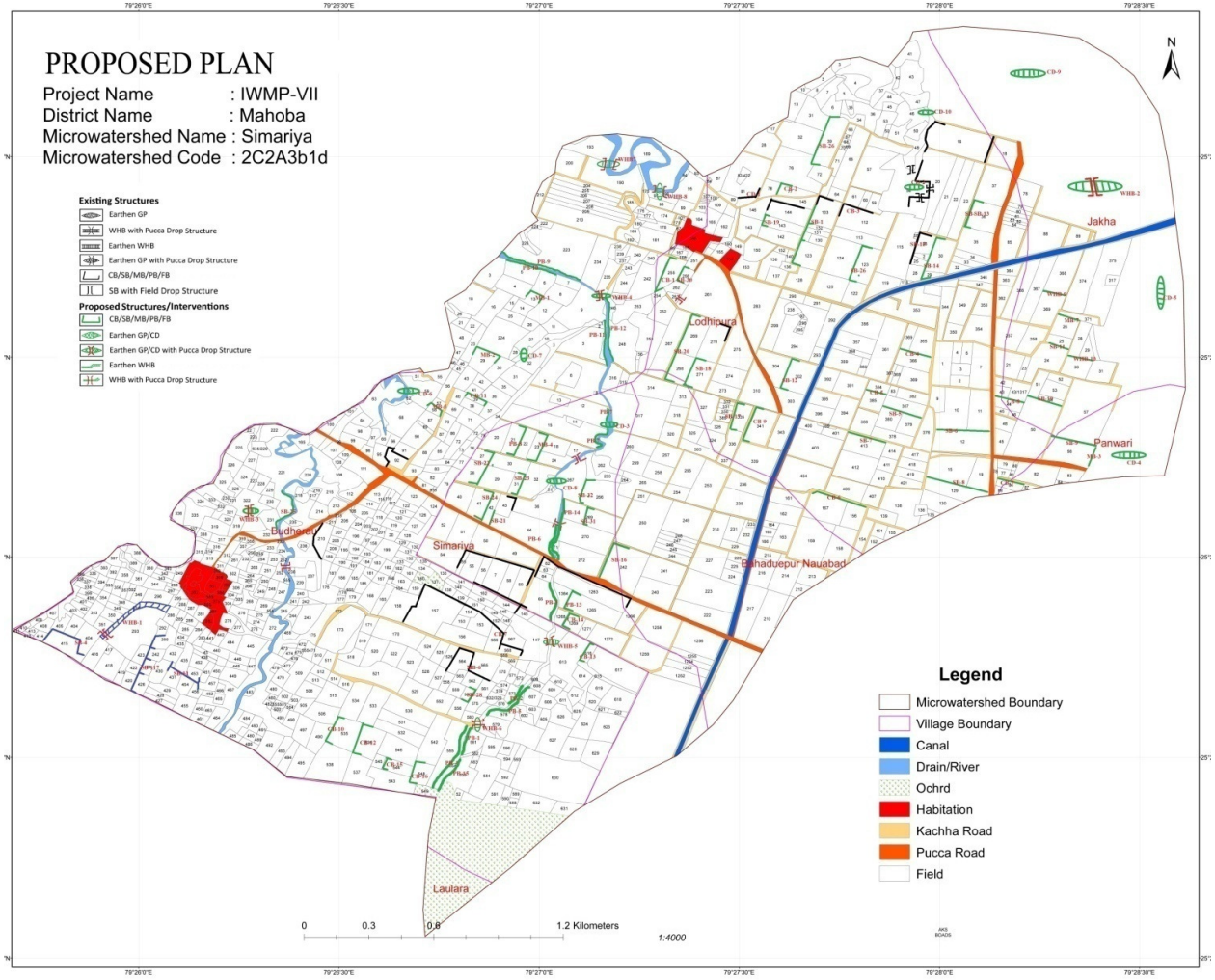

LANDUSE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Simariya
Microwatershed Code : 2C2A3b1d
N
Jakha
Lodhipura
Panwari
Budhera0
Simariya
Bahaduepur Naubad
Laulara
0
0.3
0.6
1.2 Kilometers
1:4000
Legend
Microwatershed Boundary
Village Boundary
Canal
Drain/River
Ochrd
Habitation
Kachha Road
Pucca Road
Field

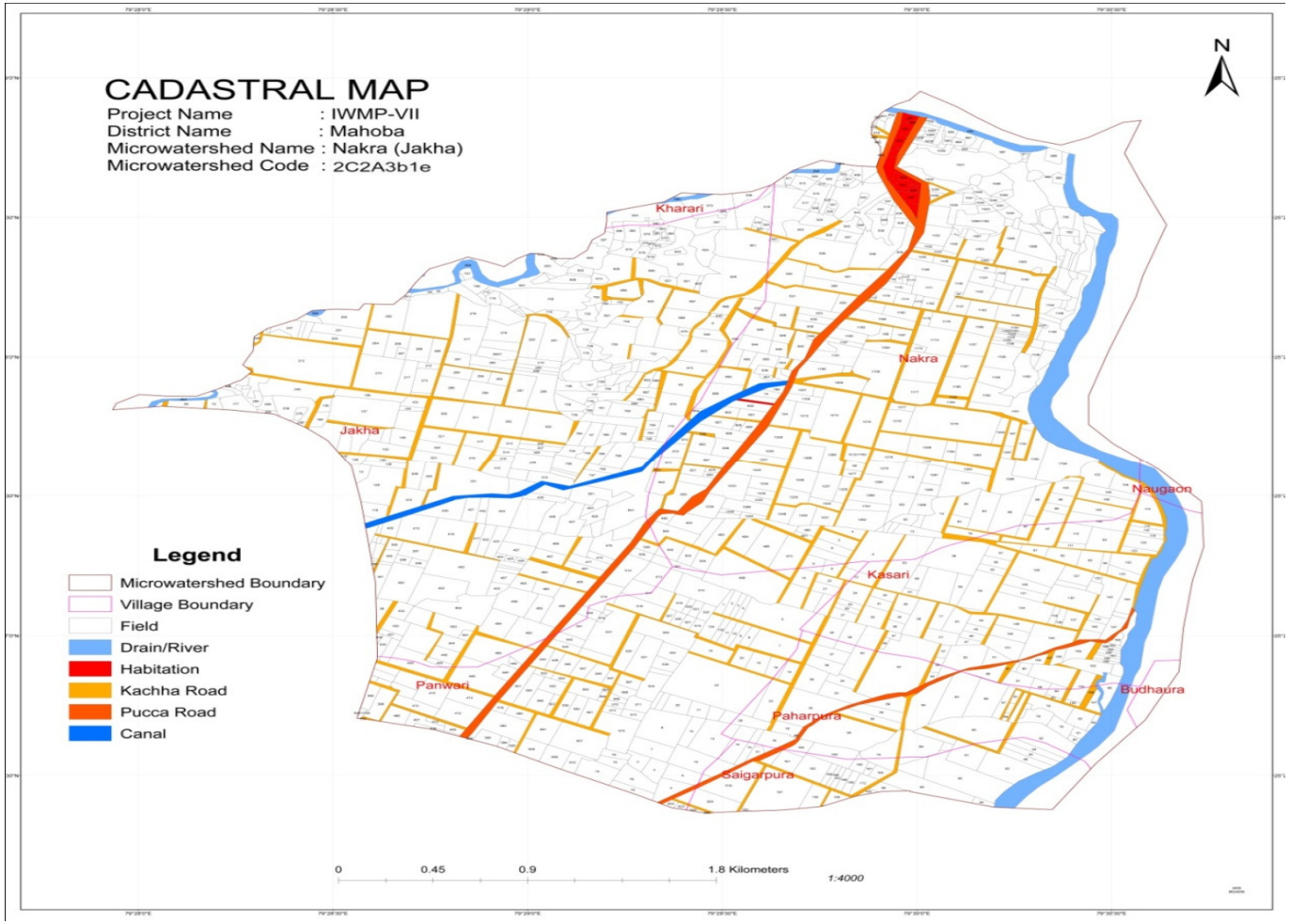

DIGITAL ELEVATION MODEL
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Simariya
Microwatershed Code : 2C2A3b1d
N
Jakha
Lodhipura
Panwari
Budhrau
Simariya
Bahaduepur Nauabad
Laulara
Legend
Microwatershed Boundary
Village Boundary
Canal
Drain/River
Ochrd
Habitation
Kachha Road
Pucca Road
Field
dem
Value
High : 171
Low : 143
Source - ASTER DEM30m
0
0.3
0.6
1.2 Kilometers
1:4000

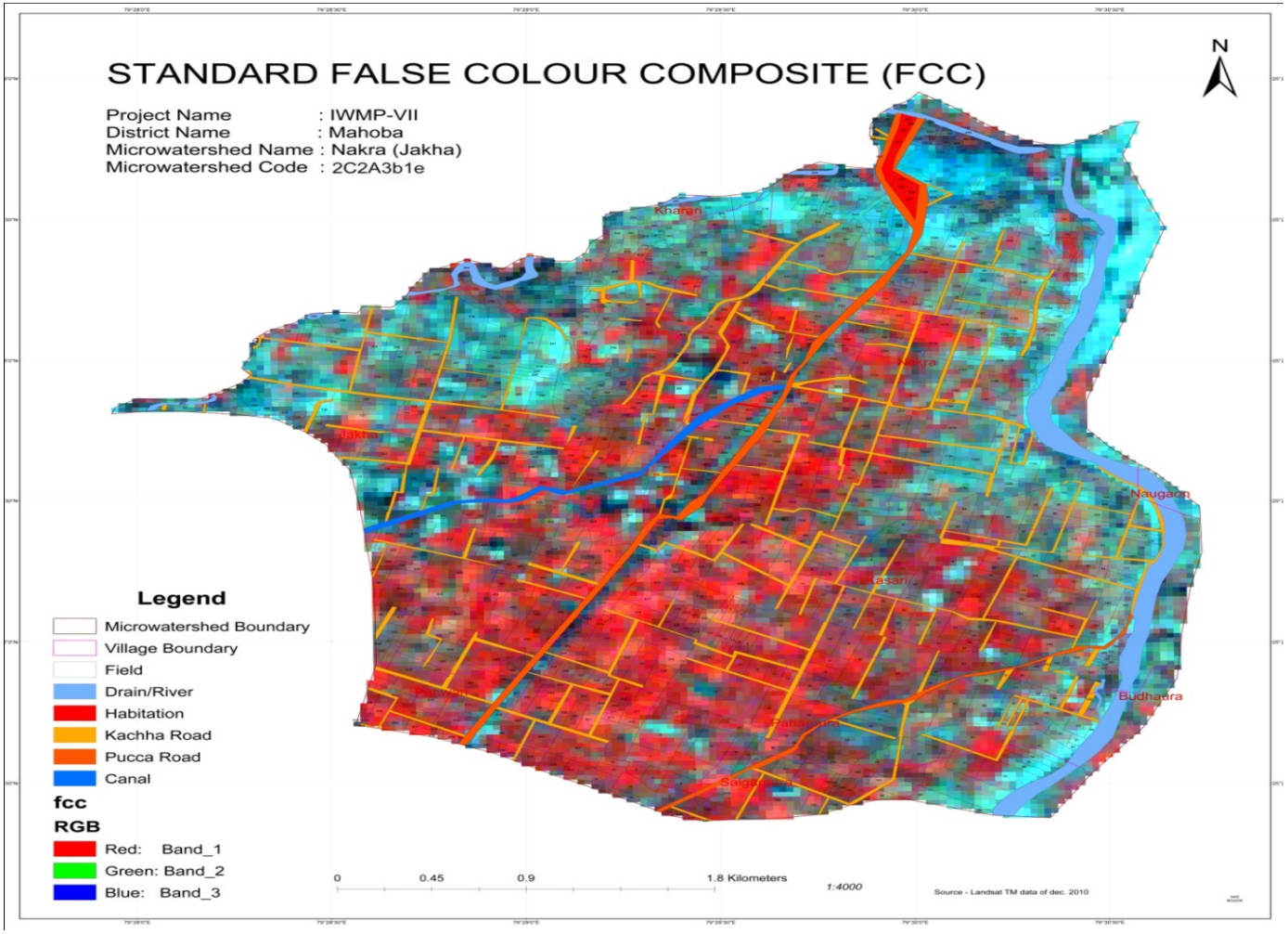

SLOPE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Simariya
Microwatershed Code : 2C2A3b1d
N
Lodhipura
Jakha
Panwari
Budhanau
Simariya
Bahadurpur Nawabad
Laulara
Legend
Microwatershed Boundary
Village Boundary
Canal
Drain/River
Ochrd
Habitation
Kachha Road
Pucca Road
Field
slope
<VALUE>
0-0.5%
0.5-1%
1-3%
3-5%
>5%
Derived from 30 m. ASTER DEM
0
0.3
0.6
1.2 Kilometers
1:4000

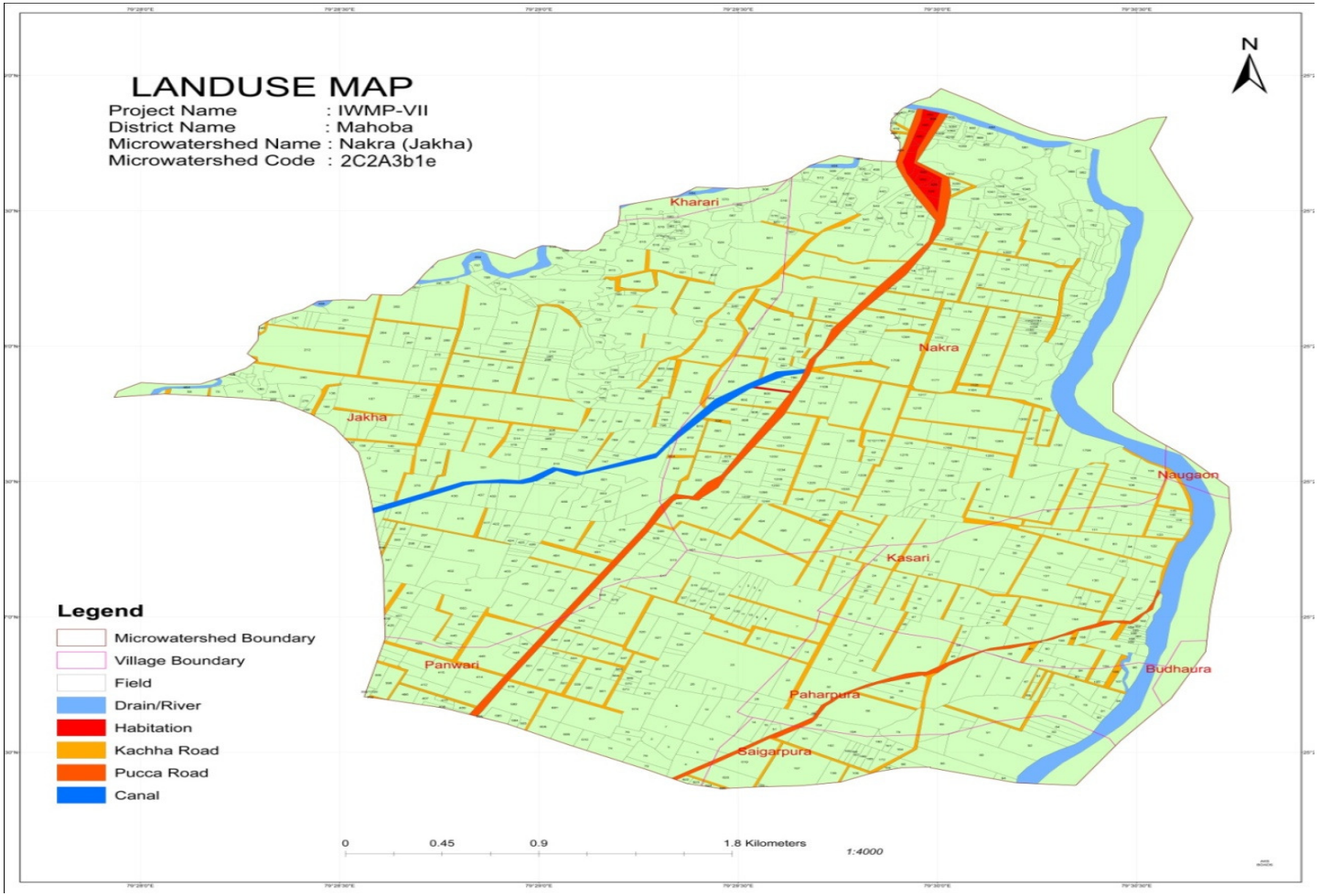

LANDUSE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Simariya
Microwatershed Code : 2C2A3b1d
N
Jakha
Lodhipura
Panwari
Budhenau
Simariya
Bahaduepur Nauabad
Laulara
0
0.3
0.6
1.2 Kilometers
1:4000
Legend
Microwatershed Boundary
Village Boundary
Canal
Drain/River
Ochrd
Habitation
Kachha Road
Pucca Road
Field

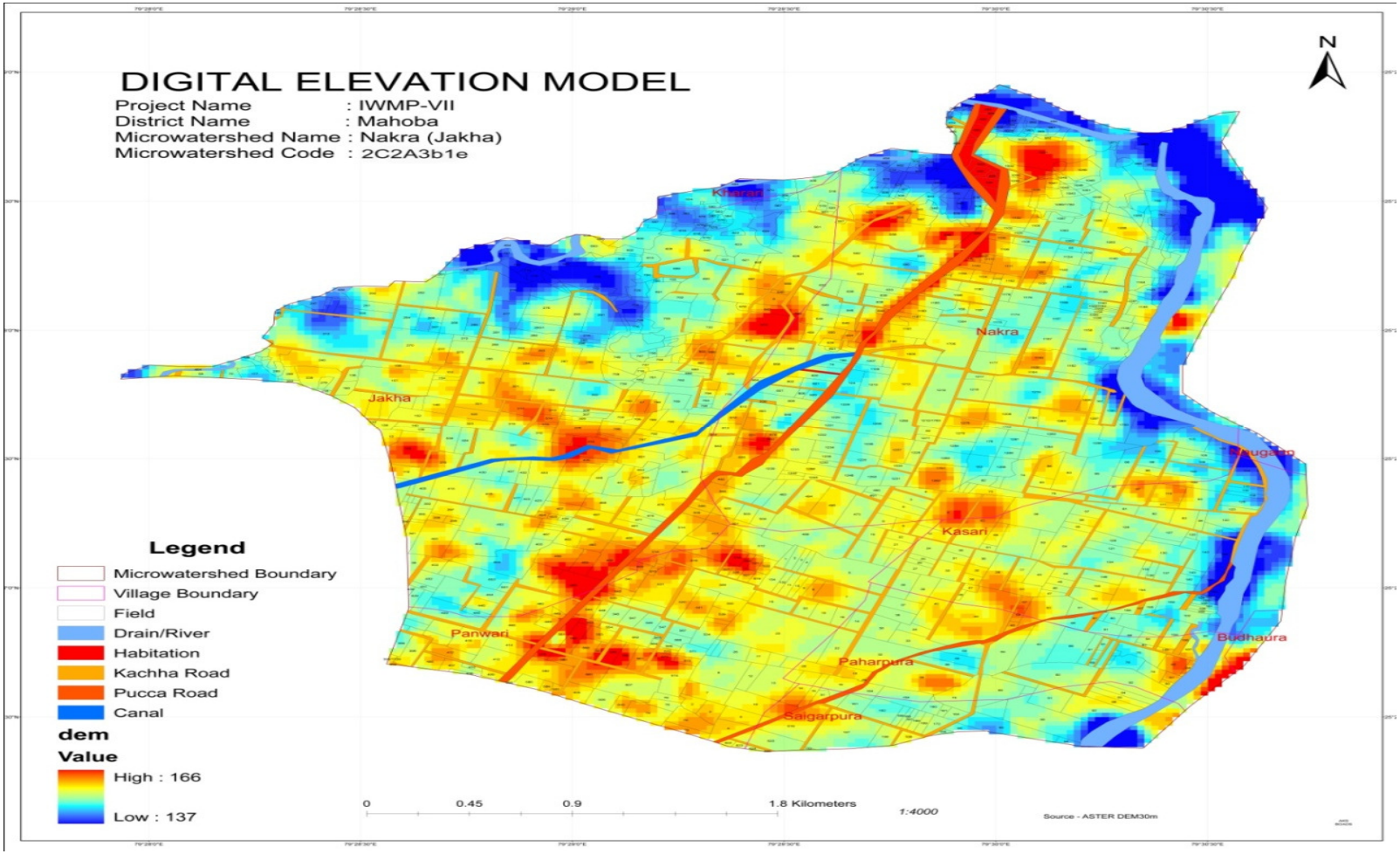

VILLAGE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Simariya
Microwatershed Code : 2C2A3b1d
N
Jakha
Lodhipura
Panwari
Budherau
Simariya
Bahaduepur Nauabad
Laulara
0
0.3
0.6
1.2 Kilometers
1:4000
Legend
Microwatershed Boundary
Village Boundary
Bahaduepur Nauabad
Budherau
Jakha
Laulara
Lodhipura
Panwari
Simariya

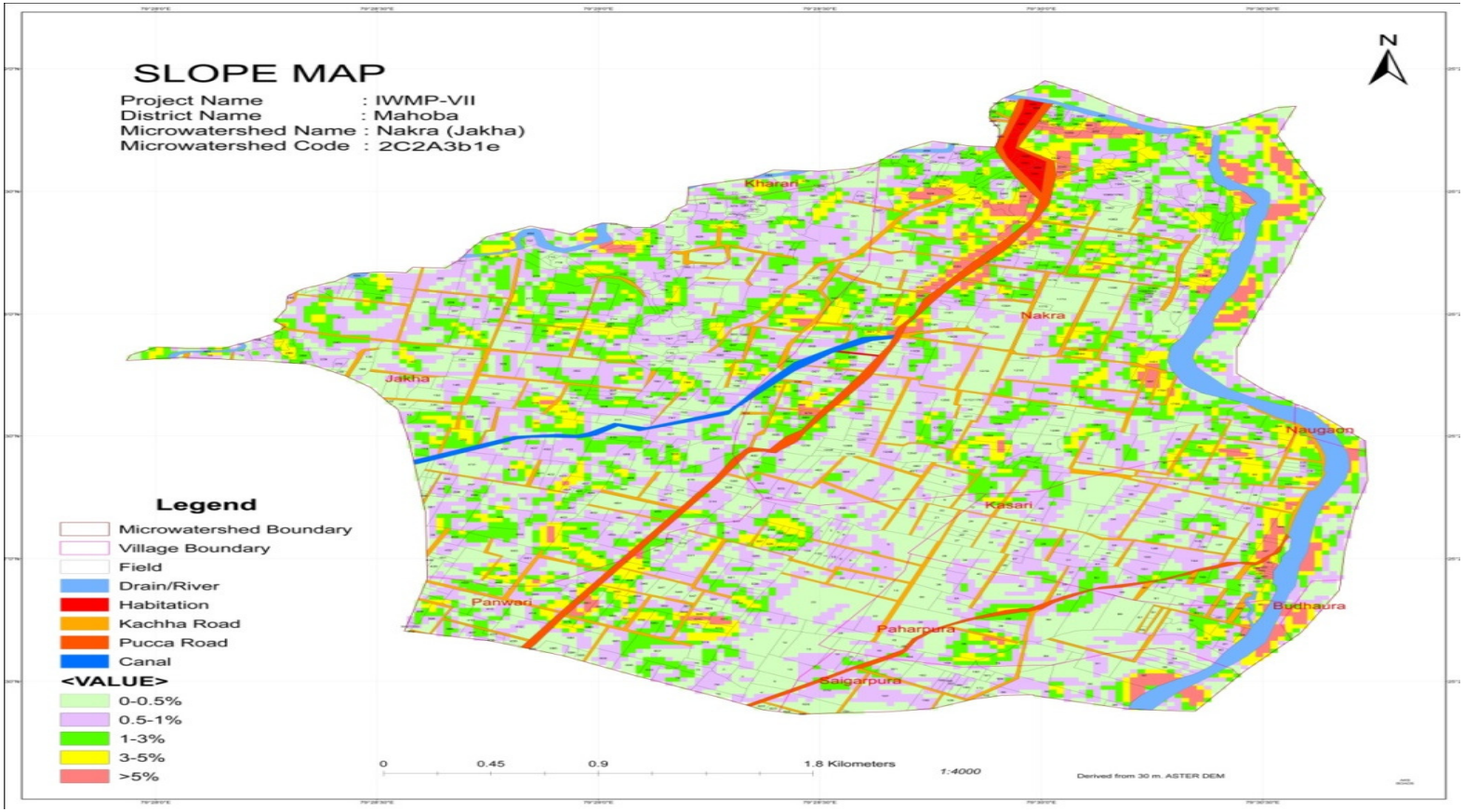

PROPOSED PLAN
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Simariya
Microwatershed Code : 2C2A3b1d
Existing Structures
Earthen GP
WHB with Pucca Drop Structure
Earthen WHB
Earthen GP with Pucca Drop Structure
CB/SB/MB/PB/FB
SB with Field Drop Structure
Proposed Structures/Interventions
CB/SB/MB/PB/FB
Earthen GP/CD
Earthen GP/CD with Pucca Drop Structure
Earthen WHB
WHB with Pucca Drop Structure
Legend
Microwatershed Boundary
Village Boundary
Canal
Drain/River
Ochrd
Habitation
Kachha Road
Pucca Road
Field
Budhewal
Simariya
Lodhipura
Jakha
Panwari
Bahaduepur Nauabad
Laulara
0 0.3 0.6 1.2 Kilometers
1:4000
N

