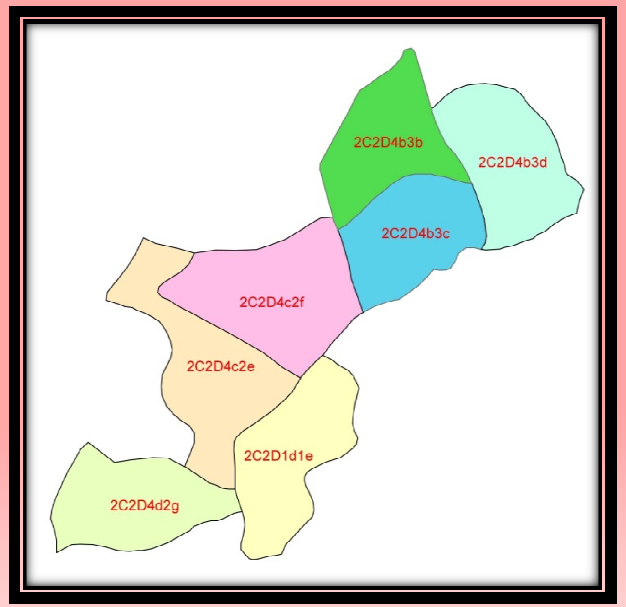
Detailed Project Report

Integrated Watershed Management Programme-VIII

Year 2010-2011

(IWMP-VIII)



Department of Land Development and Water Resources, Uttar Pradesh

Project Implementing Agency

Bhoomi Sanrakshan Adhikari

(L.D.W.R.), Lalitpur-VII

CERTIFICATE

This is to be certified that the proposed Project (IWMP-VIII) comprising seven micro-watersheds of district Lalitpur, Uttar Pradesh has been selected for its sustainable development on watershed basis under Integrated Watershed Management Programme. The land is physically available for proposed interventions and is not overlapping with any other schemes. It will be developed as per Common Guidelines for Watershed Development Project-2008, GOI, and New Delhi. The significant results will be achieved through proposed interventions on soil and water conservation, ground water recharge, availability of drinking and irrigation water, agricultural production systems, live stock, fodder availability, livelihoods of asset less, capacity building, etc. The proposed **Detailed Project Report** of **IWMP-VIII, 2010-11** is submitted for its approval.

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EXECUTIVE SUMMARY

All the micro-watersheds of IWMP-VIII, 2010-11 are situated in Talbehat Block of District Lalitpur, Uttar Pradesh. The project consists of seven micro-watersheds namely Targuwan(2C2D4b3b), Tindra(2C2D4b3d), Kakrari(2C2D4b3c), Bijrotha-I(2C2D4c2f), Lalaun(2C2D1d1e), Bijrotha-II(2C2D4c2e), and Gulenda(2C2D4d2g).Watershed project is situated in Talbehat block of District Lalitpur and spread over in 14 villages of 10 Gram Panchayat. The total geographical area of the IWMP-VIII is 5347.00 ha, out of which 4070.00 ha is treatable under Integrated Watershed Management Programme IWMP-VIII.

All micro-watershed falls in agro-climatic zone of Central Plain Zone representing semi-arid ecological Bundelkhand sub-region. The micro-watersheds of IWMP-VIII are situated at an elevation of some 295 to 373 m. above mean sea level and have relief from 27 to 76 m. 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-VIII micro-watershed is shown in Table 2.4. The dominant slope category in the micro-watershed were 1-3 per cent (50.99%) followed by 3-5 per cent (25.50%).

On an average 20-21 per cent of the population is scheduled caste. Population details of the IWMP-VIII are depited in Table 3.1. In general 7-8 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 Lalitpur district of Uttar Pradesh is given in following Tables 1.1, 1.2 and 1.3.

Table 1.1: Status of watershed programme **District- Lalitpur**

Details	No.	Area (ha.)
Total Micro watersheds in the district	713	503900
Workable Micro Watersheds	525	370858
Micro Watersheds already treated by LDWR & other Agencies Uttar Pradesh	343	241876
Micro Watersheds (MWS) available for treatment (At the time of start of IWMP in the district)	182	128982

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

Year	Project	MWS	Area (Treatable) (ha)	Project Cost (Rs. Lakh)	Name of PIA	Date of Sanction by S.C. Got. Of India
2010-11	IWMP-V	08	5300.00	636.00	LDWR, Lalitpur -1	
2010-11	IWMP-VI	08	5200.00	624.00	LDWR, Lalitpur -2	
2010-11	IWMP-VII	07	5000.00	600.00	LDWR, Lalitpur -3	
2010-11	IWMP-VIII	07	4070.00	488.40	LDWR, Lalitpur -7	
2010-11	IWMP-IX	07	4500.00	540.00	LDWR, Lalitpur -8	
2010-11	IWMP-X	10	5350.00	642.00	LDWR, Lalitpur- 12	
2010-11	IWMP-XI	09	5650.00	678.00	LDWR, Lalitpur- 4	
2010-11	IWMP-XII	11	4600.00	552.00	LDWR, Lalitpur- 9	
Total		**65**	**39670.00**	**4760.40**		

Table 1.3: Status of previous DPRs **District- Lalitpur**

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.....q .....)	PIA
1	IWMP-V	Prepared / under revision	5300.00	6582.00	636.00	2010-11 to 2013-14	LDWR, Lalitpur UP
2	IWMP-VI	Prepared / under revision	5200.00	6373.00	624.00	2010-11 to 2013-14	LDWR, Lalitpur UP
3	IWMP-VII	Prepared / under revision	5000.00	6077.00	600.00	2010-11 to 2013-14	LDWR, Lalitpur UP

4	IWMP-VIII	Prepared / under revision	4500.00	5347.00	540.00	2010-11 to 2013-14	LDWR, Lalitpur UP
5	IWMP-IX	Prepared / under revision	4500.00	5446.00	540.00	2010-11 to 2013-14	LDWR, Lalitpur UP
6	IWMP-X	Prepared / under revision	5350.00	6564.00	642.00	2010-11 to 2013-14	LDWR, Lalitpur UP
7	IWMP-XI	Prepared / under revision	5650.00	6704.00	678.00	2010-11 to 2013-14	LDWR, Lalitpur UP
8	IWMP-XII	Prepared / under revision	4600.00	5206.00	552.00	2010-11 to 2013-14	LDWR, Lalitpur UP
			40100.00	**48299.00**	**4812.00**		

1.1 Project Background

Integrated Watershed Management Programme-VII comprises seven micro-watershed namely Targuwan(2C2D4b3b), Tindra(2C2D4b3d), Kakrari(2C2D4b3c), Bijrotha-I(2C2D4c2f), Lalaun(2C2D1d1e), Bijrotha-II(2C2D4c2e), and Gulenda(2C2D4d2g). Watershed project is situated in Talbehat block of District Lalitpur and spread over in 14 villages of 10 gram Panchayat. The total geographical area of the IWMP-VIII is 5347.00 ha, out of which 4070.00 ha is treatable under Integrated Watershed Management Programme (IWMP-VIII).

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

Watershed project	Micro Watersheds (MWS) detail	Micro watersheds Code	Treatable Area (ha)	Name of Watershed in which MWS is falling (River / Nala name)
IWMP-VIII	Targuwan	(2C2D4b3b)	610.00	Jamni River
IWMP-VIII	Tindra	(2C2D4b3d)	705.00	Jamni River
IWMP-VIII	Kakrari	(2C2D4b3c)	615.00	Jamni River
IWMP-VIII	Bijrotha-I	(2C2D4c2f)	800.00	Jamni River
IWMP-VIII	Lalaun	(2C2D1d1e)	470.00	Jamni River
IWMP-VIII	Bijrotha-II	(2C2D4c2e)	370.00	Jamni River
IWMP-VIII	Gulenda	(2C2D4d2ge)	500.00	Jamni River
	Total		**4070.00**	

1.2 Need and Scope for Watershed Development

Bundelkhand region was in a grip of severe drought continuously from 2006 to 2010. 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 **92.68** 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	Hard rock starts from 21 to 50 feet	Hard rock starts from 51 to 100 feet	Deep soil depth (0)

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

Table 1.6: Weightage of the project

S. No.	Criteria	Weightage points
1	Drinking water	15
2	Irrigation	10
3	Degree of soil erosion	10
4	Water holding capacity	10
5	Area under rainfed agriculture	10
6	Status of field bund/contour bund / graded bund	10
7	Presence of hard rock below the land	10
8	Options for livelihood	10
9	% of small and marginal farmers	10
10	Degraded land	15
11	Ground water status	10
12	Status of Technical Knowledge for improved farming systems	10
13	Weather condition	10
14	Poverty index (% of poor population)	10
15	Virginity	10
16	Productivity potential of land	10
17	Organic carbon status	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-VIII are located in Talbehat block of Lalitpur district. It is about 22 km. from Lalitpur on Lalitpur to Sagar road, Raghunathpur road, Mahrouni road and Kallguwa 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 5341.76 ha, out of which 4500.00 ha is treatable. The geographical area of micro-watershed varied in the range of 499.645 to 1399.486 ha.

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

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	Targuwan (2C2D4b3b)	24^0 59' 12.92" – 25^0 01' 34.04" N 78^0 25' 13.70" - 78^0 27' 10.54" E	Bamhorisar Targuwan Bijrotha	Bamhorisar Targuwan Bijrotha	Talbehat	80.49 420.94 160.20	lalitpur to Kailguan road 7 Km
	Total					**661.64**	
2	Tindra (2C2D4b3d)	24^0 58' 57.40" – 25^0 01' 06.85" N 78^0 26' 40.27" - 78^0 28' 37.38" E	Kakrari Terai Udguwan Bamhorisar	Tindra Kakrari Terai Udguwan Bamhorisar	Talbehat	383.71 111.03 28.90 113.20 132.53	lalitpur to Kailguan road 7 Km
	Total					**769.36**	
3	Kakrari (2C2D4b3c)	24^0 58' 08.61" – 24^0 59' 56.08" N 78^0 25' 27.70" - 78^0 27' 22.31" E	Targuwan Bamhorisar Bijrotha Kakrari	Targuwan Bamhorisar Bijrotha Kakrari	Talbehat	15.94 26.55 260.92 361.57	lalitpur to Kailguan on Road 6Km
	Total					**664.98**	
4	Bijrotha-I (2C2D4c2f)	24^0 57' 17.54" – 24^0 59' 22.68" N 78^0 23' 09.02" - 78^0 25' 47.23" E	Bijrotha Kakrari Miyao	Bijrotha Rara Miyao Talbehat Range	Talbehat	714.52 98.46 45.89 67.28	lalitpur to Kailguan road via Tindra 9Km
	Total					**926.15**	
5	Lalaun (2C2D1d1e)	24^0 54' 56.48" – 24^0 57' 35.47" N 78^0 24' 07.60" - 78^0 25' 44.12" E	Bijrotha Lalaun	Talbehat Range Bijrotha	Talbehat	224.96 332.56	Lalitpur to Kailguan road 20 Km

				Lalaun		189.92	
	Total					**747.43**	
6	Bijrotha-II (2C2D4c2e)	24^0 55' 51.59" – 24^0 59' 06.73" N 78^0 22' 29.46" - 78^0 24' 59.03" E	Lalaun Bijrotha Rajpur Miyao	Talbehat Range Lalaun Bijrotha Rara Rajpur Miyao	Talbehat	448.88 22.25 206.83 29.86 59.90 112.54	Lalitpur to Kailguan road 12 Km
	Total					**880.27**	
7	Gulenda (2C2D4d2g)	24^0 55' 01.84" – 24^0 56' 27.78" N 78^0 21' 46.54" - 78^0 24' 14.10" E	Lalaun Gulenda	Lalaun Bhawarkali Gulenda Talbehat Range	Talbehat	214.67 71.02 257.09 149.15	lalitpur to Kailguan road 16 Km
	Total					**691.93**	
	G Total					**5341.76**	

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 7225.65 ha, out of which 117.59 (1.65%) ha land is under assured irrigation mainly by means of open shallow dug wells. The cultivable rainfed, temporary and permanent wastelands are about 90.67, 3.50 and 1.25 percent, respectively, of culturable land of the project.

Table 2.2: Details of land resources in IWMP-VIII of Lalitpur 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	OBC	Total			(Habitat, Road. Etc.	(Geographical)
1	Targuwan (2C2D4b3b)	Bamhorisar	147.88		3.21	58.88	9.91	22.29	29.73	61.93	38.22	2.40	4.81	160.20
		Targuwan	388.61	15.96	8.43	154.73	26.04	58.59	78.12	162.74	100.42	6.32	12.63	420.94
		Bijrotha	74.34		1.61	29.60	4.98	11.21	14.94	31.13	19.21	1.21	2.42	80.49
	Total		**610.83**	**15.96**	**13.26**	**243.22**	**40.93**	**92.09**	**122.79**	**255.80**	**157.85**	**9.93**	**19.86**	**661.64**
2	Tindra (2C2D4b3d)	Tindra	354.04	13.32	7.68	140.97	23.72	53.38	71.17	148.26	91.49	5.75	11.51	383.71
		Kakrari	102.44		2.22	40.79	6.86	15.44	20.59	42.90	26.47	1.66	3.33	111.03
		Terai	26.69		0.58	10.63	1.79	4.02	5.37	11.18	6.90	0.43	0.87	28.90
		Udguwan	104.43		2.27	41.58	7.00	15.74	20.99	43.73	26.99	1.70	3.39	113.20
		Bamhorisar	122.32		2.65	48.70	8.20	18.44	24.59	51.22	31.61	1.99	3.98	132.53

	Total		**709.92**	**13.32**	**15.41**	**282.67**	**47.57**	**107.03**	**142.70**	**297.30**	**183.46**	**11.54**	**23.08**	**769.36**
3	Kakrari (2C2D4b3c)	Targuwan	14.73		0.32	5.87	0.99	2.22	2.96	6.17	3.81	0.24	0.48	15.94
		Bamhorisar	24.49		0.53	9.75	1.64	3.69	4.92	10.26	6.33	0.40	0.80	26.55
		Bijrotha	240.85		5.23	95.90	16.14	36.31	48.41	100.86	62.24	3.91	7.83	260.92
		Kakrari	333.71	17.09	7.24	132.88	22.36	50.31	67.08	139.75	86.24	5.42	10.85	361.57
	Total		**613.79**	**17.09**	**13.32**	**244.39**	**41.13**	**92.53**	**123.38**	**257.04**	**158.61**	**9.98**	**19.95**	**664.98**
4	Bijrotha-I (2C2D4c2f)	Bijrotha	659.53	21.89	14.31	262.61	44.19	99.43	132.57	276.20	170.43	10.72	21.44	714.52
		Rara	90.87		1.97	36.18	6.09	13.70	18.27	38.06	23.48	1.48	2.95	98.46
		Miyao	42.32		0.92	16.85	2.84	6.38	8.51	17.72	10.94	0.69	1.38	45.89
		Talbehat Range	62.06		1.35	24.71	4.16	9.36	12.48	25.99	16.04	1.01	2.02	67.28
	Total		**854.86**	**21.89**	**18.55**	**340.38**	**57.28**	**128.88**	**171.84**	**358.00**	**220.91**	**13.89**	**27.79**	**926.15**
5	Lalaun (2C2D1d1e)	Talbehat Range	207.60		4.51	82.66	13.91	31.30	41.73	86.94	53.65	3.37	6.75	224.96
		Bijrotha	306.85	14.90	6.66	122.18	20.56	46.26	61.68	128.50	79.30	4.99	9.97	332.56
		Lalaun	175.25		3.80	69.78	11.74	26.42	35.23	73.39	45.29	2.85	5.70	189.92
	Total		**689.71**	**14.90**	**14.97**	**274.62**	**46.21**	**103.98**	**138.64**	**288.84**	**178.23**	**11.21**	**22.42**	**747.43**
6	Bijrotha-II (2C2D4c2e)	Talbehat Range	414.28		8.99	164.95	27.76	62.46	83.28	173.49	107.06	6.73	13.47	448.88
		Lalaun	20.56		0.45	8.18	1.38	3.10	4.13	8.61	5.31	0.33	0.67	22.25
		Bijrotha	190.93		4.14	76.02	12.79	28.78	38.38	79.96	49.34	3.10	6.21	206.83
		Rara	27.54		0.60	10.97	1.85	4.15	5.54	11.53	7.12	0.45	0.90	29.86
		Rajpur	55.25		1.20	22.00	3.70	8.33	11.11	23.14	14.28	0.90	1.80	59.90
		Miyao	103.83		2.25	41.34	6.96	15.65	20.87	43.48	26.83	1.69	3.38	112.54
	Total		**812.46**		**17.63**	**323.50**	**54.44**	**122.49**	**163.32**	**340.24**	**209.96**	**13.20**	**26.41**	**880.27**
7	Gulenda (2C2D4d2g)	Lalaun	198.04		4.30	78.86	13.27	29.86	39.81	82.94	51.18	3.22	6.44	214.67
		Bhawarkali	65.50		1.42	26.08	4.39	9.88	13.17	27.43	16.93	1.06	2.13	71.02
		Gulenda	237.24	10.56	5.15	94.46	15.90	35.77	47.69	99.35	61.31	3.86	7.71	257.09
		Talbehat Range	137.65		2.99	54.81	9.22	20.75	27.67	57.64	35.57	2.24	4.47	149.15
	Total		**638.44**	**10.56**	**13.86**	**254.21**	**42.78**	**96.25**	**128.33**	**267.36**	**164.98**	**10.38**	**20.75**	**691.93**
	G Total		**4930.00**	**93.72**	**107.00**	**1963.00**	**330.33**	**743.25**	**991.00**	**2064.59**	**1274.00**	**80.13**	**160.25**	**5341.76**

(*Source: LDWR, Lalitpur-III, U.P.*)

2.3 Physiography

The micro-watersheds of IWMP-VIII are situated at an elevation of some 295 to 373 m above mean sea level and have relief from 27 to 76 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	Minimum	Maximum	Relief
Targuwan (2C2D4b3b)	295	325	30
Tindra (2C2D4b3d)	299	350	51
Kakrari (2C2D4b3c)	306	333	27
Bijrotha-I (2C2D4c2f)	302	356	54
Lalaun (2C2D1d1e)	329	370	41
Bijrotha-II (2C2D4c2e)	297	373	76
Gulenda (2C2D4d2g)	327	355	28

2.4 Slope:

Spatial distribution of different slope classes was prepared using Arc GIS. Slope was divided into five classes' viz. 0-0.5, 0.5-1.0, 1-3, 3-5, and more than 5 per cent. Per cent areal extent of different slope classes in IWMP-VIIImicro-watershed is shown in Table 2.4. The dominant slope category in the micro-watershed were 1-3 per cent (50.99%) followed by 3-5 per cent (25.50%).

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

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	Targuwan (2C2D4b3b)	36.39	72.78	340.74	168.72	43.01		661.64
2	Tindra (2C2D4b3d)	44.62	84.63	393.91	196.19	50.01		769.36
3	Kakrari (2C2D4b3c)	37.24	73.15	341.80	169.57	43.22		664.98
4	Bijrotha-I (2C2D4c2f)	53.72	101.88	474.19	236.17	60.20		926.15
5	Lalaun (2C2D1d1e)	59.79	82.22	366.24	190.59	48.58		747.43
6	Bijrotha-II (2C2D4c2e)	49.30	96.83	452.46	224.47	57.22		880.27
7	Gulenda (2C2D4d2g)	40.13	76.11	354.27	176.44	44.98		691.93
	Total	**321.19**	**587.59**	**2723.61**	**1362.15**	**347.21**		**5341.76**

2.4 Climate

The annual rainfall of the district varies from 702.64 to 1088.83 mm, above 90% of which is received during South-West monsoon period. 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 Lalitpur 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-VIII, Lalitpur

Month	Rainfall in mm.								Temperature c	
	2004	**2005**	**2006**	**2007**	**2008**	**2009**	**2010**	**Average**	**Max.**	**Min.**
January	-	--	--	--	--	16.33	3.66	2.86	16.5	5.5
February	-	--	--	4385	--	--	6.33	7.17	21.2	15.4
March	--	--	54.65	--	--	--	--	7.81	32.8	21.6
April	---	--	--	8.32	0.46	--	--	1.25	38.40	29.7
May	--	--	13.85	6.99	10.06	35.65	--	9.51	45.40	34.2
June	123.00	80.66	49.45	73.64	633.50	44.66	21.31	146.60	47.20	35.1
July	127.50	515.10	336.81	138.51	161.92	195.29	242.91	245.44	40.40	33.60
August	419.50	181.07	176.61	246.26	171.27	166.28	182.27	220.47	38.30	31.70
September	75.40	137.27	71.27	73.23	101.64	119.30	162.00	105.73	37.40	29.20
October	37.00	--	---	--	4.66	79.32	23.66	15.38	34.70	28.50
November	--	--	--	--	5.32	54.55	22.64	11.79	31.40	19.80
December	--	--	--	--	--	9.33	--	1.33	24.40	9.3
Total	**782.40**	**914.10**	**702.64**	**590.80**	**1088.83**	**720.81**	**664.78**	**775.34**	**Avg 33.18**	**Avg 23.72**

Source: Data site of Agro-meteorological Deptt.

The open pan evaporation varied in the range of 0.9 to 28 mm/day during the year with average of about 7 mm/day. Average relative humidity varied in the range of 22 to 96 per cent; however the range of wind speed is 0.75 to 22 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-VIII

Name of Micro Watershed	Particulars	Villages	Periodicity		Not affected
			Annual	Any other (please specify)	
Targuwan Tindra Kakrari Bijrotha-I Lalaun Bijrotha-II Gulenda	Flood	No. of villages	-	-	-
		Name(s) of villages	-	-	-
	Drought	**No. of villages**- 14 **Name of Village:** Bamhorisar, Targuwan, Bijrotha, Lalaun, Tindra, Kakrari, Terai,Udguwan, Rara, Miyao, Talbehat Range, Rajpur, Bhawarkali and Gulenda.	-	-	
			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. The PRA including house hold survey of Targuwan(2C2D4b3b), Tindra(2C2D4b3d), Karkrari(2C2D4b3c), Bijrotha-I(2C2D4c2f), Lalaun(2C2D1d1e), Bijrotha-II(2C2D4c2e) and Gulenda(2C2D4d2g) micro watershed have been conducted by PIA and supported organizations, 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 20.40% of the population is scheduled caste. Population details of the IWMP-VIII are depited in Table 3.1. In general 7-8 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. 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-VIII, LALITPUR)

Sr. No.	Name of Micro Watershed	Name of Gram Panchayat	Total Population			Population of SC/ST		
			Total	Male	Female	Total	Male	Female
	Targuwan Tindra Kakrari Bijrotha-I Lalaun Bijrotha-II Gulenda	Udguwan	561	311	250	171	94	77
		Bamhorisar	1790	956	834	515	273	242
		Kakrari	1623	877	746	591	310	281
		Targuwan	1501	835	666	45	45	-
		Bijrotha	6469	3447	3022	1332	716	616
		Rajpur	2673	1409	1264	118	628	553
		Lalaun	1181	637	544	475	248	227
		Gulenda	876	462	414	217	112	105
		Miyao	2217	1198	1019	454	234	220
		Terai	2230	1204	1026	390	203	187
	Grand Total		**21121**	**11336**	**9785**	**4308**	**2863**	**2508**

Table 3.2: Details of land holding pattern in IWMP-VIII, LALITPUR

Names MWS with code	Name of Gram Panchayat	Type of Farmer	No. of households	No. of BPL households	Land holding (ha)		
					Irrigated	Rainfed	Total
Targuwan (2C2D4b3b) Tindra (2C2D4b3d) Kakrari (2C2D4b3c) Bijrotha-I (2C2D4c2f) Lalaun (2C2D1d1e) Bijrotha-II (2C2D4c2e) Gulenda (2C2D4d2g)	Udguwan	(i) Big (above 4 ha.)	2				
		(ii) Medium (2-4 ha.)	21				
		(iii) Small (1-2 ha.)	34				
		(iv) Marginal (0-1ha.)	46	46			
		(v) Landless	5	5			
		Total	**108**	**51**	**13.32**	**458.47**	471.79
	Bamhorisar	(i) Big (above 4 ha.)	10				
		(ii) Medium (2-4 ha.)	70				
		(iii) Small (1-2 ha.)	96				
		(iv) Marginal (0-1ha.)	133	133			
		(v) Landless	8	8			
		Total	**317**	**141**	**-**	**194.89**	194.89
	Kakrari	(i) Big (above 4 ha.)	8				
		(ii) Medium (2-4 ha.)	65				
		(iii) Small (1-2 ha.)	99				
		(iv) Marginal (0-1ha.)	129	129			
		(v) Landless	6	6			
		Total	**307**	**135**	**17.09**	**436.15**	453.24
	Targuwan	(i) Big (above 4 ha.)	8				
		(ii) Medium (2-4 ha.)	60				
		(iii) Small (1-2 ha.)	86				
		(iv) Marginal (0-1ha.)	125	125			
		(v) Landless	8	8			
		Total	**287**	**133**	**15.96**	**403.34**	419.3
	Bijrotha	(i) Big (above 4 ha.)	32				
		(ii) Medium (2-4 ha.)	248				
		(iii) Small (1-2 ha.)	314				
		(iv) Marginal (0-1ha.)	398	398			
		(v) Landless	41	41			
		Total	**1133**	**439**	**36.79**	**1472.50**	1509.29

	Rajpur	(i) Big (above 4 ha.)	15				
		(ii) Medium (2-4 ha.)	93				
		(iii) Small (1-2 ha.)	152				
		(iv) Marginal (0-1ha.)	211	211			
		(v) Landless	11	11			
		Total	**482**	**222**	**-**	**55.25**	55.25
	Lalaun	(i) Big (above 4 ha.)	5				
		(ii) Medium (2-4 ha.)	30				
		(iii) Small (1-2 ha.)	52				
		(iv) Marginal (0-1ha.)	93	93			
		(v) Landless	2	2			
		Total	**182**	**95**	**-**	**393.85**	393.85
	Gulenda	(i) Big (above 4 ha.)	2				
		(ii) Medium (2-4 ha.)	22				
		(iii) Small (1-2 ha.)	51				
		(iv) Marginal (0-1ha.)	76	76			
		(v) Landless	3	3			
		Total	**154**	**79**	**10.56**	**532.74**	543.3
	Miyao	(i) Big (above 4 ha.)	12				
		(ii) Medium (2-4 ha.)	69				
		(iii) Small (1-2 ha.)	121				
		(iv) Marginal (0-1ha.)	175	175			
		(v) Landless	11	11			
		Total	**388**	**186**	**-**	**264.56**	264.56
	Terai	(i) Big (above 4 ha.)	11				
		(ii) Medium (2-4 ha.)	68				
		(iii) Small (1-2 ha.)	121				
		(iv) Marginal (0-1ha.)	165	165			
		(v) Landless	9	9			
		TOTAL	**374**	**174**	**-**	**26.69**	26.69
		Grand Total	**3732**	**1655**	**93.72**	**4238.44**	**4332.16**

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

Name of Micro Watershed	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)
Targuwan Tindra Kakrari Bijrotha-I Lalaun Bijrotha-II Gulenda	Udguwan	45	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Bamhorisar	134	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Kakrari	133	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Targuwan	119	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Bijrotha	712	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Rajpur	214	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Lalaun	93	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Gulenda	66	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Miyao	164	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Terai	183	120-180	Drought / Earn money	500-1100 Km	Labour	0.25-0.40
	Total	**1862**	-	-	-	-	-

Table 3.4: Details of infrastructure in IWMP-VIII, Lalitpur **District – Lalitpur**

S. No.	Name of Micro Watershed	Parameters	Status			
1	Targuwan (2C2D4b3b)	Name of villages connected to the main road by an all-weather road	Talbhat to Jakhora road 1.5 Km			
		Village's Name provided with electricity	Yes			
		No. of households without access to drinking water	40			
		No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 01	(S) 01	(HS) 01	(VI) -
		Names of villages with access to Primary Health Centre	N/A			
		Names of villages with access to Veterinary Dispensary	N/A			
		Names of villages with access to Post Office	N/A			
		Names of villages with access to Banks	N/A			
		Names of villages with access to Markets/ mandis	N/A			
		Names of villages with access to Agro-industries	N/A			
		Total quantity of surplus milk deficit	N/A			
		No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) -	(S) -	(PA) -	(O) 03
		Name of villages with access to Anganwadi Centre	01			
		Cummunity centre, Panchayat Ghar				

Sr. No.	Name of Micro Watershed	Parameters	Status			
2	Tindra (2C2D4b3d)	Name of villages connected to the main road by an all-weather road	Talbehat to Lalitpur road 10 Km			
		Village's Name provided with electricity	Yes			
		No. of households without access to drinking water	NIL			
		No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 03	(S) 01	(HS) -	(VI) -
		Names of villages with access to Primary Health Centre	Nil			
		Names of villages with access to Veterinary Dispensary	Nil			
		Names of villages with access to Post Office	01			
		Names of villages with access to Banks	Nil			
		Names of villages with access to Markets/ mandis	Nil			
		Names of villages with access to Agro-industries	Nil			
		Total quantity of surplus milk deficit	800-200 Lit			
		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	02			
		Cummunity centre, Panchayat Ghar				

Sr. No.	Name of Micro Watershed	Parameters	Status			
3	Kakrari (2C2D4b3c)	Name of villages connected to the main road by an all-weather road	Talbhat to Lalitpur road 8 Km.			
		Village's Name provided with electricity	Yes			
		No. of households without access to drinking water	Yes			
		No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 02	(P) 01	(P)	(P)
		Names of villages with access to Primary Health Centre	N/A			
		Names of villages with access to Veterinary Dispensary	N/A			
		Names of villages with access to Post Office	N/A			
		Names of villages with access to Banks	N/A			
		Names of villages with access to Markets/ mandis	N/A			
		Names of villages with access to Agro-industries	N/A			
		Total quantity of surplus milk deficit	N/A			
		No. of milk collection centres	(U)	(U)	(U)	(U)

		(e.g. Union(U)/ Society(S)/ Private agency(PA)/others (O))	-	-	-	03
		Name of villages with access to Anganwadi Centre	02			
		Cummunity centre, Panchayat Ghar				

S. No.	Name of Micro Watershed	Parameters	Status			
4	Bijrotha-I (2C2D4c2f)	Name of villages connected to the main road by an all-weather road	Talbehat to Jakhora road 12 Km.			
		Village's Name provided with electricity	Yes			
		No. of households without access to drinking water	50			
		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	N/A			
		Names of villages with access to Veterinary Dispensary	Yes			
		Names of villages with access to Post Office	Yes			
		Names of villages with access to Banks	N/A			
		Names of villages with access to Markets/ mandis	N/A			
		Names of villages with access to Agro-industries	N/A			
		Total quantity of surplus milk deficit	N/A			
		No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/others (O))	(U) -	(S) -	(PA) -	(O) 03
		Name of villages with access to Anganwadi Centre	04			
		Cummunity centre, Panchayat Ghar				

Sr. No.	Name of Micro Watershed	Parameters	Status			
5	Lalaun (2C2D1d1e)	Name of villages connected to the main road by an all-weather road	Talbehat to Jakhora road 1.8 Km			
		Village's Name provided with electricity	N/A			
		No. of households without access to drinking water	30			
		No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 02	(S) 01	(HS) -	(VI) -
		Names of villages with access to Primary Health Centre	N/A			
		Names of villages with access to Veterinary Dispensary	N/A			
		Names of villages with access to Post Office	N/A			
		Names of villages with access to Banks	N/A			
		Names of villages with access to Markets/ mandis	N/A			

		Names of villages with access to Agro-industries	N/A			
		Total quantity of surplus milk deficit	N/A			
		No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/others (O))	(U) -	(S) -	(PA) -	(O) 04
		Name of villages with access to Anganwadi Centre	02			
		Cummunity centre, Panchayat Ghar				

Sr. No.	Name of Micro Watershed	Parameters	Status			
6	Bijrotha-II (2C2D4c2e)	Name of villages connected to the main road by an all-weather road	Talbehat to Jakhora road 10 Km.			
		Village's Name provided with electricity	Yes			
		No. of households without access to drinking water	20			
		No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 03	(S) 02	(HS) -	(VI) -
		Names of villages with access to Primary Health Centre	N/A			
		Names of villages with access to Veterinary Dispensary	Yes			
		Names of villages with access to Post Office	Yes			
		Names of villages with access to Banks	N/A			
		Names of villages with access to Markets/ mandis	N/A			
		Names of villages with access to Agro-industries	N/A			
		Total quantity of surplus milk deficit	N/A			
		No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/others (O))	(U) -	(S) -	(PA) -	(O) 04
		Name of villages with access to Anganwadi Centre	2			
		Cummunity centre, Panchayat Ghar				

S. No.	Name of Micro Watershed	Parameters	Status			
7	Gulenda (2C2D4d2g)	Name of villages connected to the main road by an all-weather road	Talbehat to Jakhora road 16 Km			
		Village's Name provided with electricity	Yes			
		No. of households without access to drinking water	N/A			
		No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 01	(S) 00	(HS) -	(VI) -
		Names of villages with access to Primary Health Centre	N/A			
		Names of villages with access to Veterinary Dispensary	N/A			

		Names of villages with access to Post Office	N/A			
		Names of villages with access to Banks	N/A			
		Names of villages with access to Markets/ mandis	N/A			
		Names of villages with access to Agro-industries	N/A			
		Total quantity of surplus milk deficit	N/A			
		No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/others (O))	(U) -	(S) -	(PA) -	(O) 04
		Name of villages with access to Anganwadi Centre	01			
		Cummunity centre, Panchayat Ghar				

Table 3.5: Details of common property resources In IWMP-VIII, Lalitpur

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	Targuwan (2C2D4b3b)	Wasteland/ degraded land	256.48	-	9.93		256.48	-	9.93	
		Pastures								
		Orchards								
		Village Woodlot	4.09		1.98					
		Forest								
		Village Ponds/ Tanks	1.21				1.21			
		Community Buildings			9.93					
		Weekly Markets								
		Permanent markets								
		Temples/ Places of worship								
		Habitat, Chakmarg, Sector, Road etc		35.70						
		Total	**261.78**	**35.7**	**21.84**		**257.69**		**9.93**	

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)
2	Tindra (2C2D4b3d)	Wasteland/ degraded land	298.08	-	11.54		298.08	-	11.54	
		Pastures								
		Orchards								
		Village Woodlot	2.89		0.82					
		Forest								
		Village Ponds/ Tanks	0.87				0.87			
		Community Buildings			11.54					
		Weekly Markets								
		Permanent markets								
		Temples/ Places of worship								
		Habitat, Chakmarg, Sector, Road etc		23.08						
		Total	**301.84**	**23.08**	**23.9**		**298.95**		**11.54**	

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	Kakrari (2C2D4b3c)	Wasteland/ degraded land	257.71	-	9.98		257.71	-	9.98	
		Pastures								
		Orchards								
		Village Woodlot	1.31		0.56					
		Forest								
		Village Ponds/ Tanks								
		Community Buildings			9.98					
		Weekly Markets								
		Permanent markets								
		Temples/ Places of worship		0.21						
		Habitat, Chakmarg, Sector, Road etc		19.95						
		Total	**259.02**	**20.16**	**20.52**		**257.71**		**9.98**	

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)
4	Bijrotha-I (2C2D4c2f)	Wasteland/ degraded land	358.93	-	13.89		358.93	-	13.89	
		Pastures								
		Orchards								
		Village Woodlot	4.31		1.23					
		Forest								
		Village Ponds/ Tanks		1.05			1.05			
		Community Buildings			13.89					
		Weekly Markets								
		Permanent markets								
		Temples/ Places of worship		1.21						
		Habitat, Chakmarg, Sector, Road etc		27.79						
		Total	**363.24**	**30.05**	**29.01**		**359.98**		**13.89**	

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)
5	Lalaun (2C2D1d1e)	Wasteland/ degraded land	289.59	-	11.21		289.59	-	11.21	
		Pastures								
		Orchards								
		Village Woodlot	1.89		0.38					
		Forest								

		Village Ponds/ Tanks	0.87				0.87			
		Community Buildings			11.21					
		Weekly Markets								
		Permanent markets								
		Temples/ Places of worship								
		Habitat, Chakmarg, Sector, Road etc		22.42						
		Total	**292.35**	**22.42**	**22.8**		**290.46**		**11.21**	

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	Bijrotha-II (2C2D4c2e)	Wasteland/ degraded land	341.13	-	13.20		341.13	-	13.20	
		Pastures								
		Orchards								
		Village Woodlot	2.39		1.17					
		Forest								
		Village Ponds/ Tanks	1.11				1.11			
		Community Buildings			7.37					
		Weekly Markets								
		Permanent markets								
		Temples/ Places of worship								
		Habitat, Chakmarg, Sector, Road etc		26.41						
		Total	**344.63**	**26.41**	**21.74**		**342.24**		**13.2**	

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	Gulenda (2C2D4d2g)	Wasteland/ degraded land	268.07		10.38		268.07		10.38	
		Pastures								
		Orchards								
		Village Woodlot	1.69		0.32					
		Forest								
		Village Ponds/ Tanks	0.87				0.87			
		Community Buildings			8.27					
		Weekly Markets								
		Permanent markets								
		Temples/ Places of worship								
		Habitat, Chakmarg, Sector, Road etc		20.75						
		Total	**270.63**	**20.75**	**18.97**		**268.94**		**10.38**	

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-VIII, Lalitpur

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	Targuwan (2C2D4b3b)	140.30	411.75	57.95	610
2	Tindra (2C2D4b3d)	126.90	561.18	16.92	705
3	Kakrari (2C2D4b3c)	98.40	499.38	17.22	615
4	Bijrotha-I (2C2D4c2f)	120.00	659.20	20.80	800
5	Lalaun (2C2D1d1e)	56.40	399.97	13.63	470
6	Bijrotha-II (2C2D4c2e)	77.70	264.55	27.75	370
7	Gulenda (2C2D4d2g).	105.00	357.50	37.50	500
	Total - IWMP-VIII	**724.70**	**3153.53**	**191.77**	**4070**

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 124.79 to 155.32 per cent.