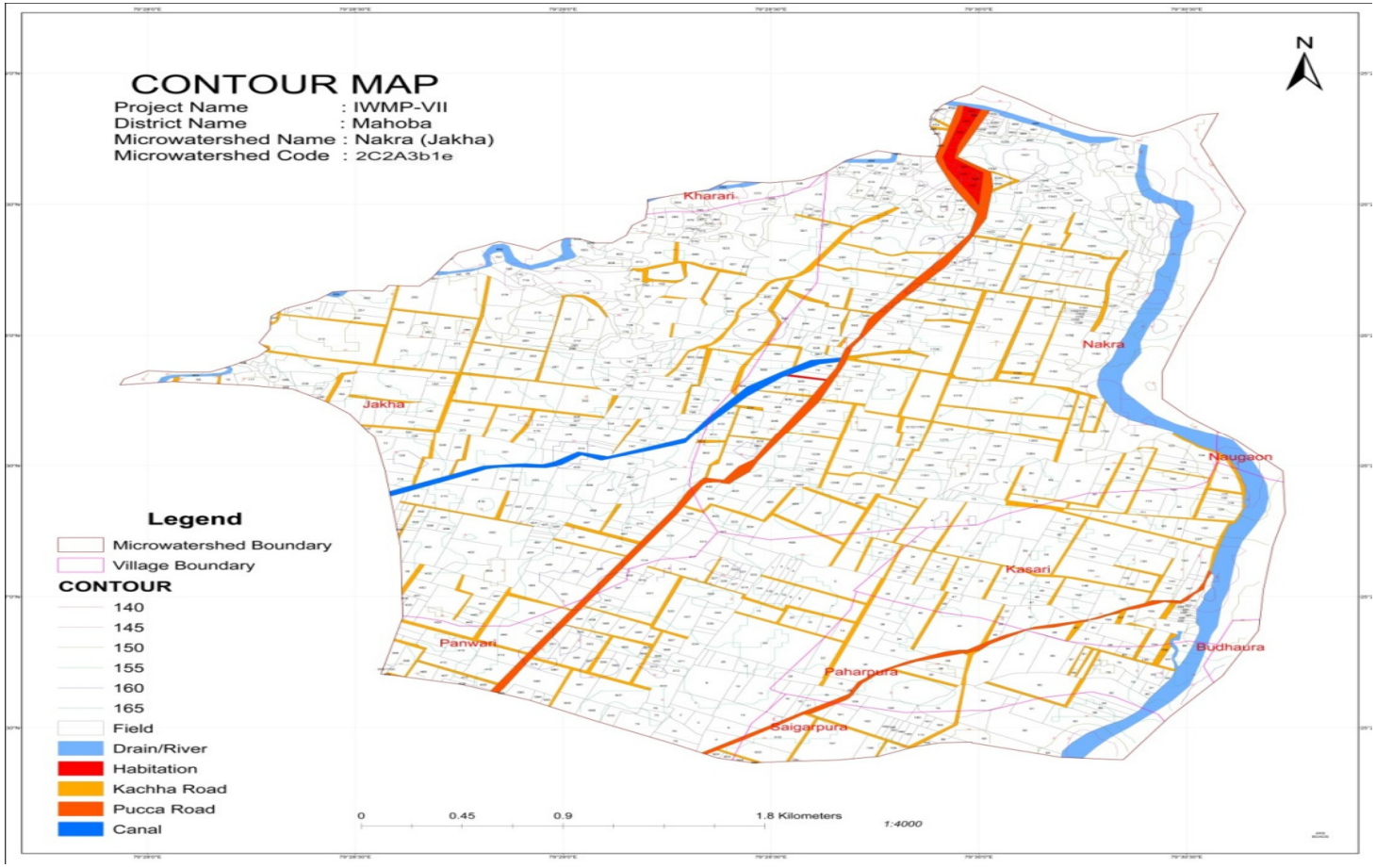

CADASTRAL MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Nakra (Jakha)
Microwatershed Code : 2C2A3b1e
N
Kharari
Nakra
Jakha
Naugaon
Kasari
Panwari
Budhaura
Paharpura
Saigarpura
Legend
Microwatershed Boundary
Village Boundary
Field
Drain/River
Habitation
Kachha Road
Pucca Road
Canal
0
0.45
0.9
1.8 Kilometers
1:4000

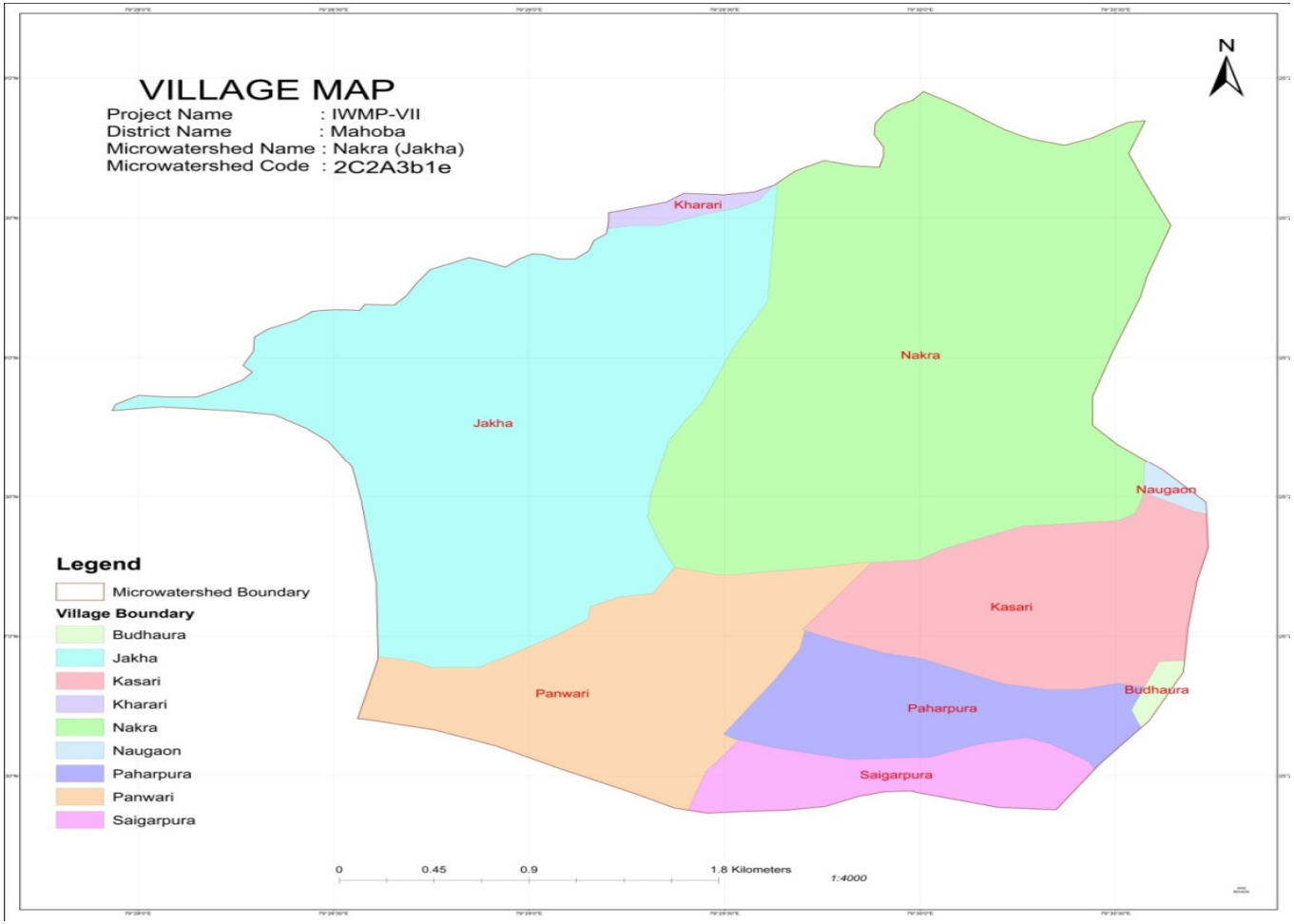

STANDARD FALSE COLOUR COMPOSITE (FCC)
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Nakra (Jakha)
Microwatershed Code : 2C2A3b1e
N
Kharan
Jakha
Nakra
Naugaon
Kasari
Budhaara
Legend
Microwatershed Boundary
Village Boundary
Field
Drain/River
Habitation
Kachha Road
Pucca Road
Canal
fcc
RGB
Red: Band_1
Green: Band_2
Blue: Band_3
0
0.45
0.9
1.8 Kilometers
1:4000
Source - Landsat TM data of dec. 2010

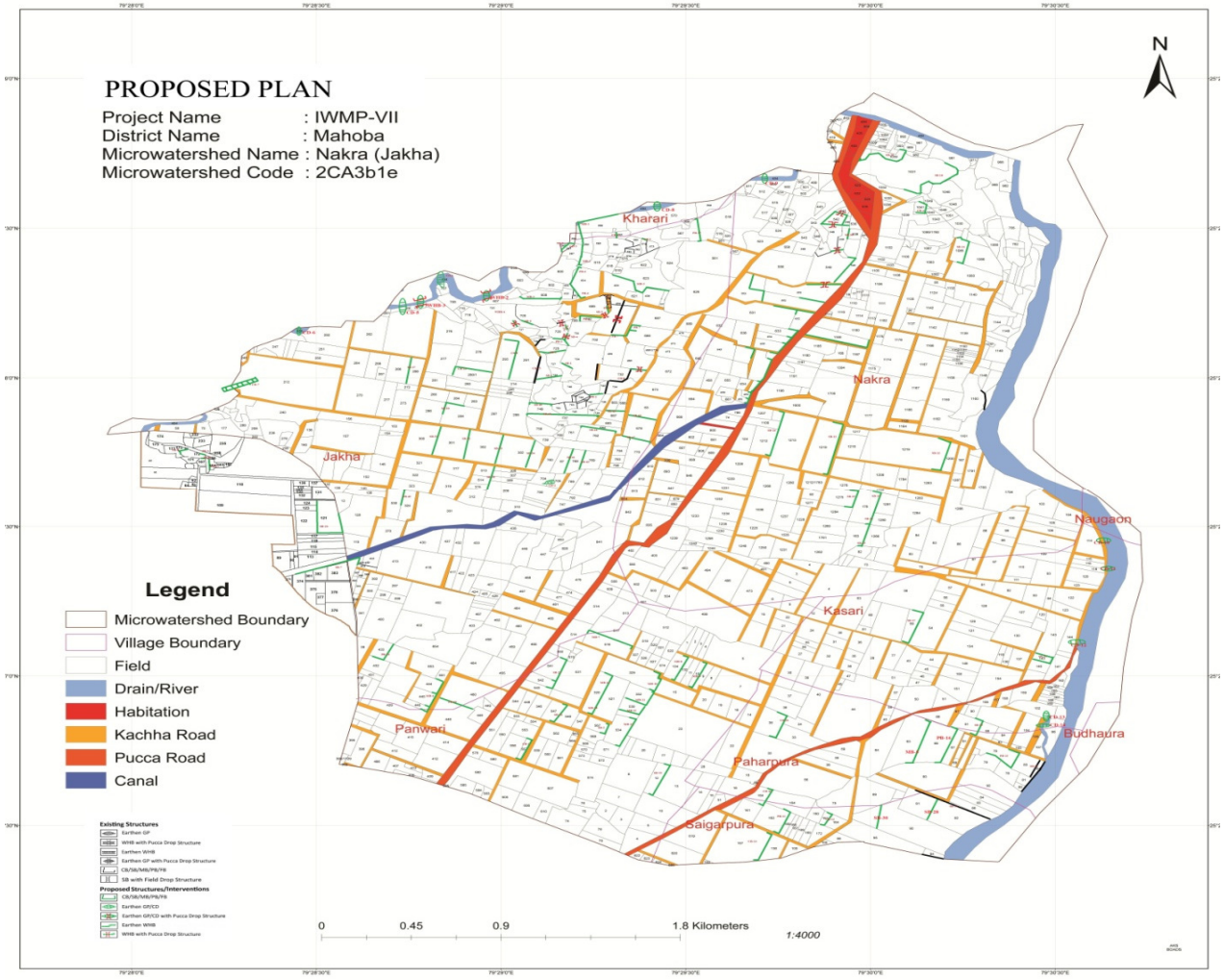

LANDUSE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Nakra (Jakha)
Microwatershed Code : 2C2A3b1e
N
Kharari
Nakra
Jakha
Naugaon
Kasari
Panwari
Budhaura
Paharpura
Saigarpura
Legend
Microwatershed Boundary
Village Boundary
Field
Drain/River
Habitation
Kachha Road
Pucca Road
Canal
0
0.45
0.9
1.8 Kilometers
1:4000

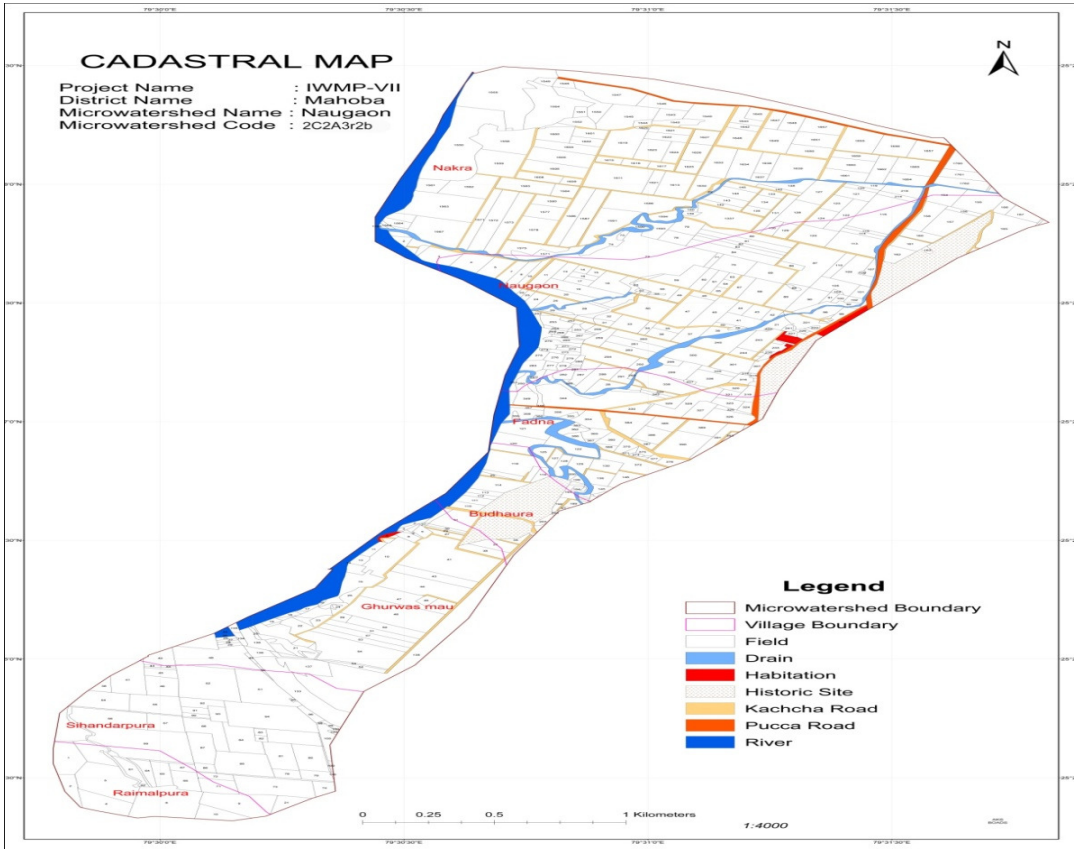

DIGITAL ELEVATION MODEL
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Nakra (Jakha)
Microwatershed Code : 2C2A3b1e
N
Khirzai
Nakra
Jakha
Kasari
Panwari
Paharpura
Saigarpura
Budhaura
Legend
Microwatershed Boundary
Village Boundary
Field
Drain/River
Habitation
Kachha Road
Pucca Road
Canal
dem
Value
High : 166
Low : 137
0
0.45
0.9
1.8 Kilometers
1:4000
Source - ASTER DEM30m

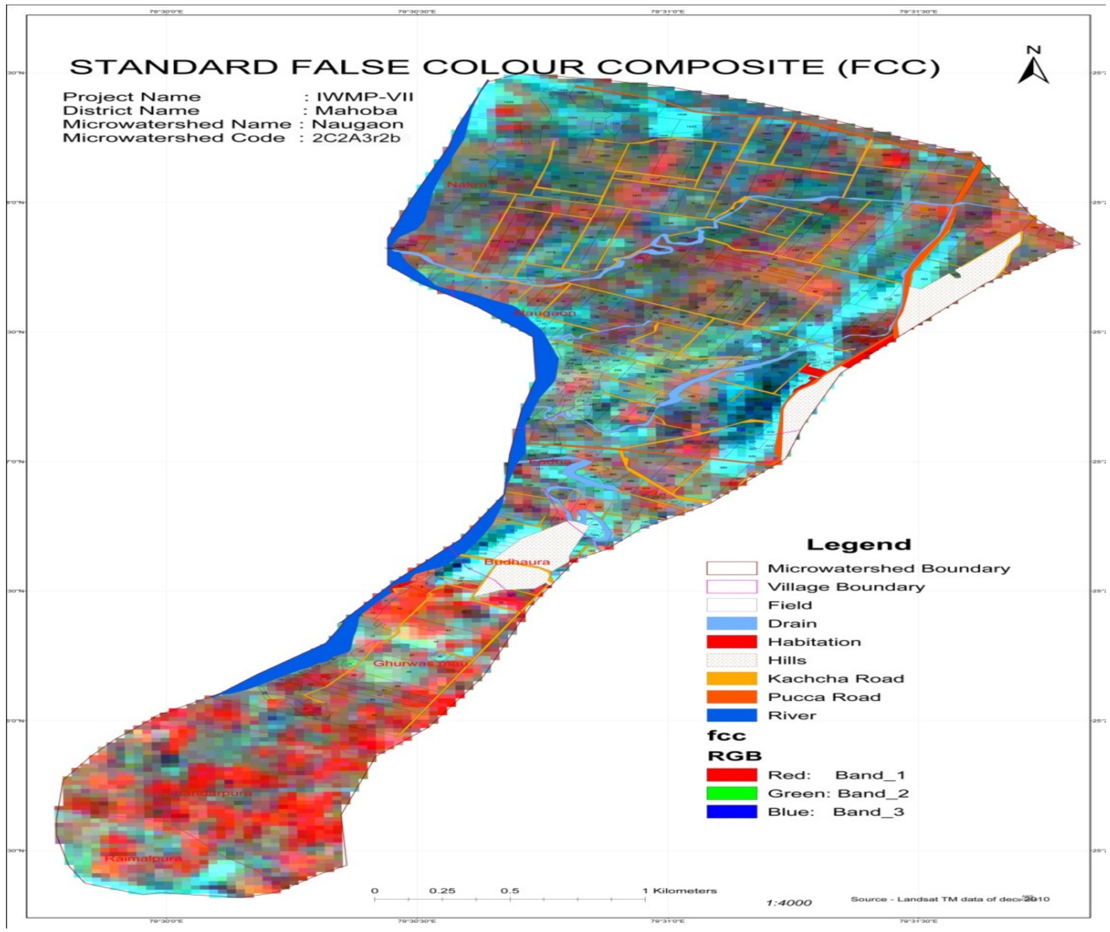

SLOPE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Nakra (Jakha)
Microwatershed Code : 2C2A3b1e
N
Kharari
Nakra
Jakha
Naugaon
Kasari
Panwad
Budhaura
Paharpura
Saigarpura
Legend
Microwatershed Boundary
Village Boundary
Field
Drain/River
Habitation
Kachha Road
Pucca Road
Canal
<VALUE>
0-0.5%
0.5-1%
1-3%
3-5%
>5%
0
0.45
0.9
1.8 Kilometers
1:4000
Derived from 30 m. ASTER DEM

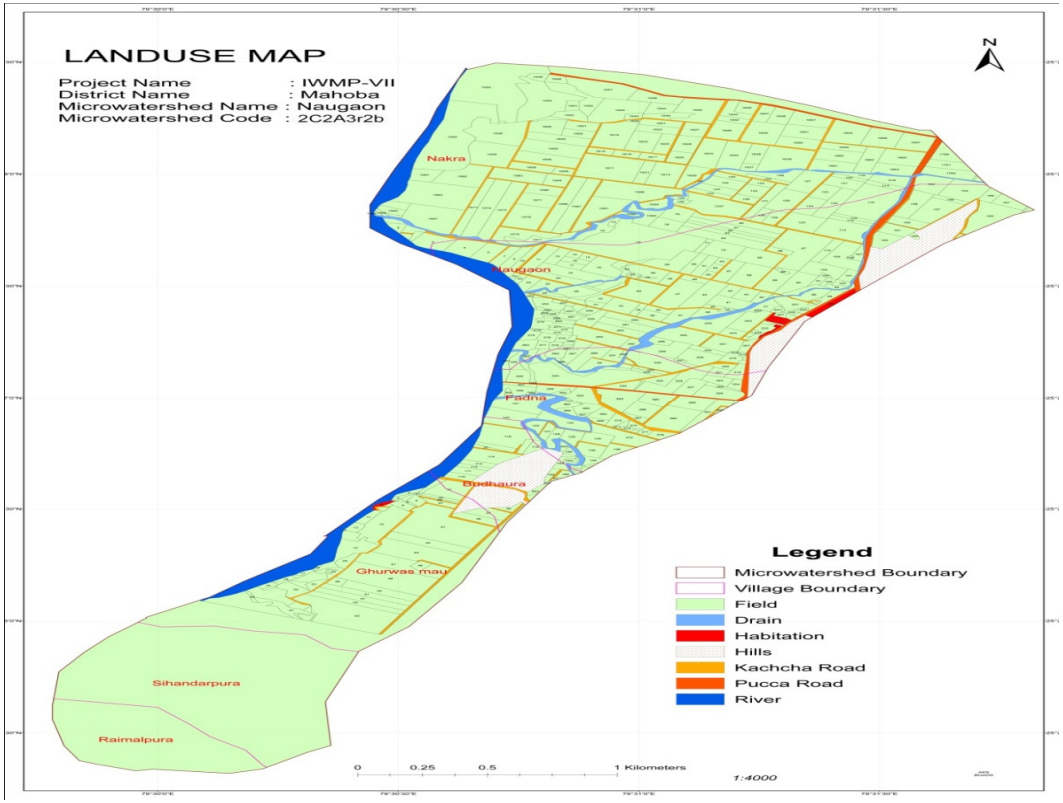

CONTOUR MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Nakra (Jakha)
Microwatershed Code : 2C2A3b1e
N
Kharari
Nakra
Jakha
Naugaon
Kasari
Budhaura
Panwari
Paharpura
Saigarpura
Legend
Microwatershed Boundary
Village Boundary
CONTOUR
140
145
150
155
160
165
Field
Drain/River
Habitation
Kachha Road
Pucca Road
Canal
0
0.45
0.9
1.8 Kilometers
1:4000