Table 3.7: Micro-watershed wise details of Crops, their Productivity and Production in IWMP-VIII Lalitpur
Name of MWS - Targuwan (2C2D4b3b)

		Area in		Productivity		Production (Q)			
Sino	**Crop.**	**(Ha.)**		**Q/Ha**					
						Grain/Main product		**Fodder/Fuel/**	
								Other Product.	
		Irrigated	**Rainfed**	**Irrigated**	**Rainfed.**	**Irrigated**	**Rainfed**	**Irrigated**	**Rainfed**
A	**Kharif**								
1	Urd		63.48		4.0		253.92		63.48
2	Moong		42.12		3.4		143.208		35.80
3	Arhar		54.53		4.8		261.744		916.10
4	Sorghum		30.81		3.4		104.754		110.65
5	Til		47.24		2.6		122.824		128.53
	Total		**238.18**				**886.45**		**1254.57**
B	**Rabi**								
1	Wheat	15.96	188.44	21.00	15	335.16	2826.60	671.09	3391.92
2	Barley		41.37		8.6		355.78		498.09
3	Masoor		52.36		5.8		303.69		307.87
4	Gram		121.35		6		728.10		735.4
5	Pea		34.18		5.3		181.15		187.67
6	Mustard		60.45		4.7		284.12		285.7
	Total		**498.15**				**4679.44**		**5406.65**
C	**Zaid**								
	Nil								
	Cultivable Area	**626.79**		**Cropping Intensity**		**117**			

Sino	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		71.46		4		285.84		71.46
2	Moong		60.12		3.4		204.41		51.10
3	Arhar		68.43		4.8		328.46		1149.62
4	Sorghum		40.81		3.4		138.75		140.98
5	Til		57.24		2.6		148.82		151.22
	Total		**298.06**				**1106.29**		**1564.39**
B	**Rabi**								
1	Wheat	13.32	180.25	21.00	15	279.72	2703.75		3244.5
2	Barley		57.21		10.6		606.43		849.00
3	Masoor		61.93		5.8		359.19		410.5
4	Gram		123.68		6		742.08		746.98
5	Pea		67.82		5.8		393.36		400.65
6	Mustard		96.93		4.7		455.57		470.43
	Total		**587.82**				**5260.38**		**6122.06**
C	**Zaid**								
	Nil								
	Cultivable Area		**867.89**	**Cropping Intensity**		**102**			

Name of MWS Kakrari (2C2D4b3c)

Sino	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		52.43		4		209.72		55.19
2	Moong		40.52		3.4		137.77		36.25
3	Arhar		42.43		4.8		203.66		712.824
4	Sorghum		40.81		3.4		138.75		140.9
5	Til		57.24		2.5		143.10		145.75
	Total		**233.43**				**833.01**		**1090.92**
B	**Rabi**								
1	Wheat	17.09	185.25	21	14.5	358.89	2686.13	689.09	3491.96
2	Barley		51.41		10.2		524.38		734.13
3	Masoor		62.93		5.7		358.70		165.76
4	Gram		132.68		5.8		769.54		775.34
5	Pea		41.82		5.5		230.01		235.56
6	Mustard		91.92		4.8		441.22		445.7
	Total		**566.01**				**5009.98**		**5848.46**
C	**Zaid**								
	Nil								
	Cultivable Area	**744.44**		**Cropping Intensity**	**110**				

Name of MWS Bijrotha-I (2C2D4c2f)

		Area in		**Productivity**		**Production (Q)**			
Sino	**Crop.**	**(Ha.)**		**Q /Ha**					
						Grain/Main product		**Fodder/Fuel/**	
								Other Product.	
		Irrigated	**Rainfed**	**Irrigated**	**Rainfed.**	**Irrigated**	**Rainfed**	**Irrigated**	**Rainfed**
A	**Kharif**								
1	Urd		83.43		4.0		333.72		87.82
2	Moong		71.59		3.4		243.41		64.05
3	Arhar		87.43		4.8		419.66		1468.82
4	Sorghum		67.81		3.4		230.55		237.98
5	Til		79.44		2.6		206.54		210.67
	Total		389.7						**2069.35**
B	**Rabi**								

1	Wheat	21.89	197.78	21	15.0	459.69	2966.70	734.9	3856.71
2	Barley		75.9		10.6		804.54		1126.36
3	Masoor		75.87		5.8		440.05		450.78
4	Gram		159.6		6.0		957.60		965.4
5	Pea		85.89		5.8		498.16		510.45
6	Mustard		96.99		4.8		465.55		470.6
7	Linseed		67.78		4.0		271.12		275.23
	Total		**759.81**						**7655.53**
C	**Zaid**								
	Nil								
	Cultivable Area	**1043.33**		**Cropping Intensity**	**112**				

Name of MWS Lalaun (2C2D1d1e)

		Area in		**Productivity**		**Production (Q)**			
Sino	**Crop.**	**(Ha.)**		**Q /Ha**					
						Grain/Main product		**Fodder/Fuel/**	
								Other Product.	
		Irrigated	**Rainfed**	**Irrigated**	**Rainfed.**	**Irrigated**	**Rainfed**	**Irrigated**	**Rainfed**
A	**Kharif**								
1	Urd		102.48		4		409.92		107.87
2	Moong		12.92		3.4		43.93		11.56
3	Arhar		44.13		4.8		211.82		741.38
4	Sorghum		20.81		3.4		70.75		75.9
5	Til		73.32		2.6		190.63		196.67
	Total		**253.66**						**1133.39**
B	**Rabi**								
1	Wheat	14.9	177.17	21	15	312.9	2657.55	601.45	3454.82
2	Barley		45.5		10.6		482.30		675.22

3	Masoor		74.41		5.8		431.58		435.6
4	Gram		102.67		6		616.02		620.89
5	Pea		56.72		5.8		328.98		331.56
6	Mustard		89.84		4.8		431.23		435.09
7	Linseed		65.33		4		261.32		265.45
	Total		**611.64**						**6218.63**
C	**Zaid**								
	Nil								
	Cultivable Area	**810.3**		**Cropping Intensity**	**109**				

Name of MWS Bijrotha-II (2C2D4c2e)

		Area in		**Productivity**		**Production (Q)**			
Sino	**Crop.**	**(Ha.)**		**Q /Ha**					
						Grain/Main product		**Fodder/Fuel/**	
								Other Product.	
		Irrigated	**Rainfed**	**Irrigated**	**Rainfed.**	**Irrigated**	**Rainfed**	**Irrigated**	**Rainfed**
A	**Kharif**								
1	Urd		113.59		4		454.36		119.57
2	Moong		15.87		3.4		53.96		14.20
3	Arhar		55.25		4.8		265.20		928.20
4	Sorghum		38.83		3.4		132.02		135.9
5	Til		93.32		2.6		242.63		245.76
	Total		**316.86**						**1443.63**
B	**Rabi**								
1	Wheat		188.75		15		2831.25		3680.63
2	Barley		65.5		10.6		694.30		972.02
3	Masoor		77.41		5.8		448.98		855.78
4	Gram		164.67		6		988.02		510.35

5	Pea		86.72		5.8		502.98		275.09
6	Mustard		100.84		4.8		484.03		315.9
7	Linseed		78.33		4		313.32		310.87
	Total		**762.22**						**6920.64**
C	**Zaid**								
	Nil								
	Cultivable Area	**983.08**		**Cropping Intensity**	**110**				

Name of MWS Gulenda (2C2D4d2g)

		Area in		**Productivity**		**Production (Q)**			
Sino	**Crop.**	**(Ha.)**		**Q /Ha**					
						Grain/Main product		**Fodder/Fuel/**	
								Other Product.	
		Irrigated	**Rainfed**	**Irrigated**	**Rainfed.**	**Irrigated**	**Rainfed**	**Irrigated**	**Rainfed**
A	**Kharif**								
1	Urd		98.59		4		394.36		103.78
2	Moong		11.87		3.4		40.36		10.62
3	Arhar		40.99		4.8		196.75		688.63
4	Sorghum		33.83		3.4		115.02		120
5	Til		74.32		2.6		193.23		196.78
	Total		**259.6**						**1119.81**
B	**Rabi**								
1	Wheat	10.56	185.4	21	15	221.76	2781.00	504.56	3476.25
2	Masoor		82.65		5.8		479.37		485.78
3	Gram		178.66		5.8		1036.23		1040.45

4	Pea		88.91		6		533.46		540.6
5	Mustard		41.24		4.8		197.95		200.34
6	Linseed		45.32		4		181.28		185.56
	Total		**622.18**						**5928.98**
C	**Zaid**								
	Nil								
	Cultivable Area	**791.78**		**Cropping Intensity**		**113**			

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 3.8: 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	Targuwan (2C2D4b3b)	Bamhorisar Targuwan Bijrotha	Nil	Nil	Nil	Nil	12	2.5	30
2	Tindra (2C2D4b3d)	Tindra Kakrari Terai Udguwan Bamhorisar	Nil	Nil	Nil	Nil	25	2.8	70
3	Kakrari (2C2D4b3c)	Targuwan Bamhorisar Bijrotha Kakrari	Nil	Nil	Nil	Nil	16	3	48
4	Bijrotha-I (2C2D4c2f)	Bijrotha Rara	Nil	Nil	Nil	Nil	20	2.5	50

		Miyao Talbehat Range							
5	Lalaun (2C2D1d1e)	Talbehat Range Bijrotha Lalaun	Nil	Nil	Nil	Nil	35	3	105
6	Bijrotha-II (2C2D4c2e)	Talbehat Range Lalaun Bijrotha Rara Rajpur Miyao	Nil	Nil	Nil	Nil	28	3	84
7	Gulenda (2C2D4d2g)	Lalaun Bhawarkali Gulenda Talbehat Range	Nil	Nil	Nil	Nil	22	2.5	55
	Total for IWMP- VIII						**158**	**19.3**	**442**

(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 3.9: Livestock Population in IWMP-VIII, Lalitpur (All Figures are in No.)

Name of Micro watershed with code	Name of Village	Cow		Buffalo		Ox/Bull	Goat	Sheep	Piggeries	Poultry			Other Specify
		Desi	Crossed	Desi	Murrah					Broiler	Layers	Total	
Targuwan (2C2D4b3b)	Udguwan	110	45	350	100	40	140	15			110	910	
Tindra (2C2D4b3d)	Bamhorisar	125	75	120	60	12	220	20			100	732	0
Kakrari (2C2D4b3c)	Kakrari	80	28	150	51	42	140	17			155	663	0
Bijrotha-I (2C2D4c2f)	Targuwan	212	57	113	40	57	145	20			120	764	0
Lalaun (2C2D1d1e)	Bijrotha	225	68	116	32	60	152	22			131	806	0
Bijrotha-II (2C2D4c2e)	Rajpur	112	55	150	45	40	131	25			125	683	0

Gulenda (2C2D4d2g)	Lalaun	100	50	240	40	38	120	10			135	733	0
	Gulenda	150	70	215	68	45	125	11			128	812	
	Miyao	160	72	218	65	47	129	8			100	799	
	Terai	165	33	360	75	38	70	20			70	831	
	Total	**1439**	**553**	**2032**	**576**	**419**	**1372**	**168**			**1174**	**7733**	

Table 3.10: Productivity of livestock in IWMP-VIII, Lalitpur

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/day	
		Desi	Crossed	Desi	Murrah				
Targuwan (2C2D4b3b) Tindra (2C2D4b3d) Kakrari (2C2D4b3c) Bijrotha-I (2C2D4c2f) Lalaun (2C2D1d1e) Bijrotha-II (2C2D4c2e) Gulenda (2C2D4d2g)	Udguwan	2.3	5.8	3.6	6.2	26	-	154	
	Bamhorisar	2.1	5.4	3.4	6.4	27	-	156	
	Kakrari	1.9	5.3	3.3	6.3	29	-	145	
	Targuwan	2.4	6.1	3.8	6.78	32	-	126	
	Bijrotha	2.6	4.9	3.7	5.8	30	-	130	
	Rajpur	2.3	6.2	3.45	5.4	28	-	136	
	Lalaun	2.5	6.4	3.75	5.2	29	-	140	
	Gulenda	2.6	5.8	3.8	6.7	27	-	156	
	Miyao	1.9	5.3	3.3	6.3	29	-	145	
	Terai	2.4	6.1	3.8	6.78	31	-	126	
Average for IWMP-VIII		**2.31**	**5.73**	**3.59**	**6.19**	**28.80**		**141.40**	

3.6 Forest and Grassland

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

Table 3.11: Forest, vegetative cover/grassland in IWMP-VIII Lalitpur

Name & Code of Micro watershed	Name of Village	Forest (Area ha)			Grassland (Area ha)		Other vegetative cover (Area ha)	
		Reserve	Gram Samaj (Natural /Planted)	Total	Gram Samaj	Private	Gram Samaj	Private
Targuwan (2C2D4b3b) Tindra (2C2D4b3d) Kakrari (2C2D4b3c) Bijrotha-I (2C2D4c2f) Lalaun (2C2D1d1e) Bijrotha-II (2C2D4c2e) Gulenda (2C2D4d2g)	Udguwan	1.95	1.95	-	-	-	2.63	1.95
	Bamhorisar	0.77	0.77	-	-	-	1.27	0.77
	Kakrari	1.65	1.65	-	-	-	5.42	1.65
	Targuwan	0.98	0.98	-	-	-	3.25	0.98
	Bijrotha	1.54	1.54				3.18	1.54
	Rajpur	0.85	0.85	-	-	-	1.86	0.85
	Lalaun	1.20	1.20	-	-	-	4.39	1.20
	Gulenda	0.85	0.85	-	-	-	0.55	0.85
	Miyao	0.15	0.15	-	-	-	0.40	0.15
	Terai	1.01	1.01				3.20	1.01
Total for Project IWMP-VIII		**10.95**	**10.95**				**26.15**	**10.95**

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 3.12: Livelihood Status of Landless People

Name & Code of micro watershed	Name of Gram Panchyat	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				
Targuwan (2C2D4b3b) Tindra (2C2D4b3d)	Udguwan	Labour/ Batai	2		3	-	5	26500	Goatary Poultry Tailoring & as Mentioned in	125000	With investment work i.e extra

Kakrari (2C2D4b3c) Bijrotha-I (2C2D4c2f) Lalaun (2C2D1d1e) Bijrotha-II (2C2D4c2e) Gulenda (2C2D4d2g)									Activities in Livelihood Action Plan		income in SHG
	Bamhorisar	Labour/ Batai	3		4	1	8	26500	Goatary Poultry Tailoring & as Mentioned in Activities in Livelihood Action Plan	125000	With investment work i.e extra income in SHG
	Kakrari	Labour/ Batai Labour/ Batai	4		2	-	6	26500	Goatary Poultry Tailoring & as Mentioned in Activities in Livelihood Action Plan	125000	With investment work i.e extra income in SHG
	Targuwan	Labour/ Batai Labour/ Batai	2		3	3	8	26500	Goatary Poultry Tailoring & as Mentioned in Activities in Livelihood Action Plan	125000	With investment work i.e extra income in SHG
	Bijrotha	Labour/ Batai Labour/ Batai	15		17	9	41	26500	Goatary Poultry Tailoring & as Mentioned in Activities in Livelihood Action Plan	125000	With investment work i.e extra income in SHG
	Rajpur	Labour/ Batai Labour/ Batai	5		4	2	11	26500	Goatary Poultry Tailoring & as Mentioned in Activities in	125000	With investment work i.e extra income in

									Livelihood Action Plan		SHG
	Lalaun	Labour/ Batai Labour/ Batai	-		2	-	2	26500	Goatary Poultry Tailoring & as Mentioned in Activities in Livelihood Action Plan	125000	With investment work i.e extra income in SHG
	Gulenda	Labour/ Batai Labour/ Batai	2		1	-	3	26500	Goatary Poultry Tailoring & as Mentioned in Activities in Livelihood Action Plan	125000	With investment work i.e extra income in SHG
	Miyao	Labour/ Batai Labour/ Batai	3		6	2	11	26500	Goatary Poultry Tailoring & as Mentioned in Activities in Livelihood Action Plan	125000	With investment work i.e extra income in SHG
	Terai	Labour/ Batai Labour/ Batai	2		5	2	9	26500	Goatary Poultry Tailoring & as Mentioned in Activities in Livelihood Action Plan	125000	With investment work i.e extra income in SHG
Total			**38**		**47**	**19**	**104**				

Table 3.13: 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				
Targuwan (2C2D4b3b) Tindra (2C2D4b3d) Kakrari (2C2D4b3c) Bijrotha-I (2C2D4c2f) Lalaun (2C2D1d1e) Bijrotha-II (2C2D4c2e) Gulenda (2C2D4d2g)	Udguwan	Agriculture + A.H., Labour, Batai	35		51	17	103	0.30-0.40	Improvement of agri.prod. Improvement of animal husbandry NRM, Livelihood activities	0.50-0.60	
	Bamhorisar	Agriculture + A.H., Labour, Batai	79		173	57	309	0.30-0.40		0.50-0.60	
	Kakrari	Agriculture + A.H., Labour, Batai	95		165	40	301	0.30-0.40		0.50-0.60	
	Targuwan	Agriculture + A.H., Labour, Batai	72		159	48	279	0.30-0.40		0.50-0.60	
	Bijrotha	Agriculture + A.H., Labour, Batai	298		599	195	1092	0.30-0.40		0.50-0.60	
	Rajpur	Agriculture + A.H., Labour, Batai	108		288	75	471	0.30-0.40		0.50-0.60	
	Lalaun	Agriculture + A.H., Labour, Batai	56		102	22	180	0.30-0.40		0.50-0.60	
	Gulenda	Agriculture + A.H.,	47		88	16	151	0.30-0.40		0.50-0.60	

		Labour, Batai									
	Miyao	Agriculture + A.H., Labour, Batai	100		212	65	377	0.30-0.40		0.50-0.60	
	Terai	Agriculture + A.H., Labour, Batai	93		209	63	365	0.30-0.40		0.50-0.60	
			983		**2046**	**598**	**3628**				

Table 3.14: Present Livelihood Status (No. of households/Income per year) in IWMP-VIII, Lalitpur ‘Income in Rs

Name of MWS with code	Name of Gram Panchyat	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
Targuwan (2C2D4b3b) Tindra (2C2D4b3d) Kakrari (2C2D4b3c) Bijrotha-I (2C2D4c2f) Lalaun (2C2D1d1e) Bijrotha-II (2C2D4c2e) Gulenda (2C2D4d2g)	Udguwan	82	13900	60	40500	38	25600			2	15000	1	4000	2	7000	-	-	75	12000	120	24000
	Bamhorisar	80	13500	56	41500	22	19000		-	-	-	-	-	-	-	-	-	65	12000	105	26000
	Kakrari	79	13400	57	43500	26	21000		-	-	-	-	-	-	-	-	-	62	12000	108	22500
	Targuwan	75	13200	55	42500	38	25600			2	15000	1	4000	2	7000	-	-	75	12000	120	24000
	Bijrotha	70	13000	51	46500	32	25000		-	2	15000			2	7000	-	-	67	12000	69	20000
	Rajpur	85	14200	62	41500	28	16000		-			1	4000	2	7000	-	-			79	20000
	Lalaun	83	14000	61	44500	27	22000			-	-	1	4000	2	7000	-	-	72	12000	115	18000
	Gulenda	70	14500	50	40500	35	26800			2	15000	1	4000	2	7000			74	12000	118	21000
	Miyao	78	15500	56	42200	29	21500		-	-	-	1	4000	2	7000	-	-	66	12000	110	27500
	Terai	70	13000	51	46500	64	24300											56	12000	409	27500
IWMP-VIII		77	13820	56	42970	34	22680			2	15000	1	4000	2	7000			68	12000	135	23050

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 3.15: Ground Water Status in IWMP-VIII, Lalitpur

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		
Targuwan (2C2D4b3b) Tindra (2C2D4b3d) Kakrari (2C2D4b3c) Bijrotha-I (2C2D4c2f) Lalaun (2C2D1d1e) Bijrotha-II (2C2D4c2e) Gulenda (2C2D4d2g)	Udguwan	9.10	7.20	05	
	Bamhorisar	8.30	7.10	03	
	Kakrari	8.50	7.00	06	
	Targuwan	8.10	6.30	06	
	Bijrotha	9.10	7.30	05	
	Rajpur	8.50	7.50	04	
	Lalaun	8.15	6.25	05	
	Gulenda	9.20	7.40	04	
	Miyao	12.10	9.20	03	
	Terai	11.10	9.40	03	
	Avg.	**9.22**	**7.47**	**44**	

Depth of water table in open shallow dug wells in the project area was about 8 to 13 m during pre monsoon; however it was in the range of 7-10 m during post monsoon season.

Table 3.16: Irrigation Status in IWMP-VIII, Lalitpur

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	Targuwan (2C2D4b3b)	Bamhorisar Targuwan Bijrotha	238.18	514.11		752.29	626.79		15.96		15.96	15.96	610.83
2	Tindra (2C2D4b3d)	Tindra Kakrari Terai Udguwan Bamhorisar	298.06	601.14		899.2	723.24		13.32		13.32	13.32	709.92
3	Kakrari (2C2D4b3c)	Targuwan Bamhorisar Bijrotha Kakrari	233.43	583.10		816.53	630.88		17.09		17.09	17.09	613.79

4	Bijrotha-I (2C2D4c2f)	Bijrotha Rara Miyao Talbehat Range	389.70	781.70		1171.4	876.75		21.89		21.89	21.89	854.86
5	Lalaun (2C2D1d1e)	Talbehat Range Bijrotha Lalaun	253.66	626.54		880.2	704.61		14.90		14.90	14.90	689.71
6	Bijrotha-II (2C2D4c2e)	Talbehat Range Lalaun Bijrotha Rara Rajpur Miyao	316.86	762.22		1079.08	812.46		-		-	-	812.46
7	Gulenda (2C2D4d2g).	Lalaun Bhawarkali Gulenda Talbehat Range	259.60	632.74		892.34	649.00		10.56		10.56	10.56	638.44
	Total for IWMP-VIII		**1989.49**	**4501.55**		**5938.08**	**5023.72**		**93.72**		**93.72**	**93.72**	**4930.00**

Table 3.17: Source wise Area Irrigated in IWMP-VIII,Lalitpur (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	Targuwan (2C2D4b3b)	Bamhorisar Targuwan Bijrotha						11	15.96	-	-					15.96	
2	Tindra (2C2D4b3d)	Tindra Kakrari Terai Udguwan Bamhorisar						09	13.32	-	-					13.32	
3	Kakrari (2C2D4b3c)	Targuwan Bamhorisar Bijrotha Kakrari						10	17.09	-	-					17.09	
4	Bijrotha-I	Bijrotha						12	21.89	-	-					21.89	

	(2C2D4c2f)	Rara Miyao Talbehat Range															
5	Lalaun (2C2D1d1e)	Talbehat Range Bijrotha Lalaun						15	14.90							14.90	
6	Bijrotha-II (2C2D4c2e)	Talbehat Range Lalaun Bijrotha Rara Rajpur Miyao						13	-							-	
7	Gulenda (2C2D4d2g).	Lalaun Bhawarkali Gulenda Talbehat Range						11	10.56							10.56	
	Total							**133**	**93.72**							**93.72**	

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-VIII, , Lalitpur-III,Lalitpur 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 Jhansi. Details of PIA are presented in subsequent section.

Table 4.1: Details of Project Implementing Agency (PIA), IWMP-VIII, Lalitpur

S. No.	Particulars of PIA	
1	Date of selection of PIA	-
2	Type of organization	State Govt. Agency
3	Name of organization	Department of Land Development and Water Resources, Uttar Pradesh
4	Designation & Address	Bhoomi Sanrakshan Adhikari, Land Development and Water Resources, Unit Lalitpur-7 District –Lalitpur
5	Telephone	off- 05175 ,232033
6	Fax	-
7	E-mail	Bsaldwrlalit12@eduinfosttem.com

Table 4.2: Details of Staff at PIA, IWMP-VIIILalitpur

S.No	Name	Designation	M/F	Qualification	Field Of Experience and Period
1	Shri Amar Nath	BSA	M	B.Tech	28
2	Shri Rajendra Prasad Kushwaha	JE	M	Diploma in Civil Engg	28
3	Shri Suresh Chandra Mishra	Accountant	M	M.Com	30
4	Shri S.P.Singh	ASCI	M	Diploma in agriculture	32
5	Shri Rajndra Narayan Shrivastava	Jiledar	M	High School	29
6	Shri Ram Naresh Sharma	Sinch Paryavkshak	M	Intrmediate	25
7	Shri Ramadhar Katiyar	Sinch Paryavkshak	M	Graduate	25

8	Rahul Kushwaha	ASCI	M	Intermdiate	23
9	Shri Prem Kumar	Seenchpal	M	Intermediate	30
10	Shri Anil Kumar Sharma	Seenchpal	M	Graduate	21
11	Shri Pushpendra Kumar	ASCI	M	High School	21
12	Shri Sandip Kumar Verma	ASCI	M	Intermediate	25
13	Shri Anil Singh	ASCI	M	M.A.	07
14	Shri Rakesh Kumar	ASCI	M	Intermediate	07
15	Shri Suresh Chandra Kannojiya	ASCI	M	Intermediate	21
16	Shri Ratan Prakash Mishra	ASCI	M	High School	33
17	Shri Ram Chandra Tripathi	Draftman	M	Intermediate	31
18	Shri Anil Kumar Shrivastava	Treasurer	M	B.Com	29
19	Shri Rajendra Kumar Shrivastava	Senior Clerk	M	Graduate	34
20	Shri Parvez Alam	Junior Clrk	M	M.Sc, MBA	7

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

Project- IWMP VIII **PIA- BSA, LDWR, Lalitpur-III** **District –Lalitpur**

S. No.	Name of WDT member	M/F	Age	Qualification / Experience	Description of professional training	Role/ Function	Date of appointment of WDT member
1.	Sri Kuldp Tiwari	M			(i)SIRDBKT Lucknow 20-22 Oct. PIA and Watershed (ii) 2-6 Jan on livlihood		
2.	Shri Akhilsh Kumar	M			7-9 Jan2012 Training on water Management from NRCAF Jhansi.		
3.	Shri Amit	M			-		
	Rashmi Bharti	F		M.A. Sociology	-		

Table 4.4: Details of Watershed Committee (WC)

Gram Panchayat: Udguwan **Name of Project: - IWMP-VIII** **District-Lalitpur**

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
1	Udguwan	-----	President	M	-	-	√	-	√	-	-				5th	Implementation of Watershed programme under the supervision of PIA (as per common guide lines)
			Secretary	M	-	-	√	√	-	-	-				B.A	
			Member	M	√-	-		√	-	-	-	√			litarete	
			Member	M	√	-	-	√	-	-	-	√			8th	
			Member	M	-	-	√	-	√	-	-	√			8th	
			Member	M	-	-	√	-	-	-		√			litarete	
			Member	F	-	-	√	√	-	-	√				litarete	
			Member	F	-	-	√	-	√	-	√				litarete	
			Member	M	√	-	-	√	-	-	-			√	illitarete	
			Member	M		-	√	√	-	-	-			√	litarete	

Gram Panchayat: Bamhorisar **Name of Project: - IWMP VIII** **District-Lalitpur**

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
2	**Bamhorisar**		President	F	√	-		-	-	√	-	-	-		8th	Implementation of Watershed programme under the
			Secretary	M	-	-	√	√	-	-	-				B.A	
			Member	F	√	-	-	-	√	-	-	√		-	Literate	
			Member	M	-	-	√	-	√	-	-	-	-	-	5th	
			Member	M	√	-	-	-	√	-	-		-	-	8th	

			Member	M	√	-	-	-	√	-	-	√	-	-	5th	supervision of PIA (as per common guide lines)
			Member	F	√	-	-	-	√	-	-	-	√	-	inter	
			Member	M	√	-	-	-	√	-	-	-	√	-	5th	
			Member	F	-	-	√	-	√	-	-	√	-	-	Inter	

Gram Panchayat: Kakrari **Name of Project: - IWMP VIII** **District- Lalitpur**

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	Kakrari		President	F	√	-		-	√		-	-	-	-	5th	Implementation of Watershed programme under the supervision of PIA (as per common guide lines)
			Secretary	M		-	√	-	√	-	-	-	-	-	8	
			Member	M		-	√	-		√	-	√	-	-	5	
			Member	F	√	-	√	√		-	-	√	-	-	8th	
			Member	M		-	√	√		-	-	√	-	-	5	
			Member	M		-	√	√		-	√	-	-	-	-	
			Member	M		-	√	-		√	-	-	√	-	10	
			Member	M		-	√	√		-	-	-	√	-	-	
			Member	M		-	√	-	√	-	-	-	-	√	8	

Jal Sanrakshan Samiti Targuwan **Name of Project:- IWMP VIII** **District- Lalitpur**

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	Targuwan		President	M	-	-	√	-	-	√	-	-	-	-	Literate	Implementation of Watershed programme
			Secretary	M	-	-	√	-	-	√	-	-	-	-	12th	
			Member	M		-	√	-	√	-	-	-	-	√	8th	

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

Jal Sanrakshan Samiti, Bijrotha **Name of Project:- IWMP VIII** **District- Lalitpur**

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
5	Bijrotha		President	F		-	√	-		√	-	-	-		5th	Implementation of Watershed programme under the supervision of PIA (as per common guide lines)
			Secretary	M		-	√		-	√	-	-	-		Inter	
			Member	M		-	√		-	√	-	√	-	-	Literate	
			Member	M	√	-			-	√	-	√	-	-	8th	
			Member	M		-	√		√		-	√	-		5th	
			Member	M		-	√	√			-	√	-		5th	
			Member	M	√	-		√	-		-	-	√	-	5th	
			Member	M		-	√	-	√		-	-	√	-	8th	
			Member	M	√	-		√			-		-	√	5th	
			Member	M		-	√	-		√	-		-	√	Literate	

Jal Sanrakshan Samiti, Rajpur **Name of Project: - IWMP VIII** **DistrictLalitpur**

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
6	Rajpur		President	M		-	√	-		√	-	-	-	-	8th	Implementation

			Secretary	M		-	√	√		-	-	-	-	-	B.A	of Watershed programme under the supervision of PIA (as per common guide lines)
			Member	M	√	-		√		-	-	-	-	√	8th	
			Member	F	√	-		√		-	-	-	-	√	Literate	
			Member	M	√	-			√	-	-	√	-	-	5th	
			Member	M	√	-		-	√	-	-	√	-	-	Literate	
			Member	F	√	-			√	-	-	√	-	-	8th	
			Member	M		-	√	-	√	-	-	-	√	-	5th	
			Member	M		-	√			√	-	-	√	-	5th	

Jal Sanrakshan Samiti , Lalaun **Name of Project:- IWMP VIII** **District- Lalitpur**

S. No.	Name of Gram Sabha/ GP	Date of Constitution/ Registration as a Society (dd/mm/ yyyy)	Designation	M /F	S C	ST	OB C/G en	SF	M F	LF	Lan d- less	UG	SH G	GP	Educa- tional qualifi- cation	Function(s) assigned
7	Lalaun		President	F			√			√	-		-	-	8th	Implementation of Watershed programme under the supervision of PIA (as per common guide lines)
			Secretary	M	√					√	-		-	-	Inter	
			Member	F			√			√	-	√	-	-	Literate	
			Member	M			√		√		-	√	-	-	Literate	
			Member	M			√		√		-	√	-	-	Literate	
			Member	M			√	√			-	√		-	8th	
			Member	F	√			√			-	-	√	-	8th	
			Member	M			√		√		-	-	√	-	8th	
			Member	M	√									√		
			Member	M	√									√		

Jal Sanrakshan Samiti, Gulenda **Name of Project: - IWMP VIII** **District- Lalitpur**

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 qualifi-cation	Function(s) assigned
8	**Gulenda**		President	M	√	-			-	√	-	-	-		8th	Implementation of Watershed programme under the supervision of PIA (as per common guide lines)
			Secretary	M	-	-	√	-		√	-	-	-		Inter	
			Member	M	√	-			√	-	-	√	-	-	Illiterate	
			Member	M	-	-	√	-		√	-	√	-	-	literate	
			Member	M	√	-			√	-	-	√	-	-	Illiterate	
			Member	M		-	√	√		-	-	√		-	Illiterate	
			Member	M			√	√		-	-	-	√	-	5th	
			Member	M	√	-			√	-	-	-	√	-	Illiterate	
			Member	M	-	-	√	√		-	-	-	-	√	5th	
			Member	M	√	-				√	-	-	-	√	8th	

Jal Sanrakshan Samiti, Miyao **Name of Project: - IWMP VIII** **District- Lalitpur**

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 qualifi-cation	Function(s) assigned
9	**Miyao**		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	√	-			√	-		√	-	-	5th	
			Member	F		-	√	√		-	√			-	8th	
			Member	F			√	√		-	-	-	√	-	Literate	
			Member	M	√	-			√	-	-	-	√	-	8th	
			Member	M	-	-	√	√		-	-	-	-	√	8th	
			Member	M	√	-				√	-	-	-	√	8th	

Jal Sanrakshan Samiti, Terai **Name of Project: - IWMP VIII** **District- Lalitpur**

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 qualifi-cation	Function(s) assigned
10	Terai		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	-	-	√	-		√	-	√	-	-	literate	
			Member	M		-	√		√	-	-		-	-	literate	
			Member	F		-	√	√		-	-			√	5th	
			Member	M			√	√		-	-	-	√	-	Illiterate	
			Member	M	√	-			√	-	-	-	√	-	literate	
			Member	M	-	-	√	√		-	-	-	-	√	5th	

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

Sr. No.	Name of micro watershed	Name of village	Name of group	Date of constitution	Name of Adhyaksh	Name of Sachiv	Total No. of Members				Name of Bank and Address Account No. & Date	Up to date Saving Rs.	Group activities
							Women	Sc/St	Other	Total			
1	Targuwan	Targuwan	Gaud Baba SHG	12.1.12	Durjanlal	Pyarelal	-	-	5	5	Under process	750	Goat Keeping
			Siddha Baba SHG	12.1.12	Mohan	Khm Chandra	-	-	5	5	Under process	750	Goat Keeping
	Total								**10**	**10**			
2	Tindra	Tindra	Vaishnomata SHG	5.12.11	Sir Nam	Arjun		12		12	DCB Talbehat	2400	Goat Keeping
		Bamhorisar	Durga SHG	12.7.11	Rekha	Rakhi	9	2		11	DCB Talbehat	5500	Dalia Making
		Bamhorisar	Ma Santoshi SHG	20.11.11	Pushpa	Mamta	9	2		11	DCB Talbehat	3500	Bari, Papad

													Making
		Bamhorisar	Sharda SHG	20.10.11	Raj Kumari	Sunita	7	3		10	DCB Talbehat	3500	Goat Keeping
		Terai	Jai Deva Mata SHG	18.2.12	Ghanshyam	Ramesh			5	5	DCB Talbehat	1250	Goat Keeping
		Terai	Santoshi SHG	15.4.12	Jamna	Parsu			5	5	DCB Talbehat	500	Goat Keeping
	Total						**25**	**19**	**10**	**54**			
3	Kakrari	Kakrari	Jai Bajrangbali SHG	15.1.12	Ramesh	Lakhan		11		11	DCB Talbehat	1000	Goat Keeping
		Kakrari	Deva mata SHG	13.12.11	Mulayam	Ram Sewak		12		12	DCB Talbehat	1000	Goat Keeping
		Bamhorisar	Om SHG	30.11.11	Kusum	Mamta		8	4	12	DCB Talbehat	3600	Goat Keeping
		Targuwan	Deva mata SHG	5.1.12	Raj Kumari	Kala devi	12			12	DCB Talbehat	3000	Goat Keeping
	Total						**12**	**31**	**4**	**47**			
4	Bijrotha -I	Bijrotha			UNDER PROCESS								
		Miyao	Jai Mata Di SHG	5.2.12	Dhanush Kumari	Bal Kuwar	12		2	14		2000	Goat Keeping
		Miyao	Bhole Shankar SHG	14.2.12	Shiv Kuwar	Nisha Raja			11	11		1000	Bari, Papad Making
		Miyao	Jai Bajangbali SHG	14.2.12	Guddi	Makkhan						1000	Goat Keeping
		Rara				UNDER PROCESS							
	Total						**12**		**13**	**25**			
5	Lalon	Lalon	Jai Ma Durga SHG	13.12.11	Sangita	Mamta	12			12	Under process	1200	
		Lalon	Nandani Mata SHG	2.12.11	Arvind	Mangilal		4	7	11	Under process	1200	
		Bijrotha				UNDER PROCESS							
	Total						**12**	**4**	**7**	**23**			

6	Bijrotha-II	Bijrotha	Jai Durga SHG	2.7.11	Rekha	Sangita			13	13	DCB Talbehat	6500	Goat Keeping
		Miyao	Sai Baba SHG	14.2.12	Imrat	Shilu		3	9	12	DCB Talbehat	1800	Goat Keeping
		Miyao	Ram Janki SHG	20.1.12	Dev Singh	Avdhsh		4	1	5	DCB Talbehat	1000	Goat Keeping
	Total							**7**	**23**	**30**			
7	Gulenda	Gulenda	Khushi SHG	15.1.12	Radha	Ghyan Bai		3	7	10	DCB Talbehat	500	Goat Keeping
		Gulenda	Shiv Shankar SHG	15.1.12	Mahndra Singh	Ganpat		2	8	10	DCB Talbehat	1000	Dairy
		Lalon	Karas Dev SHG	13.12.11	Nabab Khan	Kasim Khan		2	7	9	DCB Talbehat	1000	Goat Keeping
		Gulenda	Shri Ram SHG	5.3.12	Dhani Ram	Kailash		10		10	DCB Talbehat	1500	Goat Keeping
	Total							**17**	**22**	**9**			
	GT						**61**	**78**	**89**	**198**			

Table 4.6: Activity wise formation of user groups

				Village - Tindara									
Sr. No.	Name of MWS	Name of Village	Name of Group	Date of Constitution	Name of Adhyaksh	Name of Sachiv Treasure	Total No. of Members				Name of Bank And Address	Group Activeties	Satatus of User Agreement
							Women	Sc/St	Other	Total			
1	**Tindra**	Kakrai	GP1		Babli	Smt. Behi Bai	4	2	2	8			
			GP2		Preetam	Kalyan Singh	4	4	12	20			
			GP3		Gore Lal	Shadi Lal	2	2	4	8			
	Total						**10**	**8**	**18**	**36**			
			CD1		Ashish Kumar	Smt. Munni	2	1	3	6			
			WHB1		Halka	Sudama Prasad	6	3	11	20			
	Total						**8**	**4**	**14**	**26**			

		Tindra	WHB4		Dev Singh	Avadhrani	1	2	2	5			
			WHB5		Deshraj	Gaju	2	1	2	5			
			WHB6		Sobharam	Smt. Saravan	2	2	1	5			
			WHB7		Hajari	Mulu	1	1	3	5			
			WHB9		Deshrani	Nathuram	2	2	1	5			
			WHB10		Shivdeen	Prakash	8	4	8	20			
			CD4		Fool Singh	Rakesh	1	1	3	5			
			CD6		Bare Lal	Smt. Foolan	3	1	1	5			
			CD9		Rajpal	Ram Swaroop	1	3	1	5			
			CD8		Raghuvar	Veerpal	3	2	3	8			
			CD7		Mullu	Devi Sinhg	1	1	3	5			
			GP5		Shaym Lal	Har Kunvar	2	1	2	5			
			GP12		Babu	Foolan							
	Total						**27**	**21**	**30**	**78**			
		Tindra	GP6		Sobharam	Chandan	1	2	2	5			
			GP7		Foolan Bai	Prem Bai	3	1	4	8			
			GP8		Ramsewak	Sukhvati	1	2	2	5			
	Total		**16**				**5**	**5**	**8**	**18**			
		Bamhaurisar	CD15		Khet Singh	Dinesh	1	1	3	5			
			CD14		Manorama	Gajendra	3	1	1	5			
			CD13		Toran	Harcharan	1	1	3	5			
			GP10		Shripat	Dayaram	2	2	1	5			
			GP11		Bhujbal	Manorama	1	1	3	5			
			WHB11		Chutta	Bheekahm	2	1	2	5			
		Udgunva	CD10		Meharbaan	Hardayal	1	1	3	5			
			WHB8		Harlal	Gajendra	8	4	-	12			
			CD11		Lakhan Lal	Meharbaan	1	1	3	5			
	Total						**20**	**13**	**19**	**52**			

		Terie	WHB2				3	5	4	12			
				Village - Targuwan									
Sr. No.	Name of MWS	Name of Village	Name of Group	Date of Constitution	Name of Adhyaksh	Name of Sachiv Treasure	Total No. of Members				Name of Bank And Address	Group Activeties	Satatus of User Agreement
							Women	Sc/St	Other	Total			
2	Targuwan	Bijrotha	GP2		Andi	Haridas	1	3	1	5			
			GP3		Ratan Singh	Gulab Singh	2	3	5	10			
	Total						**3**	**6**	**6**	**15**			
		Targuwan	CD1		Shyam Lal	Basanti	2	3	5	10			
			CD2		Ramnarayan	Hariram	1	1	3	5			
			CD3		Tara	Foola	3	3	4	10			
			CD4		Harcharan	Nepal Singh	2	1	5	8			
			WHB7		Ramcharan	Mahesh	2	3	3	8			
			WHB6		Natthu	Ramsewak	3	2	3	8			
			WHB4		Ram Prasad	Pappu	2	3	2	7			
			WHB3		Mohan	Vimla	3	3	3	9			
			WHB5		Bihari	Manohar	2	1	3	6			
			GP4		Harishchandra	Satish	1	1	3	5			
			GP5		Vinod	Deepak	5	1	4	10			
			GP6		Mohan	Vimla Rani	3	3	3	9			
	Total						**29**	**25**	**41**	**95**			
		Bamhaurisar	WHB1		Siddhu	Vinod	1	1	3	5			
			WHB2		Bhavani Singh	Raikavaar	2	1	5	8			
	Total						**3**	**2**	**8**	**13**			

				Village - Bijrotha-II									
Sr. No.	Name of MWS	Name of Village	Name of Group	Date of Constitution	Name of Adhyaksh	Name of Sachiv Treasure	Total No. of Members				Name of Bank And Address	Group Activeties	Satatus of User Agreement
							Women	Sc/St	Other	Total			
3	Bijrotha-I	Rajpur	CD13		Ajab Singh	Gulab Singh	6	4	10	20			
			CD1		Matab Singh	Ajab Singh	2	-	3	5			
			WHB1		Maan Singh	Avtar	3	-	7	10			
			CD14		Manohar	Raghuraj	3	-	5	8			
	Total						**14**	**4**	**25**	**43**			
		Miyao	GP12		Umesh	Kamta	3	3	4	10			
			GP12		Jugal	Janki	1	1	3	5			
			GP7		Balvaan	Moti Lal	2	-	6	8			
			GP6		Santosh	Balvaan	3	3	4	10			
			CD9		Gulab	Govind	3	3	4	10			
	Total						**12**	**10**	**21**	**43**			
		Rara	CD8		Gulab	Hariram	3	2	5	10			
			CD7		Mulayam	Asharam	4	-	1	5			
	Total						**7**	**2**	**6**	**15**			
		Bijrotha	WHB2		Ram Singh	Kanna	2	3	5	10			
			WHB3		Ankesh	Panki Bai	3	2	3	8			
			WHB4		Kesar Bai	Choti Bahoo	1	1	3	5			
			WHB8		Shripat	Dilla	3	3	4	10			
			GP15		Smt. Veera	Govind	1	2	5	8			
			GP16		Nathuram	Keshar Bai	1	1	3	5			
			CD2		Tulsiram	Dilla	4	3	3	10			
			CD3		Karan Singh	Ram Singh	5	-	5	10			

			CD4		Manohar	Nannhe Singh	3	2	4	9			
			CD5		Dayaram	Ram Dayal Singh	3	1	6	10			
			CD6		Vijay Singh	Dayaram	3	-	2	5			
	Total						**29**	**18**	**43**	**90**			
				Village - Kakrari									
Sr. No.	Name of MWS	Name of Village	Name of Group	Date of Constitution	Name of Adhyaksh	Name of Sachiv Treasure	Total No. of Members				Name of Bank And Address	Group Activeties	Satatus of User Agreement
							Women	Sc/St	Other	Total			
4	Kakrari												
			WHB3		Shri Ram	Ramdeen	2	3	3	8			
			WHB4		Prem	Jairam	1	2	2	5			
		Bijrotha	WHB13		Ram Prasad	Bharat	2	3	5	10			
			GP8		Dharmendra Singh	Shankar	3	3	3	9			
			CD8		Manohar	Badal	2	-	4	7			
	Total						**10**	**11**	**17**	**39**			
			WHB1		Mukuda	Kaluva	3	2	5	10			
			WHB2		Kaluva	Veeran	1	1	3	5			
			WHB9		Kamta	Channu	4	-	4	8			
			WHB7		Parvat	Gulab	2	1	4	7			
		Kakrari	WHB8		Bhoopat	Gopi	-	4	5	9			
			WHB5		Genda Bai	Bhoopat	2	3	5	10			
			WHB12		Tejiram	Chalona	1	2	3	5			
			WHB11		Harprasad	Bhagirath	2	2	4	8			
			GP1		Sitaram	Hari Singh	-	2	3	5			

			GP2		Amar Singh	Raghunaht	3	2	5	10			
			GP3		Jairam	Jalam	2	1	3	6			
			GP5		Rajaram	Dujji	2	-	6	8			
			GP4		Munna	Gochi	2	2	3	7			
			GP7		Summa	Mukunda	1	5	3	9			
			CD7		Ramdayal	Nathuva	1	4	5	10			
			CD1		Harprasad	Tara Devi	4	1	-	5			
			CD2		Tulsidas	Mathura	3	3	4	10			
			CD3		Bhagirath	Ramlal	2	1	3	6			
			CD4		Preetam	Bhagirath	1	4	3	8			
			CD5		Kishora	Ramsewak	1	1	5	7			
			CD6		Pancham	Smt. Gyan	3	3	4	10			
	Total						**40**	**44**	**80**	**163**			
		Bamhaurisar	WHB6		Makura	Ram Prasad	2	3	5	10			
			WHB10		Pyare Lal	Ram Kumar	1	1	6	8			
			GP6		Kashi Bai	Kishan Lal	3	2	5	10			
	Total						**6**	**6**	**16**	**28**			
				Village - Bijrotha-I									
Sr. No.	Name of MWS	Name of Village	Name of Group	Date of Constitution	Name of Adhyaksh	Name of Sachiv Treasure	Total No. of Members				Name of Bank And Address	Group Activeties	Satatus of User Agreement
							Women	Sc/St	Other	Total			
5	Bijrotha-II	Bijrotha	CD12		Jagdish	Chandrapal Singh	3	7	10	20			
			CD11		Ramswaroop	Shivraj	2	2	6	10			
			CD2		Mohan Lal	Chandrapal Singh	3	2	5	10			
			CD1		Devendra Singh	Asharam	3	7	10	20			

			CD13		Ramesh	Shivraj	2	2	6	10			
			CD14		Rajaram	Kashiram	2	4	4	10			
			GP1		Jagdish	Ramsewak	2	3	5	10			
			GP2		Munna Singh	Sakoo Lal	3	3	4	10			
			GP4		Ramcharan	Ramsewak	1	4	5	10			
			GP7		Raguva	Kishori Lal	2	3	5	10			
			GP8		Veer Singh	Smt. Kallu	2	2	6	10			
			GP9		Ram Niwas	Anandi Lal	3	4	3	10			
			WHB1		Dhanush Bai	Pahlwan	3	3	4	10			
			WHB2		Jasuva	Ramcharan	4	3	3	10			
			WHB4		Khalak	Gayasiya	5	5	5	15			
	Total						**40**	**54**	**81**	**175**			
			WHB5		Doop Singh	Ramsewak	3	4	3	10			
			WHB3		Kasiya	Mansukh	2	1	7	10			
		Rara	GP5		Ajuddi	Suraj Singh	2	2	1	5			
			CD3		Bhagirath	Vichulla	2	1	5	8			
			CD4		Doop Singh	Kasiya	2	2	6	10			
			CD5		Sakoo Lal	Ramvati	4	4	2	10			
	Total						**15**	**14**	**24**	**53**			
				Village - Lalaun									
Sr. No.	Name of MWS	Name of Village	Name of Group	Date of Constitution	Name of Adhyaksh	Name of Sachiv Treasure	Total No. of Members				Name of Bank And Address	Group Activeties	Satatus of User Agreement
							Women	Sc/St	Other	Total			
	Lalon		CD1		Pratipal Singh	Ravraja	4	0	6	10			
		Lalaun	CD2		Avadh Kumar	Dulla	3	2	5	10			
			CD4		Rakku	Rajendra	2	1	6	9			
			GP1		Bhujiya	Tara Devi	1	1	3	5			

			GP2		Laxman	Bhujiya	3	2	5	10			
			GP3		Pratipal Singh	Jagdish	2	3	3	8			
			GP4		Balram	Durjan	3	1	6	10			
			GP5		Bhaan Singh	Ram Singh	3	1	5	9			
			GP6		Dhanuva	Laxman	3	3	4	10			
			WHB1		Pratipal Singh	Vijay Singh	2	3	5	10			
			WHB2		Tulsiram	Vinda	2	3	5	10			
			WHB3		Bhaan Singh	Dulla	2	2	4	8			
			WHB4		Jagbhaan Singh	Parvat	3	3	4	10			
	Total						**33**	**25**	**61**	**119**			
			WHB5		Moti Lal	Sukh Lal	3	3	4	10			
			WHB6		Hari Moahn	Sunna	4	3	3	10			
			WBH8		Tulsiram	Suresh	2	1	5	8			
			CD3		Ramdas	Himrat	2	2	6	10			
		Bijrotha	CD5		Changi Lal	Ajuddi	1	1	3	5			
			CD6		Rajesh Kumar	Janki	2	1	4	7			
			CD7		Soora	Sonu	3	3	4	10			
			CD8		Jugal	Sakoo Lal	4	3	3	10			
			CD9		Balram	Durg Singh	3	3	4	10			
	Total						**24**	**20**	**36**	**80**			
			GP7		Pooran	Ram Das	3	4	3	10			
			GP8		Baijoo	Kalyan Singh	2	2	6	10			
		Lalaun	GP9		Ram Singh	Datar Singh	2	3	5	10			
			GP11		Randheer	Vinda	1	1	3	5			
			GP12		Harpa	Roshan	3	5	3	11			
			GP13		Bhookju Raja	Harpa	2	4	4	10			
	Total						**13**	**19**	**24**	**56**			

				Village - Gulenda									
Sr. No.	Name of MWS	Name of Village	Name of Group	Date of Constitution	Name of Adhyaksh	Name of Sachiv Treasure	Total No. of Members				Name of Bank And Address	Group Activeties	Satatus of User Agreement
							Women	Sc/St	Other	Total			
	Gulenda	Gulenda	CD1		Jairam Singh	Veer Singh	1		4	5			
			CD2		Komal Singh	Chandan Singh	2		8	10			
			WHB1		Ram Prasad	Roop Singh	2	1	7	10			
			WHB2		Nandu	Ram Prasad	1	2	2	5			
			WHB3		Surbhaan singh	Aman Singh	3		7	10			
			WHB4		Kishan Lal	Baijoo Raja	2	1	5	8			
			GP1		Maan Bai	Gyan Bai	3	2	5	10			
			GP2		Kishan Pal	Rampal	3	2	5	10			
			GP3		Surbhaan singh	Amar Singh	2		8	10			
	Total						**19**	**8**	**51**	**78**			
		Lalaun	CD3		Lalkhan Singh	Ram Singh	2		8	10			
			CD4		Maruva	Saleem Khan	2	2	1	5			
			CD5		Kamli	Kapoori	2	3	5	10			
			CD6		Halkuva	Mathuva	2	2	4	8			
			WHB5		Brindavan	Harendra Singh	3	3	4	10			
			WHB6		Ashok	Sukhlal	2	4	4	10			
			GP4		Punda	Ramsewak	3	3	3	9			
			GP5		Brindavan	Shyam lal	2	2	6	10			
			GP6		Rao Raja	Virendra Singh	3		7	10			
	Total						**21**	**19**	**42**	**82**			

4.3 Convergence in IWMP-VIII, Lalitpur

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 4.7: Details of Fund flow of Watershed Committee Accounts in IWMP-VIII, Lalitpur (Amount in Rs.)

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		
Targuwan (2C2D4b3b)		-	-	-	-	-	-	-	-	-
Tindra (2C2D4b3d)		-	-	-	-	-	-	-	-	-
Kakrari (2C2D4b3c)		-	-	-	-	-	-	-	-	-
Bijrotha-I (2C2D4c2f)		-	-	-	-	-	-	-	-	-
Lalaun (2C2D1d1e)		-	-	-	-	-	-	-	-	-
Bijrotha-II (2C2D4c2e)		-	-	-	-	-	-	-	-	-
Gulenda (2C2D4d2g)		--	--	--	--	--	--	--	--	--

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.,	Capacity building of the farmers

		KVK	
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-VIII, Lalitpur (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	Targuwan (2C2D4b3b)	MGNERGA	22.45	Additional to the cost of Rs. 12000/ha		Natural Resource Management (Soil and water conservation Structures)	Included in DPR	Distrct Level
2	Tindra (2C2D4b3d)	MGNERGA	9.82					
3	Kakrari (2C2D4b3c)	MGNERGA	13.22					
4	Bijrotha-I (2C2D4c2f)	MGNERGA	9.52					
5	Lalaun (2C2D1d1e)	MGNERGA	13.38					
6	Bijrotha-II (2C2D4c2e)	MGNERGA	10.3					
7	Gulenda (2C2D4d2g)	MGNERGA	9.45					
	Total		**88.14**					

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 20 EPA activities were executed in the project area which costed Rs.2135396.00

Unit	Project Name	Block	MSW/Name of village	EPA Work	Expended Rs
LDWR Lalitpur-7	IWMP-VIII	Talbehat	Targuwan (2C2D4b3b)	Krashak Manch, Puliya, Drop Spillway	1.96845
			Tindra (2C2D4b3d)	Krashak Manch, Puliya-I-II, Drop Spillway	3.37427
			Kakrari (2C2D4b3c)	Krashak Manch, Drop Spillway	3.09796
			Bijrotha-I (2C2D4c2f)	School Boundary, Krashak Manch, Drop Sillway, Core Wall	4.23357
			Lalaun (2C2D1d1e)	Krashak Manch, Drop Spillway	3.07870
			Bijrotha-II (2C2D4c2e)	Krashak Manch, Drop Spillway	2.55508
			Gulenda (2C2D4d2g)	Krashak Manch, Drop Spillway	3.00593
			Total	**-**	**21.35396**

Project: Gulenda

Project: Lalaun

Project: Bijrautha-II

Project: Bijrautha-I

Project: Tindra

Project: Tindra

Project: Tindra

Project: Gulenda

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 141 mm, equivalent to 47% 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-VIII, Lalitpur)

Sr. No.	Name of Micro Watershed	Cause	Type of erosion	Area affected (ha)	Run off (mm/ year)	Average Soil Loss (Tonnes/ ha/ year)
1	Targuwan	Water erosion				
		a	Sheet	170.8	330-335	26-29
		b	Rill	353.8		
		c	Gully	85.4		
		Total		**610.00**		
2	Tindra	Water erosion				
		a	Sheet	197.4	325-332	26-29
		b	Rill	408.9		
		c	Gully	98.7		
		Total		**705.00**		
3	Kakrari	Water erosion				
		a	Sheet	172.2	335-338	26-29
		b	Rill	356.7		
		c	Gully	86.1		
		Total		**615.00**		
4	Bijrotha-I	Water erosion				
		a	Sheet	224	325-328	26-29
		b	Rill	464		
		c	Gully	112		
		Total		**800.00**		
5	Lalon	Water erosion				
		a	Sheet	131.6	327-336	26-29
		b	Rill	272.6		
		c	Gully	65.8		
		Total		**470.00**		
6	Bijrotha-II	Water erosion				
		a	Sheet	103.6	332-338	26-29
		b	Rill	214.6		
		c	Gully	51.8		
		Total		**370.00**		
7	Gulenda	Water erosion				

		a	Sheet	140	325-329	26-29
		b	Rill	290		
		c	Gully	70		
		Total		**500.00**		
		Water erosion a	**Sheet**	1139.6		
		b	**Rill**	2360.6		
		c	**Gully**	569.8		
		Total		**4070.00**		

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-VIII, Lalitpur

LIVELIHOOD ACTION PLAN- GRAM PANCHAYAT WISE FINANCIAL BREAK UP OF LIVELIHOOD ACTIVITIES IWMP-VIII, DISTRICT- LALITPUR							
S. No.	**Gram Panchayat**	**Proposed Amount**	**Livelihood Activities 9% of the Total project Cost**				
			2010-11	**2011-12**	**2012-13**	**2013-14**	**TOTAL**
1	Rajpur	0.52	-	0.06	0.29	0.17	0.52
2	Bamhorisar	3.03	-	0.34	1.68	1.01	3.03
3	Targuwan	4.31	-	0.48	2.39	1.44	4.31
4	Bijrotha	16.08	-	1.79	8.93	5.36	16.08
5	Udguwan	5.09	-	0.57	2.83	1.70	5.09
6	Kakrari	4.85	-	0.54	2.69	1.62	4.85
7	Terai	0.22	-	0.02	0.12	0.07	0.22
8	Miyao	2.58	-	0.29	1.43	0.86	2.58
9	Gulenda	3.24	-	0.36	1.80	1.08	3.24
10	Lalaun	4.04	-	0.45	2.24	1.35	4.04
	Total	**43.96**	**0.00**	**4.88**	**24.42**	**14.65**	**43.96**

FARM PRODUCTION SYSTEM (10%) GRAM PANCHAYAT WISE FINANCIAL BREAK UP OF PRODUCTION & MICRO ENTERPRISES IWMP-VIII, DISTRICT- LALITPUR							
S. No.	**Gram Panchayat**	**Proposed Amount**	**Production System & Microenterprises 10% of the Total Project Cost**				
			2010-11	**2011-12**	**2012-13**	**2013-14**	**TOTAL**
1	Rajpur	0.58	-	0.07	0.37	0.22	0.58
2	Bamhorisar	3.37	-	0.43	2.14	1.28	3.37
3	Targuwan	4.79	-	0.61	3.04	1.82	4.79
4	Bijrotha	17.87	-	2.27	11.35	6.81	17.87
5	Udguwan	5.65	-	0.72	3.59	2.16	5.66
6	Kakrari	5.39	-	0.68	3.42	2.05	5.39
7	Terai	0.24	-	0.03	0.16	0.09	0.24
8	Miyao	2.87	-	0.36	1.82	1.09	2.87
9	Gulenda	3.60	-	0.46	2.29	1.37	3.60
10	Lalaun	4.48	-	0.57	2.85	1.71	4.48
		55.84		**6.20**	**31.02**	**18.61**	**55.84**

YEAR WISE PHYSICAL AND FINANCIAL BREAK UP OF WORK COMPONENT OF IWMP-VIII, DISTRICT-LALITPUR													
Amount in Lacs, Phy. in ha.													
Watershed Development Works													
S. No.	**Micro Watershed**	**Project Area**	**Proposed Amount**	**2010-11**		**2011-12**		**2012-13**		**2013-14**		**TOTAL**	
				Phy	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**
1	Targuwan	610	40.99	-	-		4.55		22.78		13.66		40.99
2	Tindra	705	47.38	-	-		5.26		26.32		15.79		47.38
3	Kakrari	615	41.33	-	-		4.59		22.96		13.75		41.33
4	Bijrotha-I	800	53.76	-	-		5.97		29.87		17.92		53.76
5	Lalaun	470	31.58	-	-		3.51		17.53		10.53		31.58
6	Bijrotha-II	370	24.86	-	-		2.76		13.81		8.29		24.86
7	Gulenda	500	33.60	-	-		3.73		18.68		11.20		33.60
8	**Total**	**4070**	**273.50**	-	-		**30.39**		**151.96**		**91.15**		**273.50**

YEAR WISE PHYSICAL AND FINANCIAL BREAK UP OF WORK COMPONENT OF IWMP-VIII, DISTRICT-LALITPUR													
Amount in Lacs, Phy. in ha.													
Watershed Development Works													
S. No.	**Gram Panchayat**	**Project Area**	**Proposed Amount**	**2010-11**		**2011-12**		**2012-13**		**2013-14**		**TOTAL**	
				Phy	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**
1	Rajpur	48.45	3.26	-	-	5.38	0.36	26.91	1.81	16.14	1.08	48.43	3.26
2	Bamhorisar	280.83	18.87	-	-	31.20	2.10	156.03	10.49	93.60	6.29	280.83	18.87
3	Targuwan	399.24	26.83	-	-	44.36	2.98	221.83	14.91	133.08	8.94	399.27	26.83
4	Bijrotha	1489.05	100.06	-	-	165.45	11.12	827.41	55.60	496.35	33.35	1489.21	100.06
5	Udguwan	470.92	31.65	-	-	52.32	3.52	261.63	17.58	156.95	10.55	470.90	31.65
6	Kakrari	448.8	30.16	-	-	49.88	3.35	249.42	16.76	149.63	10.05	448.92	30.16
7	Terai	20.1	1.35	-	-	2.22	0.15	11.08	0.74	6.65	0.45	19.94	1.35
8	Miyao	239.06	16.06	-	-	26.54	1.78	132.74	8.92	79.63	5.35	238.91	16.06
9	Gulenda	299.93	20.16			33.33	2.24	166.66	11.20	99.98	6.72	299.96	20.16
10	Lalaun	373.62	25.11			41.51	2.79	207.59	13.95	124.53	8.37	373.63	25.11
	Total	**4070.00**	**273.50**	**-**	**-**	**452.18**	**30.39**	**2261.29**	**151.96**	**1356.53**	**91.16**	**4070**	**273.50**

Name Of Micro Watershed		Gram Panchayat	**2010-11**	**2011-12**	**2012-13**	**2013-14**	**Total**
Targuwan (2C2D4b3b) Tindra (2C2D4b3d) Kakrari (2C2D4b3c) Bijrotha-I (2C2D4c2f) Lalaun (2C2D1d1e) Bijrotha-II (2C2D4c2e) Gulenda (2C2D4d2g)	Agroforestry	Rajpur Bamhorisar Targuwan Bijrotha Udguwan Kakrari Terai Miyao Gulenda Lalaun		1.35	6.76	4.06	12.17
	Horticulture			0.56	2.78	1.67	5.01
	Agriculture						
	SMC						
	Contour Farming/Contour Bunding/ Graded Bunding/ Field Bunding			9.51	47.56	28.53	85.61
	Bench Terracing						
	Other FB/MB/PFB			7.25	36.27	21.76	65.28
	Veg.& Engg. Structures						

	Field Drainage Structures						
	Earthen Checks			3.76	18.78	11.27	33.80
	Gully Plugs			1.33	6.63	3.97	11.92
	Other			0.32	1.61	0.97	2.90
	WHS						
	Farm Ponds			0.50	2.51	1.50	4.51
	Checkdems/Tanks			3.58	17.89	10.73	32.19
	Nallah Bund			0.70	3.48	2.09	6.26
	Ground Water Recharge Structure			0.60	3.02	1.81	5.44
	Other WHB/SB			0.93	4.65	2.79	8.37
				30.39	**151.96**	**91.16**	**273.50**

YEAR WISE PHYSICAL AND FINANCIAL BREAK UP OF WORK COMPONENT OF IWMP-VIII, DISTRICT-LALITPUR													
Amount in Lacs, Phy. in ha.													
Watershed Development Works Project Wise													
Name Of MWS	**Villages**	**Project Area**	**Proposed Amount**	**2010-11**		**2011-12**		**2012-13**		**2013-14**		**TOTAL**	
				Phy	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**
Targuwan	Bamhorisar	149.25	17.91			16.58	1.99	82.93	9.95	49.75	5.97	149.25	17.91
	Targuwan	390.14	46.82			43.35	5.20	216.77	26.01	130.04	15.60	390.14	46.82
	Bijrotha	70.61	8.47			7.85	0.69	39.25	3.44	23.54	2.07	70.61	8.47
	Total	**610.000**	**73.20**			**67.77**	**8.13**	**338.92**	**40.67**	**203.31**	**24.40**	**610.000**	**73.20**

YEAR WISE PHYSICAL AND FINANCIAL BREAK UP OF WORK COMPONENT OF IWMP-VIII, DISTRICT-LALITPUR													
Amount in Lacs, Phy. in ha.													
Watershed Development Works Project Wise													
Name Of MWS	**Villages**	**Project Area**	**Proposed Amount**	**2010-11**		**2011-12**		**2012-13**		**2013-14**		**TOTAL**	
				Phy	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**

Tindra	Tindra	367.52	44.10			40.83	4.90	204.19	24.50	122.49	14.70	367.52	44.10
	Kakrari	101.03	12.12			11.22	1.35	56.13	6.74	33.67	4.04	101.03	12.12
	Terai	20.09	2.41			2.23	0.27	11.16	1.34	6.70	0.80	20.09	2.41
	Udguwan	103.42	12.41			11.49	1.38	57.46	6.90	34.47	4.14	103.42	12.41
	Bamhorisar	112.94	13.55			12.55	1.51	62.75	7.53	37.64	4.52	112.94	13.55
	Total	**705.00**	**84.60**			**78.33**	**9.40**	**391.70**	**47.00**	**234.98**	**28.20**	**705.00**	**84.60**

YEAR WISE PHYSICAL AND FINANCIAL BREAK UP OF WORK COMPONENT OF IWMP-VIII, DISTRICT-LALITPUR

Amount in Lacs, Phy. in ha.