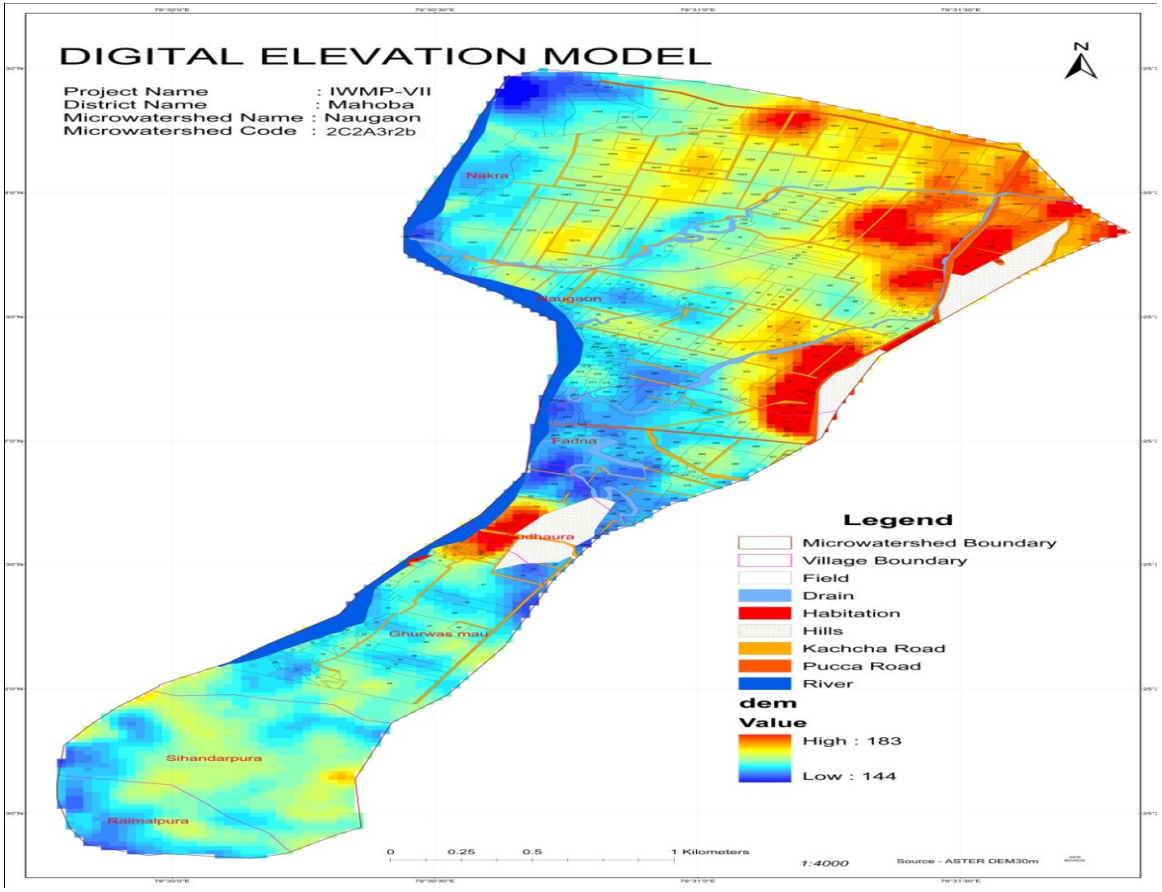

VILLAGE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Nakra (Jakha)
Microwatershed Code : 2C2A3b1e
N
Kharari
Nakra
Jakha
Naugaon
Kasari
Panwari
Budhaura
Paharpura
Saigarpura
Legend
Microwatershed Boundary
Village Boundary
Budhaura
Jakha
Kasari
Kharari
Nakra
Naugaon
Paharpura
Panwari
Saigarpura
0
0.45
0.9
1.8 Kilometers
1:4000

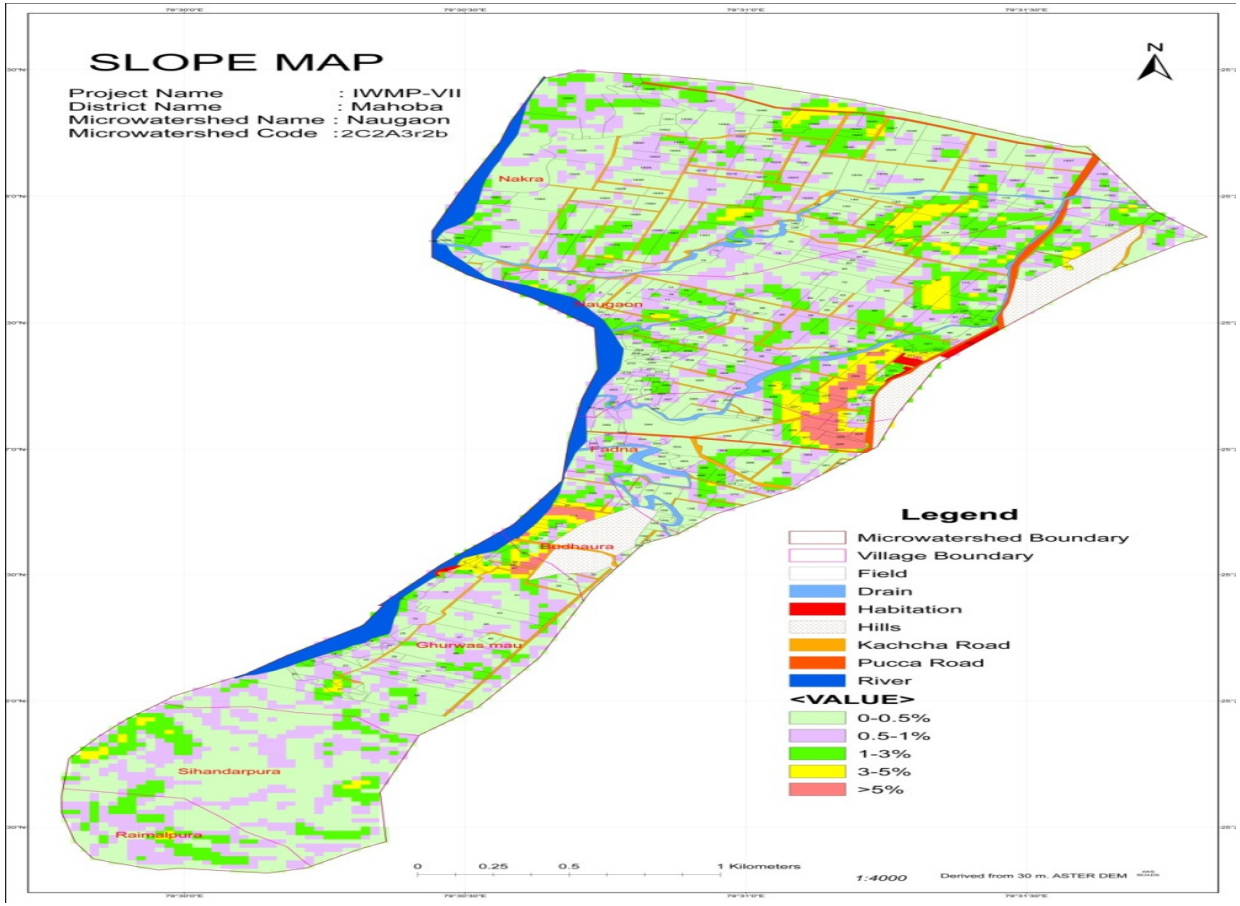

PROPOSED PLAN
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Nakra (Jakha)
Microwatershed Code : 2CA3b1e
N
Kharari
Nakra
Jakha
Naugaon
Kasari
Panwari
Budhaura
Paharpura
Saigarpura
Legend
Microwatershed Boundary
Village Boundary
Field
Drain/River
Habitation
Kachha Road
Pucca Road
Canal
Existing Structures
Proposed Structures/Interventions
0
0.45
0.9
1.8 Kilometers
1:4000

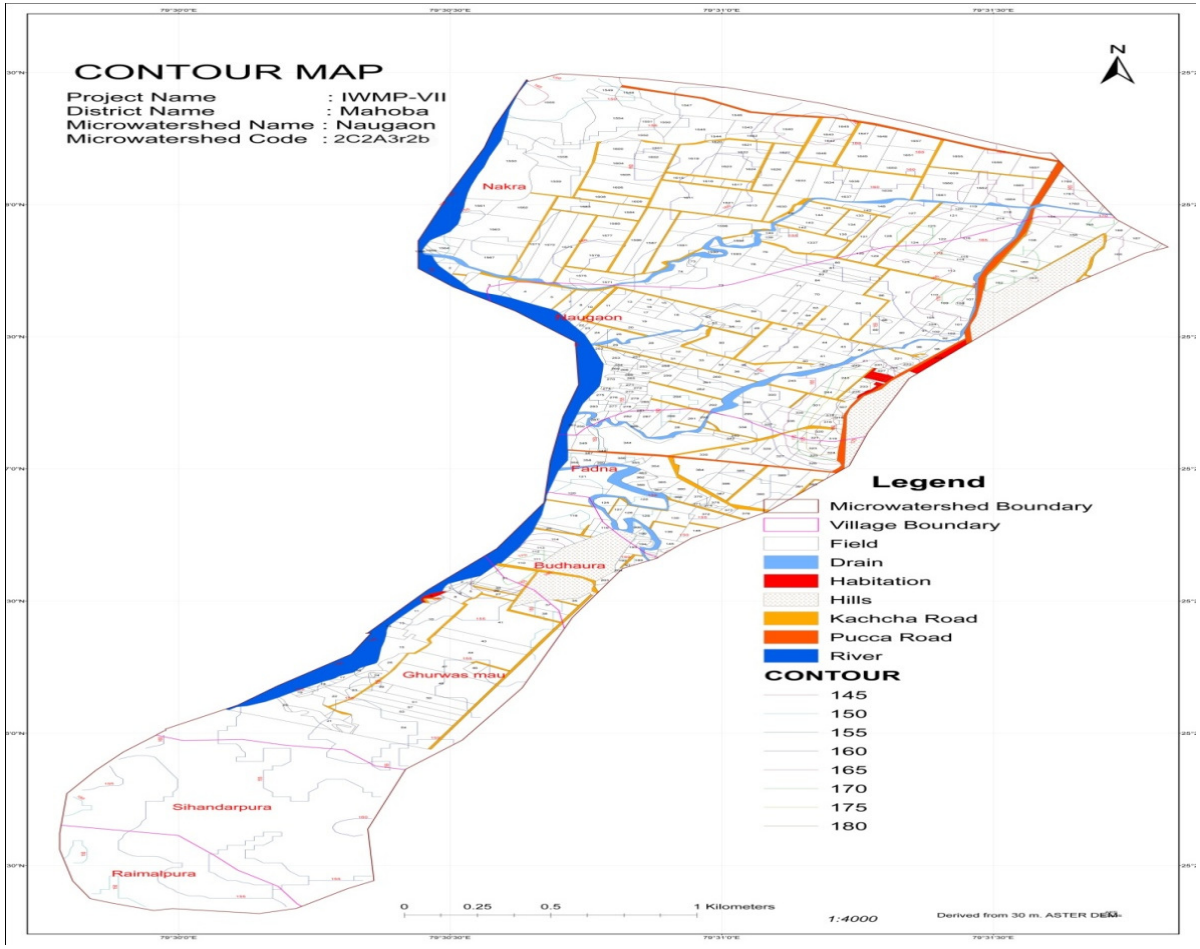

CADASTRAL MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Naugaon
Microwatershed Code : 2C2A3r2b
N
Nakra
Naugaon
Fadna
Budhaura
Ghurwas mau
Sihandarpura
Raimalpura
Legend
Microwatershed Boundary
Village Boundary
Field
Drain
Habitation
Historic Site
Kachcha Road
Pucca Road
River
0 0.25 0.5 1 Kilometers
1:4000

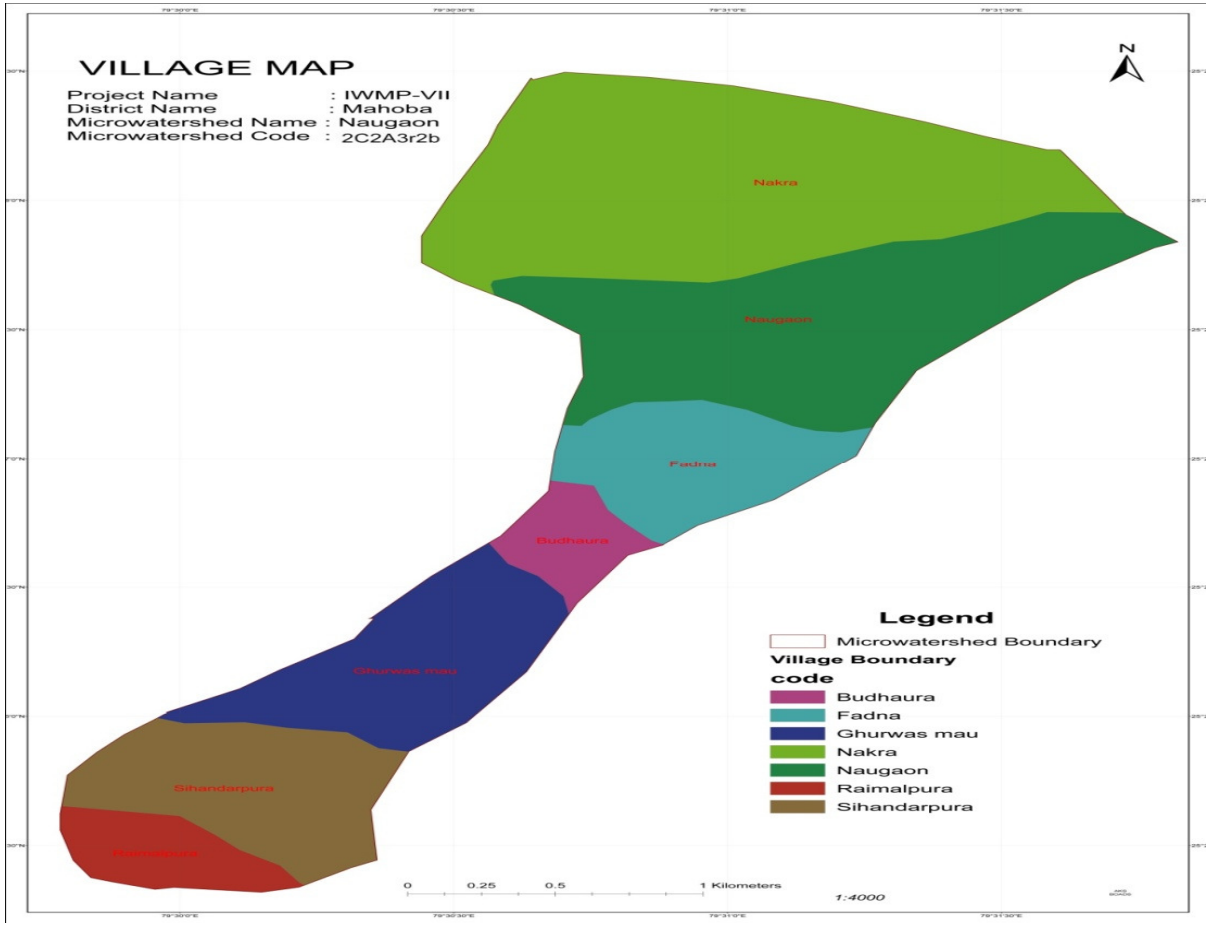

STANDARD FALSE COLOUR COMPOSITE (FCC)
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Naugaon
Microwatershed Code : 2C2A3r2b
N
Naugaon
Budhaura
Legend
Microwatershed Boundary
Village Boundary
Field
Drain
Habitation
Hills
Kachcha Road
Pucca Road
River
fcc
RGB
Red: Band_1
Green: Band_2
Blue: Band_3
0 0.25 0.5 1 Kilometers
1:4000
Source - Landsat TM data of dec-2010

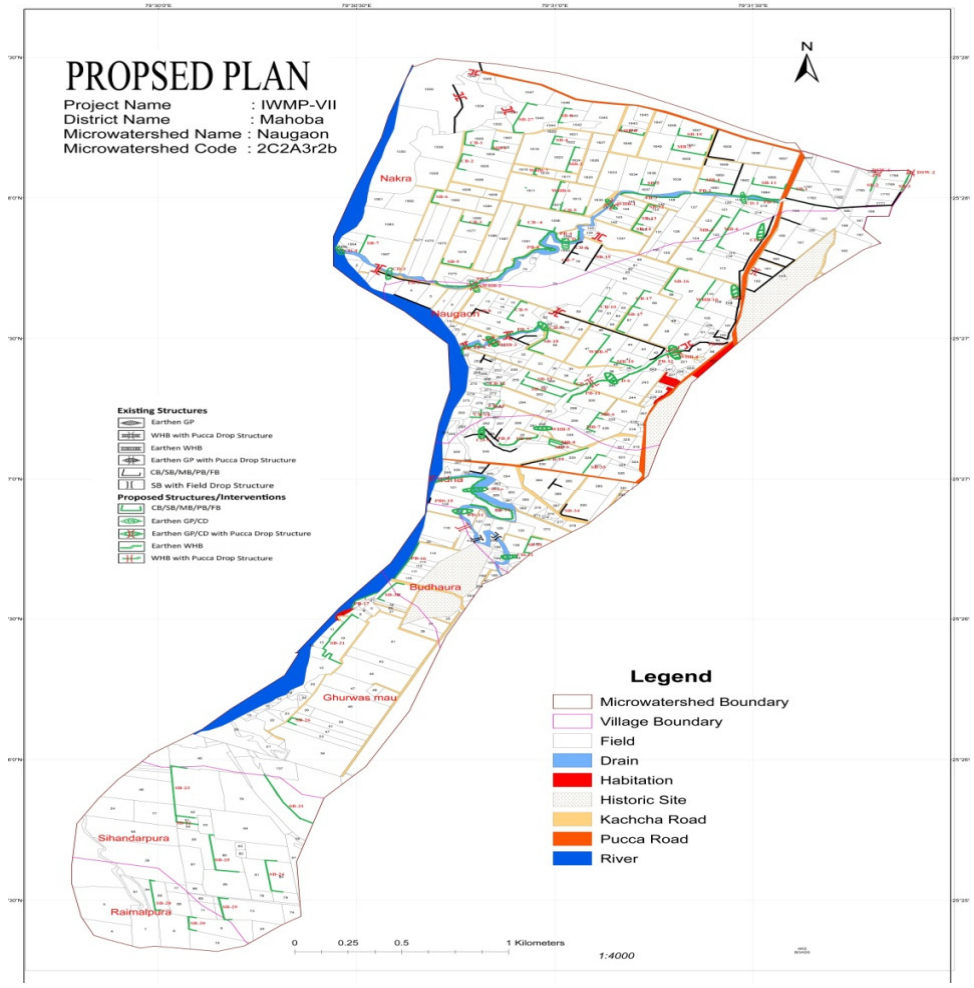

LANDUSE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Naugaon
Microwatershed Code : 2C2A3r2b
N
Nakra
Naugaon
Padna
Bindhaura
Ghurwas mau
Sihandarpura
Raimalpura
Legend
Microwatershed Boundary
Village Boundary
Field
Drain
Habitation
Hills
Kachcha Road
Pucca Road
River
0 0.25 0.5 1 Kilometers
1:4000

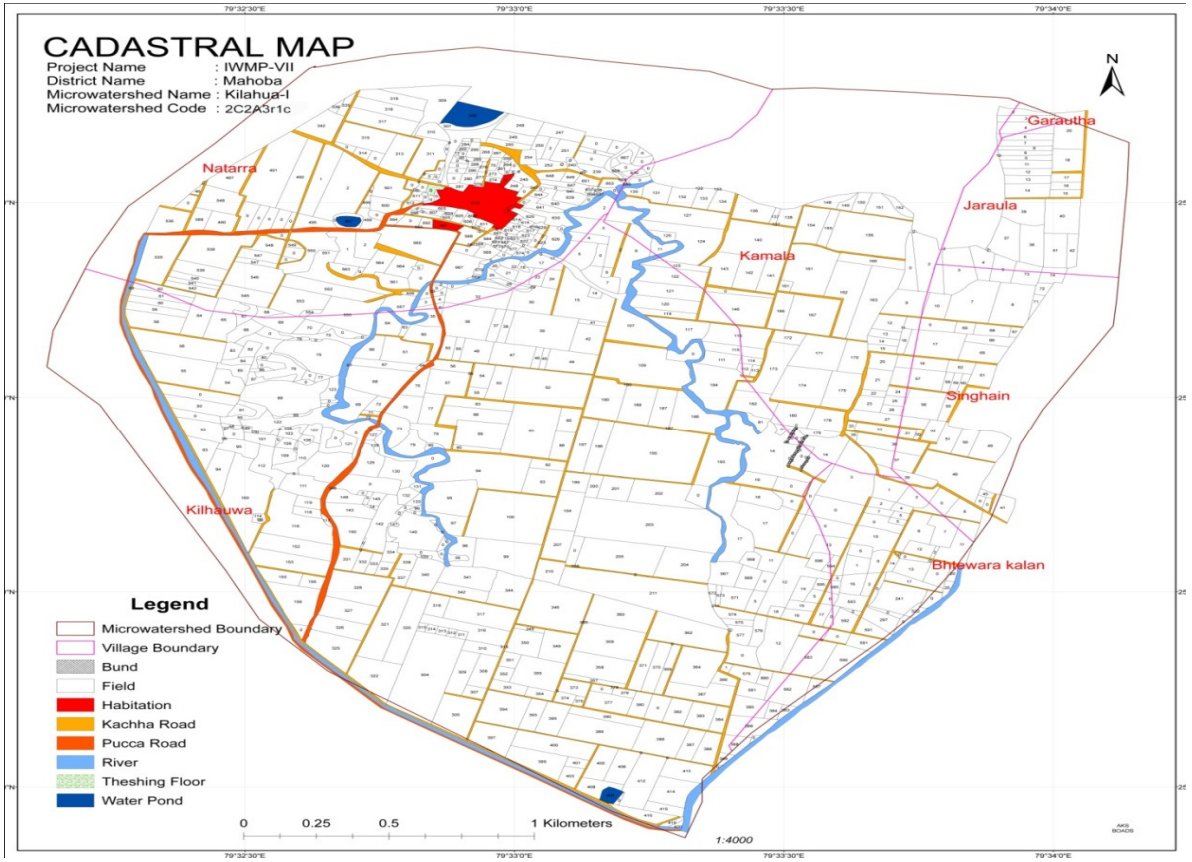

DIGITAL ELEVATION MODEL
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Naugaon
Microwatershed Code : 2C2A3r2b
N
Nakra
Naugaon
Fadna
Ghurwas mau
Sihandarpura
Raimalpura
Legend
Microwatershed Boundary
Village Boundary
Field
Drain
Habitation
Hills
Kachcha Road
Pucca Road
River
dem
Value
High : 183
Low : 144
0 0.25 0.5 1 Kilometers
1:4000
Source - ASTER DEM30m

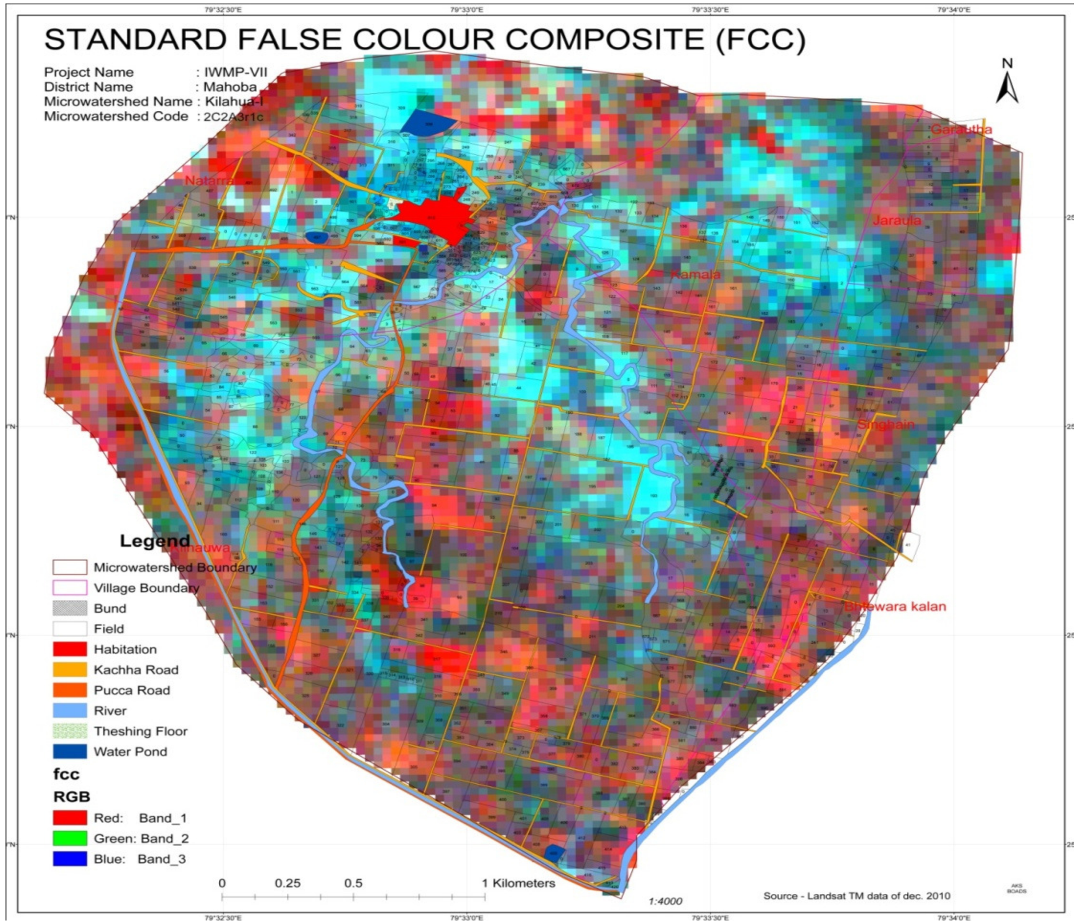

SLOPE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Naugaon
Microwatershed Code :2C2A3r2b
N
Nakra
Naugaon
Padna
Bedhaura
Ghurwas mau
Sihandarpura
Rainalpura
Legend
Microwatershed Boundary
Village Boundary
Field
Drain
Habitation
Hills
Kachcha Road
Pucca Road
River
<VALUE>
0-0.5%
0.5-1%
1-3%
3-5%
>5%
0
0.25
0.5
1 Kilometers
1:4000
Derived from 30 m. ASTER DEM


CONTOUR MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Naugaon
Microwatershed Code : 2C2A3r2b
N
Nakra
Naugaon
Padha
Budhaura
Ghurwas mau
Sihandarpura
Raimalpura
Legend
Microwatershed Boundary
Village Boundary
Field
Drain
Habitation
Hills
Kachcha Road
Pucca Road
River
CONTOUR
145
150
155
160
165
170
175
180
0 0.25 0.5 1 Kilometers
1:4000
Derived from 30 m. ASTER DEM

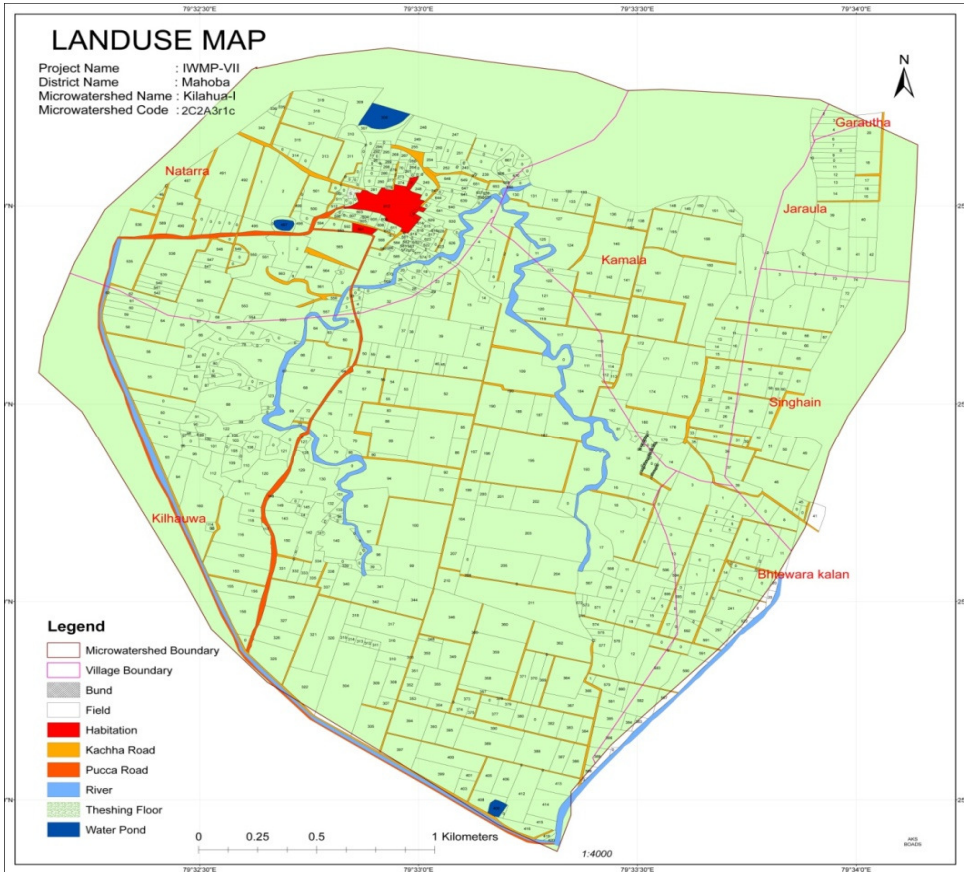

VILLAGE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Naugaon
Microwatershed Code : 2C2A3r2b
N
Nakra
Naugaon
Fadna
Budhaura
Ghurwas mau
Sihandarpura
Raimalpura
Legend
Microwatershed Boundary
Village Boundary
code
Budhaura
Fadna
Ghurwas mau
Nakra
Naugaon
Raimalpura
Sihandarpura
0 0.25 0.5 1 Kilometers
1:4000

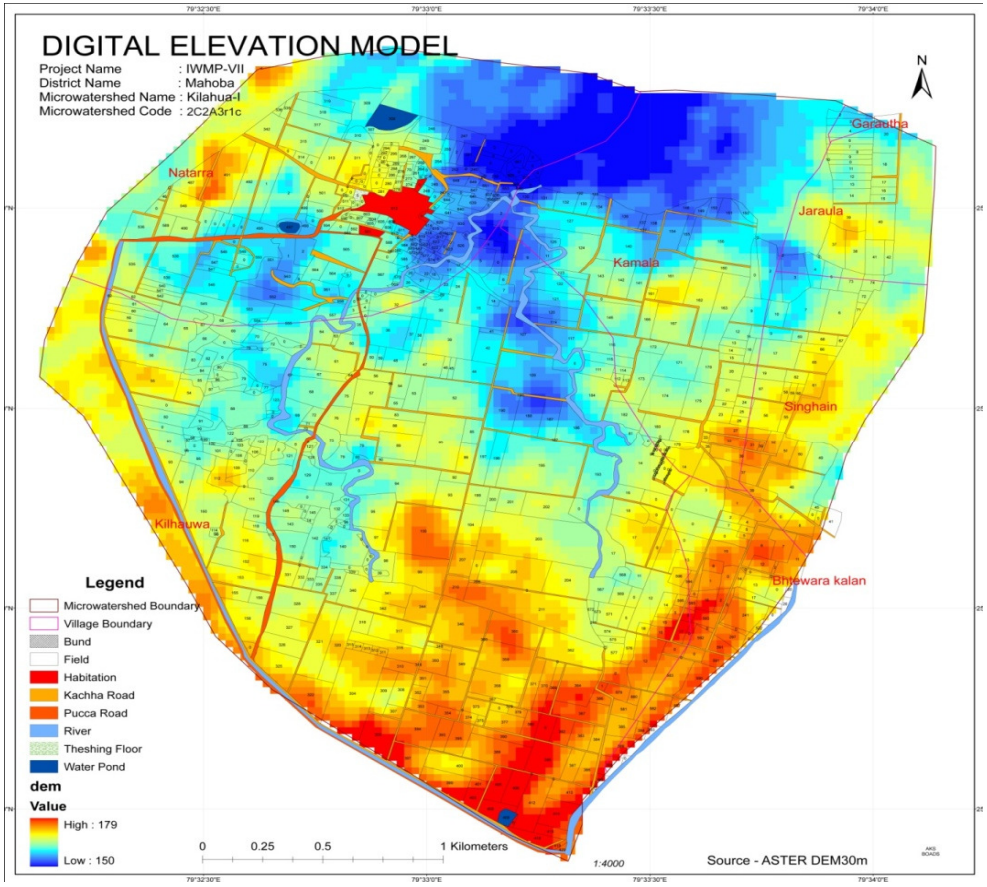

PROPSED PLAN
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Naugaon
Microwatershed Code : 2C2A3r2b
N
Nakra
Naugaon
Budhaura
Ghurwas mau
Sihandarpura
Raimalpura
Existing Structures
Earthen GP
WHB with Pucca Drop Structure
Earthen WHB
Earthen GP with Pucca Drop Structure
CB/SB/MB/PB/FB
SB with Field Drop Structure
Proposed Structures/Interventions
CB/SB/MB/PB/FB
Earthen GP/CD
Earthen GP/CD with Pucca Drop Structure
Earthen WHB
WHB with Pucca Drop Structure
Legend
Microwatershed Boundary
Village Boundary
Field
Drain
Habitation
Historic Site
Kachcha Road
Pucca Road
River
0 0.25 0.5 1 Kilometers
1:4000

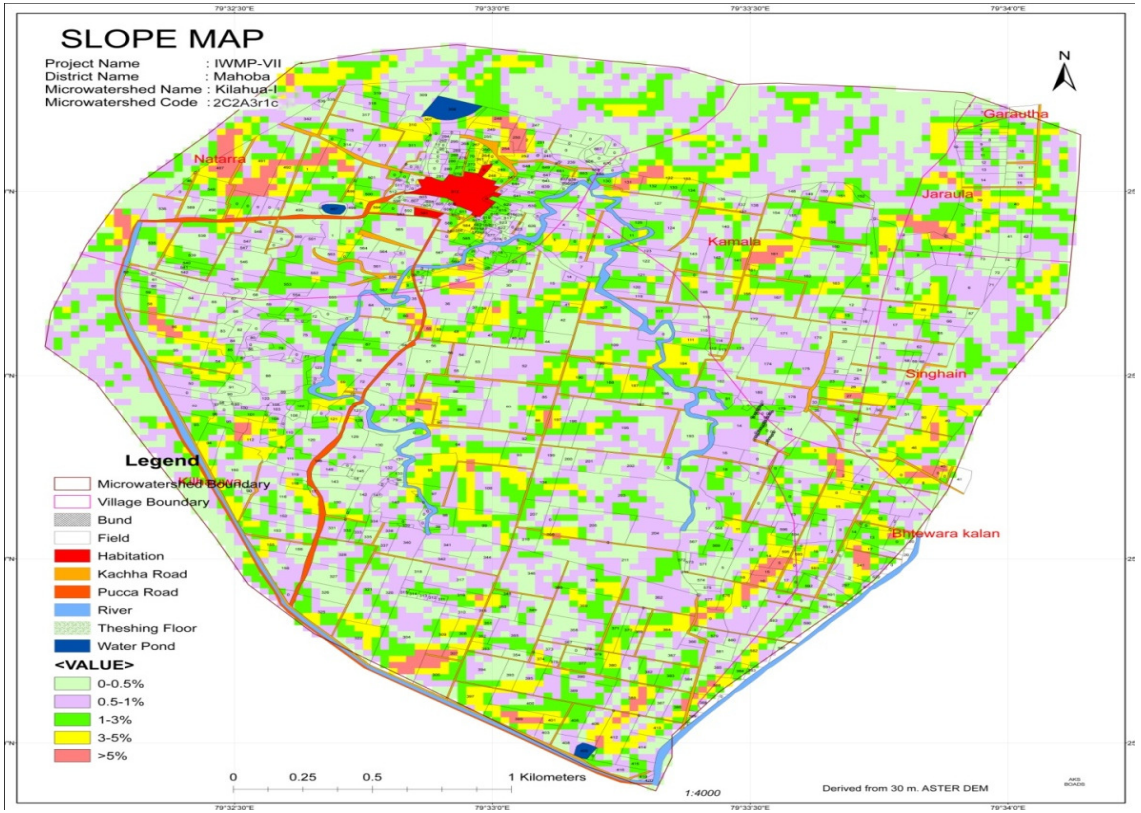

CADASTRAL MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Kilahua-I
Microwatershed Code : 2C2A3r1c
N
Garautha
Natarra
Jaraula
Kamala
Singhain
Kilhauwa
Bhiewara kalan
Legend
Microwatershed Boundary
Village Boundary
Bund
Field
Habitation
Kachha Road
Pucca Road
River
Theshing Floor
Water Pond
0 0.25 0.5 1 Kilometers
1:4000
79°32'30"E
79°33'0"E
79°33'30"E
79°34'0"E

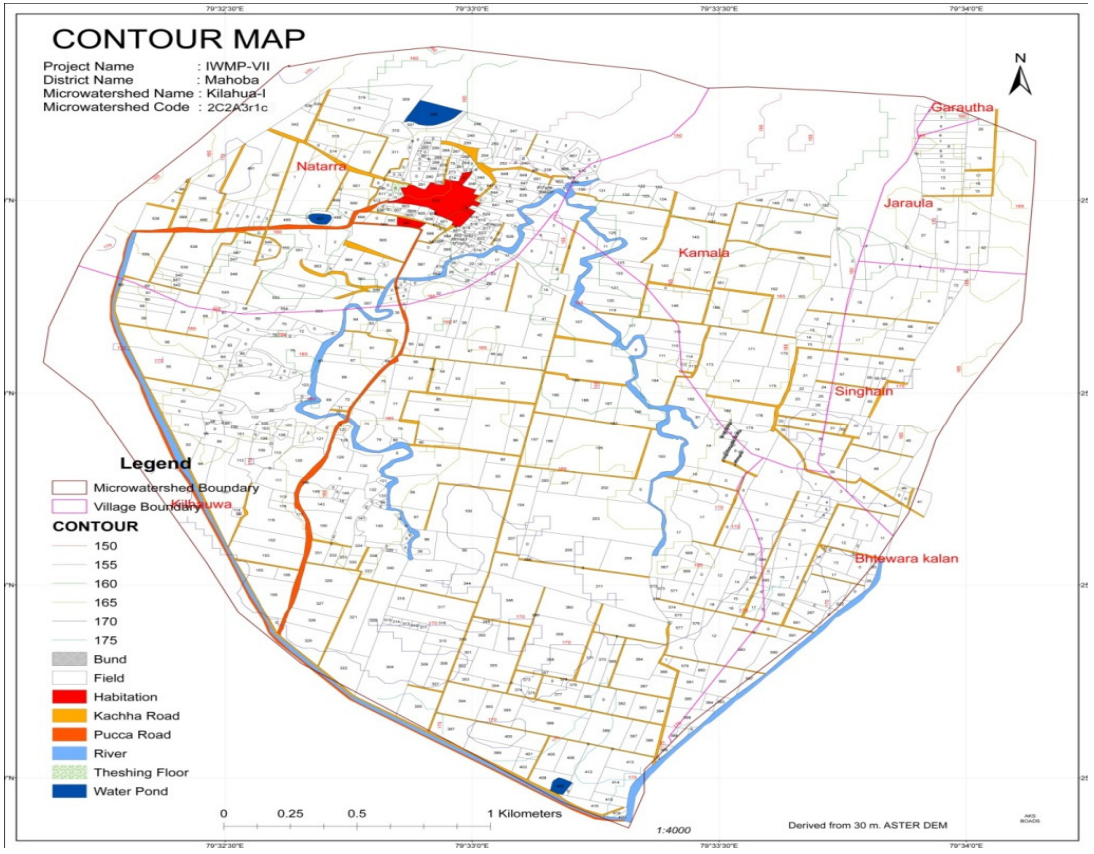


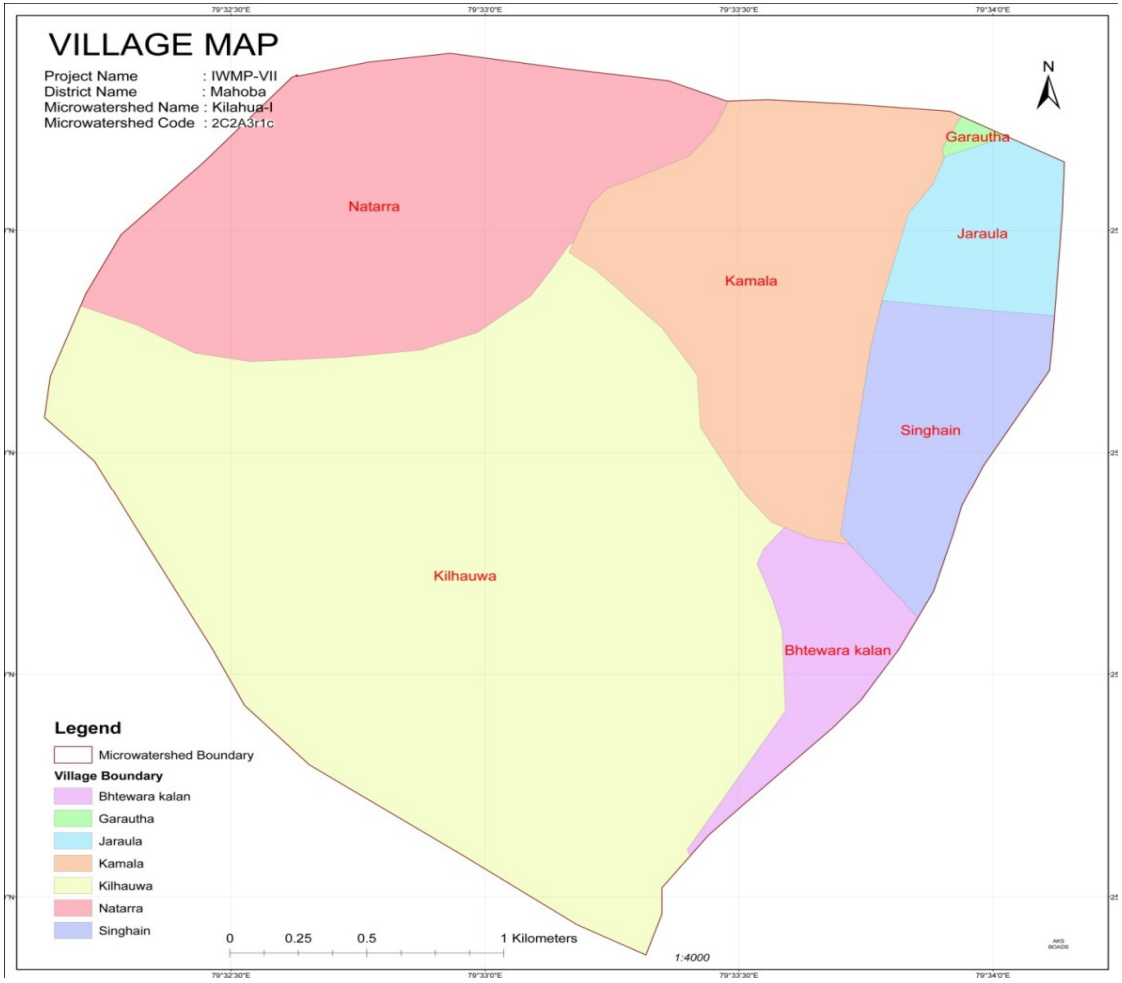
STANDARD FALSE COLOUR COMPOSITE (FCC)
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Kilahua-I
Microwatershed Code : 2C2A3r1c
Jaraula
Kamala
Singhain
Legend
Microwatershed Boundary
Village Boundary
Bund
Field
Habitation
Kachha Road
Pucca Road
River
Theshing Floor
Water Pond
fcc
RGB
Red: Band_1
Green: Band_2
Blue: Band_3
0 0.25 0.5 1 Kilometers
1:4000
Source - Landsat TM data of dec. 2010

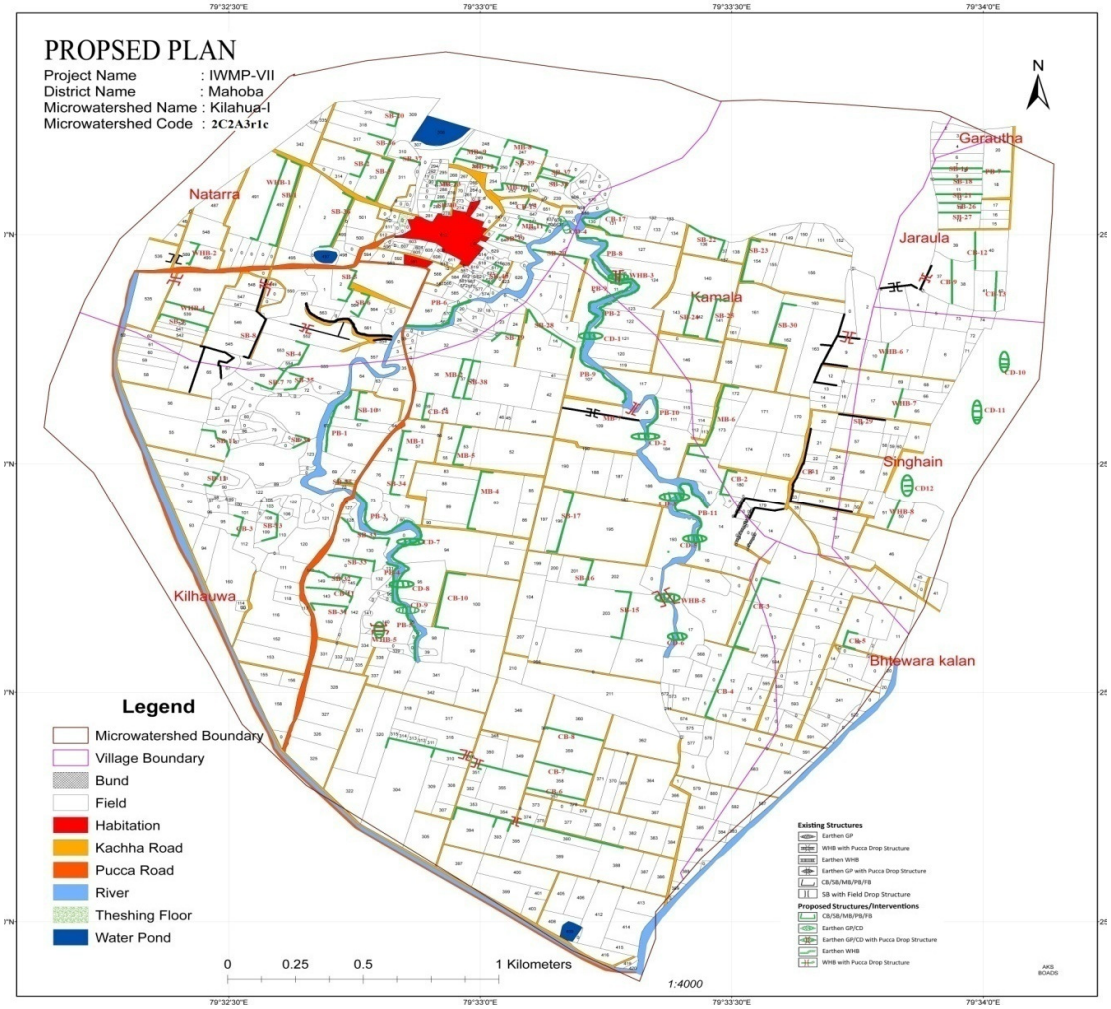

LANDUSE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Kilahua-I
Microwatershed Code : 2C2A3r1c
N
Garautha
Natarra
Jaraula
Kamala
Singhain
Kilhauwa
Bhiowara kalan
Legend
Microwatershed Boundary
Village Boundary
Bund
Field
Habitation
Kachha Road
Pucca Road
River
Theshing Floor
Water Pond
0 0.25 0.5 1 Kilometers
1:4000

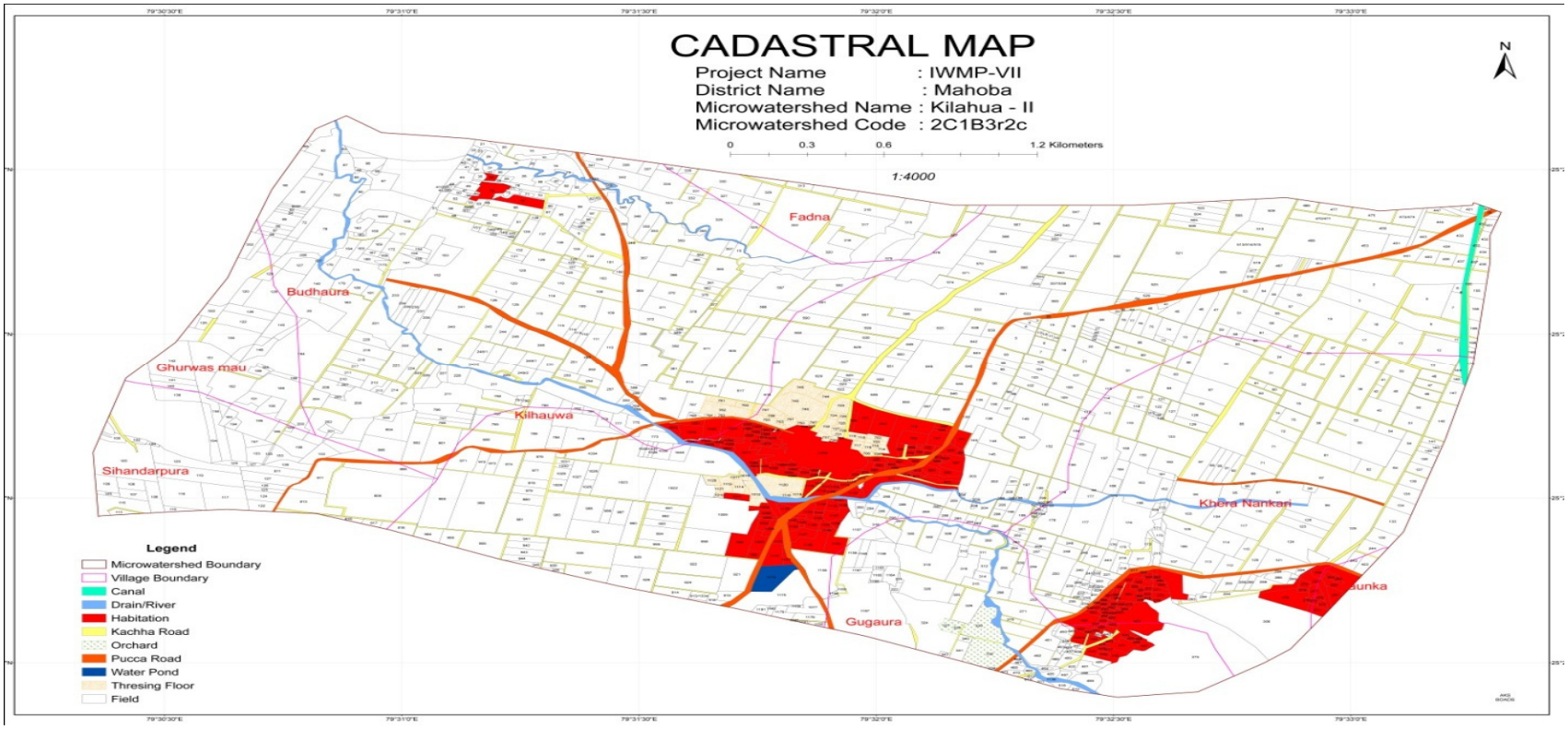

DIGITAL ELEVATION MODEL
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Kilahua-I
Microwatershed Code : 2C2A3r1c
N
Garaatha
Natarra
Jaraula
Kamala
Singhain
Kilhauwa
Bhiewara kalan
Legend
Microwatershed Boundary
Village Boundary
Bund
Field
Habitation
Kachha Road
Pucca Road
River
Theshing Floor
Water Pond
dem
Value
High : 179
Low : 150
0 0.25 0.5 1 Kilometers
1:4000
Source - ASTER DEM30m