Watershed Development Works Project Wise

Name Of MWS	Villages	Project Area	Proposed Amount	2010-11		2011-12		2012-13		2013-14		TOTAL	
				Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Kakrari	Tindra	367.52	44.10			40.83	4.90	204.19	24.50	122.49	14.70	367.52	44.10
	Kakrari	101.03	12.12			11.22	1.35	56.13	6.74	33.67	4.04	101.03	12.12
	Terai	20.09	2.41			2.23	0.27	11.16	1.34	6.70	0.80	20.09	2.41
	Udguwan	103.42	12.41			11.49	1.38	57.46	6.90	34.47	4.14	103.42	12.41
	Bamhorisar	112.94	13.55			12.55	1.51	62.75	7.53	37.64	4.52	112.94	13.55
	Total	**705.00**	**84.60**			**78.33**	**9.40**	**391.70**	**47.00**	**234.98**	**28.20**	**705.00**	**84.60**

YEAR WISE PHYSICAL AND FINANCIAL BREAK UP OF WORK COMPONENT OF IWMP-VIII, DISTRICT-LALITPUR

Amount in Lacs, Phy. in ha.

Watershed Development Works Project Wise

Name Of MWS	Villages	Project Area	Proposed Amount	2010-11		2011-12		2012-13		2013-14		TOTAL	
				Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Bijrotha-I	Bijrotha	682.15	81.86			75.79	9.09	379.01	45.48	227.36	27.28	682.15	81.86
	Rara	81.46	9.78			9.05	1.09	45.25	5.43	27.14	3.26	81.46	9.78
	Miyao	36.39	4.37			4.04	0.49	20.22	2.43	12.13	1.46	36.39	4.37
	Total	**800.00**	**96.00**			**88.88**	**10.67**	**444.48**	**53.34**	**266.64**	**32.00**	**800.00**	**96.00**

YEAR WISE PHYSICAL AND FINANCIAL BREAK UP OF WORK COMPONENT OF IWMP-VIII, DISTRICT-LALITPUR

Amount in Lacs, Phy. in ha.

Watershed Development Works Project Wise													
Name Of MWS	**Villages**	**Project Area**	**Proposed Amount**	**2010-11**		**2011-12**		**2012-13**		**2013-14**		**TOTAL**	
				Phy	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**
Lalon	Bijrotha	306.56	36.79			34.06	4.09	170.34	20.44	102.18	12.26	306.56	36.79
	Lalon	163.44	19.61			18.16	2.18	90.80	10.90	54.47	6.54	163.44	19.61
	Total	**470.00**	**56.40**			**52.22**	**6.27**	**261.13**	**31.34**	**156.65**	**18.80**	**470.00**	**56.40**

YEAR WISE PHYSICAL AND FINANCIAL BREAK UP OF WORK COMPONENT OF IWMP-VIII, DISTRICT-LALITPUR													
Amount in Lacs, Phy. in ha.													
Watershed Development Works Project Wise													
Name Of MWS	**Villages**	**Project Area**	**Proposed Amount**	**2010-11**		**2011-12**		**2012-13**		**2013-14**		**TOTAL**	
				Phy	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**
Bijrotha-II	Lalon	10.11	1.21			1.12	0.13	5.61	0.67	3.37	0.40	10.11	1.21
	Bijrotha	190.23	22.83			21.13	2.54	105.68	12.68	63.40	7.61	190.23	22.83
	Rara	20.32	2.44			2.26	0.27	11.29	1.35	6.77	0.81	20.32	2.44
	Rajpur	48.45	5.81			5.38	0.65	26.91	3.23	16.14	1.94	48.45	5.81
	Miyao	100.89	12.11			11.21	1.35	56.06	6.73	33.63	4.04	100.89	12.11
	Total	**370.00**	**44.40**			**41.11**	**4.93**	**205.57**	**24.67**	**123.32**	**14.80**	**370.00**	**44.40**

YEAR WISE PHYSICAL AND FINANCIAL BREAK UP OF WORK COMPONENT OF IWMP-VIII, DISTRICT-LALITPUR													
Amount in Lacs, Phy. in ha.													
Watershed Development Works Project Wise													
Name Of MWS	**Villages**	**Project Area**	**Proposed Amount**	**2010-11**		**2011-12**		**2012-13**		**2013-14**		**TOTAL**	
				Phy	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**
Gulenda	Lalon	200.07	24.00			22.23	2.67	111.15	13.34	66.68	8.00	200.07	24.00
	Bhawarkali	65.63	7.88			7.29	0.88	36.48	4.38	21.88	2.63	65.63	7.88
	Gulenda	234.30	28.12			26.03	3.12	130.18	15.62	78.09	9.37	234.30	28.12
	Total	**500.00**	**60.00**			**55.55**	6.67	**277.80**	**33.34**	**166.65**	**20.00**	**500.00**	**60.00**

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 =				fmax		1280.9917	

Wn/b(1+6*e/b)

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

J (m)	1.5h1	1.425	more than 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-off wall (1:2:4): 12 mm conc.	3.04	19.46	1.37	2.74			
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	**14.95**	0.24930	0.999305	0.999333

	8	6	6			
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)				
			0.962093			
		h power 3/2				
			0.974591			
		h		**0.95**	h1	
			1.072051			
		h + free board		**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

	J (m)	1.5h1	1.425	more than 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			11.00	0.80	1.00	8.80	Width=(0.5+1.1)/2= 0.8	

	gully bed-super structure					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)**							

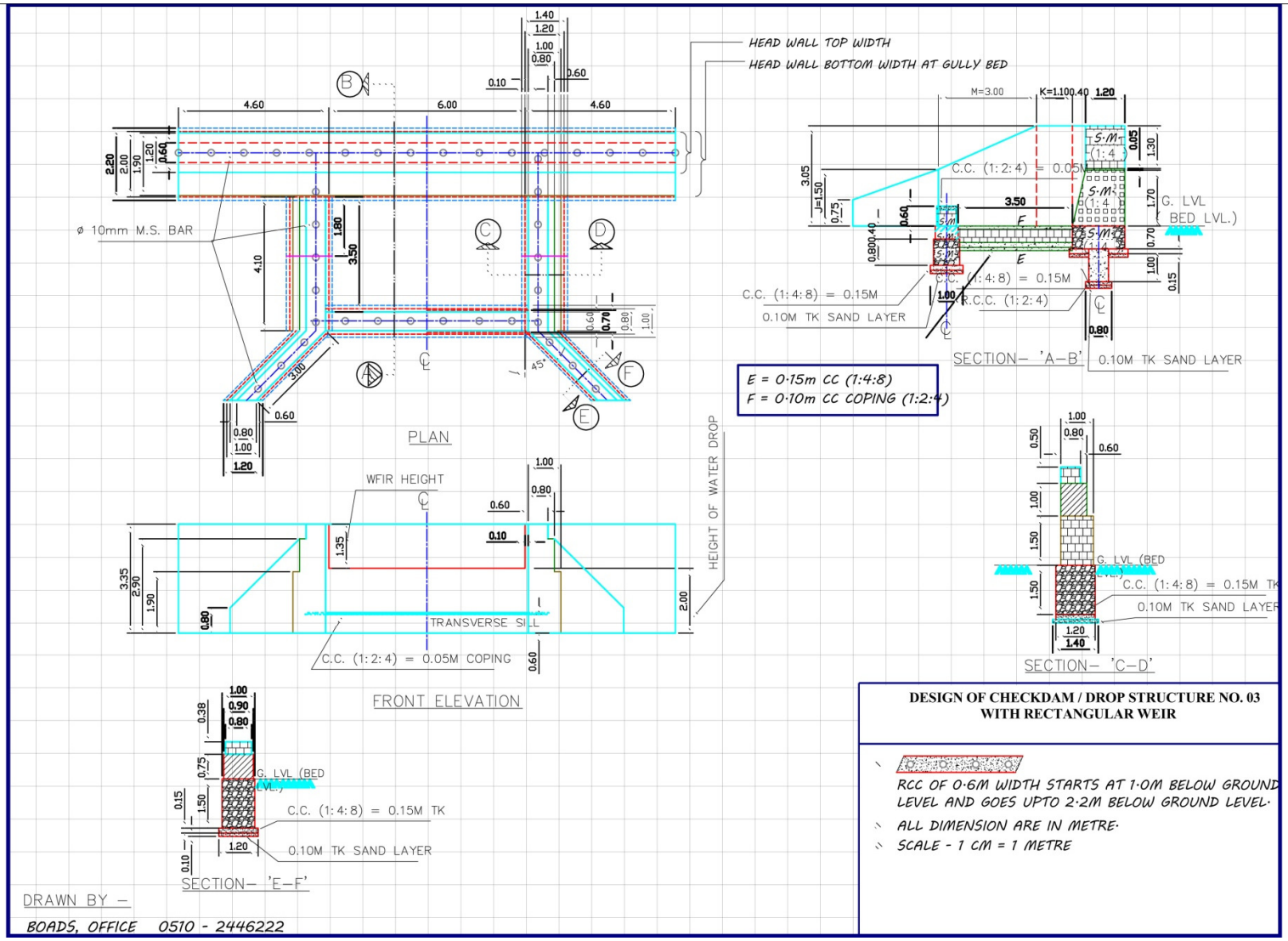
	a) Headwall both side					8.00		1.00	8.00			
	b) Side wall both side (RHS and LHS)-Part I					6.40		1.40	8.96			
	c) Side wall both side (RHS and LHS)-Part II					3.00		0.60	1.80			
	d) Side wall both side (RHS and LHS)-Part-III					3.40		0.30	1.02	Avg. ht. of triangle portion=		0.30
	e) Wing wall both 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 (1:2:4): 12 mm conc.					4.57	29.25	2.06	4.11			
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		

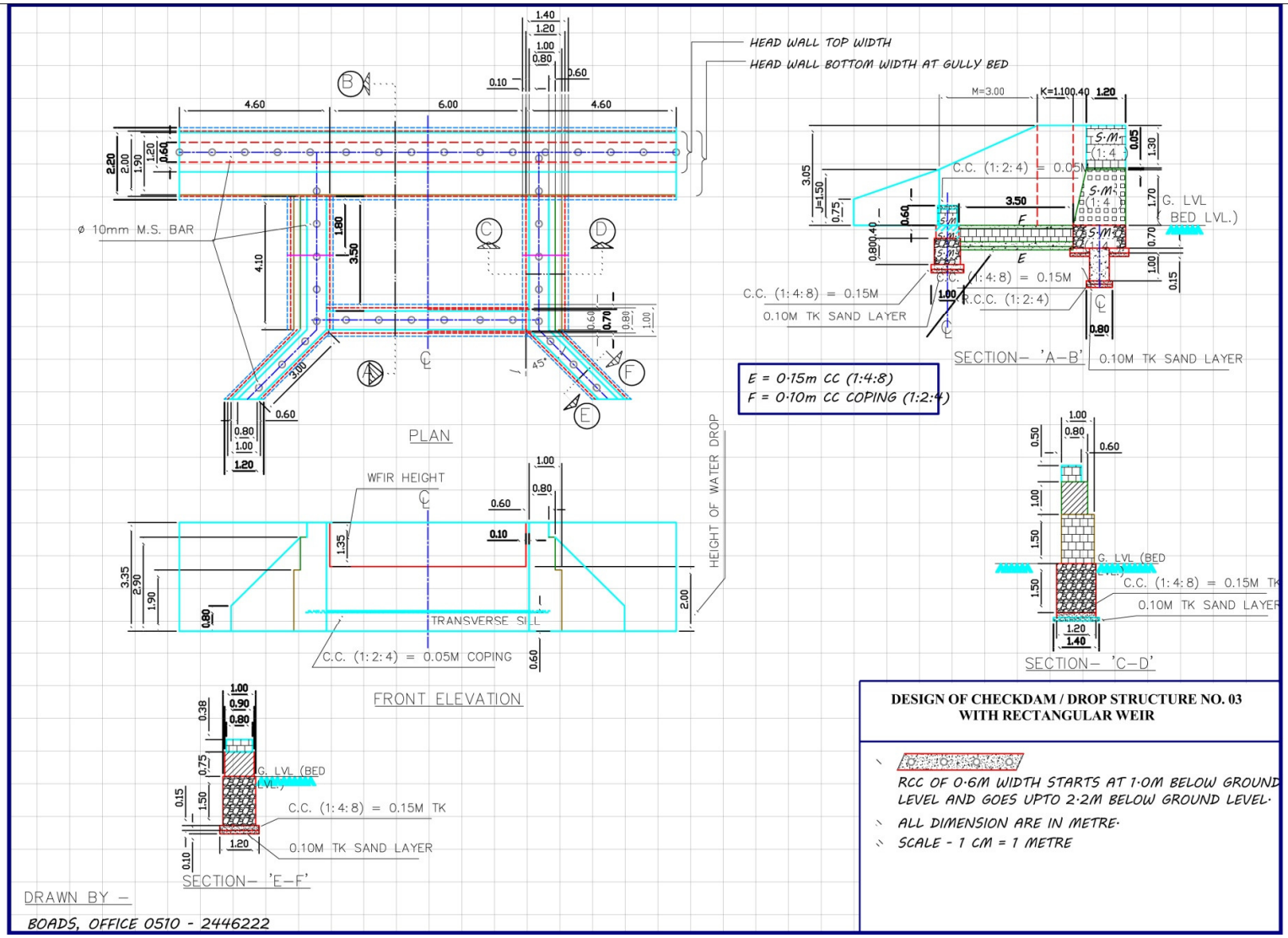
4	MS Bar for reinforcing										1.50
5	Boulder for pitching					17.00				17.00	
6	Cement pointing to stone masonary in CM 1:3 (sqm)					24.88	1.54	0.16			
7	Black clay soil (gravel free)					3.00					
8	Requirement of sand to nullify the impact of cracks in black soil							4.16			
					Total		**180.70**	**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 %				5502.56

		of material cost							
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
HEIGHT OF WATER DROP
TRANSVERSE SILL
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
HEIGHT OF WATER DROP
TRANSVERSE SILL
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)
G. LVL (BED LVL.)
SECTION– 'A–B'
E = 0·15m CC (1:4:8)
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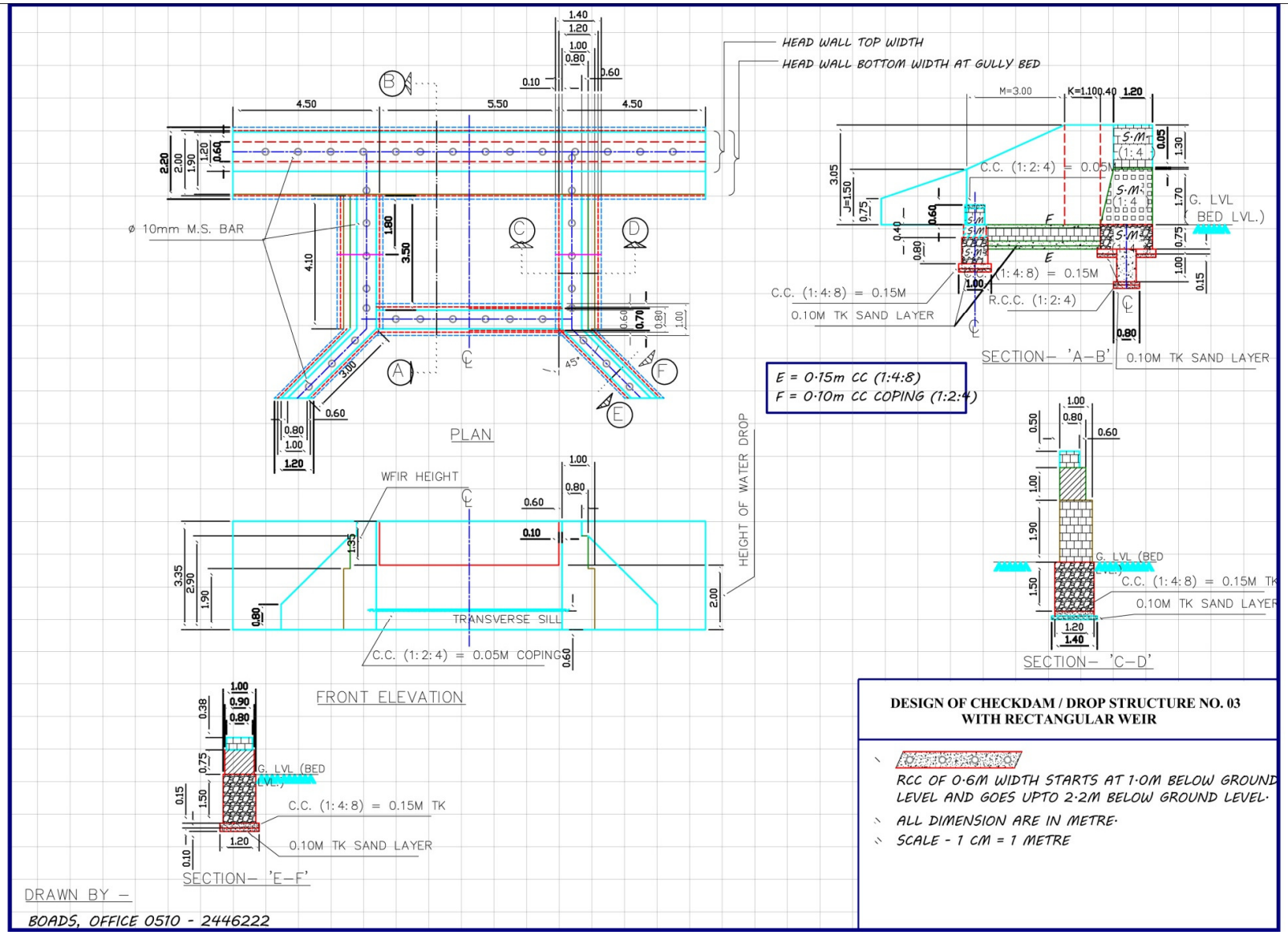
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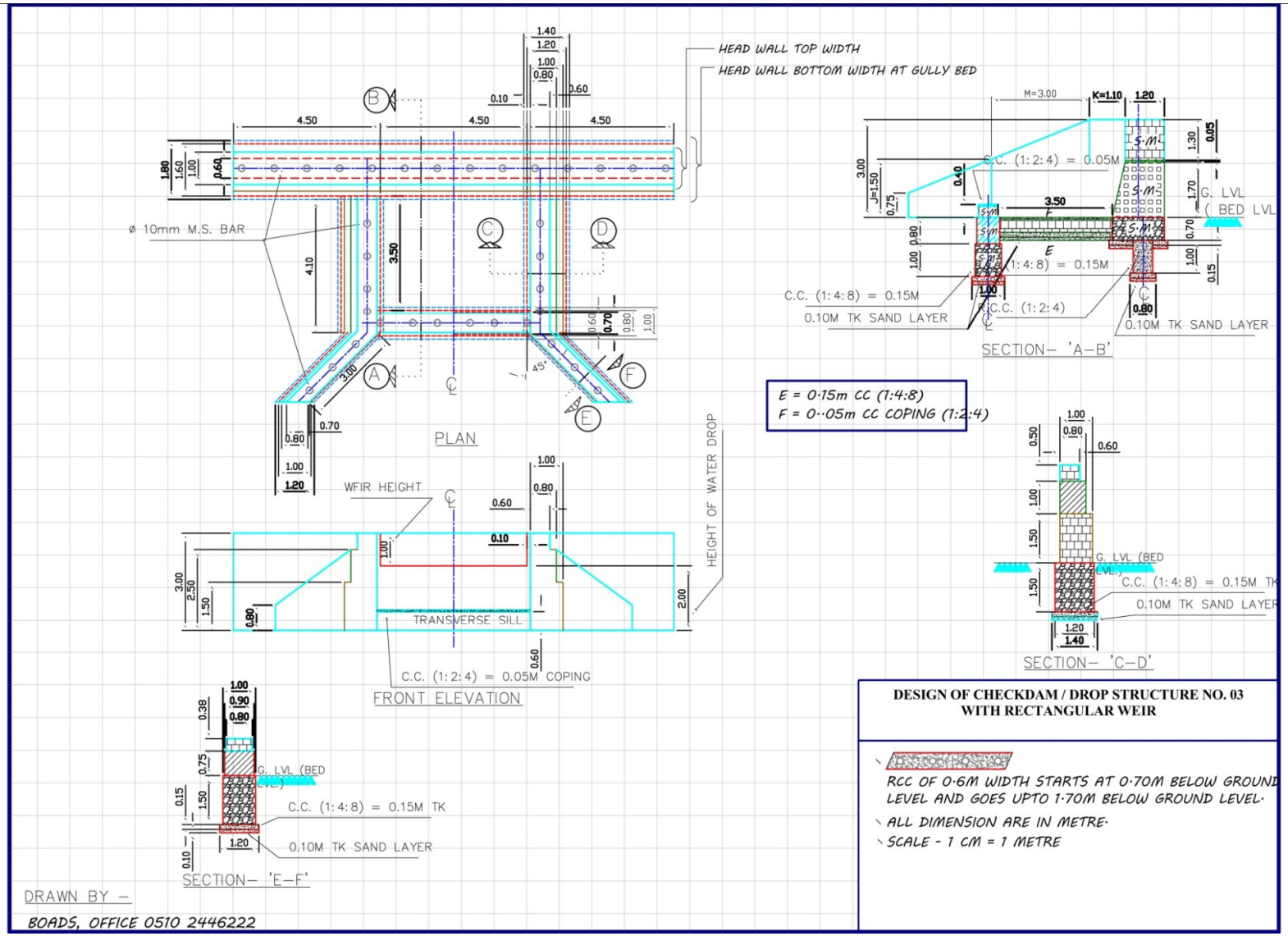
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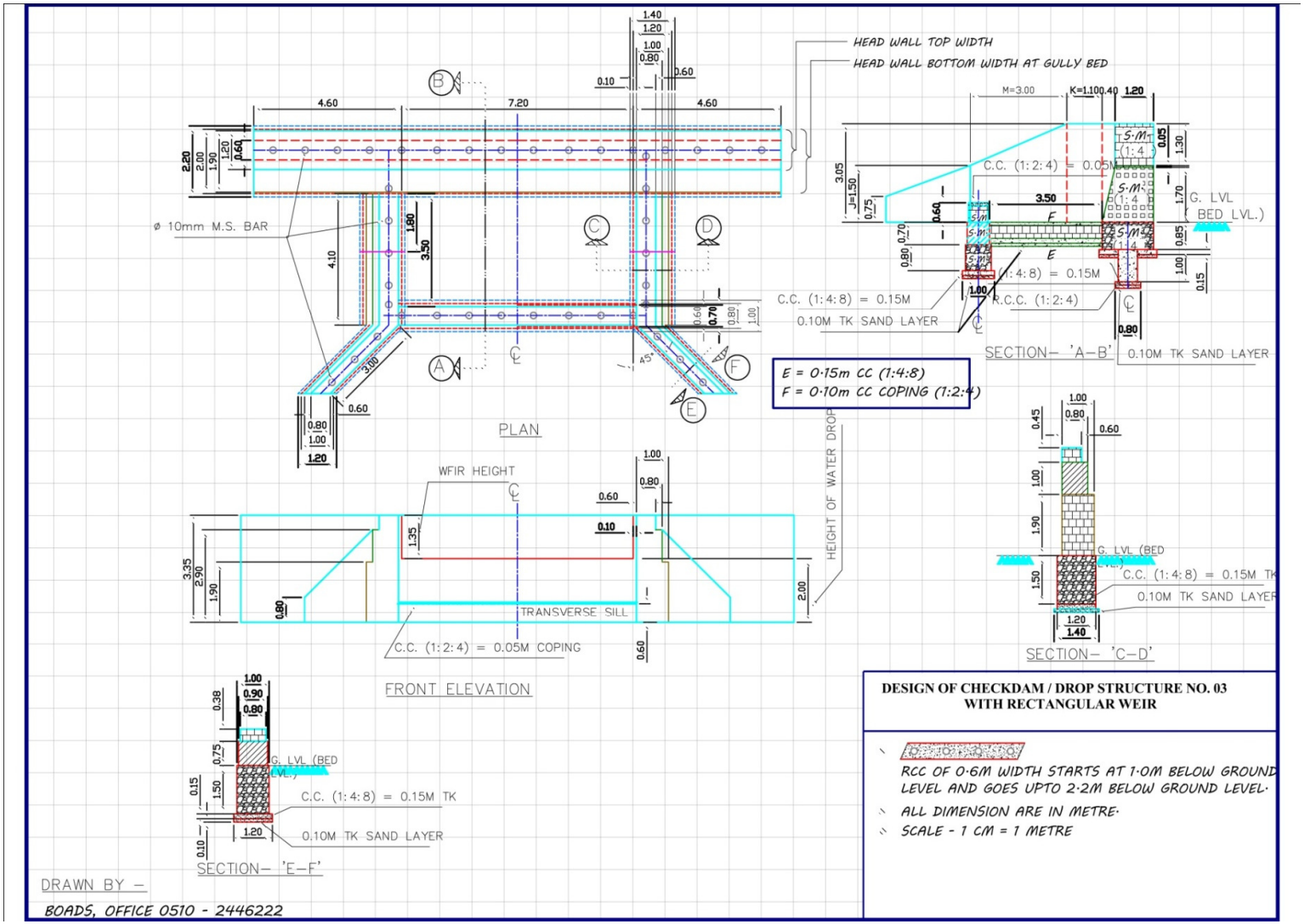
G. LVL (BED LVL.)
C.C. (1:4:8) = 0.15M TK
0.10M TK SAND LAYER
SECTION– 'C–D'
DESIGN OF CHECKDAM / DROP STRUCTURE NO. 03
WITH RECTANGULAR WEIR
RCC OF 0·6M WIDTH STARTS AT 0·70M BELOW GROUND LEVEL AND GOES UPTO 1·70M BELOW GROUND LEVEL·
ALL DIMENSION ARE IN METRE·
SCALE - 1 CM = 1 METRE
DRAWN BY –
BOADS, OFFICE 0510 2446222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SCALE - 1 CM = 1 METRE
DRAWN BY –
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CHAPTER - 6

CAPACITY BUILDING PLAN

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

Table 6.1: List of identified training institutes for capacity building

Sr. No.	Name of the Training Institute	Full Address with contact no, website & e-mail	Designation of the Head of Institute	Type of Institute	Area(s) of specialization	No. of training assigned	No. of persons to be trained	Allocation to be made to the institute
1.	Krishi Vigyan Kendra	Lalitpur(Village Khiriya Mishra)	Programme Coordinator	Agriculture University	Extension Agronomy Home Science Soil Science			Proposal with budget will be received
2.	DIRD	Jhansi Road, Vill.Ronda, Lalitpu	Coordinator	State Govt.	Small scale			
3	Indian Institute of Grass Land	Gwalior Road, Jhansi	Director,		Grasses and fodder			-do-
4	Deptt. Of Horticulture	Mision Compound, Jhansi	Deputy Director	State Govt.	Fruit and Vegetable Production			-do-
5	National Research Center For Agro-forestry	Glalior Road, Jhansi	Director	GoI (ICAR)	Agro-forestry and NRM on watershed basis			-do-

FINANCIAL BREAKUP OF VARIOUS COMPONENT IN TERMS OF % OF IWMP-VIII, DISTRICT-LALITPUR														
Amount in Lacs														
S. No	**Micro Watershed Name**	**Project Area**	**Proposed Amount**	**Administrative 10%**	**EPA 4%**	**Institution and CB 5%**	**DPR 1%**	**Watershed development work 56%**	**Livelihood for asset less 9%**	**Production system and Microenterprises 10%**	**Monitoring 1%**	**Evaluation 1%**	**Consolidation 3%**	**Total 100%**
1	Targuwan	610	73.20	7.32	2.93	3.66	0.73	40.99	6.59	7.32	0.73	0.73	2.20	73.20
2	Tindra	705	84.60	8.46	3.38	4.23	0.85	47.38	7.61	8.46	0.85	0.85	2.54	84.60
3	Kakrari	615	73.80	7.38	2.95	3.69	0.74	41.33	6.64	7.38	0.74	0.74	2.21	73.80
4	Bijrotha-I	800	96.00	9.60	3.84	4.80	0.96	53.76	8.64	9.60	0.96	0.96	2.88	96.00
5	Lalaun	470	56.40	5.64	2.26	2.82	0.56	31.58	5.08	5.64	0.56	0.56	1.69	56.40
6	Bijrotha-II	370	44.40	4.44	1.78	2.22	0.44	24.86	4.00	4.44	0.44	0.44	1.33	44.40
7	Gulenda	500	60.00	6.00	2.40	3.00	0.60	33.60	5.40	6.00	0.60	0.60	1.80	60.00
	Total	**4070**	**488.40**	**48.84**	**19.54**	**24.42**	**4.88**	**273.50**	**43.96**	**48.84**	**4.88**	**4.88**	**14.65**	**488.40**

		1st year		2nd year		3rd year		4th year		Total	
	MD	Physical	Financial	Physical	Financial	Physical	Financial	Physical	Financial	Physical	Financial
Capacity Building	1530	306	4.88	1302	9.768	1302	9.768			3256	24.42
(a) SLNA level	306	61	0.98	122	1.9536	122	1.9536			306	4.88
(b) District level	459	92	0.98	184	1.9536	184	1.9536			459	4.88
(c) WDT level	153	31	0.98	61	1.9536	61	1.9536			153	4.88
(d) WC level	612	122	1.95	245	3.9072	245	3.9072			612	9.77
(2) No. of total persons trained	6105	1221		2442		2442					
(a) SLNA level	153	31	0.31	61	0.6105	61	0.611	-	-	153	1.53

(b) District level	611	122	0.916	244	1.819	244	1.819	-	-	611	4.55
(c) WDT level	153	31	0.229	61	0.458	61	0.458	-	-	153	1.14
(d) WC level	4884	977	3.907	1954	6.642	1954	6.642	-	-	4884	17.19
Total											**24.42**

Table 6.2: Training to stakeholders on participatory watershed management

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

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

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-VIII, LDWR- Lalitpur-III

Sr. No.	Particulars	1st Year	2nd Year	3rd Year	4th Year	Total
1	Administrative Cost-10%	12.21	12.21	12.21	12.21	48.84
2	Monitering-1%	1.22	1.22	1.22	1.22	4.88
3	Evalution-1%	1.22	1.22	1.22	1.22	4.88
4	Entry Point Activity-4%	19.54	-	-	-	19.536
5	Institution & Capacity Building-5%	9.77	9.77	4.88	-	24.42
6	DPR-1%	4.88	-	-	-	4.88
7	Watershed Dev. Work-56%	54.70	82.05	82.05	54.70	273.50
8	Livelihood Activity-9%	35.16	4.40	4.40	-	43.96
9	Production System & Micro enterprises-10%	9.77	29.30	9.77		48.84
10	Consolidation-3%	-	1.47	1.47	11.72	14.65
	Total	**148.47**	**141.64**	**117.22**	**81.07**	**488.40**

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 24 per cent, in turn acreage in agricultural activities will be increased by about 1091 ha. Therefore, an additional employment of about 109100 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 30 per cent, however soil and nutrient loss may be reduced up to 40 per cent from the watershed.
- Irrigation intensity may be increased to 40 per cent from present 3 per cent life saving irrigation.
- Surface water in nallah may be available for more than 8 months against 4-5 months at present.
- Average ground water recharge of about 4 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 2,00,000 mandays will be created through the soil and water conservation measures and crop/agroforestry interventions.
- The overall B C ratio of the project is estimated to be 1.59 as compared to the 1.96 in pre project scenario (detailed analysis is given in Chapter 7)

***Above mentioned outcomes are based on the meta analysis of 636 watershed projects throughout the country done by ICRISAT, Hyderabad and practical experience of watershed management in Bundelkhand region.**

9.3 Questions to be answered

This project will answer the following questions :

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

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

Following problems can be tackled in the proposed watershed :

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

Presnet Situation											
S.No.	**Name of Crop (Season wise)**	**Area (ha)**	**Production (quintal)**	**Productivity q/ha**	**Cost/ ha**	**Rate Rs/q**	**Gross Return Rs**	**Total Cost Rs**	**Net Return**	**Net Return /ha**	**B:C Ratio**
1	Til (Sesamum)	500.00	850.00	1.70	5500	6500	5525000	2750000	2775000	5550	2.0
2	Urd	600.00	2040.00	3.40	7500	4200	8568000	4500000	4068000	6780	1.9
3	Moong	550.00	1705.00	3.10	7750	4600	7843000	4262500	3580500	6510	1.8
4	Arhar	320.00	2016.00	6.30	9580	4350	8769600	3065600	5704000	17825	2.9
5	Jawar	170.00	816.00	4.80	4500	1400	1142400	765000	377400	2220	1.5
	Total	**2140.00**	**7427.00**								

1	Lentil	600.00	3390.00	5.65	8850	3850	13051500	5310000	7741500	12903	2.5
2	Field Pea	450.00	3262.50	7.25	7520	3200	10440000	3384000	7056000	15680	3.1
3	Chickpea	600.00	3816.00	6.36	7985	3150	12020400	4791000	7229400	12049	2.5
4	Wheat	900.00	16875.00	18.75	11250	1275	21515625	10125000	11390625	12656	2.1
5	Barley	250.00	4300.00	17.20	9850	1025	4407500	2462500	1945000	7780	1.8
6	Linseed + Chickpea (Mixed)	170.00	1334.50	7.85	9845	3650	4870925	1673650	3197275	18808	2.9
7	Linseed + Lentil (Mixed)	140.00	903.00	6.45	8954	3860	3485580	1253560	2232020	15943	2.8
8	Mustard / Rai	450.00	2025.00	4.50	9586	3650	7391250	4313700	3077550	6839	1.7
	Total	**3560.00**	**35906.00**								
	Single crop Area	**2060.00**									
	Double crop area	**1820.00**									
	(Cucurbits, Cole crops, Egg Plant, Tomato, Potato etc)	60	3070	51.17	13000	500	1535000	780000	755000	12583	2.0
							110565780	49436510	61129270		2.24
	Total No. of families	3732	Per family Net Return from Agriculture		16380						
	Total cultivable area in MWS		5341.76		Over All B:C		2.24				
	Cropping Intensity	107.83	%								