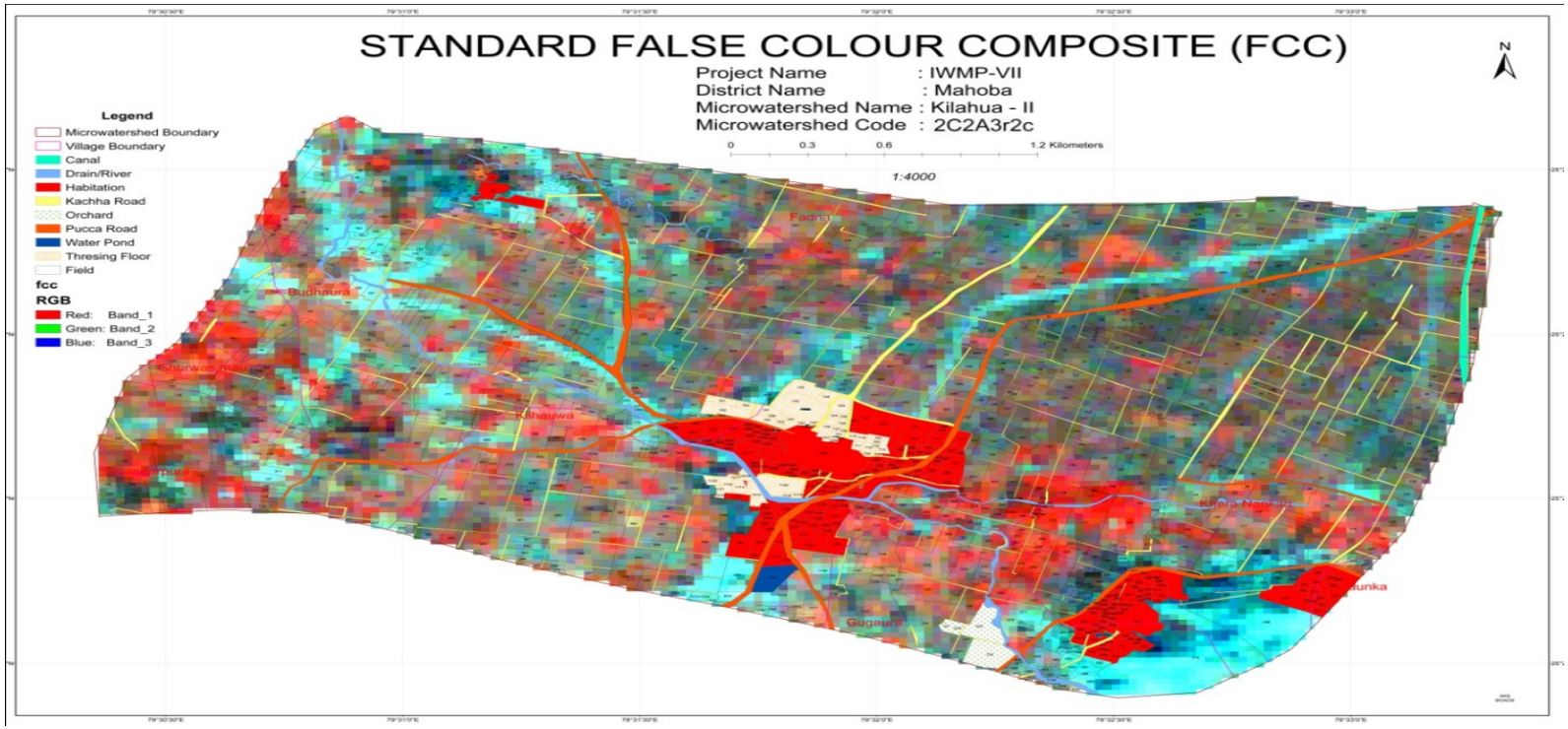

SLOPE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Kilahua-I
Microwatershed Code : 2C2A3r1c
N
Garautha
Natana
Jaraura
Kamala
Singhain
Bhiwara kalan
Legend
Microwatershed Boundary
Village Boundary
Bund
Field
Habitation
Kachha Road
Pucca Road
River
Theshing Floor
Water Pond
<VALUE>
0-0.5%
0.5-1%
1-3%
3-5%
>5%
0 0.25 0.5 1 Kilometers
1:4000
Derived from 30 m. ASTER DEM

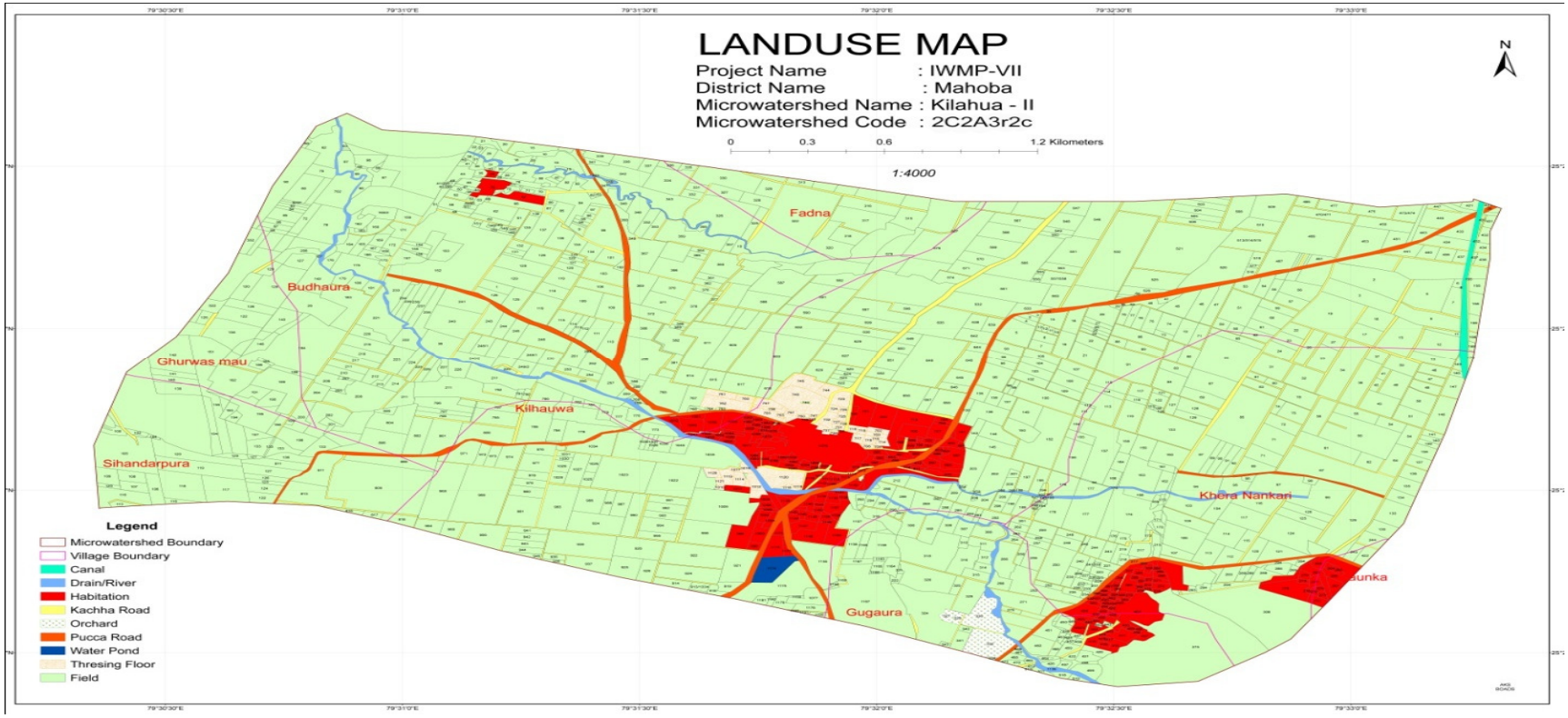

CONTOUR MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Kilahua-I
Microwatershed Code : 2C2A3r1c
N
Garautha
Natarra
Jaraula
Kamala
Singhain
Kilhauwa
Bhiewara kalan
Legend
Microwatershed Boundary
Village Boundary
CONTOUR
150
155
160
165
170
175
Bund
Field
Habitation
Kachha Road
Pucca Road
River
Theshing Floor
Water Pond
0 0.25 0.5 1 Kilometers
1:4000
Derived from 30 m. ASTER DEM

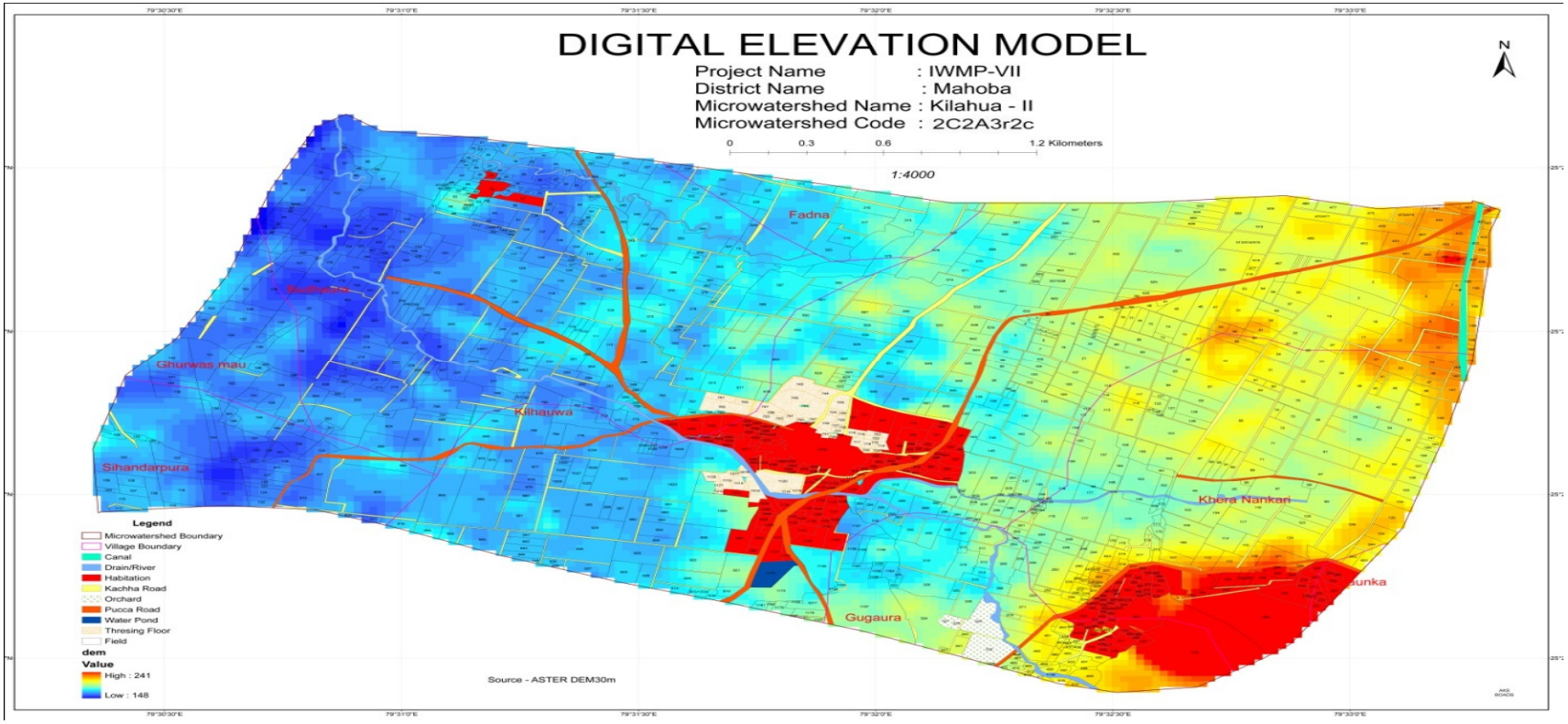

VILLAGE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Kilahua-I
Microwatershed Code : 2C2A3r1c
N
Natarra
Garautha
Jaraula
Kamala
Singhain
Kilhauwa
Bhtewara kalan
Legend
Microwatershed Boundary
Village Boundary
Bhtewara kalan
Garautha
Jaraula
Kamala
Kilhauwa
Natarra
Singhain
0 0.25 0.5 1 Kilometers
1:4000

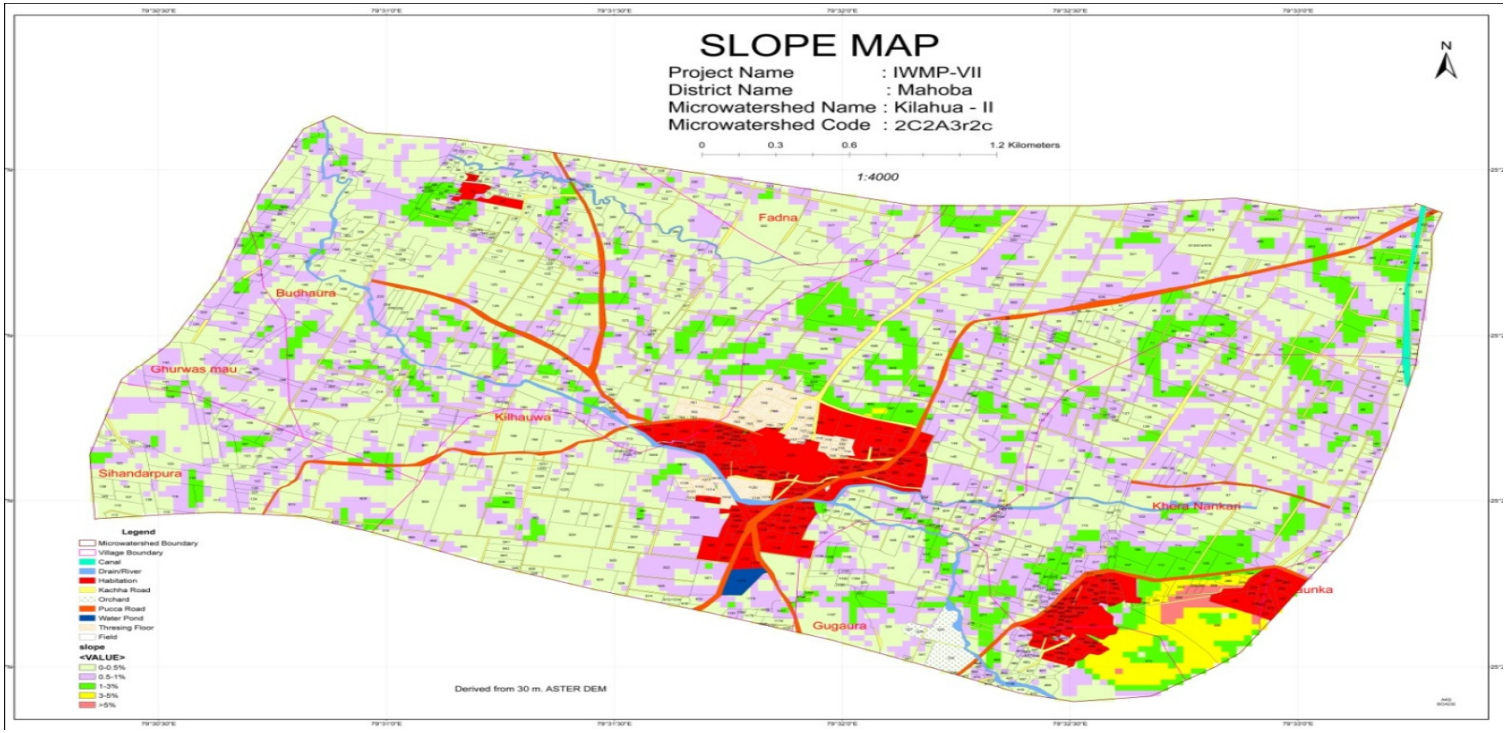

PROPSED PLAN
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Kilahua-I
Microwatershed Code : 2C2A3r1c
N
Natarra
Garautha
Jaraula
Kamala
Singhain
Kilhauwa
Bhiewara kalan
Legend
Microwatershed Boundary
Village Boundary
Bund
Field
Habitation
Kachha Road
Pucca Road
River
Theshing Floor
Water Pond
0 0.25 0.5 1 Kilometers
1:4000
Existing Structures
Earthen GP
WHB with Pucca Drop Structure
Earthen WHB
Earthen GP with Pucca Drop Structure
CB/SB/MB/PB/FB
SB with Field Drop Structure
Proposed Structures/Interventions
CB/SB/MB/PB/FB
Earthen GP/CD
Earthen GP/CD with Pucca Drop Structure
Earthen WHB
WHB with Pucca Drop Structure
AKS BOADS
79°32'30"E
79°33'0"E
79°33'30"E
79°34'0"E

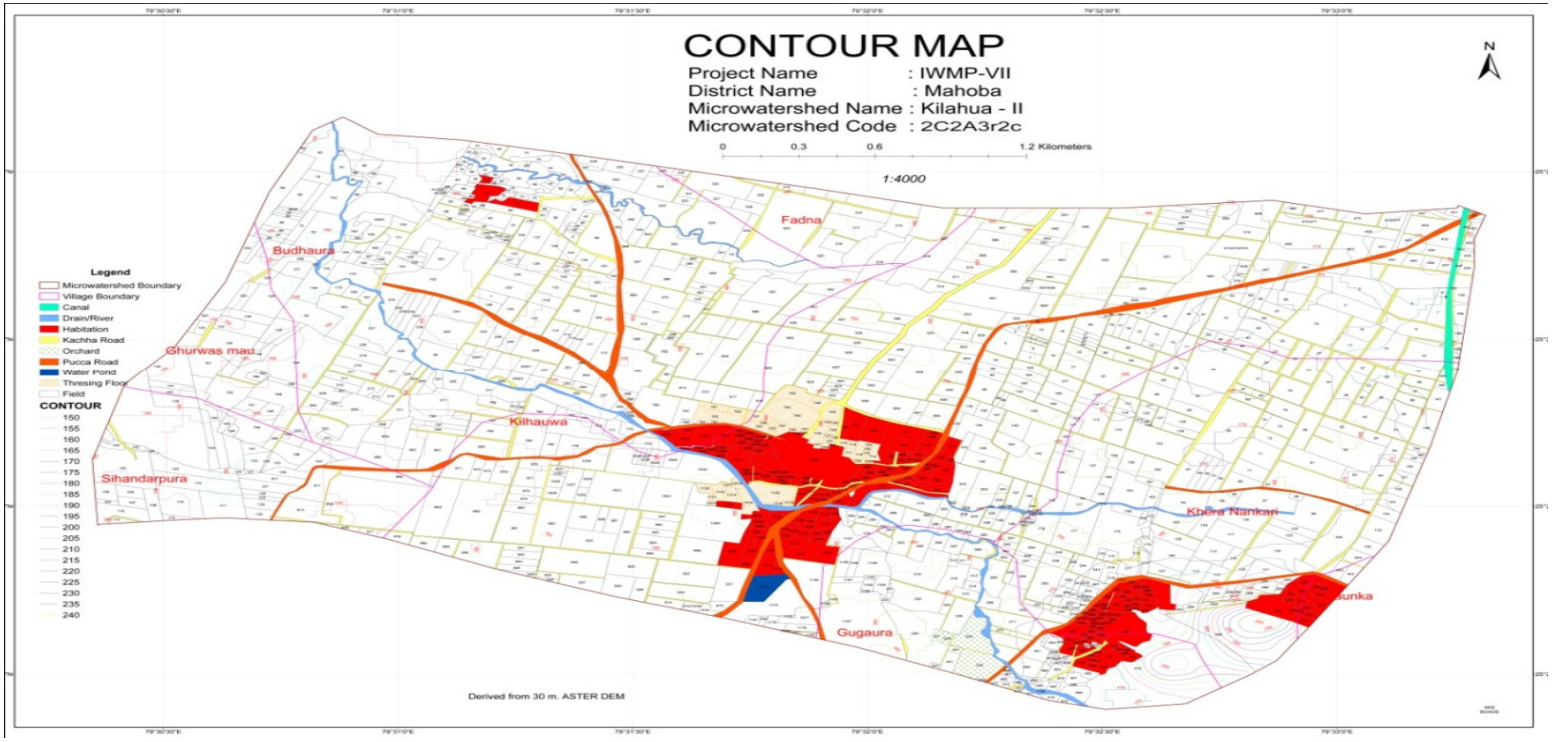

CADASTRAL MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Kilahua - II
Microwatershed Code : 2C1B3r2c
0 0.3 0.6 1.2 Kilometers
1:4000
N
Fadna
Budhaura
Ghurwas mau
Kilhauwa
Sihandarpura
Khera Nankari
Gugaura
Legend
Microwatershed Boundary
Village Boundary
Canal
Drain/River
Habitation
Kachha Road
Orchard
Pucca Road
Water Pond
Thresing Floor
Field

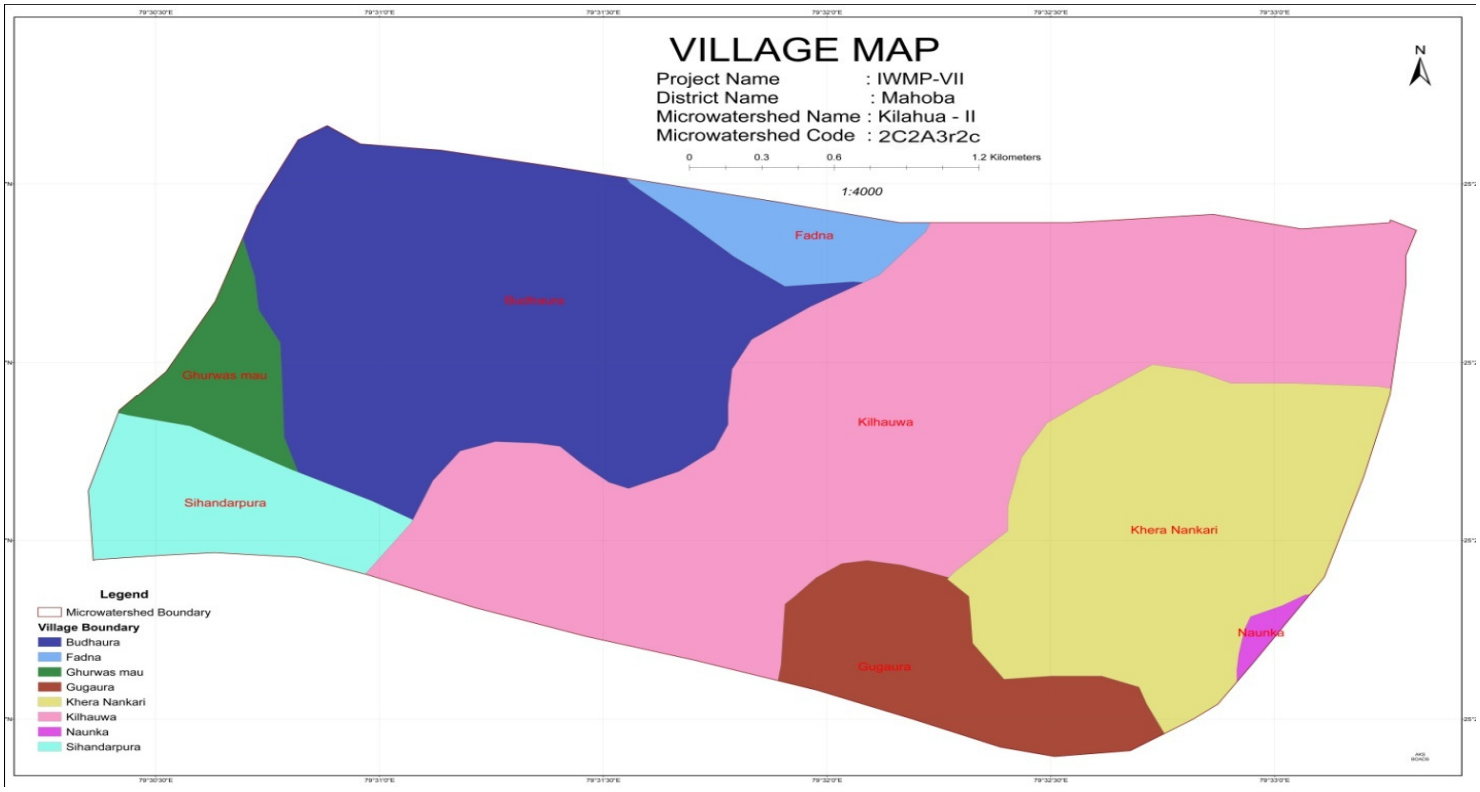

STANDARD FALSE COLOUR COMPOSITE (FCC)
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Kilahua - II
Microwatershed Code : 2C2A3r2c
0 0.3 0.6 1.2 Kilometers
1:4000
N
Legend
Microwatershed Boundary
Village Boundary
Canal
Drain/River
Habitation
Kachha Road
Orchard
Pucca Road
Water Pond
Thresing Floor
Field
fcc
RGB
Red: Band_1
Green: Band_2
Blue: Band_3
Gudhaura
Kilhauwa
Gugaura