S.No.	Name of Crop (Season wise)	Area (ha)	Production (quintal)	Productivity q/ha	Cost/ ha	Rate Rs/q	Groos Return Rs	Total Cost Rs	Net Return	Net Return /ha	B:C Ratio
1	Til (Sesamum)	625.00	1218.75	1.95	5800	6500	7921875	3625000	4296875	6875	2.2
2	Urd	750.00	2737.50	3.65	7600	4500	12318750	5700000	6618750	8825	2.2
3	Moong	687.50	2488.75	3.62	7800	4950	12319313	5362500	6956813	10119	2.3
4	Arhar	400.00	2600.00	6.50	10350	4450	11570000	4140000	7430000	18575	2.8
5	Jawar	212.50	1105.00	5.20	6500	1650	1823250	1381250	442000	2080	1.3
	Total	**2675.00**	10150.00								
1	Lentil	690.00	3988.20	5.78	9105	4560	18186192	6282450	11903742	17252	2.9
2	Field Pea	517.50	3777.75	7.30	7842	3360	12693240	4058235	8635005	16686	3.1
3	Chickpea	690.00	4899.00	7.10	8023	3275	16044225	5535870	10508355	15230	2.9
4	Wheat	1035.00	20865.60	20.16	12620	1450	30255120	13061700	17193420	16612	2.3
5	Barley	287.50	5836.25	20.30	10236	1250	7295313	2942850	4352463	15139	2.5
6	Linseed + Chickpea (Mixed)	195.50	1608.97	8.23	10236	3750	6033619	2001138	4032481	20627	3.0
7	Linseed + Lentil (Mixed)	161.00	1184.96	7.36	9456	4012	4754060	1522416	3231644	20072	3.1
8	Mustard / Rai	517.50	2820.38	5.45	9541	3785	10675119	4937240	5737880	11088	2.2
	Total	**4094.00**	**44981.10**								
	Single crop Area	**3066.76**									
	Double crop area	**2275.00**									
	(Cucurbits, Cole crops, Egg Plant, Tomato, Potato etc)	90	9918	110.20	15260	650	6446700	1373400	5073300	56370	4.7

							158336775	61924049	96412726		2.56
	Total No. of families	3732	Per family Net Return from Agriculture		25834						
	Total cultivable area in MWS		5341.76		Over All B:C		2.56				
	Cropping Intensity	128.40	%								

Particulars	Cows	Buffaloes	Goat	Bullocks
Total Animals in Micro watershed Area	1992	2608	1372	210
Milking Animals	1420	2150	950	
Average Milk Production Lit. / day	1846	520.8	140	
Average Milk Production /Animal/ day	1.3	3.5	0.4	
Sale of Milk per day (Rs) @ Rs 15/Lit	27690	7812	2100	
Average 150 day milking days & Goat 90 days in a year (Total Rs)	**4153500**	**78120**	**12600**	
Meat Animals			240	
Average rate of one kids Rs			2500	
Total Sale in a year Rs			**600000**	
Working Animals (Bullocks)				210
One year work one agriculture fields 180 days @ 200/ day (One pair)				36000

Total Work value of all working animals				**3780000**
Total value earned by animals in a year				**8624220**
Total INCOME/FAMILY	3732			2310.88
Total Expenditure / family				7000
B:C Ratio				0.33
Particulars	Cows	Buffaloes	Goat	Bullocks
Total Animals in Micro watershed Area	2390	3130	1646	252
Milking Animals	1620	2800	1280	
Average Milk Production Lit. / day	2592	10080	640	
Average Milk Production /Animal/ day	1.6	3.6	0.5	
Sale of Milk per day (Rs) @ Rs 15/Lit	38880	151200	9600	
Average 150 day milking days & Goat 90 days in a year (Total Rs)	5832000	1512000	57600	
Meat Animals			350	
Average rate of one kids Rs			2800	
Total Sale in a year Rs			980000	
Working Animals (Bullocks)				252
One year work one agriculture fields 180 days @ 200/ day (One pair)				36000
Total Work value of all working animals				4536000
Total value earned by animals in a year				12917600
Total INCOME/FAMILY	3732			3461.31
Total Expenditure / family				7080
B:C Ratio				0.49

Net Income / Family	Present	Projected
Agriculure	16380	25834
Animal Husbandry	2311	3461
Total (Ag+AH)	**18691**	**29295**
Over All B:C of MWS		
Agriculure	2.24	2.56
Animal Husbandry	0.33	0.49
Over All B: C MWS	**1.28**	**1.52**

ANNEXURE-I

BENEFICIARIES WISE DETAILS OF DEVELOPMENTAL ACTIVITIES Estimate

Eatimate LALITPUR TARGWA													
Name of the beneficiary	Caste	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.)	
Targuwan													
Shaymlal Sm Basnati		913,892	0.652,0.757	C D 1	120	8.60	1.80	1.70	8.84	1060.80	53.20	0.56	
ramnarayan,Hariram		903,902	0.550.0.170	C D 2	150	8.40	1.80	1.65	8.41	1261.50	53.20	0.67	
Tara,Sm Phula		12,081,229	0.713,0.235	CD 3	100	8.76	1.80	1.74	9.18	918.00	53.20	0.49	
Harcharn,Nepal singh		1,200	0.825	CD 4	120	9.00	1.80	1.80	9.72	1166.40	53.20	0.62	
					490							2.34	
Chhotelal,Chhotelal		877,918	0.166,0.097	GP1	40	8.60	1.80	1.70	8.84	353.60	53.20	0.19	
Harishchandra,Satish		15,541,555	0.761	GP4	40	8.40	1.80	1.65	8.41	336.40	53.20	0.18	
Vinod ,Deepak		13,121,311	0.239,0.020	GP5	60	8.6	1.80	1.70	8.84	530.40	53.20	0.28	
Mohan,Vimla rani		1,329	1.205,1.190	GP6	40	8.32	1.80	1.63	8.24	329.60	53.20	0.18	
					180							0.82	
Mohan,Vimala		13,291,521	1.205	WHB3	160	8.40	1.8	1.65	8.41	1345.60	56.20	0.76	
Ramprasad,Pappu		12,181,215	1.586,0.862	WHB4	150	8.36	1.8	1.64	8.33	1249.50	56.20	0.70	
Bihari,Manohar		14,991,493	0.088,0.889	WHB5	160	8.48	1.8	1.67	8.58	1372.80	56.20	0.77	
Natthu Ramsewak		12,401,235	1.270,0.559	WHB6	160	7.48	1.8	1.68	7.80	1248.00	56.20	0.70	

Ramcharan,Mahesh		1,277,967	0.040,0.429	WHB7	150	8.60	1.8	1.70	8.84	1326.00	56.20	0.75	
					780							3.68	
Chhotelal		892,878	0.097	PB 1	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40	
Meera Devi,Surprakash		870,871	1.629,	PB 2	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32	
Meera Devi,Sangeeta		868,869	0.490,1.629	PB 3	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40	
Chhotelal Basanti		889,892	0.652,0.757	PB4	260	4.60	1.00	1.20	3.36	873.60	47.50	0.41	
Uma Basanti ,		893,807	1.999	PB 5	160	4.60	1.00	1.20	3.36	537.60	47.50	0.26	
SM usha		897,898	0.247,0.242	PB6	150	4.60	1.00	1.20	3.36	504.00	47.50	0.24	
SM uama		898,896	0.342,0.878	PB 7	350	4.60	1.00	1.20	3.36	1176.00	47.50	0.56	
Ganpat,Dinesh		11,861,189	0.607,1.388	PB 8	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32	
Munna,Sujan		12,531,256	0.223,2.314	PB9	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32	
Ganesh,Tara		11,891,207	1.559,1.338	PB 10	320	4.60	1.00	1.20	3.36	1075.20	47.50	0.51	
Mahendra singh,Tulsi		12,451,287	0.3241.784	PB 11	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32	
Ramsewak,		12,391,238	0.721,9.040	PB15	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40	
Udayprakash,Puran singh		13,071,316	0.822,0.745	PB 16	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32	
Dinesh ,Chtara		13,231,321	0.599,0.526	PB 17	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40	
Ramprasad,Ramsewak		12,161,238	1.015,0.721	PB 18	350	4.60	1.00	1.20	3.36	1176.00	47.50	0.56	
Kallu singh,Dasrath singh		11,901,202	0.8630.162	PB19	320	4.60	1.00	1.20	3.36	1075.20	47.50	0.51	

Hariram		11,951,177	0.476,0.202	PB20	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32	
Govindas,Jodhan singh		11,801,168	0.1010.15	PB21	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32	
Beera singh		13,771,381	0.162,0.291	PB22	300	4.60	1.00	1.20	3.36	1008.00	47.50	0.48	
Senpal,Ramdayal		13,321,337	0.364,0.202	PB23	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40	
Nepal singh,Sushil kumar		11,561,152	0.049,0.081	PB24	180	4.60	1.00	1.20	3.36	604.80	47.50	0.29	
Praveen,Ratan singh		319,322	0.210,0.040	PB25	280	4.60	1.00	1.20	3.36	940.80	47.50	0.45	
BindrawanMeherwan		326,312	0.0570.134	PB26	260	4.60	1.00	1.20	3.36	873.60	47.50	0.41	
Bhagwan singh,Goti		305,393	0.113,0.524	PB27	180	4.60	1.00	1.20	3.36	604.80	47.50	0.29	
Hari singh,Biharilal		281,272	0.142,0.105	PB28	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32	
Natthu		14,101,418	0.085,0.109	PB29	350	4.60	1.00	1.20	3.36	1176.00	47.50	0.56	
Kundan singh,Babulal		287,282	0.478,0.405	PB30	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40	
Kundan singh,Chhutta		2,811,457	0.223,0.478	PB31	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40	
Beera singh,Chandrabhan		146,154	0.172,0.028	PB32	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40	
Khusi begam,Beer singh		247,250	0.1030.073	PB33	300	4.60	1.00	1.20	3.36	1008.00	47.50	0.48	
					7060							11.27	
Laxman,Mohanlal		947,950	0.445,1.068	SB8	400	3.50	0.50	1.00	2.00	800.00	49.50	0.40	
Mohanlal		939,942	0.206,0.178	SB9	260	3.50	0.50	1.00	2.00	520.00	49.50	0.26	
Mohanlal,Ramsew		936,942	0.404,0	SB10	240	3.50	0.50	1.00	2.00	480.00	49.50	0.24	

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Chhotelal,Hariram		881,890	0.202,0.190	SB11	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30	
Mohan,Shayamlal		9,431,258	0.138,0.172	SB12	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30	
Chhotelal,Ramprsad		877,891	0.097,0.101	SB13	350	3.50	0.50	1.00	2.00	700.00	49.50	0.35	
MannaRavindra kumar		980,993	0.306,0.797	SB14	280	3.50	0.50	1.00	2.00	560.00	49.50	0.28	
Ramkishan,Ravendra		979,977	0.113,0.186	SB15	280	3.50	0.50	1.00	2.00	560.00	49.50	0.28	
Ravindra kumar,Rameshawar		993,997	1.402,0.797	SB16	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30	
Susil kumar jitendra kumar		1192	0.097,0.178	SB17	280	3.50	0.50	1.00	2.00	560.00	49.50	0.28	
Ramratan,Htuwa		1184	0.024,0.214	SB18	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30	
Ramkali,Monu		1194	0.130,0.061	SB19	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25	
Raphik,Deshraj		10,531,028	0.170,0.356	SB20	350	3.50	0.50	1.00	2.00	700.00	49.50	0.35	
Deshraj,Durjuwa		3,421,035	0.121,0.089	SB21	280	3.50	0.50	1.00	2.00	560.00	49.50	0.28	
Munna,Prawatlal		10,331,045	0.089,0.117	SB22	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25	
Deshraj,Hakimsingh		329	0.125	SB23	280	3.50	0.50	1.00	2.00	560.00	49.50	0.28	
Raghunath ji		305	0.089	SB24	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25	
Chhuttha		1457	0.121	SB25	280	3.50	0.50	1.00	2.00	560.00	49.50	0.28	
Balwant singh,Bhuri		1,432,278	0.056,0.053	SB26	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25	
Harisingh Tera singh		1423	0.231	SB27	280	3.50	0.50	1.00	2.00	560.00	49.50	0.28	

SMRampryari,Hariram		13,691,365	0.652,0.688	SB28	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25	
Ramcharan, etc		15,061,512	0.935	SB29	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30	
Ramdyal,Bihari		13,391,342	0.364,0.405	SB30	350	3.50	0.50	1.00	2.00	700.00	49.50	0.35	
Sempal,Ramdyal		13,391,335	0.465,0.364	SB31	240	3.50	0.50	1.00	2.00	480.00	49.50	0.24	
Senpal,Ragga		1326	0.936,0.363	SB32	280	3.50	0.50	1.00	2.00	560.00	49.50	0.28	
Ramdyal,Bimlarani		13,291,536	1.205,0.061	SB33	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25	
		15,381,551		SB34	280	3.50	0.50	1.00	2.00	560.00	49.50	0.28	
		15,471,545		SB35	350	3.50	0.50	1.00	2.00	700.00	49.50	0.35	
Jagbhan singh ,karan		135	0.15	SB44	280	3.50	0.50	1.00	2.00	560.00	49.50	0.28	
Mahendrapal singh		222	0.057	SB45	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25	
Sonsingh		215	0.04	SB46	280	3.50	0.50	1.00	2.00	560.00	49.50	0.28	
Mahendrapal singh		210	0.162	SB47	260	3.50	0.50	1.00	2.00	520.00	49.50	0.26	
Rajbahadur singh		93,197	0.146	SB48	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30	
					9430							9.34	
Bamhorisar													
Siddu Vinod,Ratan		19,271,932	1.16,1.166	WHB1	200	8.20	1.8	1.60	8.00	1600.00	56.20	0.90	
Bhawani singh,Rakwar		15,741,836	0.069,0.544	WHB2	200	8.60	1.8	1.70	8.84	1768.00	56.20	0.99	
					400							1.89	
Sm Mukhta,Ganpat		19,721,952	0.620,0.417	SB36	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30	
Babulal,Lamppu		19,621,9	0.518,0	SB37	350	3.50	0.50	1.00	2.00	700.00	49.50	0.35	

		78	.630										
Sm Mukhta,		1971	0.041	SB38	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30	
Param,Shivsankar		19,361,907	0.599,1.493	SB39	280	3.50	0.50	1.00	2.00	560.00	49.50	0.28	
Lalluram		1905	0.862	SB40	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30	
Rameschand,Kishan singh		1544	1.384	SB41	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20	
Harilal,		1538	0.162	SB42	350	3.50	0.50	1.00	2.00	700.00	49.50	0.35	
Swamisaran		1517	0.836	SB43	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30	
Prasann kumar		93	0.68	SB49	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20	
Prasann kumar		94	0.324	SB50	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25	
Hai singh		413,412	0.089,0.092	SB51	350	3.50	0.50	1.00	2.00	700.00	49.50	0.35	
SM laxmi		487	0.259	SB52	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20	
Manohar singh		455	0.334	SB53	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30	
Lal singh		276	0.271	SB54	350	3.50	0.50	1.00	2.00	700.00	49.50	0.35	
Narayandas		560	0.069	SB55	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20	
Munna		515	0.13	SB56	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30	
Bhujabal		531	0.202	SB57	400	3.50	0.50	1.00	2.00	800.00	49.50	0.40	
Bhawani singh		1572	0.069	SB58	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25	
Champa		1509	0.055	SB59	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25	
					5430							5.38	
Santosh,Binda		5,281,566	0.0610.300	PB34	300	4.60	1.00	1.20	3.36	1008.00	47.50	0.48	
Champa,Tunda		15,151,868	2.3460.012	PB35	500	4.60	1.00	1.20	3.36	1680.00	47.50	0.80	
Bhujbal,Sm Kiran		18,521,859	0.458,0.47	PB36	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40	
Dhaniran,Maniram		19,401,939	0.186,0.696	PB37	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40	
Ramlal,Kasibai		18,971,836	0.024,0.651	PB38	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32	

Shivsankar		1907	0.595	PB39	300	4.60	1.00	1.20	3.36	1008.00	47.50	0.48	
Balluram,		19,061,905	0.162	PB40	220	4.60	1.00	1.20	3.36	739.20	47.50	0.35	
Ramesh chand		1544	1.384	PB41	260	4.60	1.00	1.20	3.36	873.60	47.50	0.41	
Kailash,Harilal		15,421,536	0.182,0.607	PB42	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32	
					2480							3.96	
Bijrotha													
Chandi,Haridash		664,646	0.198	GP2	80	8.56	1.80	1.69	8.75	700.00	53.20	0.37	
Ratan singh,gulab singh		712,711	0.336	GP3	60	8.64	1.80	1.71	8.92	535.20	53.20	0.28	
					140							0.66	
Toran singh,Ratan singh		779,784	0.061,0.530	PB 12	220	4.60	1.00	1.20	3.36	739.20	47.50	0.35	
Hariram ghanshyam		833,834	0.369,0.138	PB 13	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32	
Dasuwa,Gopi		719,738	0.287,0.008	PB14	220	4.60	1.00	1.20	3.36	739.20	47.50	0.35	
Pradhan,Bihrilal		813,781	0.077,0.081	PB43	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32	
					840							1.34	
Chhandi,Nauwa		644,658	0.008,0.320	SB1	260	3.50	0.50	1.00	2.00	520.00	49.50	0.26	
Bhagirath,Santosh		530,510	0.146,0.178	SB2	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25	
Biharilal,Barat singh		379,372	0.109,0.105	SB3	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25	
Balla,Bhagirath		374,515	0.049,0.016	SB4	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25	
Ratan ,Bhagwan singh		303,300	0.170,1.295	SB5	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20	
Babu,Bindrawan		315,309	0.053,0.109	SB6	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25	
Sandeep,Goti		320,417	0.138,1	SB7	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20	

			.015										
					1660							1.64	

				Eatimate Lalitpur -Tendra								
Name of the beneficiary	**Ca ste**	**Khasar a No.**	**Area (ha)**	**Activity (Proposed)**	**Lengt h (M)**	**Breadth (Cm)**	**Top width (Cm)**	**Height (Cm)**	**Cross Section (m2)**	**E.W. (Cum)**	**Rate per (Cum)**	**Total Cost (Rs.)**
Kamta,Jujhar		1,193	2.293	WHB1	180	9.20	1.80	1.85	10.17	1830.60	56.20	1.03
Moti,hire		13	0.578	WHB2	220	8.84	1.80	1.76	9.36	2059.20	56.20	1.16
		199		WHB3	160	9.36	1.80	1.89	10.54	1686.40	56.20	0.95
Lal singh,Dev singh		162	0.251	WHB4	220	8.4	1.80	1.65	8.41	1850.20	56.20	1.04
Dev singh		255,257	0.0166	WHB5	200	8.28	1.80	1.62	8.16	1632.00	56.20	0.92
Hardash,Barelal		348,352	0.435,0 .809	WHB6	140	8.36	1.80	1.64	8.33	1166.20	56.20	0.66
Raghubar,Beerpal		445,613	0.100,0 .024	WHB7	180	8.52	1.80	1.68	8.66	1558.80	56.20	0.88
Rakesh		199	4.244	WHB8	230	8.44	1.80	1.66	8.49	1952.70	56.20	1.10
Chandan,Balram		29,30	0.186,0 .505	WHB9	160	8.56	1.80	1.69	8.75	1400.00	56.20	0.79
Ganpat,Prakash		121,129	0.283,0 .530	WHB10	200	8.68	1.80	1.72	0.01	2.00	56.20	0.00
Tulsiram		124,125	0.032,0 .173	WHB11	180	8.96	1.80	1.79	9.63	1733.40	56.20	0.97
Sripat,Chhuttha		1839	0.667,1 .242	WHB12	140	8.48	1.80	1.67	8.58	1201.20	56.20	0.68
					2210							10.16
Gorelal,Shivdyal		1178	0.833	PB 1	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Kasiram,		1100	2.01,0. 258	PB 2	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
		214,201		PB 3	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32

Rakesh		197,195	0.536	PB4	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40
Lal singh,awadhrani		197	0.202	PB 5	300	4.60	1.00	1.20	3.36	1008.00	47.50	0.48
Rajkumari ,awadhkumari		192,201	0.988	PB6	220	4.60	1.00	1.20	3.36	739.20	47.50	0.35
Dev singh,Lal singh		162,157	0.162	PB 7	280	4.60	1.00	1.20	3.36	940.80	47.50	0.45
Phul singh,		261,263	0.093,0 .162	PB 8	300	4.60	1.00	1.20	3.36	1008.00	47.50	0.48
Rampyari		251	0.427	PB9	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Dev singh,Lal singh		242,245	1.497	PB 10	350	4.60	1.00	1.20	3.36	1176.00	47.50	0.56
Pyarelal		292,248	0.804	PB 11	280	4.60	1.00	1.20	3.36	940.80	47.50	0.45
Prakash		268,271	0.129	PB 12	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Desraj		109,102	0.423	PB 13	300	4.60	1.00	1.20	3.36	1008.00	47.50	0.48
Prakash,Shadilal		97,95,9 3	0.547	PB14	300	4.60	1.00	1.20	3.36	1008.00	47.50	0.48
Dev singh,Khalipha		339,313	0.275,1 .052	PB15	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40
SM Srawan,Savitri		338,344	1.092,0 .966	PB 16	260	4.60	1.00	1.20	3.36	873.60	47.50	0.41
Barelal,Bhagirath		353,368	0.809,0 .223	PB 17	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40
Bhagwandash		18,16	0.259	PB 18	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Dinesh kumar,Shobharam		13,8	1.372,0 .200	PB19	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Awadhesh,Balram		7,2	0.240,0 .065	PB20	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40
Ghamandi		494,749	0.971	PB21	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Hannu		1,732	0.121	PB22	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40
Shivram ,Rajkumari,sujan		33,59	0.130,0 .069	PB23	300	4.60	1.00	1.20	3.36	1008.00	47.50	0.48
Ratan,Meharban		60,90	0.202,0 .251	PB24	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40

Kishan singh		93	1.279	PB25	260	4.60	1.00	1.20	3.36	873.60	47.50	0.41
Par singh,Karan singh		176,187	0.486,0.202	PB26	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Munna,Jagdeesh		368,371	0.809,0.832	PB27	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Saovat		501,499	1.104,0.013	PB28	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Raghubar,Pahalwan		481,499	0.166	PB29	300	4.60	1.00	1.20	3.36	1008.00	47.50	0.48
Prakash,		396,393	0.202	PB30	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Hajari,		416,435	0.114	PB31	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Shiroman,		132,113	0.47	PB32	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Denish puran		1,842	1.352,0.474	PB33	280	4.60	1.00	1.20	3.36	940.80	47.50	0.45
Deepu Anju		235,231	2.346,0.346	PB34	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
					8230							13.14
Jayram,Ramdyal		12,04,1197	0.672,0.527	SB1	280	3.50	0.50	1.00	2.00	560.00	49.50	0.28
Natthu,Beeran		11,37	0.326	SB2	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30
Jayram,		1,218	0.162	SB3	220	3.50	0.50	1.00	2.00	440.00	49.50	0.22
Chhotelal,Rajkumar		1223.1228	0.329,0.247	SB4	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20
Marju,Hukumram		11,271,123	1.015,	SB5	260	3.50	0.50	1.00	2.00	520.00	49.50	0.26
Rajkumar,Rajkumari		174,173	0.988	SB6	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25
Gajju,SM sahju		165	0.866	SB7	280	3.50	0.50	1.00	2.00	560.00	49.50	0.28
Aashram ,Dilip		145	1.894	SB8	320	3.50	0.50	1.00	2.00	640.00	49.50	0.32
Ram kumari		154		SB9	240	3.50	0.50	1.00	2.00	480.00	49.50	0.24
Ramesh,Lalla		87,32	0.405,0.609	SB10	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30
Chandan,Prakash		89,27	0.793,0	SB11	350	3.50	0.50	1.00	2.00	700.00	49.50	0.35

			.114									
Shobharam,		22,23	0.655,0 .456	SB12	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20
Denesh kumar <Devendra		9,10	0.611,0 .817	SB13	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20
Mahindra kumar		11	0.870,0 .150	SB14	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20
Chintamani,Puspa		50,67	0.352,0 .713	SB15	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25
Jagat singh,Rajwati		1849	0.516,0 .512	SB16	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30
Manorma,Pratima		18,571, 859	0.142,0 .542	SB17	280	3.50	0.50	1.00	2.00	560.00	49.50	0.28
Kamal kumar,Khet singh		18,611, 848	0.538,0 .750	SB18	260	3.50	0.50	1.00	2.00	520.00	49.50	0.26
Sripat		1834	0.283,	SB19	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25
Hm jayram singh		1827	0.923	SB20	240	3.50	0.50	1.00	2.00	480.00	49.50	0.24
Nirpat,Kamal		18,271, 824	1,.655	SB21	260	3.50	0.50	1.00	2.00	520.00	49.50	0.26
Toran,Narayandas		17,931, 791	0.202,0 .101	SB22	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20
Sujan,HarcharaN		1820	1.445	SB23	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20
Puran Dati		1822	0.824	SB24	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30
Meerabai		18,21	0.551	SB25	280	3.50	0.50	1.00	2.00	560.00	49.50	0.28
Bhagwandas,Chut tha		18,121, 839	1.242,0 .433	SB26	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20
Chhuttha		156,128	0.308	SB27	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25
Nalda,Kailash		162,161	0.729,0 .69	SB28	350	3.50	0.50	1.00	2.00	700.00	49.50	0.35
Ramkali,Suresh		126,138	0.591	SB29	280	3.50	0.50	1.00	2.00	560.00	49.50	0.28
Siyaram,Rajaram, Harcharan		17,001, 769	2.294,0 .835	SB30	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20
Amar singh,Balwant		17,561, 767	0.200,0 .028	SB31	350	3.50	0.50	1.00	2.00	700.00	49.50	0.35

singh												
SM Suman, Govind		1,703,156	0.433,	SB32	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25
Hannu,Govindra		14,291,733	0.049,0.036	SB33	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20
Ragga,Manka		17,351,754	0.243,0.850	SB34	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20
Janardan,Kamlesh kumar		41,105	2.221,0.275	SB35	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25
Tara devi,Meharban		46,90	0.249.0.340	SB36	280	3.50	0.50	1.00	2.00	560.00	49.50	0.28
Kamlesh kumar		95,100	0.162,	SB37	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25
Beeran singh Jahar singh		175,180	0.093,0.300	SB38	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20
Lakhanlal,Nahar singh		190,203	0.202,0.405	SB39	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30
Ghamandi,Ramswroop		495,496	0.971,0.518	SB40	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20
Jayram,Ramdyal		12,04,1197	0.672,0.527	SB41	280	3.50	0.50	1.00	2.00	560.00	49.50	0.28
Natthu,Beeran		11,37	0.326	SB42	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30
Jayram,		1,218	0.162	SB43	220	3.50	0.50	1.00	2.00	440.00	49.50	0.22
Chhotelal,Rajkumar		1223.1228	0.329,0.247	SB44	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20
Marju,Hukumram		11,271,123	1.015,	SB45	260	3.50	0.50	1.00	2.00	520.00	49.50	0.26
Rajkumar,Rajkumari		174,173	0.988	SB46	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25
Gajju,SM sahju		165	0.866	SB47	280	3.50	0.50	1.00	2.00	560.00	49.50	0.28
Aashram ,Dilip		145	1.894	SB48	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30
Ram kumari		154	0.543,8.765	SB49	240	3.50	0.50	1.00	2.00	480.00	49.50	0.24
					12510							12.38
Babu Sukhdevi		1191	0.66	GP1	60	7.88	1.80	1.52	7.35	441.00	53.2	0.23

Preetam ,Gajuwa		1195	5.34	GP2	60	8.00	1.80	1.55	7.59	455.40	53.2	0.24
Gorelal		1179	0.625	GP3	50	7.84	1.80	1.51	7.27	363.50	53.2	0.19
Manna		1,129	0.559	GP4	40	8.40	1.80	1.65	8.41	336.40	53.2	0.18
Panchram,Lal singh		472,473	0.809,1.890	GP5	80	8.60	1.80	1.70	8.84	707.20	53.2	0.38
Shobhram,Chandan		23,29	0.417,0.186	GP6	40	8.60	1.80	1.70	8.84	353.60	53.2	0.19
Ramkali,Munna		87	1.858,1.417	GP7	80	8.56	1.80	1.69	8.75	700.00	53.2	0.37
Ramsewak,Sukhwati		66	0.0610.041	GP8	60	8.48	1.80	1.67	8.58	514.80	53.2	0.27
Trilok,Rati		72	0.202,0.405	GP9	80	8.64	1.80	1.71	8.92	713.60	53.2	0.38
Phulbai,Sirnam		68	0.174,0.340	GP10	40	8.76	1.80	1.74	9.18	367.20	53.2	0.20
Bhujbal singh		1852	1.47	GP11	40	8.32	1.80	1.63	8.24	329.60	53.2	0.18
Prakash		362	0.127	GP12	60	8.48	1.80	1.67	8.58	514.80	53.2	0.27
Rampal,Shankar		211,17	0.678,1.234	GP13	60	7.88	1.80	1.52	7.35	441.00	53.2	0.23
Kamlesh jagat		19,31	0.456,0.897	GP14	60	8.00	1.80	1.55	7.59	455.40	53.2	0.24
akilesh,ranjanki		621,616	0.456,987	GP15	50	7.84	1.80	1.51	7.27	363.50	53.2	0.19
Rani,chhioti bahu		636,658	2.456,0.089	GP16	80	8.40	1.80	1.65	8.41	672.80	53.2	0.36
					940							4.11
Ashish kumar,Gopi		11,871,188	0.348,0.245	CD1	140	8.28	1.80	1.62	8.16	1142.40	53.2	0.61
Ram singh		1185	0.678,0.743	CD2	180	8.16	1.80	1.59	7.91	1423.80	53.2	0.76
Pan singh		211	0.098,0.765	CD3	180	8.84	1.80	1.76	9.36	1684.80	53.2	0.90
Rakesh		195	0.231	CD4	160	8.92	1.80	1.78	9.54	1526.40	53.2	0.81
Kahar singh		335	0.849	CD5	150	8.20	1.80	1.60	8.0	1200.00	53.2	0.64

Babu singh,Barelal		356,368	0.607,1.416	CD6	140	8.0	1.80	1.53	7.59	1062.60	53.2	0.57
Maniram,Ashok		503	0.324,0.218	CD7	150	8.76	1.80	1.74	9.18	1377.00	53.2	0.73
Raghubar,Hariram		416,417	0.255,0.178	CD8	150	9.0	1.80	1.80	9.72	1458.00	53.2	0.78
Ramkali,Ramsewak		467	0.445,1.003	CD9	160	8.90	1.80	1.77	9.46	1513.60	53.2	0.81
Parash		200,495	0.146,0.081	CD10	140	8.70	1.80	1.72	7.48	1047.20	53.2	0.56
Meharban,Ramdyal		188	0.089	CD11	180	9.08	1.80	1.82	9.90	1782.00	53.2	0.95
Govindra,Jeewan		15,16	0.226,0.178	CD12	180	8.76	1.80	1.74	9.18	1652.40	53.2	0.88
Harcharan		17,501,749	2.023	CD13	160	8.84	1.80	1.76	9.36	1497.60	53.2	0.80
Manorama		18,541,853	0.295,0.672	CD14	140	8.70	1.80	1.72	7.48	1047.20	53.2	0.56
Khet singh,		18,461,847	0.412	CD15	140	8.60	1.80	1.70	8.84	1237.60	53.2	0.66
Ram bharose,Kamta		429,430	0.654,1.657	CD16	160	8.84	1.80	1.76	9.36	1497.60	53.2	0.80
Amit,Raggu		471,464	0.987,2.543	CD17	180	8.76	1.80	1.74	9.18	1652.40	53.2	0.88
Rakesh Amar singh		25,28	0.512,7.685	CD18	150	9.0	1.80	1.80	9.72	1458.00	53.2	0.78
					2840							13.44
			Pucca Work CD									7.53

Eastimate Lalitpur Kakrari					Village							
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.)**
Bijrotha												
Ramprasad,Bhagwandas		808,807	0.202	PB27	300	4.60	1.00	1.20	3.36	1008.00	47.50	0.48
Ramprasad,Bhagwandas		823	2.335	PB29	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Munnalal,Bhagwandas		551,851	0.101	PB32	150	4.60	1.00	1.20	3.36	504.00	47.50	0.24
Patuwa,Samran		915	1.246	PB34	180	4.60	1.00	1.20	3.36	604.80	47.50	0.29
Gulab,Radha		925,927	0.125,0.421	PB35	180	4.60	1.00	1.20	3.36	604.80	47.50	0.29
Raju,Mansukh		917,943	0.376	PB36	180	4.60	1.00	1.20	3.36	604.80	47.50	0.29
Shankar,Mahindra singh		11,981,118	0.242,1.729	PB39	160	4.60	1.00	1.20	3.36	537.60	47.50	0.26
Ramdyal,Harpal		1,199	0.364	PB40	180	4.60	1.00	1.20	3.36	604.80	47.50	0.29
Kasiram,Ramdyal		12,051,206	0.757,0.526	PB43	260	4.60	1.00	1.20	3.36	873.60	47.50	0.41
Kallu,Tijiya		510,516	0.150,0.012	SB31	200	3.50	0.50	1.00	2.00	400.00	49.45	0.20
Veeran,Vijay		560,559	0.628,0.486	SB32	180	3.50	0.50	1.00	2.00	360.00	49.45	0.18
Kishora,Komal		880,885	0.194	SB33	260	3.50	0.50	1.00	2.00	520.00	49.45	0.26
Parwati		879,890	0.023	SB34	250	3.50	0.50	1.00	2.00	500.00	49.45	0.25
Kishora		882,805	0.101	SB35	100	3.50	0.50	1.00	2.00	200.00	49.45	0.10
Radha		993,974	0.073	SB36	300	3.50	0.50	1.00	2.00	600.00	49.45	0.30
Lakhan,Komal		961,959	0.134,	SB37	200	3.50	0.50	1.00	2.00	400.00	49.45	0.20
Hakim,Jayram		944,937	0.405,0.603	SB38	200	3.50	0.50	1.00	2.00	400.00	49.45	0.20