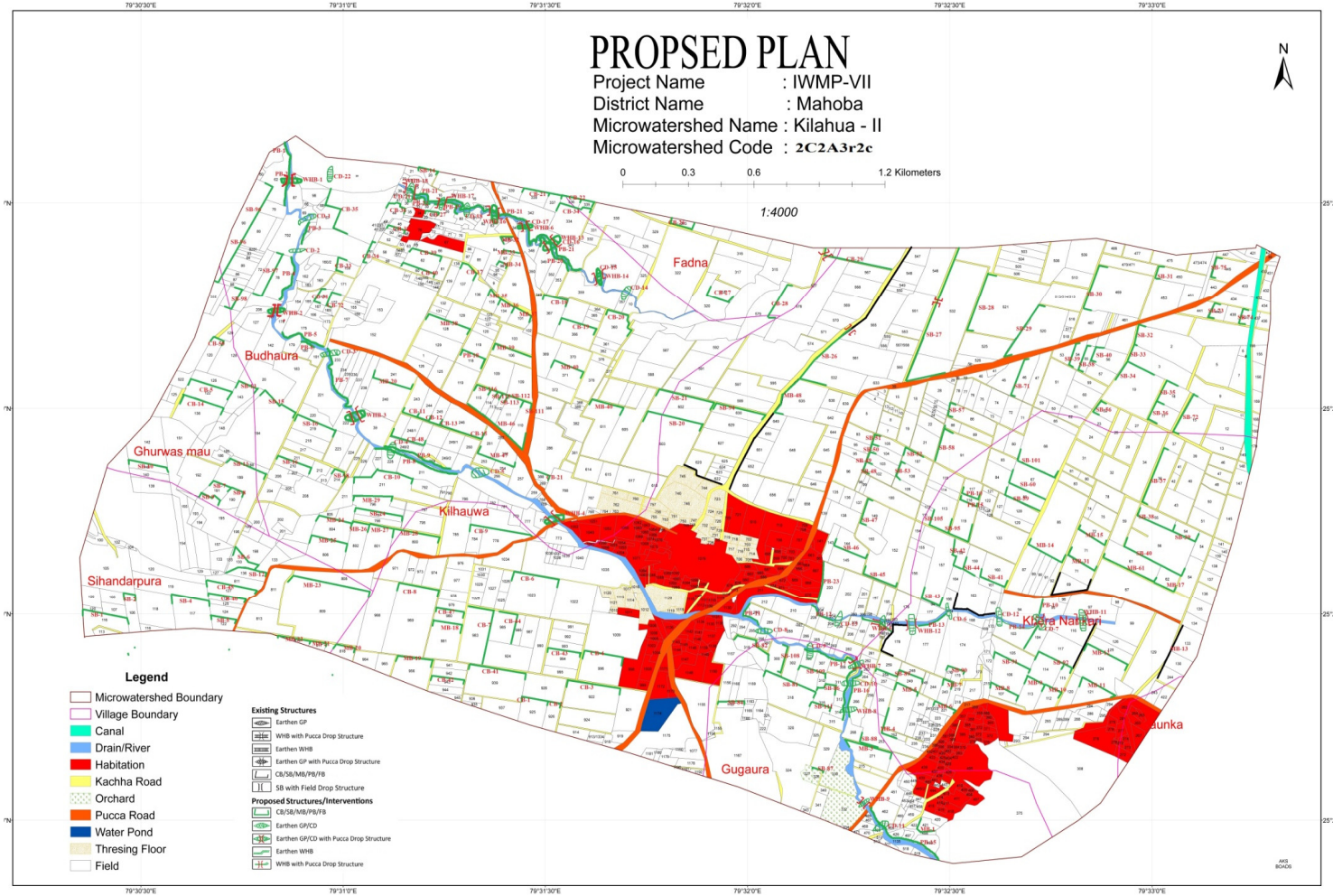

LANDUSE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Kilahua - II
Microwatershed Code : 2C2A3r2c
0 0.3 0.6 1.2 Kilometers
1:4000
N
Fadna
Budhaura
Ghurwas mau
Kilhauwa
Sihandarpura
Khera Nankari
Gugaura
Legend
Microwatershed Boundary
Village Boundary
Canal
Drain/River
Habitation
Kachha Road
Orchard
Pucca Road
Water Pond
Thresing Floor
Field

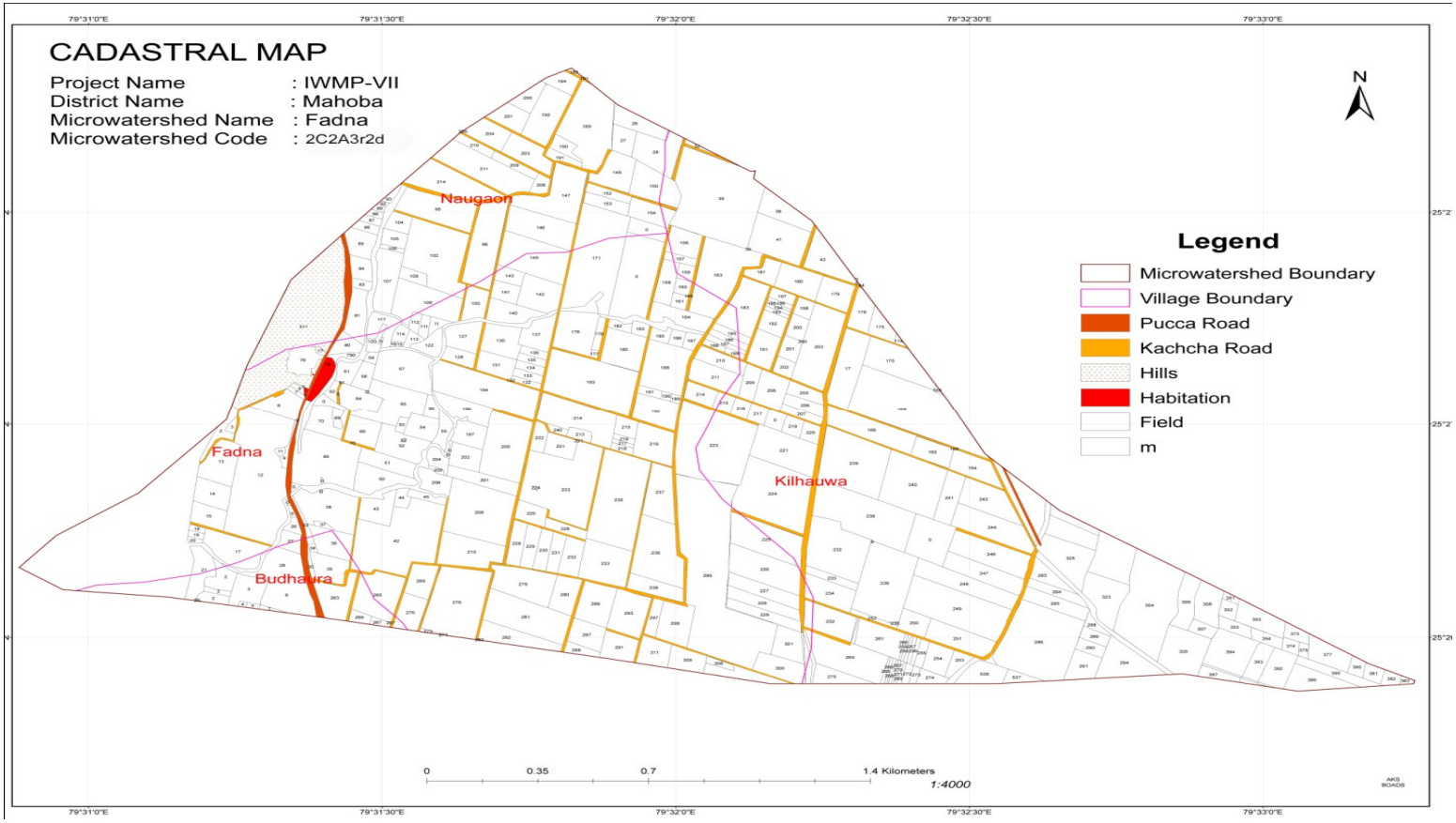

DIGITAL ELEVATION MODEL
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Kilahua - II
Microwatershed Code : 2C2A3r2c
0 0.3 0.6 1.2 Kilometers
1:4000
N
Fadna
Ghurwas mau
Kilhauwa
Sihandarpura
Khera Nankari
Gugaura
Legend
Microwatershed Boundary
Village Boundary
Canal
Drain/River
Habitation
Kachha Road
Orchard
Pucca Road
Water Pond
Threshing Floor
Field
dem
Value
High : 241
Low : 148
Source - ASTER DEM30m

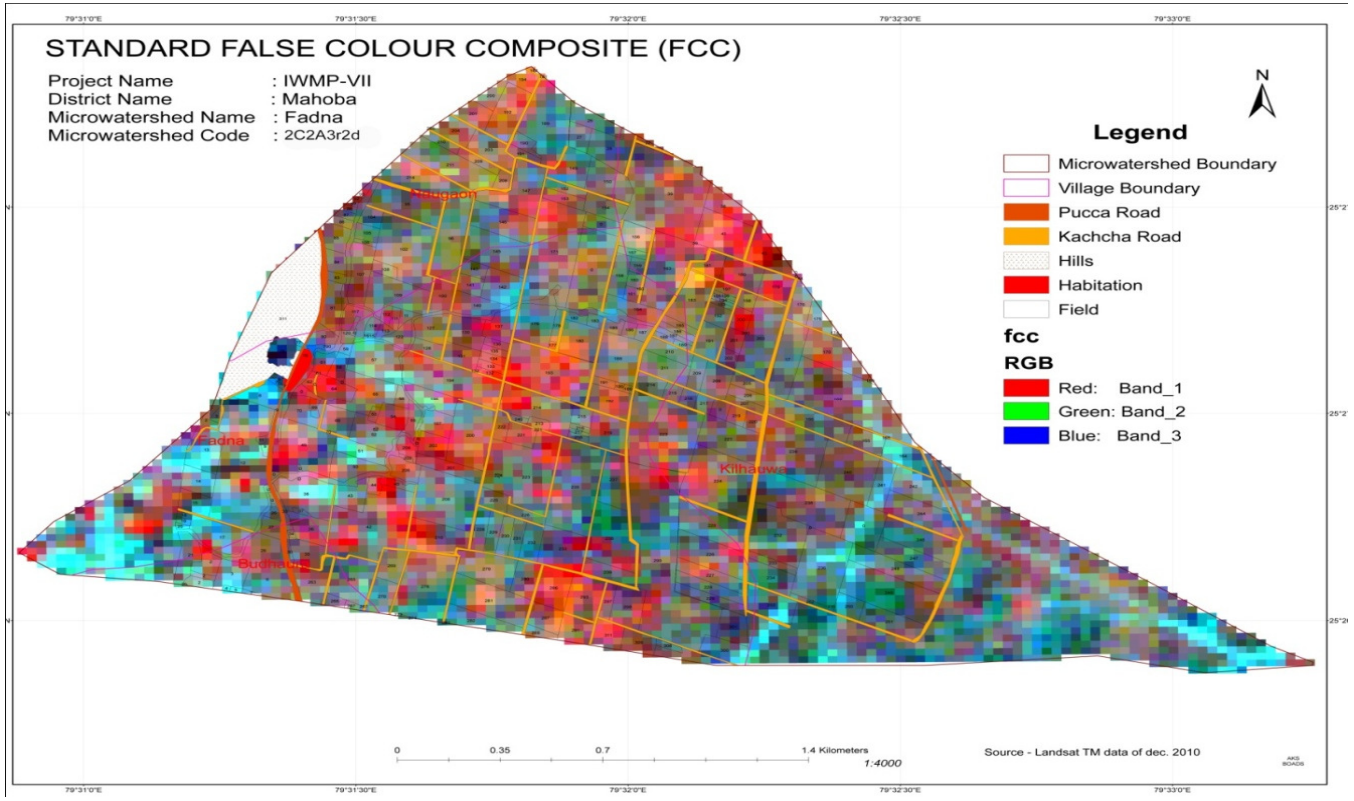

SLOPE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Kilahua - II
Microwatershed Code : 2C2A3r2c
0 0.3 0.6 1.2 Kilometers
1:4000
N
Fadna
Budhaura
Ghurwas mau
Kilhauwa
Sihandarpura
Khera Nankari
Gugaura
Derived from 30 m. ASTER DEM
Legend
Microwatershed Boundary
Village Boundary
Canal
Drain/River
Habitation
Kachha Road
Orchard
Pucca Road
Water Pond
Threshing Floor
Field
slope
<VALUE>
0-0.5%
0.5-1%
1-3%
3-5%
>5%

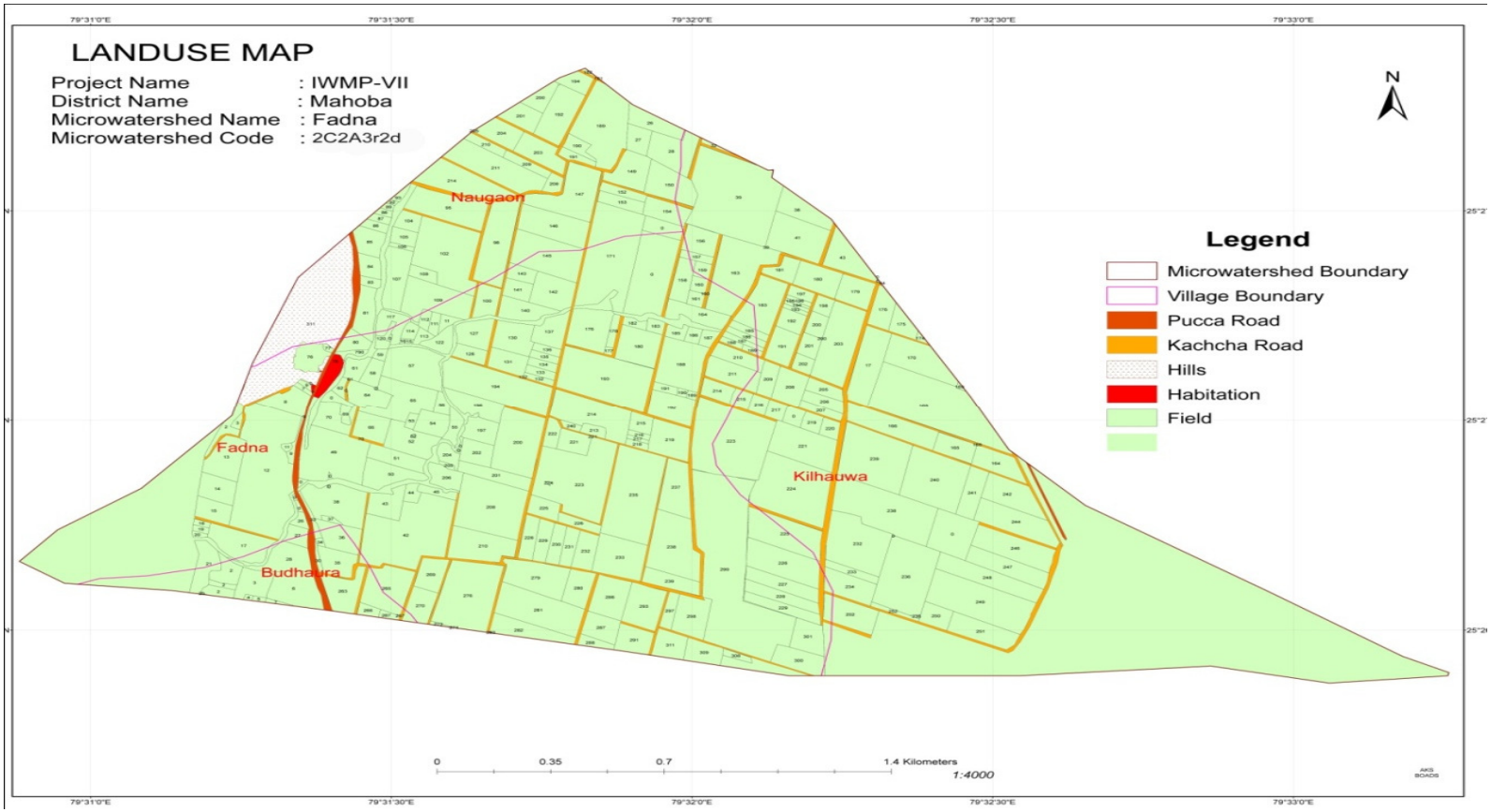

CONTOUR MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Kilahua - II
Microwatershed Code : 2C2A3r2c
0 0.3 0.6 1.2 Kilometers
1:4000
N
Legend
Microwatershed Boundary
Village Boundary
Canal
Drain/River
Habitation
Kachha Road
Orchard
Pucca Road
Water Pond
Thresing Floor
Field
CONTOUR
150
155
160
165
170
175
180
185
190
195
200
205
210
215
220
225
230
235
240
Budhaura
Fadna
Ghurwas mau
Kilhauwa
Sihandarpura
Khera Nankari
Gugaura
Derived from 30 m. ASTER DEM

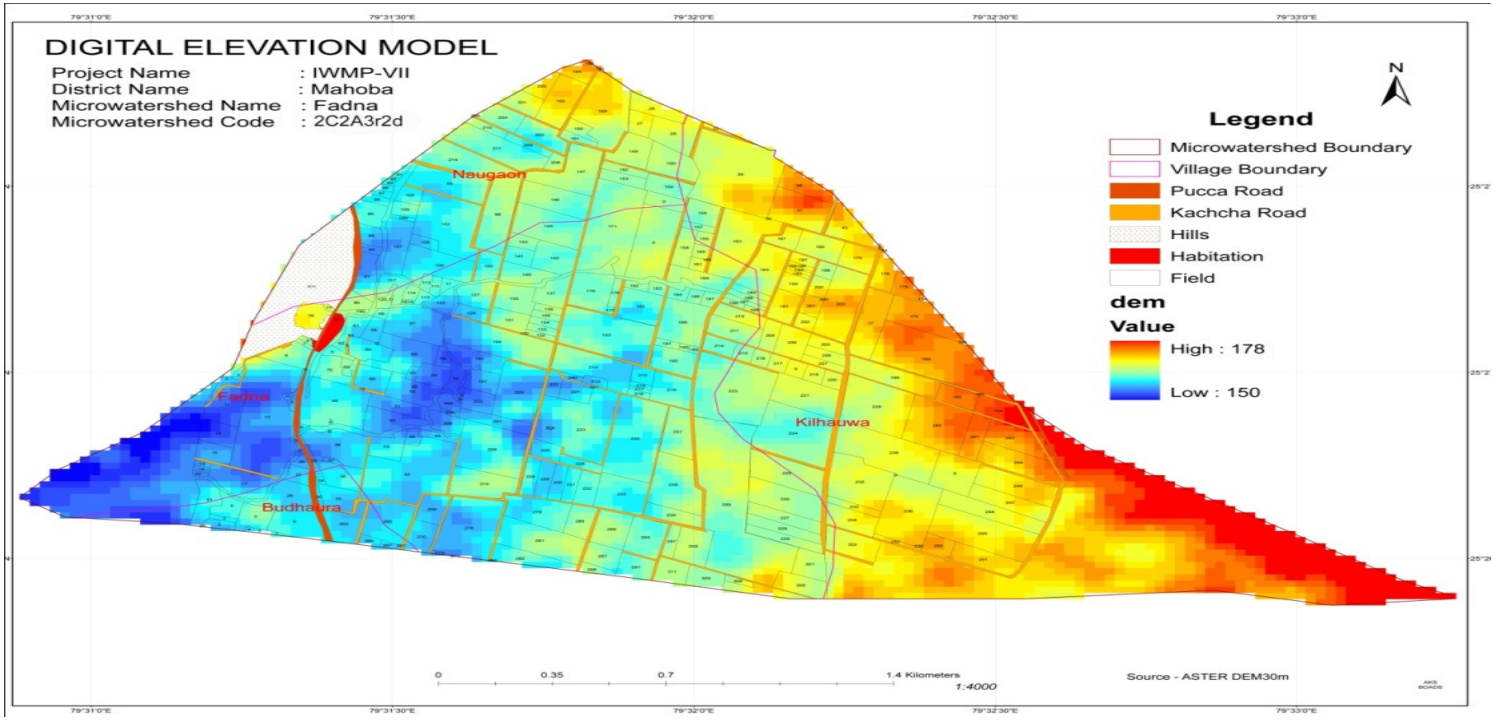

VILLAGE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Kilahua - II
Microwatershed Code : 2C2A3r2c
0 0.3 0.6 1.2 Kilometers
1:4000
N
Fadna
Budhaura
Ghurwas mau
Kilhauwa
Sihandarpura
Khera Nankari
Naunka
Gugaura
Legend
Microwatershed Boundary
Village Boundary
Budhaura
Fadna
Ghurwas mau
Gugaura
Khera Nankari
Kilhauwa
Naunka
Sihandarpura

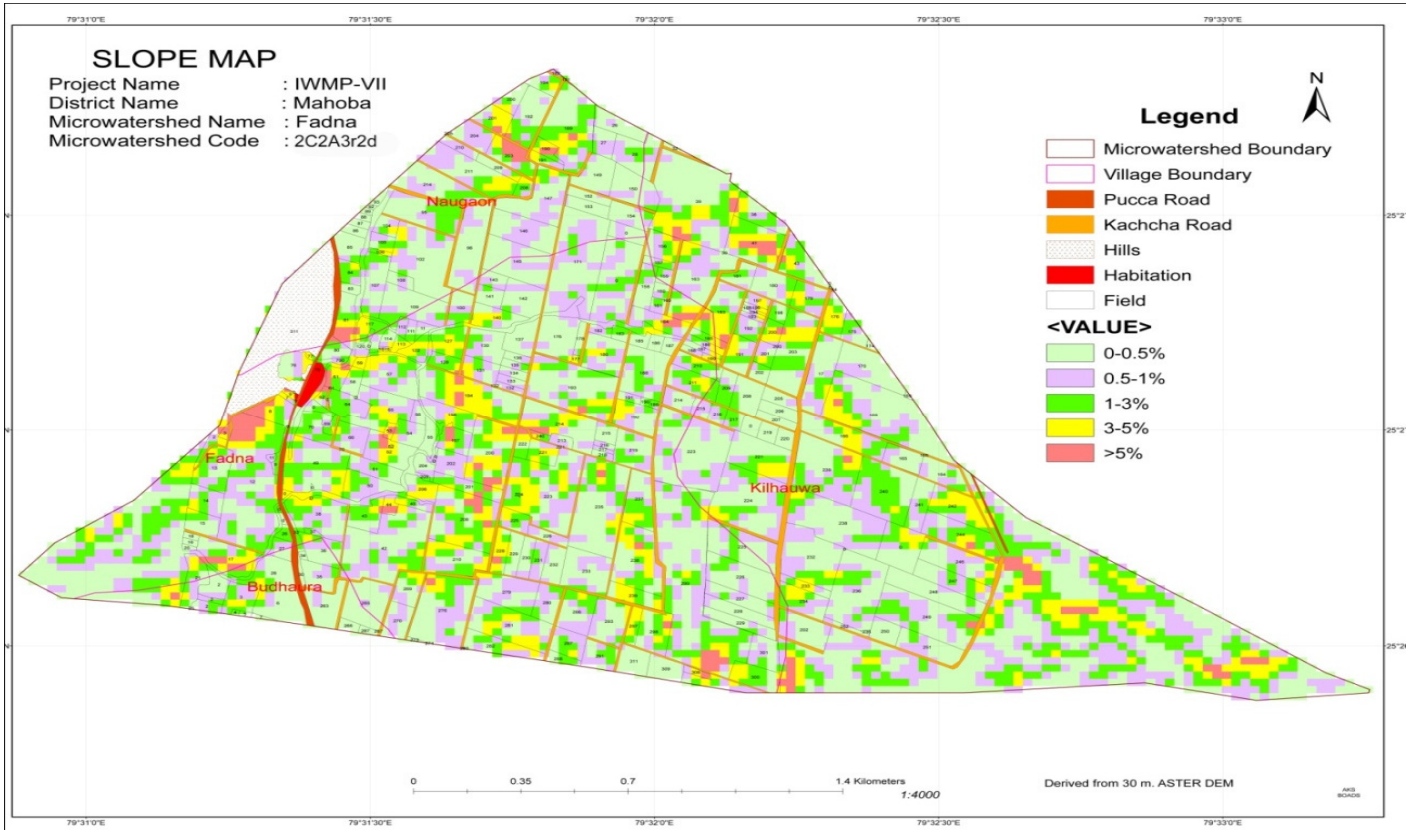

PROPSED PLAN
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Kilahua - II
Microwatershed Code : 2C2A3r2c
0 0.3 0.6 1.2 Kilometers
1:4000
N
Fadna
Budhaura
Ghurwas mau
Kilhauwa
Sihandarpura
Khera Nankari
Gugaura
Legend
Microwatershed Boundary
Village Boundary
Canal
Drain/River
Habitation
Kachha Road
Orchard
Pucca Road
Water Pond
Threshing Floor
Field
Existing Structures
Earthen GP
WHB with Pucca Drop Structure
Earthen WHB
Earthen GP with Pucca Drop Structure
CB/SB/MB/PB/FB
SB with Field Drop Structure
Proposed Structures/Interventions
CB/SB/MB/PB/FB
Earthen GP/CD
Earthen GP/CD with Pucca Drop Structure
Earthen WHB
WHB with Pucca Drop Structure