Kishora		910	0.081,0.101	SB39	260	3.50	0.50	1.00	2.00	520.00	49.45	0.26
Kabeer,Ramesh		11,091,113	1.546	SB40	180	3.50	0.50	1.00	2.00	360.00	49.45	0.18
Ganuwa,Amir		10,621,042	0.073,0.466	SB41	260	3.50	0.50	1.00	2.00	520.00	49.45	0.26
Jagendra,Manohar		11,821,183	0.113,0.413	SB42	180	3.50	0.50	1.00	2.00	360.00	49.45	0.18
Khet singh,Vaeju		12,121,213	0.214,0.308	SB43	200	3.50	0.50	1.00	2.00	400.00	49.45	0.20
Sripat,Nathuwa		1228	0.809,0.210	SB44	240	3.50	0.50	1.00	2.00	480.00	49.45	0.24
Darmu,Durga		13,021,378	0.554,0.874	SB45	150	3.50	0.50	1.00	2.00	300.00	49.45	0.15
Sitaram,Raja		12,441,275	0.466.0466	SB46	180	3.50	0.50	1.00	2.00	360.00	49.45	0.18
Rangu		11,511,157	0.065	SB47	260	3.50	0.50	1.00	2.00	520.00	49.45	0.26
Sitaram Aalam		11,511,150	0.32,0.040	SB48	280	3.50	0.50	1.00	2.00	560.00	49.45	0.28
Sona devi		10,221,048	0.47	SB49	200	3.50	0.50	1.00	2.00	400.00	49.45	0.20
Vindrawan		10,111,018	0.162	SB50	200	3.50	0.50	1.00	2.00	400.00	49.45	0.20
Mansukha		10,661,062	0.19	SB51	200	3.50	0.50	1.00	2.00	400.00	49.45	0.20
Sarman		1,000,991	0.340,0.040	SB52	300	3.50	0.50	1.00	2.00	600.00	49.45	0.30
Shayama		1817	0.053	SB53	240	3.50	0.50	1.00	2.00	480.00	49.45	0.24
Barelal		1448	0.926	SB54	100	3.50	0.50	1.00	2.00	200.00	49.45	0.10
Barelal		1450	0.502	SB55	260	3.50	0.50	1.00	2.00	520.00	49.45	0.26
Randhir,Jani		14,971,499	0.563,0.669	SB56	200	3.50	0.50	1.00	2.00	400.00	49.45	0.20
Janki		14,851,494	0.344	SB57	280	3.50	0.50	1.00	2.00	560.00	49.45	0.28
Hajari,Babulal		15,101,502	0.247,0.200	SB58	260	3.50	0.50	1.00	2.00	520.00	49.45	0.26
Badi bahu		1500	0.547	SB59	240	3.50	0.50	1.00	2.00	480.00	49.45	0.24

Nirbhay		15,261,527	0.753	SB60	100	3.50	0.50	1.00	2.00	200.00	49.45	0.10
Bhagsiya,		15,181,519	0.745	SB61	200	3.50	0.50	1.00	2.00	400.00	49.45	0.20
Brasbhan		6,161,224	0.802	SB62	300	3.50	0.50	1.00	2.00	600.00	49.45	0.30
Ragga		1546	0.186	SB63	260	3.50	0.50	1.00	2.00	520.00	49.45	0.26
Nannu,Gamma		589	0.057,0.372	SB64	240	3.50	0.50	1.00	2.00	480.00	49.45	0.24
Ragga		600,642	0.089	SB65	280	3.50	0.50	1.00	2.00	560.00	49.45	0.28
Brasbhan		627,628	0.065	SB66	150	3.50	0.50	1.00	2.00	300.00	49.45	0.15
Jagnnath,Ramcharan		644	0.304	SB67	250	3.50	0.50	1.00	2.00	500.00	49.45	0.25
Babuwati,Betibai		73,74,71	0.081,0.279	SB68	200	3.50	0.50	1.00	2.00	400.00	49.45	0.20
Rani		718		SB69	250	3.50	0.50	1.00	2.00	500.00	49.45	0.25
Sriram,Ramdeen		12,171,203	0.930,0.450	WHB3	160	8.80	1.80	1.75	9.27	1483.20	56.50	0.84
Prem,Jayram		954,953	0.065,1.2955	WHB4	160	8.56	1.80	1.69	8.75	1400.00	56.50	0.79
Ramprasad,Bharat		831,857	0.081,0.595	WHB13	120	8.60	1.80	1.70	8.84	1060.80	56.50	0.60
Darmendrasingh,Shankar		11,171,116	0.769,0.077	GP8	80	8.28	1.80	1.62	8.16	652.80	53.2	0.35
Manohar singh,Badal		11,981,119	1.092,1.042	CD8	180	9.00	1.80	1.80	9.72	1749.60	53.2	0.93
Bamhorisar												
Kashibai,Kishanlal		19,571,953	0.425,1.023	GP6	80	8.20	1.80	1.60	8.0	640.00	53.2	0.34
Mkura,Ramprasad		1946	1.892,0.109	WHB6	100	8.40	1.80	1.65	8.41	841.00	56.50	0.48
Prayarelal,Ram		1947	1.073,0	WHB10	180	8.24	1.80	1.61	8.88	1598.4	56.50	0.90

kumar			.445							0		
Bhaiyalal		19,731,967	1.282	SB16	280	3.50	0.50	1.00	2.00	560.00	49.45	0.28
Bhaiyalal,Guniya		1,982,138	0.337,0.233	PB 17	180	4.60	1.00	1.20	3.36	604.80	47.50	0.29
Targuwan												
Ajuddi		1987	0.388,	PB 18	240	4.60	1.00	1.20	3.36	806.40	47.50	0.38
Ajuddi		1965	0.412	PB20	160	4.60	1.00	1.20	3.36	537.60	47.50	0.26
Kanei		15,591,561	0.214	PB21	180	4.60	1.00	1.20	3.36	604.80	47.50	0.29
Ramcharan,Shayamlal		13,061,348	0.574,0.030	PB24	280	4.60	1.00	1.20	3.36	940.80	47.50	0.45
Phulsingh,usha		805	0.462	PB26	260	4.60	1.00	1.20	3.36	873.60	47.50	0.41
Kakrari												
Harprasad,Santosh		469,467	0.324,0.024	PB 1	180	4.60	1.00	1.20	3.36	604.80	47.50	0.29
Tulsiram		48,110,045	0.405,0.093	PB 2	100	4.60	1.00	1.20	3.36	336.00	47.50	0.16
Summe,Chirpa		201,475	0.105,0.162	PB 3	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Suresh,Shayambai		18,510,060	0.109	PB4	300	4.60	1.00	1.20	3.36	1008.00	47.50	0.48
Bhagirath,Ramlal		182	0.914,0.170	PB 5	260	4.60	1.00	1.20	3.36	873.60	47.50	0.41
Kisora,		196	0.470	PB6	240	4.60	1.00	1.20	3.36	806.40	47.50	0.38
Ramlal,Gulab		157	1.085	PB 7	260	4.60	1.00	1.20	3.36	873.60	47.50	0.41
Suresh,Shayambai		186,185	0.109,0.388	PB 8	150	4.60	1.00	1.20	3.36	504.00	47.50	0.24
Kisora,Ramsevak		213,216	1.121,.295	PB9	150	4.60	1.00	1.20	3.36	504.00	47.50	0.24
Kisora,Nathuwa		219,226	0.647,0.324	PB 10	180	4.60	1.00	1.20	3.36	604.80	47.50	0.29
Ramesh,Ramsewak		250,249	0.425,0.138	PB 11	180	4.60	1.00	1.20	3.36	604.80	47.50	0.29

Pancham,SM gyan		243,223	0201,0.251	PB 12	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40
Kisora,		222	0.482	PB 13	260	4.60	1.00	1.20	3.36	873.60	47.50	0.41
SM guniya		139	0.444,0.432	PB14	180	4.60	1.00	1.20	3.36	604.80	47.50	0.29
Veeran,Ramsingh		134,136	0.190,0.053	PB15	160	4.60	1.00	1.20	3.36	537.60	47.50	0.26
Barelal,Parwati		43	0.372,0.329	PB 16	240	4.60	1.00	1.20	3.36	806.40	47.50	0.38
Guddi		39,303,940	0.040,0.328	PB19	140	4.60	1.00	1.20	3.36	470.40	47.50	0.22
Bhakta		35,53	0.093,0.033	PB22	180	4.60	1.00	1.20	3.36	604.80	47.50	0.29
Karan,vinod		25,26	0.474,0.520	PB23	100	4.60	1.00	1.20	3.36	336.00	47.50	0.16
Vinod,Bhansingh		6,7	0.239,0.425	PB25	100	4.60	1.00	1.20	3.36	336.00	47.50	0.16
Gorelal,Suraj singh		77,78	0.089,0.105	PB28	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Chanu,Khade		290,297	0.725,0.073	PB30	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Khade		327,305	0.012,0.279	PB31	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Keshan,Ramlal		345,363	0.174,0.081	PB33	300	4.60	1.00	1.20	3.36	1008.00	47.50	0.48
Prarelal,Ganesh		416,415	0.123	PB37	280	4.60	1.00	1.20	3.36	940.80	47.50	0.45
Bindrawan,		425	1.279	PB38	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40
Veeran,vijay		562	0.076	PB41	280	4.60	1.00	1.20	3.36	940.80	47.50	0.45
Brajlal,Hariram		563,564	4.164	PB42	180	4.60	1.00	1.20	3.36	604.80	47.50	0.29
SM Nanhibai,Chippa		515,516	0.162	PB44	280	4.60	1.00	1.20	3.36	940.80	47.50	0.45

Sitaram,Harisingh		11,961,197	0.502,0.202	GP1	60	8.20	1.80	1.60	8.0	480.00	53.2	0.26
Amarsingh,Raghunath		1048	0.38	GP2	40	8.04	1.80	1.56	7.67	306.80	53.2	0.16
Jayram,Jalam		1076	0.105,0.086	GP3	80	8.228	1.80	1.62	8.16	652.80	53.2	0.35
Munna,Gochi		233	1.574,0.036	GP4	60	8.16	1.80	1.59	6.78	406.80	53.2	0.22
Rajaram,Dujji		127	0.304	GP5	60	8.04	1.80	1.56	7.67	460.20	53.2	0.24
Summa,Makunda		594	0.231	GP7	50	8.12	1.80	1.58	6.54	327.00	53.2	0.17
Harprasad,Taredevi		491,489	0.324,0.024	CD1	180	8.60	1.80	1.74	8.84	1591.20	53.2	0.85
Tulsidas,Mathura		476,484	0.112,0.405	CD2	160	8.52	1.80	1.68	8.66	1385.60	53.2	0.74
Bhagirath,Ramlal		181,182	0.332,0.914	CD3	180	8.67	1.80	1.72	8.74	1573.20	53.2	0.84
Pretam,Bhagirath		180,189	0.178,0.332	CD4	180	8.76	1.80	1.74	9.18	1652.40	53.2	0.88
Kisora,Ramsewak		201,196	1.121,0.202	CD5	160	8.60	1.80	1.70	8.84	1414.40	53.2	0.75
Pancham ,Smgyan		242	0.045	CD6	180	8.88	1.80	1.77	9.45	1701.00	53.2	0.90
Ramdayal,Nathuwa		523,524	0.032,0.200	CD7	180	8.76	1.80	1.74	9.18	1652.40	53.2	0.88
Mukda,Kuluwa		542,541	1.015	WHB1	180	8.96	1.80	1.79	9.63	1733.40	56.50	0.98
Kaluwa,Veeran		562,532	1.785,0.076	WHB2	160	8.72	1.80	1.73	9.09	1454.40	56.50	0.82
Bhupat,Sm Genda bai		207,204	0.575,0.663	WHB5	190	8.28	1.80	1.62	8.16	1550.40	56.50	0.88

Prwat,Gulab		143,157	0.437,0.049	WHB7	220	8.60	1.80	1.70	8.84	1944.80	56.50	1.10
Bhupat Gopi		176,175	0.202,0.105	WHB8	180	8.36	1.80	1.64	8.33	1499.40	56.50	0.85
Kamta,Chhannu		10,251,014	0.723,0.142	WHB9	120	8.68	1.80	1.72	9.01	1081.20	56.50	0.61
Harprasad,Bhagirath		289,282	0.121,0.130	WHB11	120	8.32	1.80	1.63	8.24	988.80	56.50	0.56
Tejiram,Chhalaona		266	0.809,0.543	WHB12	180	8.48	1.80	1.67	8.58	1544.40	56.50	0.87
Veeran,Vijay		567	0.21	SB1	200	3.50	0.50	1.00	2.00	400.00	49.45	0.20
Phula		502,503	0.057,0.154	SB2	200	3.50	0.50	1.00	2.00	400.00	49.45	0.20
Gopal,Mitthulal		505,508	0.829,0.135	SB3	220	3.50	0.50	1.00	2.00	440.00	49.45	0.22
Gajna		464,463	0.966	SB4	200	3.50	0.50	1.00	2.00	400.00	49.45	0.20
Harprasad,Suresh		475	0.943	SB5	260	3.50	0.50	1.00	2.00	520.00	49.45	0.26
Hannu,Jasoda		1013	0.142,0.647	SB6	250	3.50	0.50	1.00	2.00	500.00	49.45	0.25
Shivlal,Bhupat		1195	1.56,0.223	SB7	280	3.50	0.50	1.00	2.00	560.00	49.45	0.28
Karan,Puran		1040	0.549,.0.555	SB8	200	3.50	0.50	1.00	2.00	400.00	49.45	0.20
Munni,Kailas		487	0.081,0.660	SB9	240	3.50	0.50	1.00	2.00	480.00	49.45	0.24
Aman		1,051	0.316	SB10	300	3.50	0.50	1.00	2.00	600.00	49.45	0.30
Kashiram,Janki		1,189	0.243,1.481	SB11	250	3.50	0.50	1.00	2.00	500.00	49.45	0.25
Prakash		1,091	0.567	SB12	200	3.50	0.50	1.00	2.00	400.00	49.45	0.20
Jayram		10,741,098	0.995	SB13	280	3.50	0.50	1.00	2.00	560.00	49.45	0.28
Mukesh		1,068	0.607,0.028	SB14	240	3.50	0.50	1.00	2.00	480.00	49.45	0.24

Alakh,Praksh		1080	0.558	SB15	250	3.50	0.50	1.00	2.00	500.00	49.45	0.25
Desraj		210	0.202,0.257	SB17	250	3.50	0.50	1.00	2.00	500.00	49.45	0.25
Bhagwat		440,439	0.218	SB18	200	3.50	0.50	1.00	2.00	400.00	49.45	0.20
SM Goya		453,491	0.174,0.348	SB19	280	3.50	0.50	1.00	2.00	560.00	49.45	0.28
Bindrawan		424,425	0.042,0.259	SB20	200	3.50	0.50	1.00	2.00	400.00	49.45	0.20
Ganesh,Jayram		407,434	1.579	SB21	250	3.50	0.50	1.00	2.00	500.00	49.45	0.25
Kishan,Bhagav		385,384	0.679,0.146	SB22	280	3.50	0.50	1.00	2.00	560.00	49.45	0.28
Kanai,Hariram		370	0.934,0.300	SB23	260	3.50	0.50	1.00	2.00	520.00	49.45	0.26
Ramdas,Chunna		374	1.991	SB24	240	3.50	0.50	1.00	2.00	480.00	49.45	0.24
Kanai,Ramlal		349,313	0.352,0.522	SB25	200	3.50	0.50	1.00	2.00	400.00	49.45	0.20
Ratiram,Lakhan		125,120	0.486,0.907	SB26	280	3.50	0.50	1.00	2.00	560.00	49.45	0.28
Ramsevak,Ramdas		271,254	0.947,0.085	SB27	300	3.50	0.50	1.00	2.00	600.00	49.45	0.30
Gunjan,Chhakkilal		257,256	0.745	SB28	260	3.50	0.50	1.00	2.00	520.00	49.45	0.26
Shivlal,Chhalona		63,56,67	0.486,0.202	SB29	200	3.50	0.50	1.00	2.00	400.00	49.45	0.20
Guddu,Bhagntha		50,52,56	0.437,0.926	SB30	220	3.50	0.50	1.00	2.00	440.00	49.45	0.22
		Pucca Work CD1										8.07
		Pucca Work CD2										6.42

Bijrotha-I

Name of Work	Benefited area (ha)	Field No. / Khasara No.	Area of work		C.S. (Area)	Work Measurement	Rate	Total Cost (Rs.)	Manday Rs. 120/Labour	Name of Farmers
			Length	Width * Height						
SB	1.125, 0.833, 0.300, 0.202	485, 481	280	3.50+0.50*1.00/2	2	560	49.5	0.28	0.00231	Rajju, Lal, Kammod etc.
		483, 482	200	3.50+0.50*1.00/2	2	400	49.5	0.20	0.00165	Ajuddi, Dhanu, Basiya etc.
		480, 3010, 3014, 3013	280	3.50+0.50*1.00/2	2	560	49.5	0.28	0.00231	Gore Lal, Harishchandra etc.
			280	3.50+0.50*1.00/2	2	560	49.5	0.28	0.00231	Vandas, Ramoo, Hannu etc.
			260	3.50+0.50*1.00/2	2	520	49.5	0.26	0.002145	Babu Lal, Smt. Maili Bai etc.
			200	3.50+0.50*1.00/2	2	400	49.5	0.20	0.00165	Smt. Bhoori, Ghansa, etc.
			280	3.50+0.50*1.00/2	2	560	49.5	0.28	0.00231	Bhaiya Lal, Shyam Lal etc.
			360	3.50+0.50*1.00/2	2	720	49.5	0.36	0.00297	Bhardoo, Mohan Lal etc.
			240	3.50+0.50*1.00/2	2	480	49.5	0.24	0.00198	Ashok, Smt. Kalan
			200	3.50+0.50*1.00/2	2	400	49.5	0.20	0.00165	Kishori, Bhagvat, Dinesh etc.
			250	3.50+0.50*1.00/2	2	500	49.5	0.25	0.0020625	Smt. Devki Bai, Laxman etc.
			200	3.50+0.50*1.00/2	2	400	49.5	0.20	0.00165	Smt. Kallu, Ram Kumari etc.
Total						**6060**		**3.00**		
SB			250	3.50+0.50*1.00/2	2	500	49.5	0.25	0.0020625	Bhagirath, Smt. Halli etc.
			300	3.50+0.50*1.00/2	2	600	49.5	0.30	0.002475	Prembai, Bharat Singh etc.
			300	3.50+0.50*1.00/2	2	600	49.5	0.30	0.002475	Jagdish Singh etc.
			200	3.50+0.50*1.00/2	2	400	49.5	0.20	0.00165	Indri, Chatu, Bhagvat Singh etc.
			200	3.50+0.50*1.00/2	2	400	49.5	0.20	0.00165	Aman Singh, Pooran Singh etc.
			300	3.50+0.50*1.00/2	2	600	49.5	0.30	0.002475	Vindravan, Pran Singh etc.
			300	3.50+0.50*1.00/2	2	600	49.5	0.30	0.002475	Pragi Lal, Arjun etc.

			400	3.50+0.50*1.00/2	2	800	49.5	0.40	0.0033	Sukaiya etc.
			300	3.50+0.50*1.00/2	2	600	49.5	0.30	0.002475	Bharat Singh, Bhaiya Lal etc.
			300	3.50+0.50*1.00/2	2	600	49.5	0.30	0.002475	Ramdin etc.
			250	3.50+0.50*1.00/2	2	500	49.5	0.25	0.0020625	Durg Singh, Gaya Prasad etc.
			300	3.50+0.50*1.00/2	2	600	49.5	0.30	0.002475	Khuman, Roop Singh etc.
Total						**6800**		**3.37**		
WHB1			240	11+1.84*2.20/2	14.12	3388.8	56.2	1.90	0.0158709	Dashrath, Dayaram etc.
WHB2			200	11+1.84*2.15/2	13.76	2752	56.2	1.55	0.0128885	Chakki Lal etc.
WHB3			200	11+1.84*2.25/2	14.4	2880	56.2	1.62	0.013488	Kasiya, Binda, etc.
WHB4			240	11+1.84*2.39/2	15.8	3792	56.2	2.13	0.0177592	Caina, Kapoora etc.
WHB5			220	11+1.84*2.10/2	13.69	3011.8	56.2	1.69	0.0141053	Dhoop Singh, Ramsewak etc.
Total						**15824.6**		**8.89**		
CD1			150	9.20+1.80*1.85/2	10.17	1525.5	53.2	0.81	0.0067631	Fool Singh, Aharam etc.
CD2			100	9.20+1.80*1.85/2	9.41	941	53.2	0.50	0.0041718	Chandrpal Singh, Jitendra etc.
CD3			180	9.20+1.80*1.85/2	8.58	1544.4	53.2	0.82	0.0068468	Bhagirath, Summi etc.
CD4			150	9.20+1.80*1.85/2	9.45	1417.5	53.2	0.75	0.0062843	Dhoop Singh, Kasiya etc.
CD5			120	9.20+1.80*1.85/2	9.99	1198.8	53.2	0.64	0.0053147	Dhoop Singh, Kasiya etc.
CD6			100	9.20+1.80*1.85/2	8.75	875	53.2	0.47	0.0038792	Asharam, Shiv Dayal etc.
CD7			120	9.20+1.80*1.85/2	9.18	1101.6	53.2	0.59	0.0048838	Gajendra Prasad, Harpal Singh
CD8			120	9.20+1.80*1.85/2	9.81	1177.2	53.2	0.63	0.0052189	Laxman Singh etc.
CD9			120	9.20+1.80*1.85/2	9.09	1090.8	53.2	0.58	0.0048359	Bhagole, Navla etc.
CD10			140	9.20+1.80*1.85/2	8.58	1201.2	53.2	0.64	0.0053253	Harishchandra
CD11			100	9.20+1.80*1.85/2	9.18	918	53.2	0.49	0.0040698	Shivcharan, Ramswaroop
CD12			180	9.20+1.80*1.85/2	8.92	1605.6	53.2	0.85	0.0071182	Jagdish, Dalpa, Jagan etc.
CD13			120	8.68+180*1.72/2	1.72	206.4	53.2	0.11	0.000915	Parmlal, Ajuddi etc.
CD14			120	8.80+180*1.75/2	1.75	210	53.2	0.11	0.000931	Jagan, Lal Singh etc.
CD15			180	8.56+180*1.69/2	1.69	304.2	53.2	0.16	0.0013486	Arvindh Kumar, Kall etc.

Total						**15317.2**		**8.15**		
GP1			70	8.68+1.80*1.72/2	9.01	630.7	53.2	0.34	0.0027961	Rasakhi, Naduva, Shiv Lal etc.
GP2			80	9.08+1.80*1.82/2	9.9	792	53.2	0.42	0.0035112	Jasuva, Sukhlal, Mathuradas etc.
GP3			100	8.80+1.80*1.75/2	9.27	927	53.2	0.49	0.0041097	Ajuddi, Dhanu, Gopal etc.
GP4			80	8.40+1.80*1.65/2	8.41	672.8	53.2	0.36	0.0029827	Dharam Lal, Ghanshyam
GP5			90	8.60+1.80*1.70/2	8.84	795.6	53.2	0.42	0.0035272	Ramuva
GP6			80	8.52+1.80*1.68/2	8.67	693.6	53.2	0.37	0.003075	Veer Singh, Jahar Singh
GP7			100	8.88+1.80*1.77/2	9.45	945	53.2	0.50	0.0041895	Ram Vilas, Ram Kumar etc.
GP8			90	9.20+1.80*1.85/2	10.17	915.3	53.2	0.49	0.0040578	Anand Lal, Chakki Lal etc.
GP9			80	8.76+1.80*1.74/2	9.18	734.4	53.2	0.39	0.0032558	Smt. Kashi Bai
Total						**7106.4**		**3.78**		
PB1			260	4.60+1.00*1.20/2	3.36	873.6	47.5	0.41	0.003458	Vishvnath, Doop Singh etc.
PB2			300	4.60+1.00*1.20/2	3.36	1008	47.5	0.48	0.00399	Asharam, Chakki Lal etc.
PB3			220	4.60+1.00*1.20/2	3.36	739.2	47.5	0.35	0.002926	Bhaiya Lal, Shyam Lal, etc.
PB4			220	4.60+1.00*1.20/2	3.36	739.2	47.5	0.35	0.002926	Ramsewak, Ram Sakhi etc.
PB5			250	4.60+1.00*1.20/2	3.36	840	47.5	0.40	0.003325	Khalak, Patu, Gyasiya etc.
PB6			300	4.60+1.00*1.20/2	3.36	1008	47.5	0.48	0.00399	Halku etc.
PB7			250	4.60+1.00*1.20/2	3.36	840	47.5	0.40	0.003325	Hajju etc.
PB8			300	4.60+1.00*1.20/2	3.36	1008	47.5	0.48	0.00399	Nathuram, Sani, Nathuram etc.
PB9			220	4.60+1.00*1.20/2	3.36	739.2	47.5	0.35	0.002926	Gajju etc.
PB10			240	4.60+1.00*1.20/2	3.36	806.4	47.5	0.38	0.003192	Parsadi, Laxman etc.
PB11			200	4.60+1.00*1.20/2	3.36	672	47.5	0.32	0.00266	Smt. Kallu, Smt. Raj Kumari etc.
PB12			220	4.60+1.00*1.20/2	3.36	739.2	47.5	0.35	0.002926	Chainu, Hajari, Bhaiya Lal etc.
PB13			250	4.60+1.00*1.20/2	3.36	840	47.5	0.40	0.003325	Aman, Bhoora, etc.
PB14			240	4.60+1.00*1.20/2	3.36	806.4	47.5	0.38	0.003192	Rangnath etc.
PB15			240	4.60+1.00*1.20/2	3.36	806.4	47.5	0.38	0.003192	Shivram Singh, Karan etc.
PB16			220	4.60+1.00*1.20/2	3.36	739.2	47.5	0.35	0.002926	Munna, Rajesh, Jasrath etc.

PB17			250	4.60+1.00*1.20/2	3.36	840	47.5	0.40	0.003325	Nathuva, Govind Singh etc.
PB18			220	4.60+1.00*1.20/2	3.36	739.2	47.5	0.35	0.002926	Devendra Singh, Nathuram etc.
PB19			320	4.60+1.00*1.20/2	3.36	1075.2	47.5	0.51	0.004256	Baburam, Bhaiya Lal
PB20			260	4.60+1.00*1.20/2	3.36	873.6	47.5	0.41	0.003458	Smt. Lacchi etc.
PB21			250	4.60+1.00*1.20/2	3.36	840	47.5	0.40	0.003325	Bhagola, Navla, Ragge etc.
PB22			300	4.60+1.00*1.20/2	3.36	1008	47.5	0.48	0.00399	Krishnpat Singh, Munna etc.
PB23			300	4.60+1.00*1.20/2	3.36	1008	47.5	0.48	0.00399	Nanhi Bai
PB24			200	4.60+1.00*1.20/2	3.36	672	47.5	0.32	0.00266	Harprasad, Ram Bharose etc.
PB25			250	4.60+1.00*1.20/2	3.36	840	47.5	0.40	0.003325	Muluva, Kailash etc.
PB26			200	4.60+1.00*1.20/2	3.36	672	47.5	0.32	0.00266	Ramsewak, Ram Sakhi etc.
PB27			220	4.60+1.00*1.20/2	3.36	739.2	47.5	0.35	0.002926	Dayali, Ragga, Vikrama etc.
PB28			250	4.60+1.00*1.20/2	3.36	840	47.5	0.40	0.003325	Dayali, Ragga, Vikrama etc.
PB29			300	4.60+1.00*1.20/2	3.36	1008	47.5	0.48	0.00399	Kamlesh, Ganesh etc.
PB30			250	4.60+1.00*1.20/2	3.36	840	47.5	0.40	0.003325	Mohan, Kara etc.
PB31			240	4.60+1.00*1.20/2	3.36	806.4	47.5	0.38	0.003192	Smt. Saroj
Total						**26006.4**		**12.35**		
			Pucca Work CD1					6.12		
			Pucca Work CD2					8.10		
			Pucca Work CD3					10.3		

Eastimate lalitpur lalon						**Village Bijrotha**							
S. No.	**Name of the beneficiary**	**Caste**	**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.)**
	Sukhram,Shreeram		53,045, 303	0.300, 0.372	PB 7	200	4.60	1.00	1.20	3.36	672	47.00	0.32
	Jayram singh,govinddas		52,815, 282	0.589, 3.07	PB 8	300	4.60	1.00	1.20	3.36	1008	47.00	0.47
	Kalyan.Chhakki		38,015, 265	0.454, 0.368	PB 9	150	4.60	1.00	1.20	3.36	504	47.00	0.24

	S,m Chhoti bai,Jagdeesh		38,023, 804	0.202, 1.104	PB 10	180	4.60	1.00	1.20	3.36	604.8	47.00	0.28
	Jagdeesh,Rajesh		38,693, 870	1.113, 0.862	PB 11	180	4.60	1.00	1.20	3.36	604.8	47.00	0.28
	Sanjay,S,m munni		3851	0.315	PB 12	250	4.60	1.00	1.20	3.36	840	47.00	0.39
	Ramkishan,Janki		48,703, 887	0.809, 0.713	PB 13	200	4.60	1.00	1.20	3.36	672	47.00	0.32
	Natthu,Rajaram		4840	0.932	PB14	160	4.60	1.00	1.20	3.36	537.6	47.00	0.25
	Harnam		4863	0.729	PB15	180	4.60	1.00	1.20	3.36	604.8	47.00	0.28
	Sonu,Khilla		,5173,5 170	0.125, 0.352	PB 16	240	4.60	1.00	1.20	3.36	806.4	47.00	0.38
	Durga singh,Basantlal		,5197,5 198	0.809, 0.089	PB 17	250	4.60	1.00	1.20	3.36	840	47.00	0.39
	Kishan pratap singh		3,839	1.214	PB 18	240	4.60	1.00	1.20	3.36	806.4	47.00	0.38
	Kishan pratap singh		3797	1.546	PB19	260	4.60	1.00	1.20	3.36	873.6	47.00	0.41
	Ramkishan,Janki		39,094, 458		SB1	400	3.50	0.50	1.00	2.00	800	49.45	0.40
	Natthuwa ramkishan		57,723, 865	0.636	SB2	600	3.50	0.50	1.00	2.00	1200	49.45	0.59
	Balbhard singh,Visavnath singh		3,907	0.297,	SB3	200	3.50	0.50	1.00	2.00	400	49.45	0.20
	Natthu,Makkhan		4840	7.932	SB4	250	3.50	0.50	1.00	2.00	500	49.45	0.25
	Natthu ganesh		48,514, 850	0.174, 0.502	SB5	350	3.50	0.50	1.00	2.00	700	49.45	0.35
	Jagt narayan,Ghanshya m		48,494, 845	0.490, 0.267	SB6	300	3.50	0.50	1.00	2.00	600	49.45	0.30
	Anil jayram		51,655, 167	0.607, 0.109	SB7	200	3.50	0.50	1.00	2.00	400	49.45	0.20
	Ramsevak		5168,	0.247	SB8	220	3.50	0.50	1.00	2.00	440	49.45	0.22

	Desraj Prakash		5,176	0.78	SB9	250	3.50	0.50	1.00	2.00	500	49.45	0.25
	Jalam,Sm bebi bai		5,215	1.829	SB10	280	3.50	0.50	1.00	2.00	560	49.45	0.28
	Pancham lal,kalyan		38,083, 805	0.817, 1.031	SB11	220	3.50	0.50	1.00	2.00	440	49.45	0.22
	Baju ,sura		38,213, 890	0.6920 .065	SB13	250	3.50	0.50	1.00	2.00	500	49.45	0.25
	Saura ramesh		48,854, 881	0.486, 0.210	SB14	200	3.50	0.50	1.00	2.00	400	49.45	0.20
	Sm hukkan,gopal		38,273, 828	0.423	SB15	240	3.50	0.50	1.00	2.00	480	49.45	0.24
	Sanjay,S,m munni		38,463, 847	0.210, 0.287	SB16	300	3.50	0.50	1.00	2.00	600	49.45	0.30
	Jagna,Lalaram		3,874	0.709, 0.405	SB17	280	3.50	0.50	1.00	2.00	560	49.45	0.28
	Kailash		3,857	0.652	SB18	260	3.50	0.50	1.00	2.00	520	49.45	0.26
	Suresh kumar,shukhram		38,443, 858	0.466, 0.283	SB19	220	3.50	0.50	1.00	2.00	440	49.45	0.22
	Hannu,Prasadi		3810	0.174	SB20	250	3.50	0.50	1.00	2.00	500	49.45	0.25
	Janki,Birjendra		37,933, 841	0.471, 2.428	SB21	200	3.50	0.50	1.00	2.00	400	49.45	0.20
	Kammid,Ramkish an		38,823, 885	0.77,0. 526	SB22	300	3.50	0.50	1.00	2.00	600	49.45	0.30
	Ganpat,Dhnuwa		52,865, 285	9.508	SB23	280	3.50	0.50	1.00	2.00	560	49.45	0.28
	Praygi		52,855, 275	0.092	SB24	250	3.50	0.50	1.00	2.00	500	49.45	0.25
	Sm namna bai,Lalu		3794	1.011, 0.405	SB25	280	3.50	0.50	1.00	2.00	560	49.45	0.28
	Ganpat,Dhanuwa		52,865, 285	4.508, 1.534	SB26	300	3.50	0.50	1.00	2.00	600	49.45	0.30
	Dulla,Khalk		5319	0.518, 0.405	SB27	280	3.50	0.50	1.00	2.00	560	49.45	0.28
	Vijay singh,Bakhat		968,96 9	0.602, 1.396	SB46	300	3.50	0.50	1.00	2.00	600	49.45	0.30

	singh												
	Ramdas,Himrat		5312	0.655	CD3	150	9.0	1.80	1.80	9.72	1458	53.2	0.78
	Rakkhu,Rajendra singh		52,523, 765	1.348	CD4	160	8.76	1.80	1.74	9.18	1468.8	53.2	0.78
	Chhngilal,Ajjudi		52,575, 220	1.805	CD5	150	8.88	1.80	1.77	9.45	1417.5	53.2	0.75
	Rajesh kumar,Janki		38,723, 887	0.4780 .458	CD6	180	9.0	1.80	1.80	9.72	1749.6	53.2	0.93
	Munnalal,Sura,So nu		51,785, 170	0.227, 0.713	CD7	160	8.60	1.80	1.70	8.84	1414.4	53.2	0.75
	Jugal,Sakolal		52,015, 183	1.214, 0.405	CD8	180	9.08	1.80	1.82	9.90	1782	53.2	0.95
	Balram singh,Durg singh		925,68 1	0.073, 0.971	CD9	200	9.20	1.80	1.85	10.17	2034	53.2	1.08
	Motilal,Sukhlal		52,325, 214	0.169, 1.655	WHB5	140	8.40	1.80	1.65	8.41	1177.4	56.2	0.66
	Harimohan,Sunna		38,313, 834	0.983, 0.526	WHB6	140	8.48	1.80	1.67	8.58	1201.2	56.2	0.68
	Sura,Ganesh		48,844, 866	2.833, 2.428	WHB7	120	8.36	1.80	1.64	8.33	999.6	56.2	0.56
	Tulsiram,Suresh		733,34	0.769, 1.040	WHB8	150	8.64	1.80	1.71	8.92	1338	56.2	0.75
	Baiju,Kalyan singh		52,495, 233	12.326	GP8	40	8.0	1.80	1.55	7.6	304	53.2	0.16
	Ram,Datar singh		52,465, 245	0.906, 0.510	GP9	40	7.92	1.80	1.53	7.43	297.2	53.2	0.16
	Jagroop,Gupla		3832		GP10	50	8.20	1.80	1.60	8.0	400	53.2	0.21
	Randheer,Chhotib ai		38,323, 836	0.160, 1.331	GP11	40	8.12	1.80	1.58	7.83	313.2	53.2	0.17
	Harpa,Roshan		3,892	0.251, 0.262	GP12	40	8.04	1.80	1.56	7.67	306.8	53.2	0.16

	sm Bhukju raja,Harpa		39,113, 912	0.267, 0.194	GP13	40	8.64	1.80	1.71	8.92	356.8	53.2	0.19
	Lalon												
	Bhujiya,Tara devi		843,84 2	0.032, 0.085	GP1	40	8.16	1.80	1.59	7.92	316.8	53.2	0.17
	Laxman singh,Bhujiya		897,84 8	0.170, 0.283	GP2	40	8.0	1.80	1.55	7.60	304	53.2	0.16
	Pratipal singh,Jagdeesh		10,121, 013	0.121, 0.077	GP3	40	8.20	1.80	1.60	8.0	320	53.2	0.17
	Balram singh,Durjan		695,69 4	0.061, 0.040	GP4	40	8.28	1.80	1.62	8.16	326.4	53.2	0.17
	Bhan singh,Ram singh		807	0.190, 0.101	GP5	40	8.16	1.80	1.59	7.92	316.8	53.2	0.17
	Dhanuwa,Laxman		5286	0.405	GP6	30	7.88	1.80	1.52	7.35	220.5	53.2	0.12
	Puran,Ramdas		5229	4.508	GP7	40	7.76	1.80	1.54	7.51	300.4	53.2	0.16
	Pratipal singh,Rawraja		6,271,0 41	0.158, 0.78	CD1	160	9.0	1.80	1.82	9.82	1571.2	53.2	0.84
	SM Awdhkuwar		3788	0.214, 0.640	CD2	170	8.96	1.80	1.79	9.63	1637.1	53.2	0.87
	Pratipal singh,Vijay singh		923,92 9	0.081, 0.372	WHB1	150	9.08	1.80	1.82	9.90	1485	56.2	0.83
	Tulsiram,Binda		818,81 3	0.130, 0.470	WHB2	140	9.20	1.80	1.85	10.17	1423.8	56.2	0.80
	Bhansingh,Dulla		8,075,3 11	0.117, 0.105	WHB3	130	8.80	1.80	1.75	9.27	1205.1	56.2	0.68
	Jagbhan singh,Prawata		777,77 8	0.405, 0.243	WHB4	180	8.56	1.80	1.69	8.75	1575	56.2	0.89
	Kallu,Balbhadra singh		52,285, 249	0.239, 1.056	SB28	150	3.50	0.50	1.00	2.00	300	49.45	0.15
	Pran singBujiya		827,83	0.101,	SB29	400	3.50	0.50	1.00	2.00	800	49.45	0.40