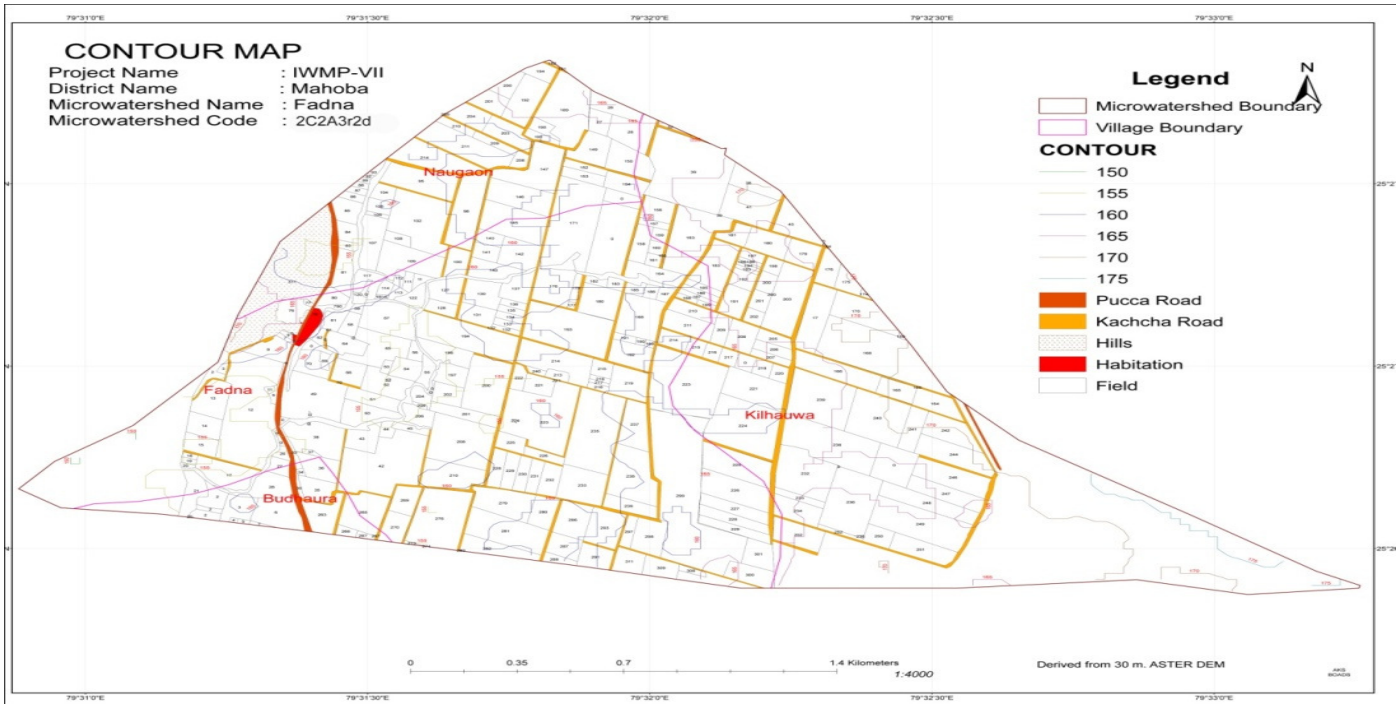

CADASTRAL MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Fadna
Microwatershed Code : 2C2A3r2d
Naugaon
Fadna
Budhaura
Kilhauwa
Legend
Microwatershed Boundary
Village Boundary
Pucca Road
Kachcha Road
Hills
Habitation
Field
m
N
0
0.35
0.7
1.4 Kilometers
1:4000
79°31'0"E
79°31'30"E
79°32'0"E
79°32'30"E
79°33'0"E

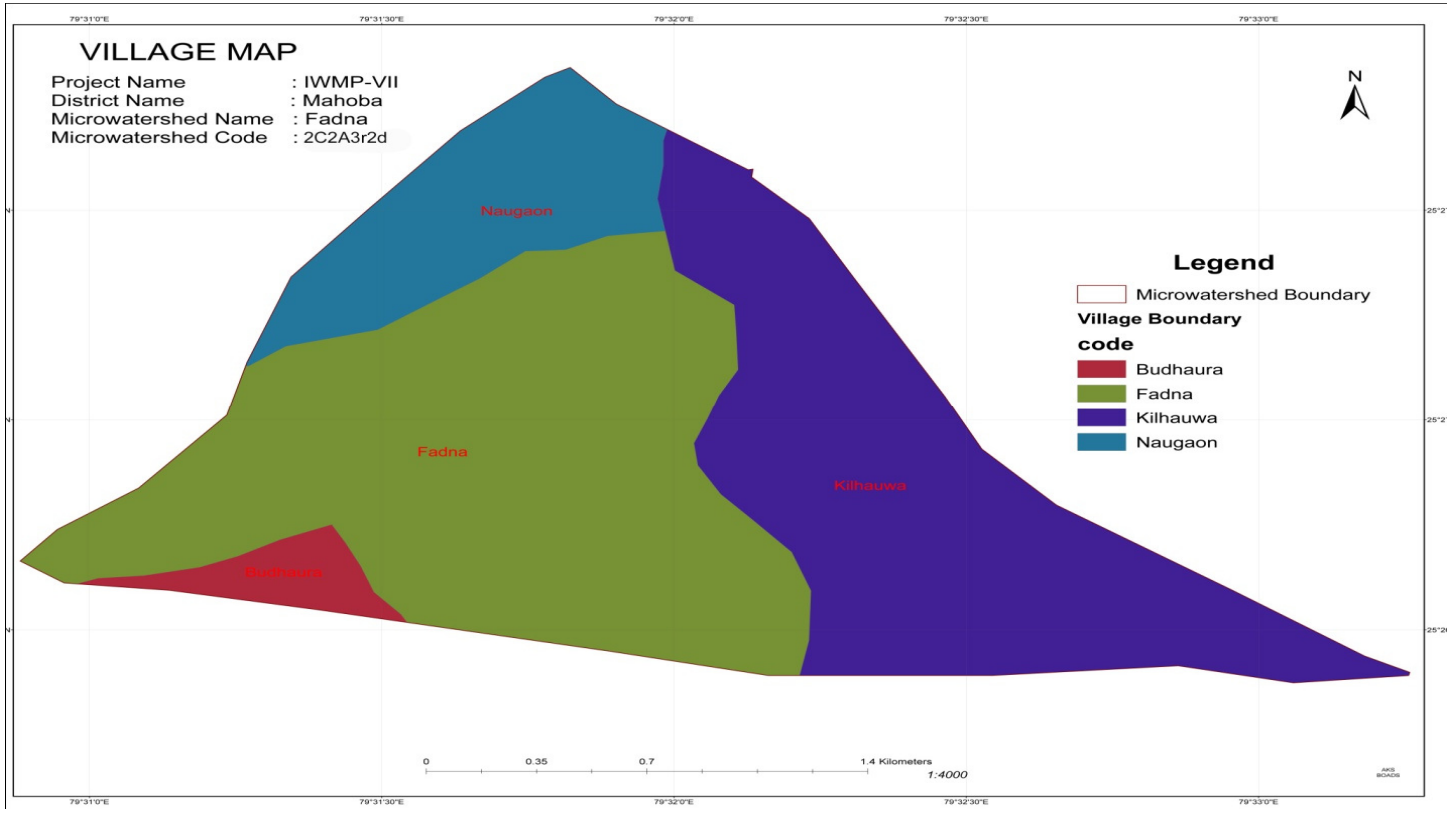

STANDARD FALSE COLOUR COMPOSITE (FCC)
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Fadna
Microwatershed Code : 2C2A3r2d
N
Legend
Microwatershed Boundary
Village Boundary
Pucca Road
Kachcha Road
Hills
Habitation
Field
fcc
RGB
Red: Band_1
Green: Band_2
Blue: Band_3
Fadna
Kilhauwa
Budhaura
0 0.35 0.7 1.4 Kilometers
1:4000
Source - Landsat TM data of dec. 2010
79°31'0"E
79°31'30"E
79°32'0"E
79°32'30"E
79°33'0"E

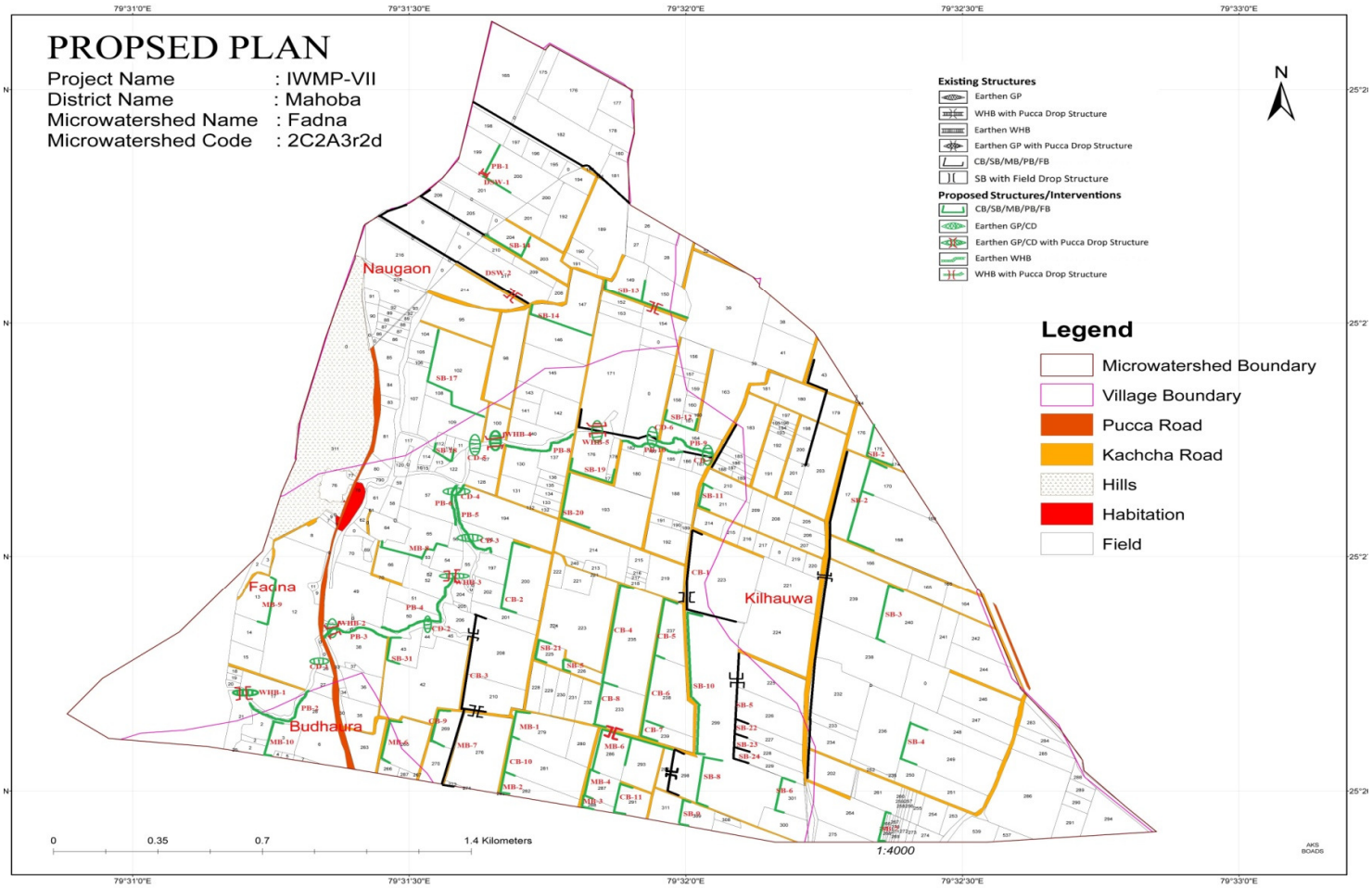

LANDUSE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Fadna
Microwatershed Code : 2C2A3r2d
N
Legend
Microwatershed Boundary
Village Boundary
Pucca Road
Kachcha Road
Hills
Habitation
Field
Naugaon
Fadna
Budhaura
Kilhauwa
0
0.35
0.7
1.4 Kilometers
1:4000
79°31'0"E
79°31'30"E
79°32'0"E
79°32'30"E
79°33'0"E

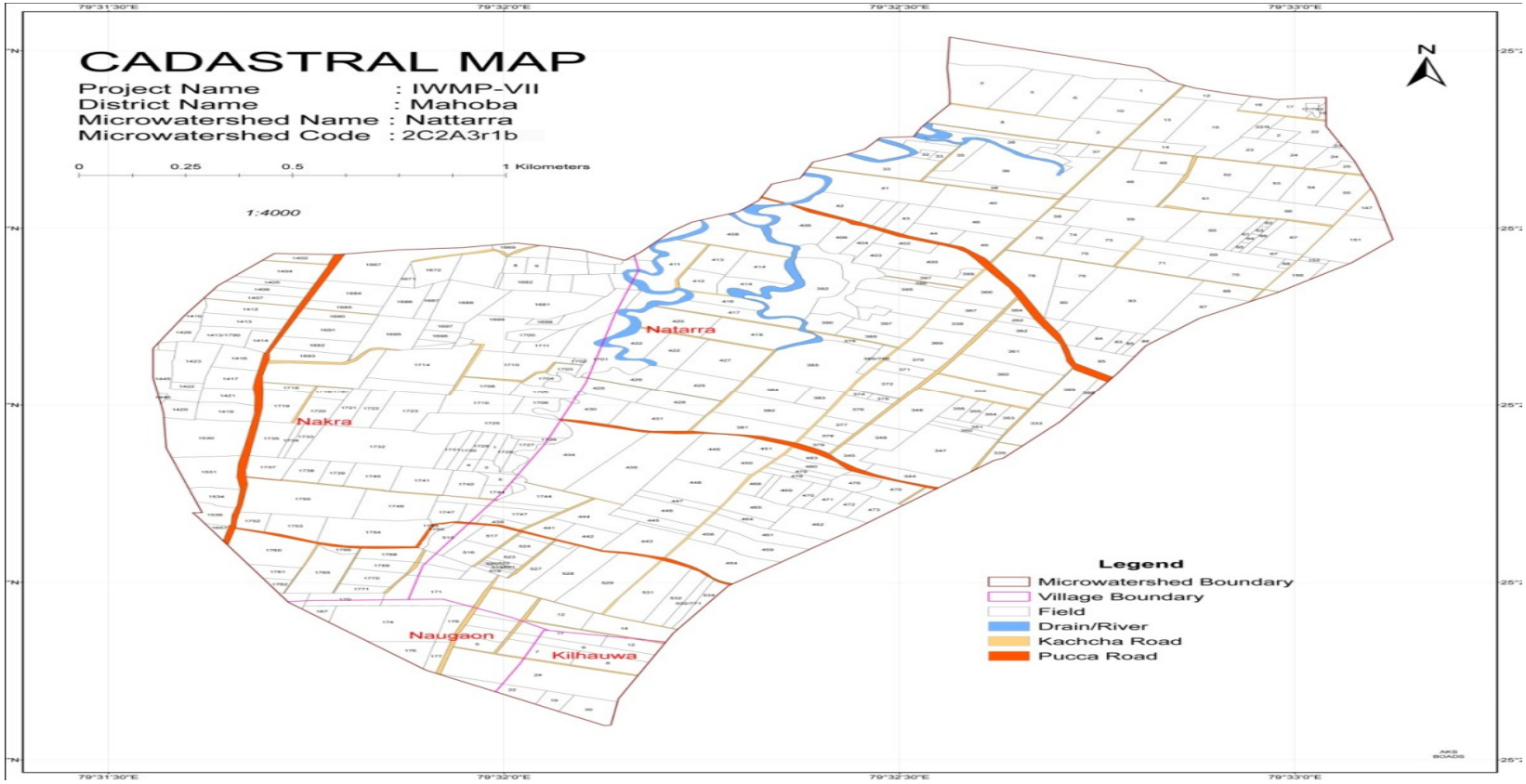

DIGITAL ELEVATION MODEL
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Fadna
Microwatershed Code : 2C2A3r2d
N
Legend
Microwatershed Boundary
Village Boundary
Pucca Road
Kachcha Road
Hills
Habitation
Field
dem
Value
High : 178
Low : 150
Naugaon
Fadna
Budhaura
Kilhauwa
0 0.35 0.7 1.4 Kilometers
1:4000
Source - ASTER DEM30m

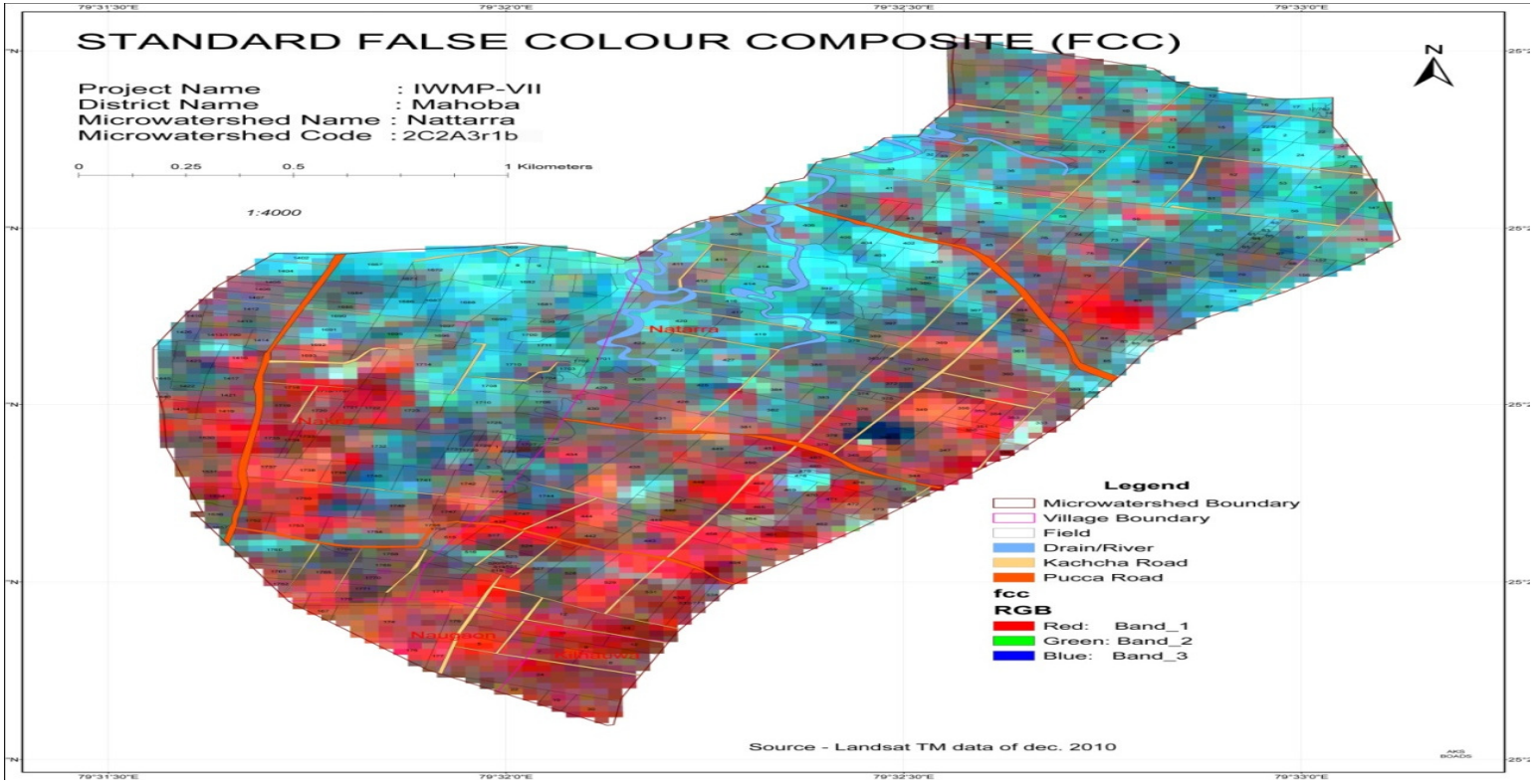

SLOPE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Fadna
Microwatershed Code : 2C2A3r2d
Legend
Microwatershed Boundary
Village Boundary
Pucca Road
Kachcha Road
Hills
Habitation
Field
<VALUE>
0-0.5%
0.5-1%
1-3%
3-5%
>5%
N
Naugaon
Fadna
Kilhauwa
Budhaura
0 0.35 0.7 1.4 Kilometers
1:4000
Derived from 30 m. ASTER DEM
79°31'0"E
79°31'30"E
79°32'0"E
79°32'30"E
79°33'0"E

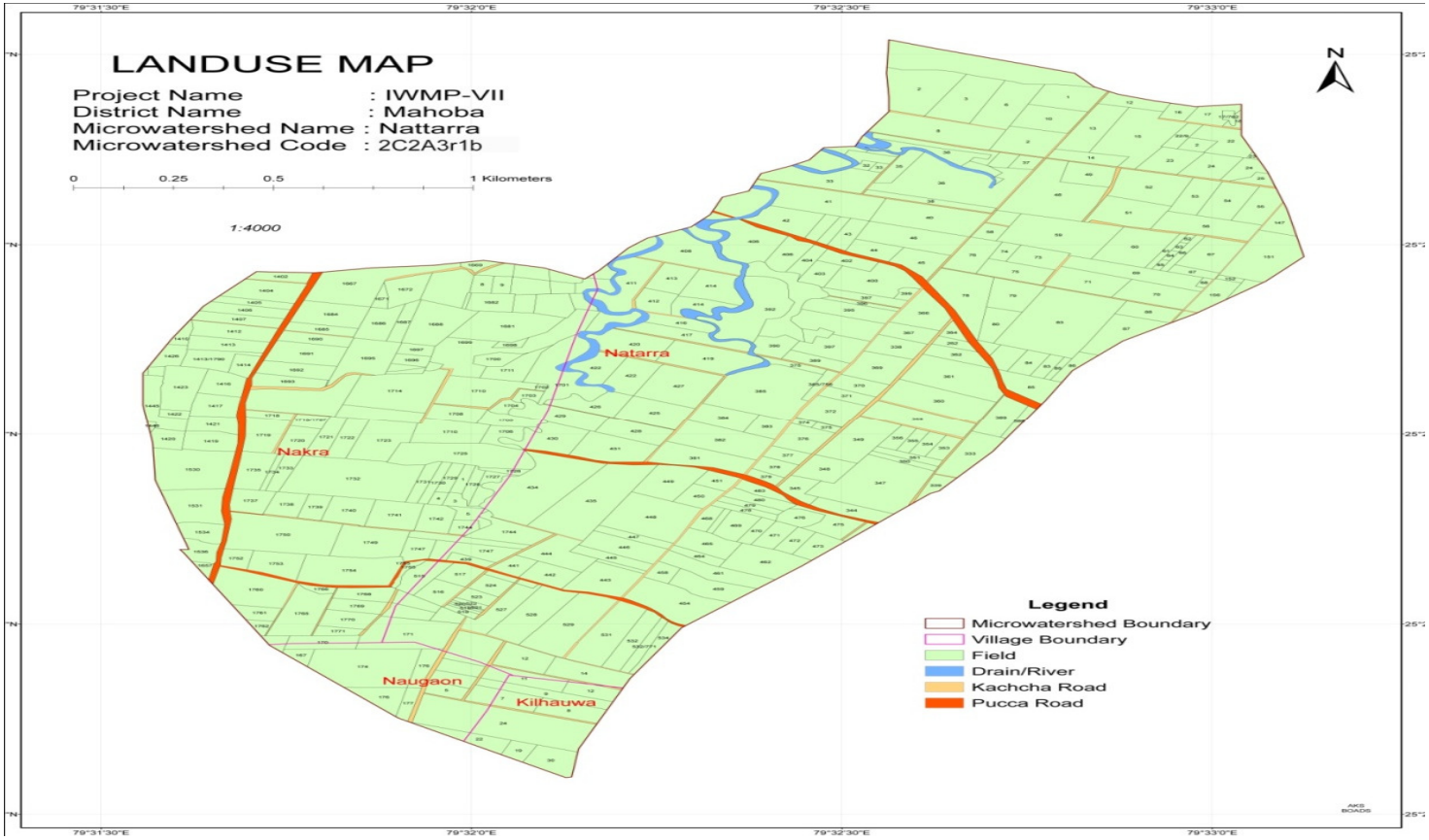

CONTOUR MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Fadna
Microwatershed Code : 2C2A3r2d
Legend
N
Microwatershed Boundary
Village Boundary
CONTOUR
150
155
160
165
170
175
Pucca Road
Kachcha Road
Hills
Habitation
Field
Naugaon
Fadna
Kilhauwa
Budhaura
0
0.35
0.7
1.4 Kilometers
1:4000
Derived from 30 m. ASTER DEM