			0	0.052									
	Bujiya		846,	0.477	SB30	280	3.50	0.50	1.00	2.00	560	49.45	0.28
	Laxman,		998,987	0.121, 0.101	SB31	350	3.50	0.50	1.00	2.00	700	49.45	0.35
	Balram singh,shivram		620,622	0.130, 0.575	SB32	260	3.50	0.50	1.00	2.00	520	49.45	0.26
	Ravraja,Prtipal singh		687,650	0.198, 0.024	SB33	260	3.50	0.50	1.00	2.00	520	49.45	0.26
	Manohar singh,Ravraja		623,629	0.631, 0.125	SB34	250	3.50	0.50	1.00	2.00	500	49.45	0.25
	Sm seeta		748	0.101, 0.112	SB35	280	3.50	0.50	1.00	2.00	560	49.45	0.28
	Jayhind singh,seeta		747,748	2.407, 1.850	SB36	200	3.50	0.50	1.00	2.00	400	49.45	0.20
	Premchand,		758,754	0.591, 0.445	SB37	320	3.50	0.50	1.00	2.00	640	49.45	0.32
	Ashok kumar,Hariram		790,791	1.068	SB38	300	3.50	0.50	1.00	2.00	600	49.45	0.30
	Bhujiya,S.m sheela		836,838	0.384	SB39	200	3.50	0.50	1.00	2.00	400	49.45	0.20
	Motilal,Bhagwan singh		760,788	0.170, 0.012	SB40	240	3.50	0.50	1.00	2.00	480	49.45	0.24
	Smseeta,Bhagwan singh		765,766	0.668, 1.214	SB41	200	3.50	0.50	1.00	2.00	400	49.45	0.20
	Halke,Rajju		773	1.615, 0.190	SB42	280	3.50	0.50	1.00	2.00	560	49.45	0.28
	Rawraja,Shivpal singh		780,778	0.016, 2.185	SB43	320	3.50	0.50	1.00	2.00	640	49.45	0.32
	Rawraja Bajauraja		801,800	0.405, 0.809	SB44	200	3.50	0.50	1.00	2.00	400	49.45	0.20
	Prtipal singh Rawraja		,799,798	1.619, 1.724	SB45	220	3.50	0.50	1.00	2.00	440	49.45	0.22
	S.m.Pan,Rupkuvar ECT		1,038	0.344	PB 1	260	4.60	1.00	1.20	3.36	873.6	47.00	0.41

	Jagdees singh,Prtipal singh		675,678	0.142, 0.077	PB 2	250	4.60	1.00	1.20	3.36	840	47.00	0.39
	Bhujiya,S.m sheela		995,955	0.58,0.177	PB 3	200	4.60	1.00	1.20	3.36	672	47.00	0.32
	Parmar singh.tulsi		720,722	0.017, 0.79	PB4	200	4.60	1.00	1.20	3.36	672	47.00	0.32
	Bajuraja		802	1.724	PB 5	260	4.60	1.00	1.20	3.36	873.6	47.00	0.41
	Khilawan singh,Bhansingh		809,810	0.506, 1.011	PB6	240	4.60	1.00	1.20	3.36	806.4	47.00	0.38
				Pucca Work CD-1									6.98

Eatimate Lalitpur Bijraotha-II						Village -							
S. No.	Name of the beneficiary	Caste	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.)
	Pratap singh		18,131, 847	0.526,0.162	PB 1	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
	Hakka		1884	0.081	PB 2	150	4.60	1.00	1.20	3.36	504.00	47.50	0.24
	Veer singh Rajendra saine		18,591, 862	0.858,0.950	PB 3	160	4.60	1.00	1.20	3.36	537.60	47.50	0.26
	Hariram,Jagdeesh		1885	0.445	PB4	100	4.60	1.00	1.20	3.36	336.00	47.50	0.16
	Veer singh Kashiram		1815	0.138,0.079	PB 5	80	4.60	1.00	1.20	3.36	268.80	47.50	0.13
	Jaggu,Rajuwa		18,571, 858	4.654	PB6	160	4.60	1.00	1.20	3.36	537.60	47.50	0.26
	Phulchand		18,711, 857	0.181	PB 7	80	4.60	1.00	1.20	3.36	268.80	47.50	0.13
	Kamta,Brajlal		1871	0.543,0.890	PB 8	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
	Ghanshyam,Chandan		1872	0.324,0.809	PB9	160	4.60	1.00	1.20	3.36	537.60	47.50	0.26
	Bhaiean		1717	1.222	PB 10	120	4.60	1.00	1.20	3.36	403.20	47.50	0.19

	Kamla,Narayan		1857	4.654	PB 11	40	4.60	1.00	1.20	3.36	134.40	47.50	0.06
	Kamta,Brajlal		1870	0.543	PB 12	50	4.60	1.00	1.20	3.36	168.00	47.50	0.08
	Devki,Brajlal		1872	0.890,0.324	PB 13	40	4.60	1.00	1.20	3.36	134.40	47.50	0.06
	Krapal,Harcharan		1896	0.600,0.667	PB14	60	4.60	1.00	1.20	3.36	201.60	47.50	0.10
	Umesh,Kamta		1905	0.506,0.810	PB15	80	4.60	1.00	1.20	3.36	268.80	47.50	0.13
	Nake singh		1894	2.93	PB 16	40	4.60	1.00	1.20	3.36	134.40	47.50	0.06
	Bhawani singh		18,811,882	0.995	PB 17	100	4.60	1.00	1.20	3.36	336.00	47.50	0.16
	Matab singh		17,721,778	0.210,0.235	PB 18	120	4.60	1.00	1.20	3.36	403.20	47.50	0.19
	Sarnam,Matab sing		17,811,791	0.186,1.098	PB19	100	4.60	1.00	1.20	3.36	336.00	47.50	0.16
	Lal singh,Ratan		17,961,813	0.567,0.567	PB20	60	4.60	1.00	1.20	3.36	201.60	47.50	0.10
	Veer singh		18,501,852	0.089,1.716	PB21	160	4.60	1.00	1.20	3.36	537.60	47.50	0.26
	Bharose		605,606	0.202,0.304	PB22	60	4.60	1.00	1.20	3.36	201.60	47.50	0.10
	Rajesh,Gulab singh		607,610	3.220,0.202	PB23	60	4.60	1.00	1.20	3.36	201.60	47.50	0.10
	Kesar bai,Chandan singh		18,201,822	0.146,0.437	PB24	60	4.60	1.00	1.20	3.36	201.60	47.50	0.10
	Karan singh		32,303,216	0.134,0.146	PB25	100	4.60	1.00	1.20	3.36	336.00	47.50	0.16
	Ramdayal		32,833,284	0.144	PB26	100	4.60	1.00	1.20	3.36	336.00	47.50	0.16
	Shivcharan singh,Lal singh		35,683,537	0.190,0.300	PB27	240	4.60	1.00	1.20	3.36	806.40	47.50	0.38
	Shayamlal,Karan singh		35,043,505	0.384,0.218	PB28	150	4.60	1.00	1.20	3.36	504.00	47.50	0.24
	Bhaiyalal<devendra singh		34,903,492	0.283,0.142	PB29	120	4.60	1.00	1.20	3.36	403.20	47.50	0.19

	Vijay singh Dayaram		33,443,381	0.085,0.462	PB30	120	4.60	1.00	1.20	3.36	403.20	47.50	0.19
	Jagdesh singh		3335	0.453	PB31	80	4.60	1.00	1.20	3.36	268.80	47.50	0.13
	Mewalal,Bhanupratap singh		32,463,248	0.493,0.198	PB32	120	4.60	1.00	1.20	3.36	403.20	47.50	0.19
	Ratiram,Karan singh		35,633,564	0.130,0.630	PB33	100	4.60	1.00	1.20	3.36	336.00	47.50	0.16
	Gulab singh<govindra singh		1672	0.769,0.769	PB34	140	4.60	1.00	1.20	3.36	470.40	47.50	0.22
	Matab singh,		17,911,790	1.011,0.065	SB1	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20
	Rajuwa ,Jaggu		18,571,858	4.654,0.906	SB2	260	3.50	0.50	1.00	2.00	520.00	49.50	0.26
	Jageshawar <Bansilal		18,551,843	0.644,0.607	SB3	150	3.50	0.50	1.00	2.00	300.00	49.50	0.15
	Balwan singh,Chhotelal		18,331,035	0.470,0.409	SB4	400	3.50	0.50	1.00	2.00	800.00	49.50	0.40
	Jaggu ,Rajuwa		18,571,848	4.654	SB5	120	3.50	0.50	1.00	2.00	240.00	49.50	0.12
	Nek singh		18,941,892	0.158	SB6	400	3.50	0.50	1.00	2.00	800.00	49.50	0.40
	Ram singh		19,951,994	0.449	SB7	150	3.50	0.50	1.00	2.00	300.00	49.50	0.15
	Matab singh,		1770	2.14	SB8	120	3.50	0.50	1.00	2.00	240.00	49.50	0.12
	Chandan singh,omprakash		1803	0.113,0.142	SB9	150	3.50	0.50	1.00	2.00	300.00	49.50	0.15
	Kuber raj,Bhawani singh		609,597	1.824,0.218	SB10	140	3.50	0.50	1.00	2.00	280.00	49.50	0.14
	Mulayam,Shanti		592,595	0.393,2-055	SB11	200	3.50	0.50	1.00	2.00	400.00	49.50	0.20
	Aasharam		594	1.267,0.636	SB12	40	3.50	0.50	1.00	2.00	80.00	49.50	0.04

	Aasharam,Mulayam singh		31,623,163	0.207	SB13	120	3.50	0.50	1.00	2.00	240.00	49.50	0.12
	Shanti bai,Aasharam		31,613,195	0.565,0.295	SB14	150	3.50	0.50	1.00	2.00	300.00	49.50	0.15
	Mewalal		3250	1.295,1.295	SB15	60	3.50	0.50	1.00	2.00	120.00	49.50	0.06
	Aasharam,Jagdeesh		36,423,630	0.445,0.275	SB16	250	3.50	0.50	1.00	2.00	500.00	49.50	0.25
	Shiwraj ,Jagdeesh		35,523,555	0.152,0.152	SB17	220	3.50	0.50	1.00	2.00	440.00	49.50	0.22
	Sakolal		36,203,625	0.154,0.465	SB18	310	3.50	0.50	1.00	2.00	620.00	49.50	0.31
	LalaramSiyaram		34,453,440	0.008,0.271	SB19	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30
	Devendra singh,Sm Sariya		34,383,470	1.319,0.945	SB20	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30
	Khusilal,Chaina		34,373,426	0.316,0.339	SB21	300	3.50	0.50	1.00	2.00	600.00	49.50	0.30
	Aandilal		3313	0.506,2.169	SB22	100	3.50	0.50	1.00	2.00	200.00	49.50	0.10
	Laxman singh,Chandan singh		34,173,423	0.892,0.567	SB23	400	3.50	0.50	1.00	2.00	800.00	49.50	0.40
	Ramsewak,Mohan		37,753,776	0.057	SB24	120	3.50	0.50	1.00	2.00	240.00	49.50	0.12
	Tulsidash		3926	0.126	SB25	160	3.50	0.50	1.00	2.00	320.00	49.50	0.16
	Matab singh,Ajab singh		1775	0.081	CD1	100	9.08	1.80	1.82	9.9	990.00	53.2	0.53
	Tulsi Ram singh,Dilla		34,043,492	0.166,0.142	CD2	100	8.60	1.80	1.70	8.84	884.00	53.2	0.47
	Karan singh,Ramsingh		33,973,395	0.526,0.308	CD3	100	8.76	1.80	1.74	9.18	918.00	53.2	0.49
	Manoharlal,Nanhe singh		33,813,398	0.809,0.182	CD4	80	8.40	1.80	1.65	8.41	672.80	53.2	0.36

	Dayaram ,ramdayal		33,433,360	0.218,0.413	CD5	100	9.08	1.80	1.82	9.9	990.00	53.2	0.53
	Dayaram ,Vijay singh		33,443,355	2.023,0.885	CD6	80	8.60	1.80	1.70	8.84	707.20	53.2	0.38
	Mulayam singh,Aasharam		6,151,818	2.934,0.769	CD7	120	8.48	1.80	1.67	8.58	1029.60	53.2	0.55
	Gulab singh,Hariram		613,614	1.060,1.469	CD8	80	8.40	1.80	1.65	8.41	672.80	53.2	0.36
	Gulab singh,Govindra sinngh		1882	0.172,0.142	CD9	30	6.30	1.50	1.60	6.24	187.20	53.2	0.10
	Sallu		1998	1.135	CD10	20	8.30	1.50	1.70	8.33	166.60	53.2	0.09
	Prakash,Parma		3782	0.720,0.392	CD11	50	8.40	1.80	1.65	8.41	420.50	53.2	0.22
	Parama		3780	1.659	CD12	40	7.90	1.50	1.60	7.52	300.80	53.2	0.16
	Ajab singh,Gulab singh		1671	0.684,0.547	CD13	40	7.90	1.50	1.60	7.52	300.80	53.2	0.16
	Manohar,Raghuraj singh		1638	0.866,	CD14	30	6.30	1.50	1.60	6.24	187.20	53.2	0.10
	Kartar singh		1848	0.628	GP1	100	9.0	1.80	1.80	9.72	972.00	53.2	0.52
	Beer singh		1815	0.138	GP2	50	8.20	1.80	1.60	8.00	400.00	53.2	0.21
	Khalka		1884	0.081	GP3	30	8.40	1.80	1.65	8.41	252.30	53.2	0.13
	SM Rati bai,Bhagwat		1862	0.906	GP4	30	8.40	1.80	1.63	8.40	252.00	53.2	0.13
	Ram singh		1861	0.535	GP5	40	8.20	1.80	1.60	8.00	320.00	53.2	0.17
	Balwan,Santosh		1862	2.015	GP6	30	8.40	1.80	1.61	8.40	252.00	53.2	0.13
	Balwan,singh ,Motilal		1873	1.287	GP7	40	8.20	1.80	1.59	8.00	320.00	53.2	0.17
	Ganpat,Hariram		1884	4.573,0.443	GP8	30	8.20	1.80	1.60	8.00	240.00	53.2	0.13
	Naek singh		1882	4.65	GP9	40	8.20	1.80	1.60	8.00	320.00	53.2	0.17
	Balwan singh		1873	1.287	GP10	20	8.70	1.50	1.80	9.180	183.60	53.2	0.10

	Aasharam		1995	0.125	GP11	25	8.30	1.50	1.70	8.33	208.25	53.2	0.11
	Umesh singh,Kamta		1905	0.506,0.810	GP12	20	8.04	1.50	1.70	8.33	166.60	53.2	0.09
	Kamta		1870	0.543	GP13	30	7.90	1.50	1.60	7.52	225.60	53.2	0.12
	Jugla,Janki		3419	0.486	GP14	50	8.60	1.80	1.70	8.84	442.00	53.2	0.24
	SM beera ,Jayram		3385	1,558,0.779	GP15	100	8.68	1.80	1.72	9.01	901.00	53.2	0.48
	Nathuram,Keshar bai		3266		GP16	80	8.80	1.80	1.75	9.27	741.60	53.2	0.39
	Man singh,Awatar		17,001,720	0.206,0.076	WHB1	160	9.50	2.93	12.24	12.24	1958.40	56.2	1.10
	Ramsingh,Kanna		31,953,196	0.889,1.214	WHB2	220	9.50	2.00	2.05	11.78	2591.60	56.2	1.46
	Ankesh,Panki bai		25,222,524	3.157	WHB3	250	9.50	2.00	1.90	10.92	2730.00	56.2	1.53
	Keshar bai,Chhoti bahu		33,543,331	0.829	WHB4	160	9.20	1.80	1.85	1.17	187.20	56.2	0.11
	Ramsingh,Kanna		33,833,384	0.255	WHB5	200	10.00	1.80	1.75	10.32	2064.00	56.2	1.16
	Keshar bai		33,923,310	0.036	WHB6	160	9.00	1.80	1.80	9.72	1555.20	56.2	0.87
	Bhaiyalal		34,123,409	0.243	WHB7	200	10.50	1.80	2.10	12.90	2580.00	56.2	1.45
	Sripat,Dilla		37,813,772	1.00,1.68	WHB8	200	9.60	1.80	1.90	10.83	2166.00	56.2	1.22
	Shanti bai,Amar singh		37,673,766	0.555,0.555	WHB9	160	9.20	1.80	1.70	9.35	1496.00	56.2	0.84
	Chamanlal		3,758	0.328	WHB10	140	9.40	1.80	1.85	10.36	1450.40	56.2	0.82
					Pucca Work CD								4.99

Eatimate Lalitpur Gulenda					Village -							
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.)
Lalon												
Prwati		22,23	0.368	PB13	270	4.60	1.00	1.20	3.36	907.20	47.50	0.43
Prwati		22,23,31	0.368	PB14	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40
Mayaram		48,47,49	0.765	PB15	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40
Bhaiyalal		116	0.809	PB16	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Ashok		6,7	0.324	PB17	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Aashram		7,16	0.174	PB18	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Kissu		18,20	1.259	PB19	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Desraj		12,5,8	1.161	PB20	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Sukhlal		77,91	0.308	PB21	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Beerendra singh,Harendra		87,99	0.162	PB22	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40
Devendra singh,Kranpal singh		57,58	0.654	PB23	280	4.60	1.00	1.20	3.36	940.80	47.50	0.45
Patthar		226,222	3.234, 0.388	PB24	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Hariram,Marduwa		212,211	0.607, 0.672	PB25	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40
Sakulal,Munnalal		17,16	1.416, 1.821	SB15	200	3.50	0.50	1.00	2.00	400.00	49.47	0.20
Jagbhan singh		15,16	1.376	SB16	200	3.50	0.50	1.00	2.00	400.00	49.47	0.20
Ashok kumar		2,1	1.416	SB17	250	3.50	0.50	1.00	2.00	500.00	49.47	0.25
Chandrabhan,Lakhan		29,26	2.889, 0.567	SB22	300	3.50	0.50	1.00	2.00	600.00	49.47	0.30
Lakhan,ramsingh		31,30	2.189	SB23	200	3.50	0.50	1.00	2.00	400.00	49.47	0.20

Laxman		42,41	0.882	SB24	250	3.50	0.50	1.00	2.00	500.00	49.47	0.25
Arjna,devki		49	1.214, 0.817	SB25	250	3.50	0.50	1.00	2.00	500.00	49.47	0.25
Harprasad.kamli		69,70	0.389, 0.202	SB26	200	3.50	0.50	1.00	2.00	400.00	49.47	0.20
Bindu,Harprasad		63,67	0.405, 0.809	SB27	350	3.50	0.50	1.00	2.00	700.00	49.47	0.35
Surendra singh		113,114	0.239, 0.113	SB28	200	3.50	0.50	1.00	2.00	400.00	49.47	0.20
Ashok ,bhalla		104,106	0.324, 0.202	SB29	300	3.50	0.50	1.00	2.00	600.00	49.47	0.30
Sri ram,kamli		186	0.696,	SB30	200	3.50	0.50	1.00	2.00	400.00	49.47	0.20
Beerendrasingh Harendra singh		195	0.729,	SB31	300	3.50	0.50	1.00	2.00	600.00	49.47	0.30
Rajuwa		199,198	0.388, 0.368	SB32	200	3.50	0.50	1.00	2.00	400.00	49.47	0.20
Sukhnandan,Laxman		144,158	0.287, 0.089	SB33	300	3.50	0.50	1.00	2.00	600.00	49.47	0.30
Bhaiyalal,Laxman		260,251	0.079, 0.024	SB34	200	3.50	0.50	1.00	2.00	400.00	49.47	0.20
Beersingh,Hardar		275,513	0.146, 0.057	SB35	350	3.50	0.50	1.00	2.00	700.00	49.47	0.35
Guman,		525,529	0.061	SB36	250	3.50	0.50	1.00	2.00	500.00	49.47	0.25
Ramsakhi,Lachku		548,550	0.243, 0.077	SB37	350	3.50	0.50	1.00	2.00	700.00	49.47	0.35
Ramla,		555	0.13	SB38	280	3.50	0.50	1.00	2.00	560.00	49.47	0.28
Lakhan singh,jagbhan singh		350,401	0.073, 0.073	SB39	300	3.50	0.50	1.00	2.00	600.00	49.47	0.30
Lakhan singh,Ramanand		405,428	0.020, 0.405	SB40	200	3.50	0.50	1.00	2.00	400.00	49.47	0.20
Jaybai,Ashok		319,42	0.040, 0.117	SB41	300	3.50	0.50	1.00	2.00	600.00	49.47	0.30

Dhan singh,		294	0.113	SB42	300	3.50	0.50	1.00	2.00	600.00	49.47	0.30
Prayrelal,Jagbhan		462,430	0.324, 0.340	SB43	250	3.50	0.50	1.00	2.00	500.00	49.47	0.25
Gayasiya		135,130	0.121	SB44	200	3.50	0.50	1.00	2.00	400.00	49.47	0.20
Brandwan,Harendra singh		181,195	0.482, 0.729	WHB5	280	8.76	1.80	1.74	9.18	2570.40	56.4	1.45
Rajendra singh,Sukhlal		43,210	2.351, 0.405	WHB6	230	8.32	1.80	1.63	9.71	2233.30	56.4	1.26
Ashok,Brandawan		183,170	0.416	GP4	80	8.72	1.80	1.73	9.09	727.20	53.2	0.39
Phunda,Hariram		209,211	0.583	GP5	80	9.0	1.80	1.80	9.72	777.60	53.2	0.41
Rawraja,Beerendra singh		193,195	0.416	GP6	80	8.72	1.80	1.73	9.09	727.20	53.2	0.39
Lakhan singh,Ramsingh		31	2.189	CD3	170	9.03	1.75	1.82	9.80	1666.00	53.2	0.89
Marjuwa,Salimkha		46	0.482	CD4	170	9.23	1.75	1.87	10.26	1744.20	53.2	0.93
Kapuri,Kamli		70	0.202	CD5	160	8.62	1.70	1.73	8.92	1427.20	53.2	0.76
Halkuwa,Mathuwa		5,3	1.416	CD6	150	8.43	1.75	1.67	8.50	1275.00	53.2	0.68
Gulenda												
		583,584		PB1	280	4.60	1.00	1.20	3.36	940.80	47.50	0.45
		649		PB2	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40
		636		PB3	260	4.60	1.00	1.20	3.36	873.60	47.50	0.41
		635		PB4	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40
		633		PB5	240	4.60	1.00	1.20	3.36	806.40	47.50	0.38
		630		PB6	260	4.60	1.00	1.20	3.36	873.60	47.50	0.41

		365		PB7	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40
Ramprasad		165	0.348	PB8	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Sm Manbai		535	0.19	PB9	400	4.60	1.00	1.20	3.36	1344.00	47.50	0.64
Surbhan singh		718	2.246	PB10	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40
Surbhan singh		765	0.383	PB11	200	4.60	1.00	1.20	3.36	672.00	47.50	0.32
Beersingh		767	0.235	PB12	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40
Magilal		268	0.364	SB1	200	3.50	0.50	1.00	2.00	400.00	49.47	0.20
Dhan singh		290	0.053	SB2	200	3.50	0.50	1.00	2.00	400.00	49.47	0.20
Bhaiyalal		251,231	0.405	SB3	200	3.50	0.50	1.00	2.00	400.00	49.47	0.20
Dabla,Bachchu		244,255	0.93	SB4	320	3.50	0.50	1.00	2.00	640.00	49.47	0.32
Hariram		211	0.66	SB5	250	3.50	0.50	1.00	2.00	500.00	49.47	0.25
Sukhlal,Hardhar		187,221	0.185, 0.308	SB6	200	3.50	0.50	1.00	2.00	400.00	49.47	0.20
Shivraj singh		189	0.405	SB7	250	3.50	0.50	1.00	2.00	500.00	49.47	0.25
Natthu singh		175	0.849	SB8	220	3.50	0.50	1.00	2.00	440.00	49.47	0.22
		482		SB9	250	3.50	0.50	1.00	2.00	500.00	49.47	0.25
Pratipal singh		476,473	0.304	SB10	220	3.50	0.50	1.00	2.00	440.00	49.47	0.22
Komal,Panna,Badi bahu		501	0.405	SB11	200	3.50	0.50	1.00	2.00	400.00	49.47	0.20
SM Man bai		534	0.607	SB12	275	3.50	0.50	1.00	2.00	550.00	49.47	0.27
Babu,Jugga		742,748	0.202, 1.894	SB13	250	3.50	0.50	1.00	2.00	500.00	49.47	0.25
Pamma,Guddi		740	0.721	SB14	300	3.50	0.50	1.00	2.00	600.00	49.47	0.30
Lalsingh,Surbhansingh		743	2.246, 1.821	SB18	300	3.50	0.50	1.00	2.00	600.00	49.47	0.30
Jayram singh,		718	0.304	SB19	200	3.50	0.50	1.00	2.00	400.00	49.47	0.20
Beer singh,Baejuraja		757	0.421	SB20	300	3.50	0.50	1.00	2.00	600.00	49.47	0.30

Beer singh,Baejuraja		763	1.481	SB21	220	3.50	0.50	1.00	2.00	440.00	49.47	0.22
Jayram singh,Beer singh		576	0.405	CD1	150	9.04	1.80	1.81	9.81	1471.50	53.2	0.78
Komal singh,Chandan singh		200,201	0.405	CD2	140	8.79	1.75	1.76	9.22	1290.80	53.2	0.69
SM Manbai,Gyan bai		535	0.19	GP1	40	8.60	1.80	1.70	9.04	361.60	53.2	0.19
Krasnpal singh		716	0.405	GP2	40	8.40	1.80	1.65	8.41	336.40	53.2	0.18
Surbhan singh		718	2.246	GP3	40	8.52	1.80	1.60	8.25	330.00	53.2	0.18
Ramprsad,Roop singh		168	0.074	WHB1	200	8.68	1.80	1.72	9.01	1802.00	56.4	1.02
Ramprsad,Nandu		165	0.072	WHB2	200	8.56	1.80	1.69	8.75	1750.00	56.4	0.99
Surbhan singh		718	2.246	WHB3	250	8.40	1.80	1.65	8.41	2102.50	56.4	1.19
Kisanpal singh,Sm Baju raja		716,717	0.749, 0.412	WHB4	200	8.20	1.80	1.60	8.0	1600.00	56.4	0.90
BhwarKali												
				GP10	40	8.60	1.80	1.70	9.04	361.60	53.2	0.19
				GP-11	40	8.60	1.80	1.70	9.04	361.60	53.2	0.19
				CD16	150	9.04	1.80	1.81	9.81	1471.50	53.2	0.78
				CD17	140	8.79	1.75	1.76	9.22	1290.80	53.2	0.69
				CD18	150	9.04	1.80	1.81	9.81	1471.50	53.2	0.78
				WHB-7	200	8.20	1.80	1.60	8.0	1600.00	56.4	0.90
				WHB-8	200	8.20	1.80	1.60	8.0	1600.00	56.4	0.90

				SB-45	300	3.50	0.50	1.00	2.00	600.00	49.47	0.30
				SB-46	300	3.50	0.50	1.00	2.00	600.00	49.47	0.30
				SB-47	200	3.50	0.50	1.00	2.00	400.00	49.47	0.20
				SB-48	300	3.50	0.50	1.00	2.00	600.00	49.47	0.30
				SB-49	220	3.50	0.50	1.00	2.00	440.00	49.47	0.22
				SB-50	220	3.50	0.50	1.00	2.00	440.00	49.47	0.22
				PB-26	280	4.60	1.00	1.20	3.36	940.80	47.50	0.45
				PB-27	250	4.60	1.00	1.20	3.36	840.00	47.50	0.40
				PB-28	260	4.60	1.00	1.20	3.36	873.60	47.50	0.41
				Pucca Wok CD								5.78

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,		
	Late- Laxmi-27, Padmini			

2. Sowing Time		Pusa New Delhi		
	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, Pusa New Delhi		
	Late-Bhawani			
2. Sowing Time				
	First Fortnight of September	**Rate(Rs/kg/ Pkt)**	**Cost per ha (Rs)**	**Demonstration Cost (Rs)**
3. Required Seed	4 kg / ha (F1,F2, Certified)	200	800	400.00
7. Use Weedicide	-	-	-	-
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	75	37.50
ii) Rhizobium + PSB	-	-	-	-
iii) Trichoderma	-	-	-	-
12. Recommended dose of fertilizers				
50:30:30 NPK				
i) DAP*	125 kg	15	1875	937.50
ii) SSP*	275 kg	8	2200	1100.00
iii) Urea	50 kg	6	300	150.00
iv) MOP	50 kg	7	350	175.00
* Either one	30 kg /ha Sulphur added if SSP used			
13. IPM				
Spray of Neem Seed Kernal	10	30	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			

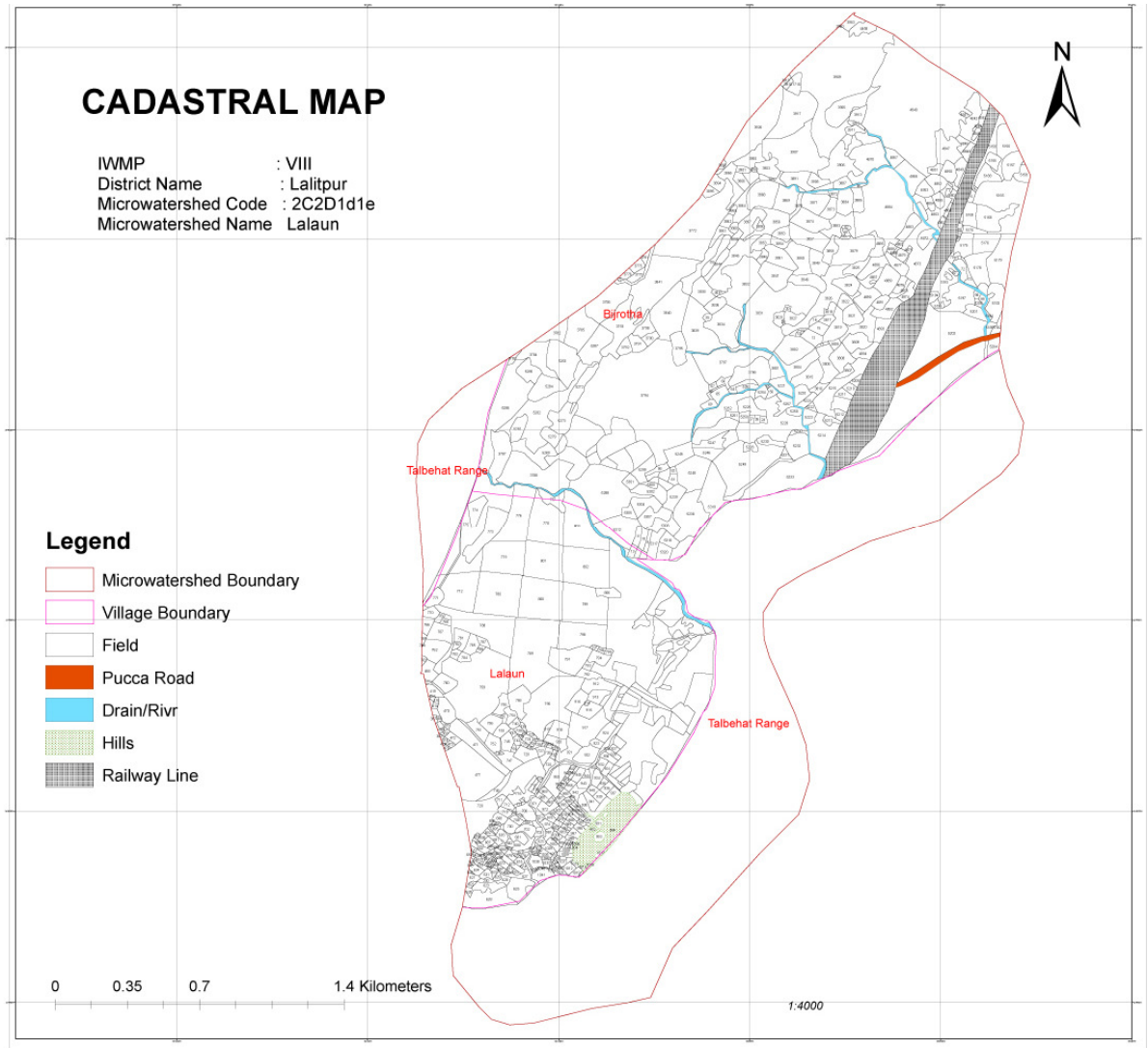
	25 kg / ha	25	625	312.50
	Total (Less SSP)			**1692.00**
Integrated Crop Management	**Wheat**			
Area of Demonstration - 0.50 ha				
Detail of Demonstration	**Intervention / Technology Adopted**	**Organisations for obtaining Seed**		
1. Name of Varieties	UP-2338,WH-542,PBW-343,502,550,K-9006,307	C. S. 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				