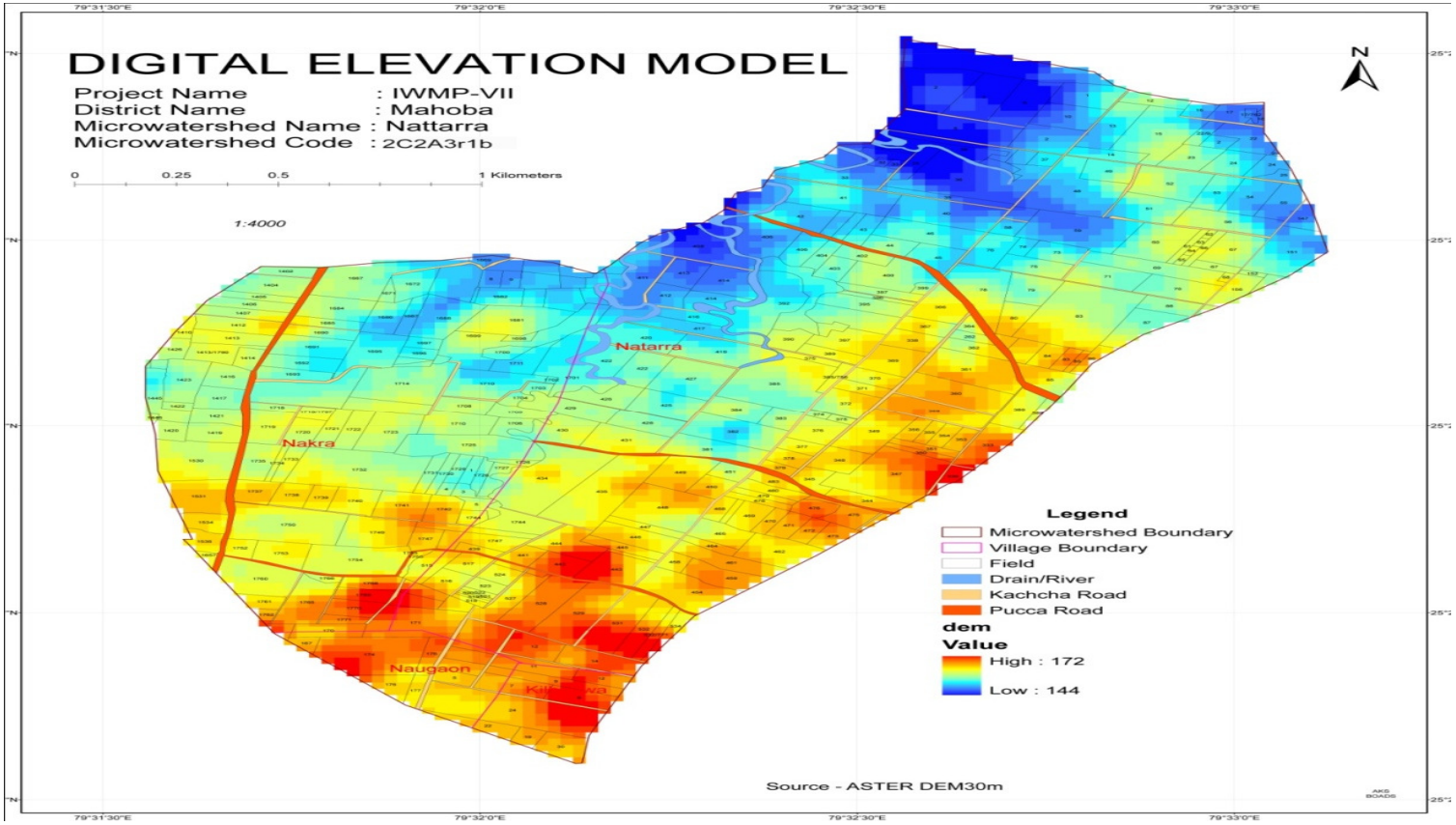

VILLAGE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Fadna
Microwatershed Code : 2C2A3r2d
N
Naugaon
Fadna
Kilhauwa
Budhaura
Legend
Microwatershed Boundary
Village Boundary
code
Budhaura
Fadna
Kilhauwa
Naugaon
0
0.35
0.7
1.4 Kilometers
1:4000
79°31'0"E
79°31'30"E
79°32'0"E
79°32'30"E
79°33'0"E

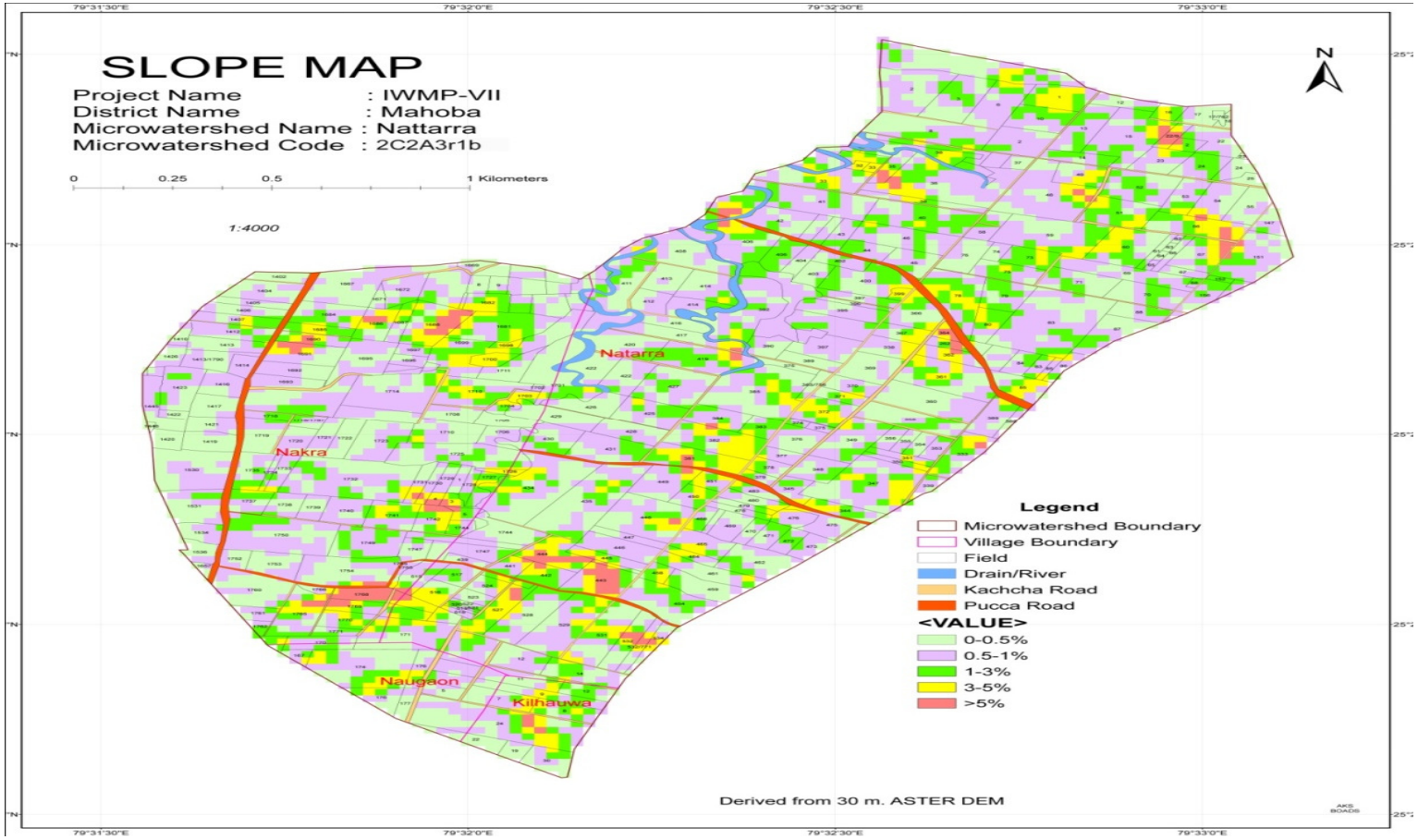

PROPSED PLAN
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Fadna
Microwatershed Code : 2C2A3r2d
Existing Structures
Earthen GP
WHB with Pucca Drop Structure
Earthen WHB
Earthen GP with Pucca Drop Structure
CB/SB/MB/PB/FB
SB with Field Drop Structure
Proposed Structures/Interventions
CB/SB/MB/PB/FB
Earthen GP/CD
Earthen GP/CD with Pucca Drop Structure
Earthen WHB
WHB with Pucca Drop Structure
Legend
Microwatershed Boundary
Village Boundary
Pucca Road
Kachcha Road
Hills
Habitation
Field
N
Naugaon
Fadna
Budhaura
Kilhauwa
0 0.35 0.7 1.4 Kilometers
1:4000
79°31'0"E
79°31'30"E
79°32'0"E
79°32'30"E
79°33'0"E

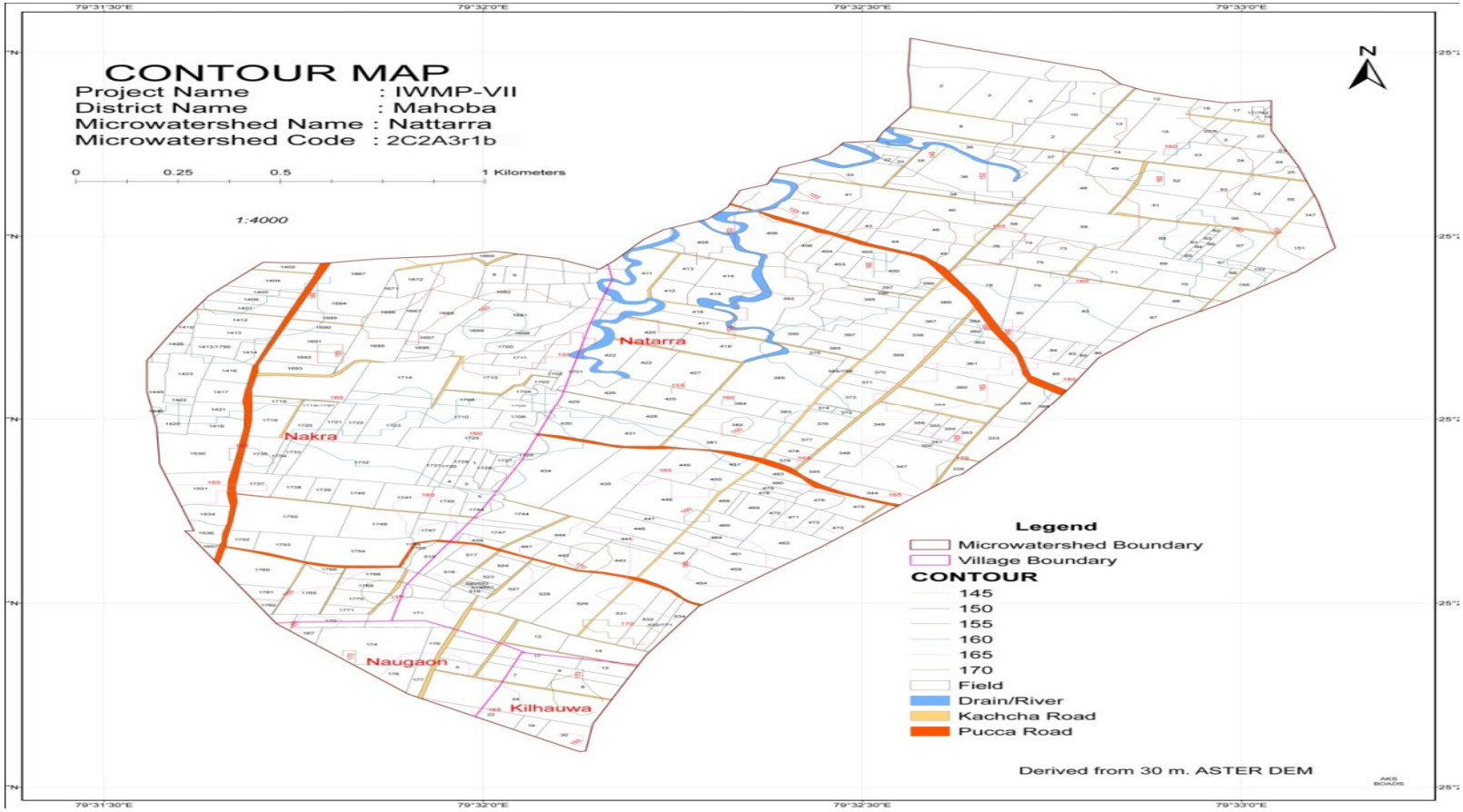

CADASTRAL MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Nattarra
Microwatershed Code : 2C2A3r1b
0 0.25 0.5 1 Kilometers
1:4000
N
Natarra
Nakra
Naugaon
Kilhauwa
Legend
Microwatershed Boundary
Village Boundary
Field
Drain/River
Kachcha Road
Pucca Road
79°31'30"E
79°32'0"E
79°32'30"E
79°33'0"E

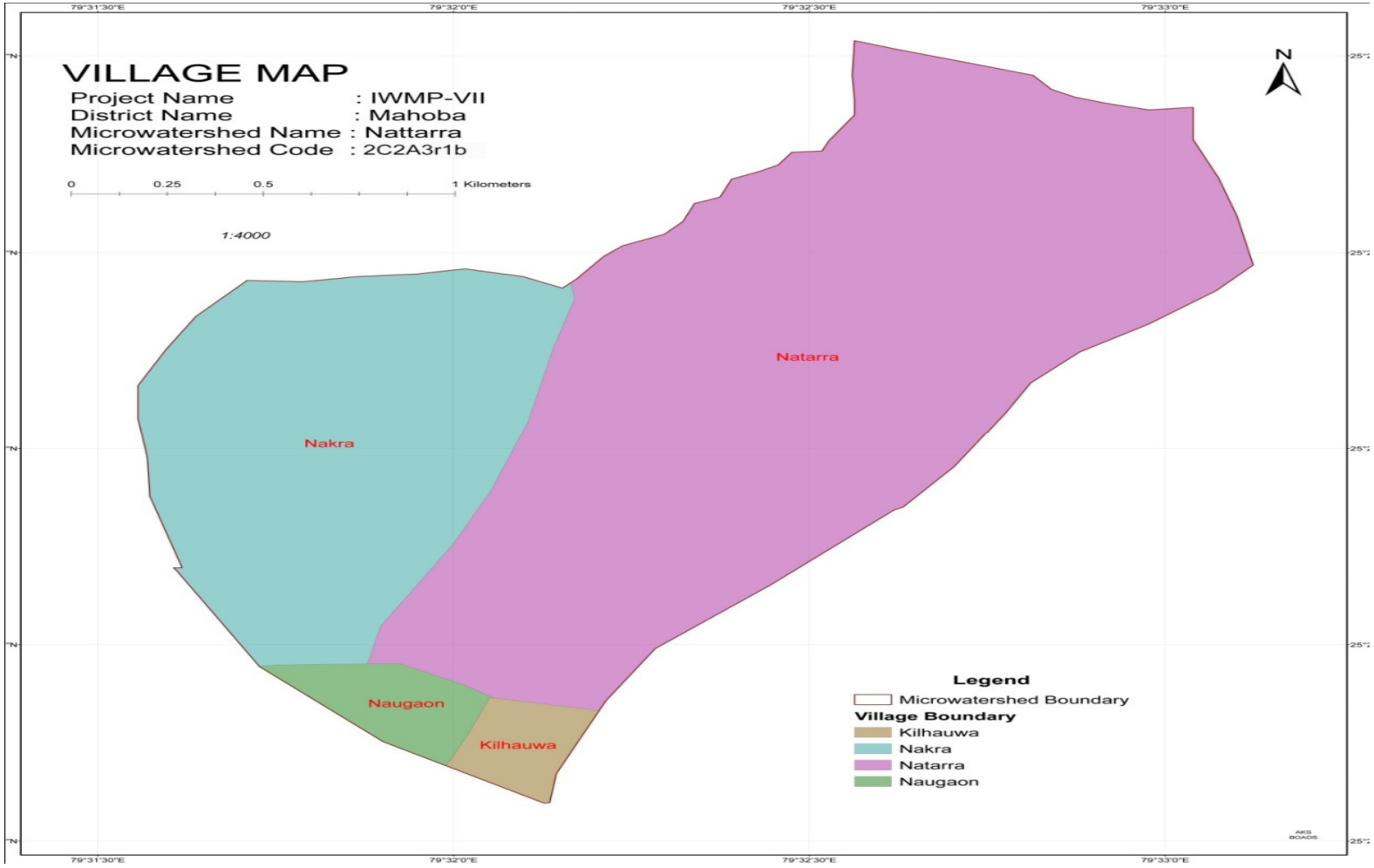

STANDARD FALSE COLOUR COMPOSITE (FCC)
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Nattarra
Microwatershed Code : 2C2A3r1b
0 0.25 0.5 1 Kilometers
1:4000
N
Nattarra
Legend
Microwatershed Boundary
Village Boundary
Field
Drain/River
Kachcha Road
Pucca Road
fcc
RGB
Red: Band_1
Green: Band_2
Blue: Band_3
Source - Landsat TM data of dec. 2010

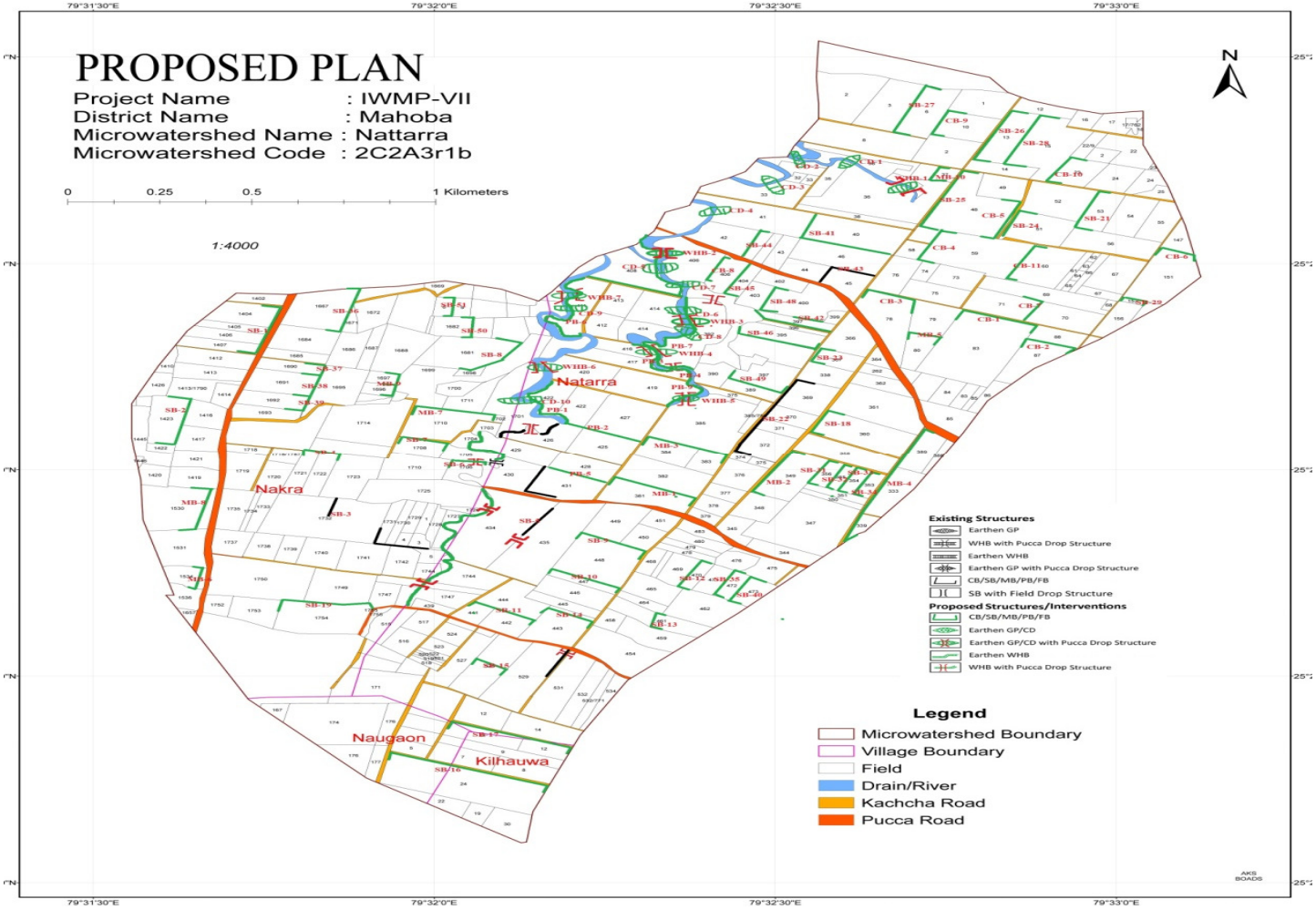

LANDUSE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Nattarra
Microwatershed Code : 2C2A3r1b
0 0.25 0.5 1 Kilometers
1:4000
N
Natarra
Nakra
Naugaon
Kilhauwa
Legend
Microwatershed Boundary
Village Boundary
Field
Drain/River
Kachcha Road
Pucca Road
79°31'30"E
79°32'0"E
79°32'30"E
79°33'0"E


DIGITAL ELEVATION MODEL
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Nattarra
Microwatershed Code : 2C2A3r1b
0 0.25 0.5 1 Kilometers
1:4000
N
Natarra
Nakra
Naugaon
Legend
Microwatershed Boundary
Village Boundary
Field
Drain/River
Kachcha Road
Pucca Road
dem
Value
High : 172
Low : 144
Source - ASTER DEM30m


SLOPE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Nattarra
Microwatershed Code : 2C2A3r1b
0 0.25 0.5 1 Kilometers
1:4000
N
Natarra
Nakra
Naugaon
Kilhauwa
Legend
Microwatershed Boundary
Village Boundary
Field
Drain/River
Kachcha Road
Pucca Road
<VALUE>
0-0.5%
0.5-1%
1-3%
3-5%
>5%
Derived from 30 m. ASTER DEM
79°31'30"E
79°32'0"E
79°32'30"E
79°33'0"E


CONTOUR MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Nattarra
Microwatershed Code : 2C2A3r1b
0 0.25 0.5 1 Kilometers
1:4000
Natarra
Nakra
Naugaon
Kilhauwa
Legend
Microwatershed Boundary
Village Boundary
CONTOUR
145
150
155
160
165
170
Field
Drain/River
Kachcha Road
Pucca Road
Derived from 30 m. ASTER DEM
N
79°31'30"E
79°32'0"E
79°32'30"E
79°33'0"E


VILLAGE MAP
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Nattarra
Microwatershed Code : 2C2A3r1b
0 0.25 0.5 1 Kilometers
1:4000
N
Natarra
Nakra
Naugaon
Kilhauwa
Legend
Microwatershed Boundary
Village Boundary
Kilhauwa
Nakra
Natarra
Naugaon
79°31'30"E
79°32'0"E
79°32'30"E
79°33'0"E


PROPOSED PLAN
Project Name : IWMP-VII
District Name : Mahoba
Microwatershed Name : Nattarra
Microwatershed Code : 2C2A3r1b
0 0.25 0.5 1 Kilometers
1:4000
N
79°31'30"E
79°32'0"E
79°32'30"E
79°33'0"E
25°1'N
Natarra
Nakra
Naugaon
Kilhauwa
Existing Structures
Earthen GP
WHB with Pucca Drop Structure
Earthen WHB
Earthen GP with Pucca Drop Structure
CB/SB/MB/PB/FB
SB with Field Drop Structure
Proposed Structures/Interventions
CB/SB/MB/PB/FB
Earthen GP/CD
Earthen GP/CD with Pucca Drop Structure
Earthen WHB
WHB with Pucca Drop Structure
Legend
Microwatershed Boundary
Village Boundary
Field
Drain/River
Kachcha Road
Pucca Road
AKS BOADS