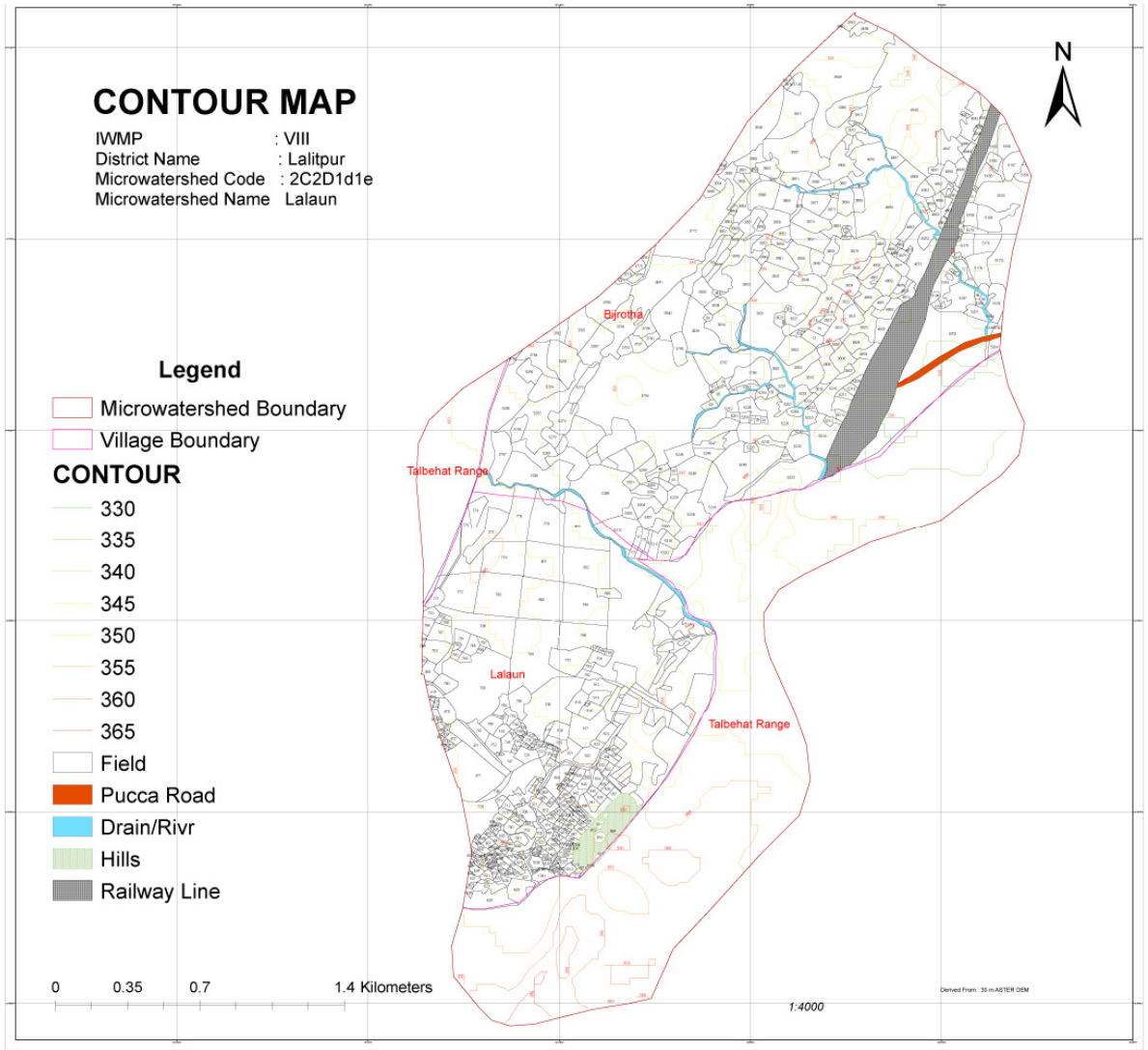
Detail of Demonstration	Intervention / Technology Adopted	Organisations for obtaining Seed		
1. Name of Varieties	Hyb. Duccan-103, 105, Sankul- Dhawal, Shakti-1, Popcorn-Amber, V.L. Amber, Perl popcorn	C. S. A. Unversity of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. 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**

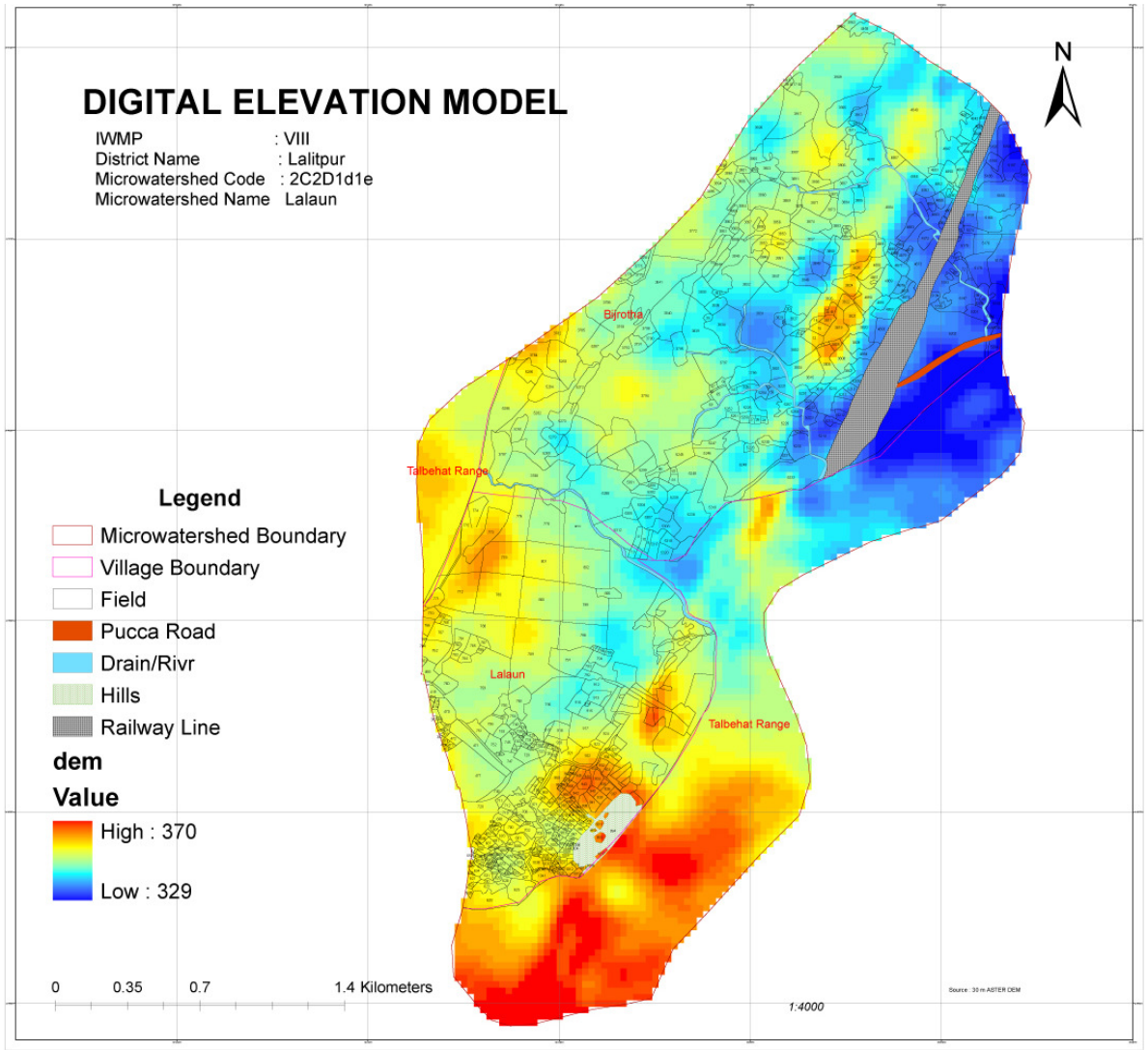
Integrated Crop Management	Maize			
Area of Demonstration - 0.50 ha				
Detail of Demonstration	**Intervention / Technology Adopted**	**Organisations for obtaining Seed**		
1. Name of Varieties	Hybrid- Ganga-11, Sartaj, Prakash, Pusa Hybrid Maize5, Composite-Prabhat, Navjyoti, Pusa Composite-2, Naveen	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**

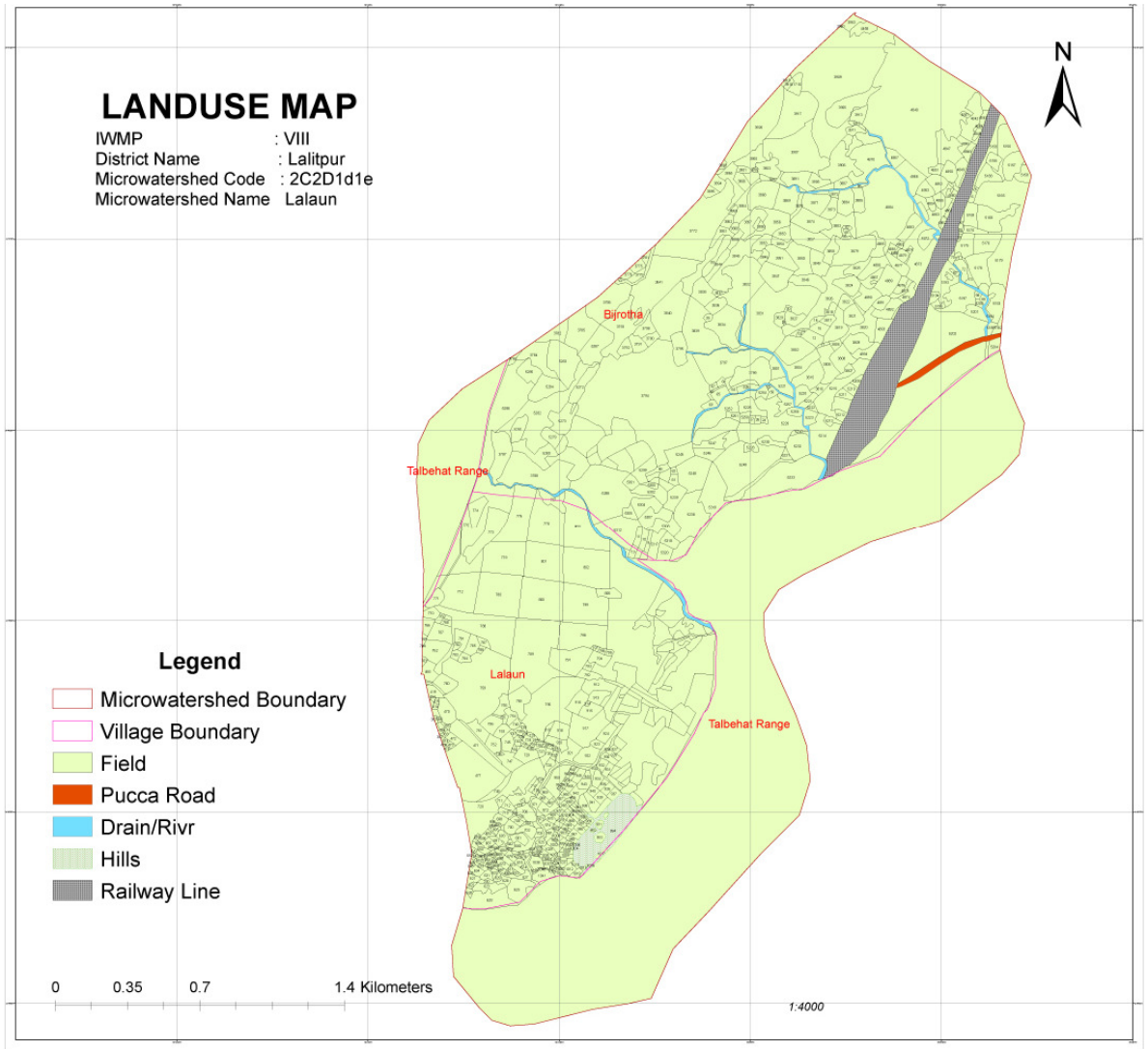
Integrated Crop Management	Sorghum			
Area of Demonstration - 0.50 ha				
Detail of Demonstration	**Intervention / Technology Adopted**	**Organisations for obtaining Seed**		
1. Name of Varieties	CSV-13, 15, 1616, Bundela. CSH-16	C. S. A. Unversity of Ag. & Technology, Kanpur, Indian Institute of Pulse 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**

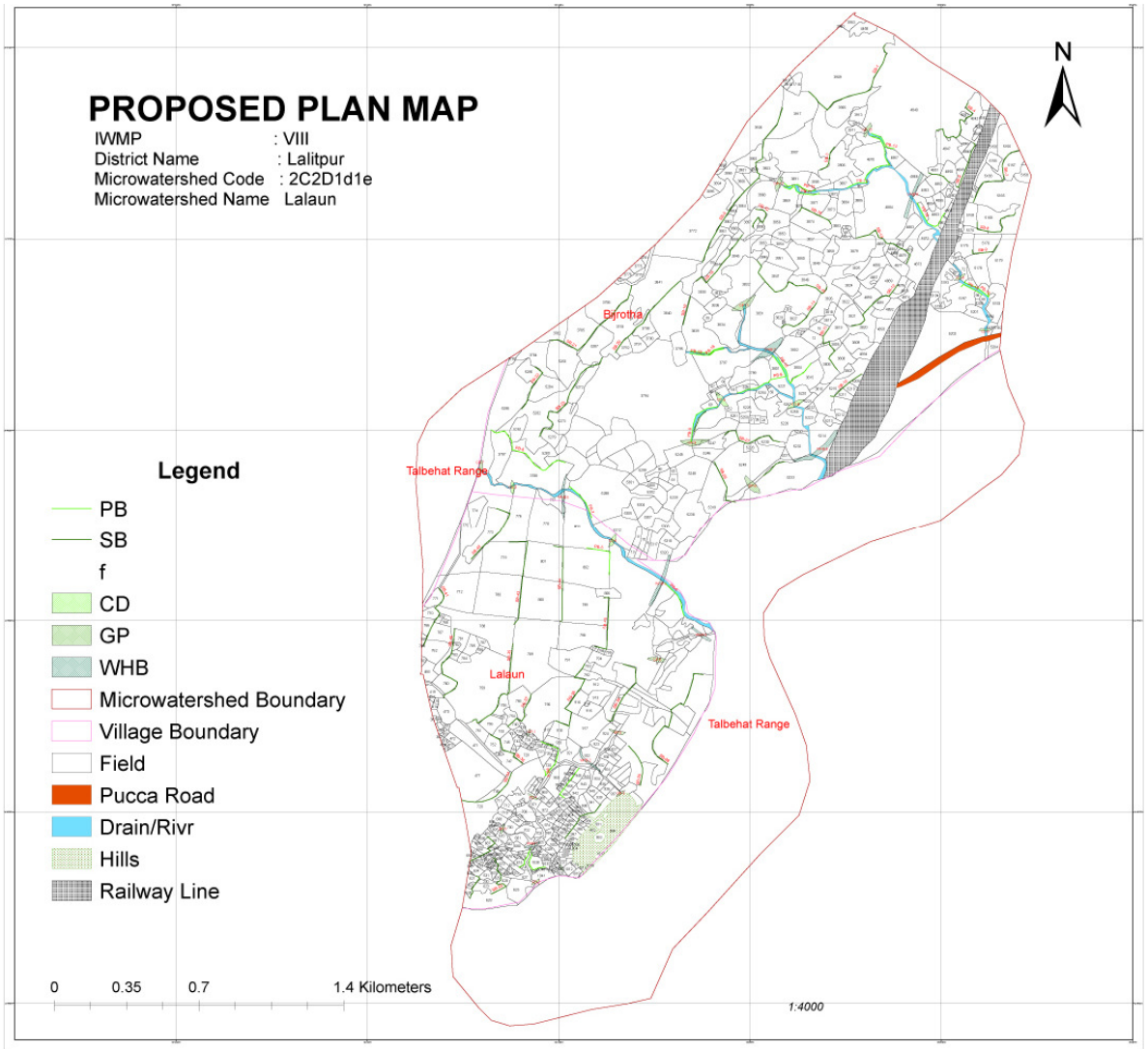
MAPS

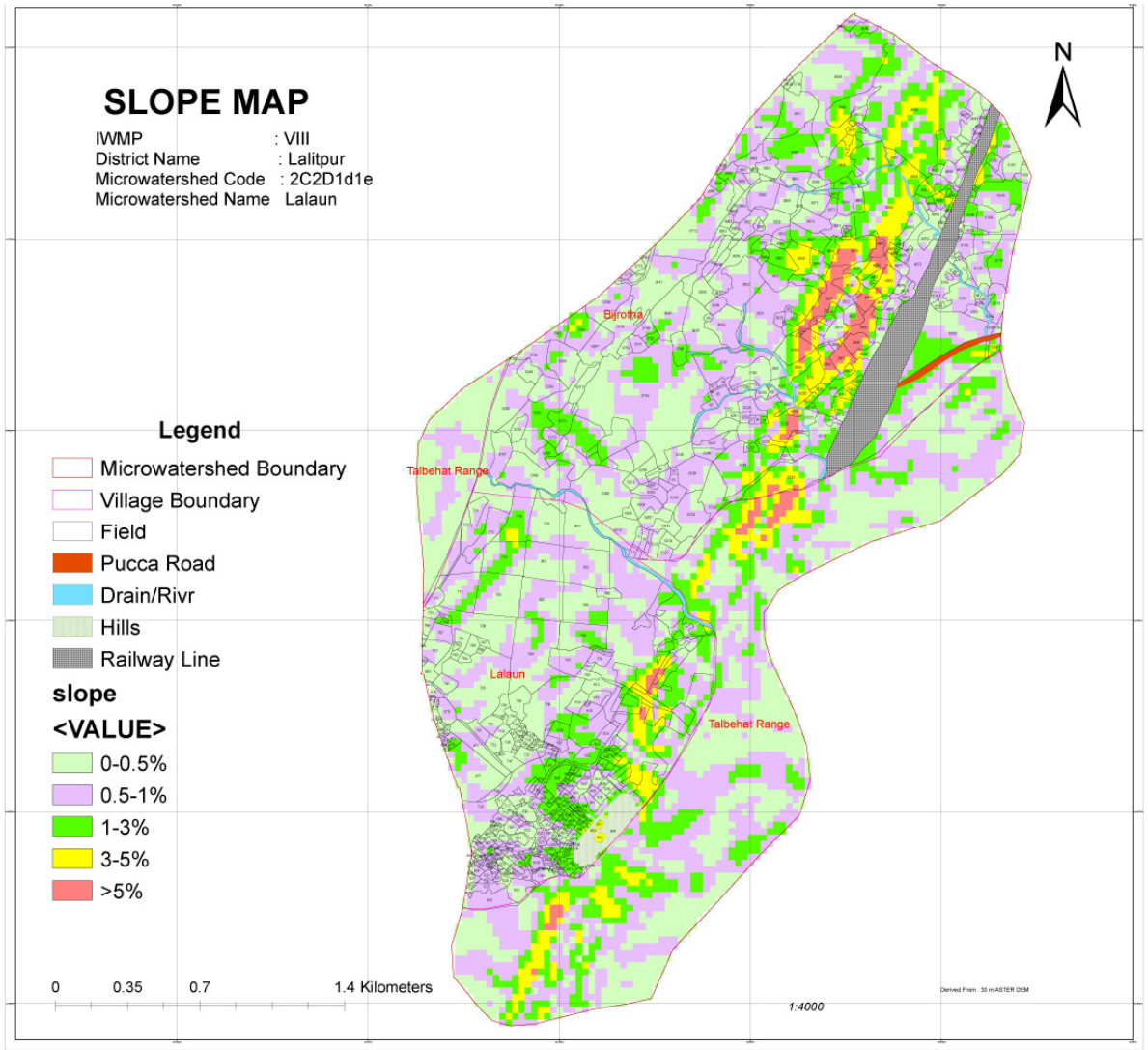

CADASTRAL MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D1d1e
Microwatershed Name Lalaun
N
Bijrotha
Talbehat Range
Lalaun
Talbehat Range
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Drain/Rivr
Hills
Railway Line
0 0.35 0.7 1.4 Kilometers
1:4000

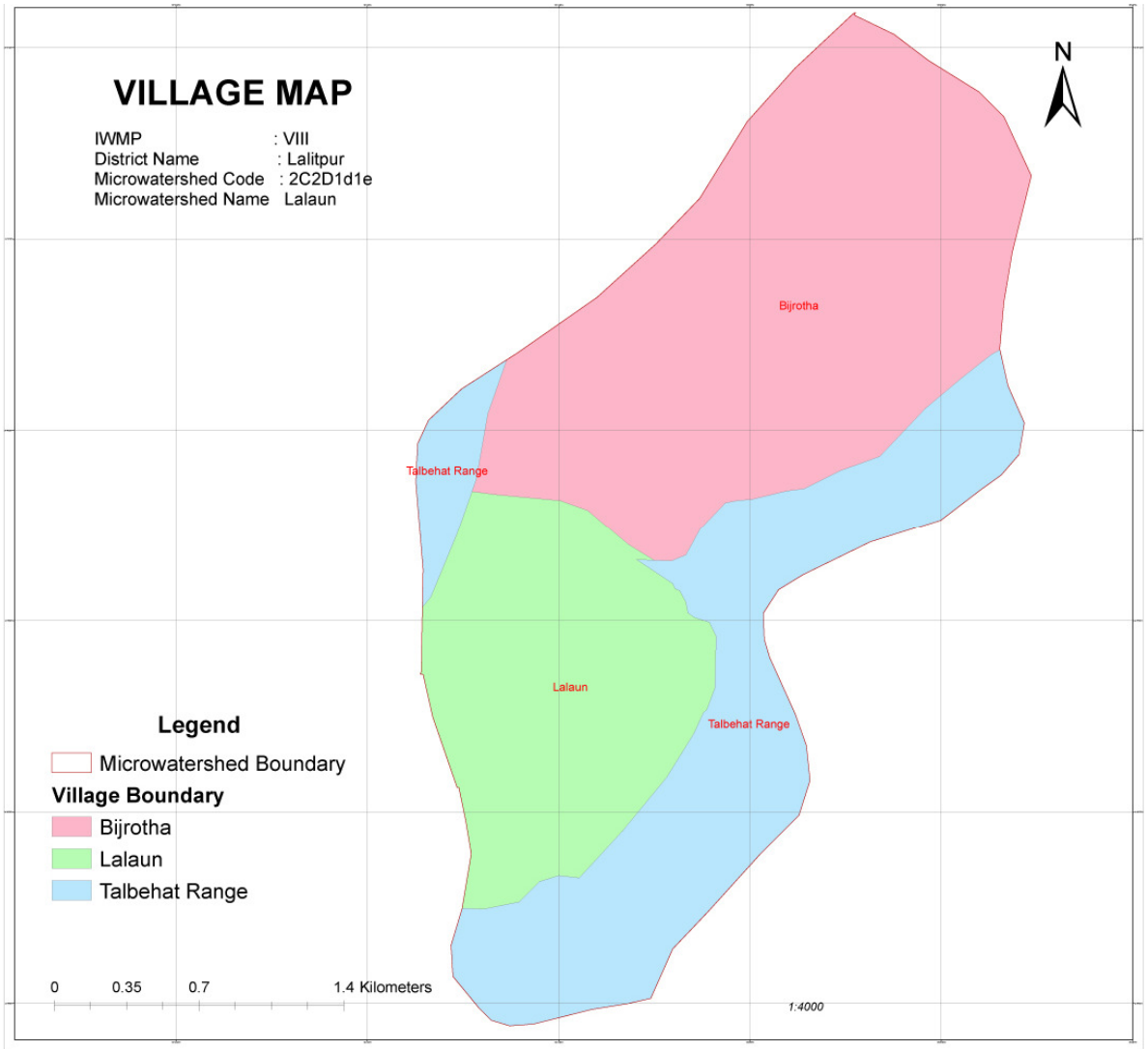

CONTOUR MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D1d1e
Microwatershed Name Lalaun
Legend
Microwatershed Boundary
Village Boundary
CONTOUR
330
335
340
345
350
355
360
365
Field
Pucca Road
Drain/Rivr
Hills
Railway Line
N
Bijrotha
Talbehat Range
Lalaun
Talbehat Range
0 0.35 0.7 1.4 Kilometers
1:4000
Derived From : 30 m ASTER DEM

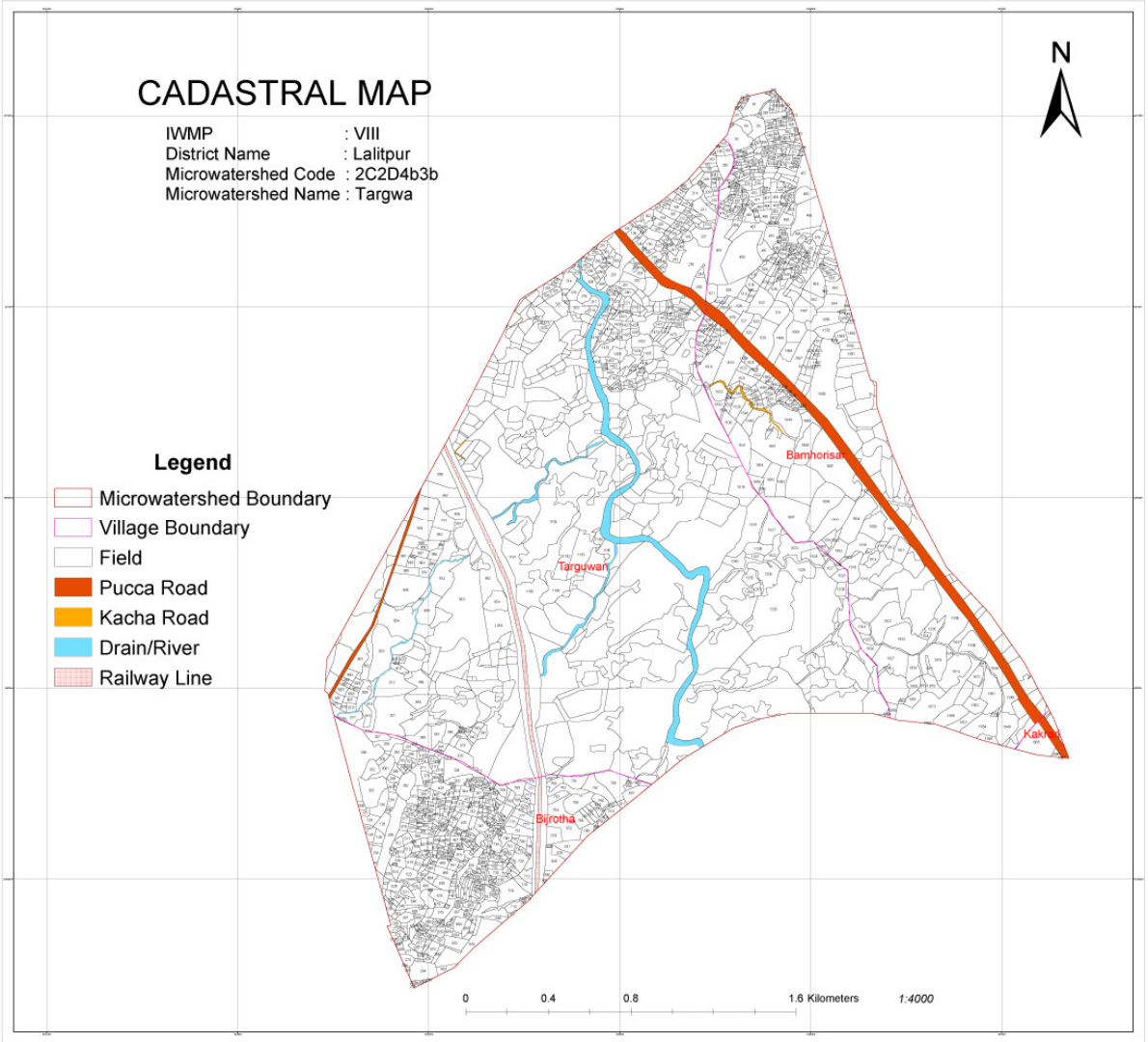

DIGITAL ELEVATION MODEL
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D1d1e
Microwatershed Name Lalaun
N
Bijrothra
Talbehat Range
Lalaun
Talbehat Range
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Drain/Rivr
Hills
Railway Line
dem
Value
High : 370
Low : 329
0 0.35 0.7 1.4 Kilometers
1:4000

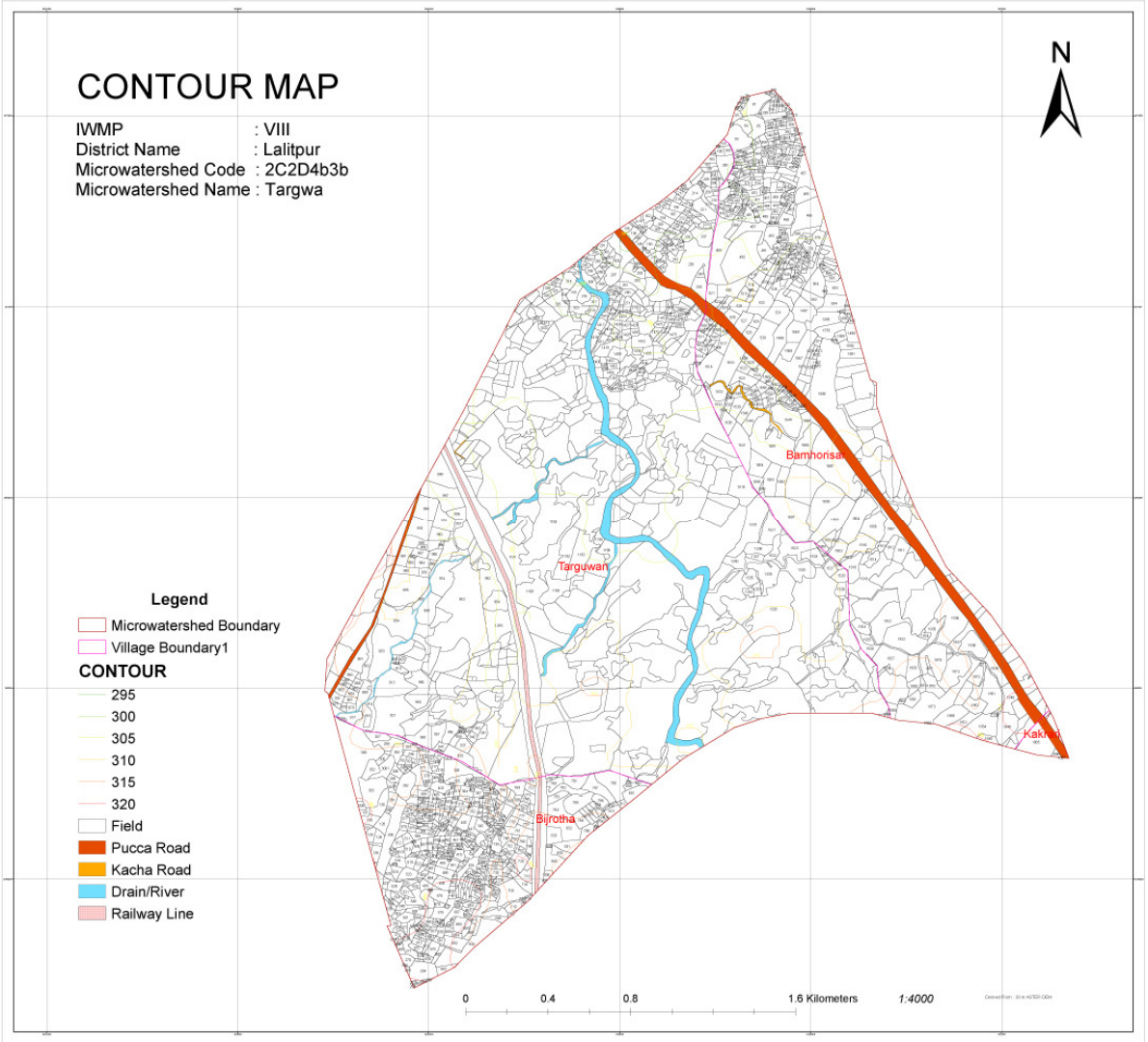

LANDUSE MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D1d1e
Microwatershed Name Lalaun
N
Bijrotha
Talbehat Range
Lalaun
Talbehat Range
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Drain/Rivr
Hills
Railway Line
0 0.35 0.7 1.4 Kilometers
1:4000

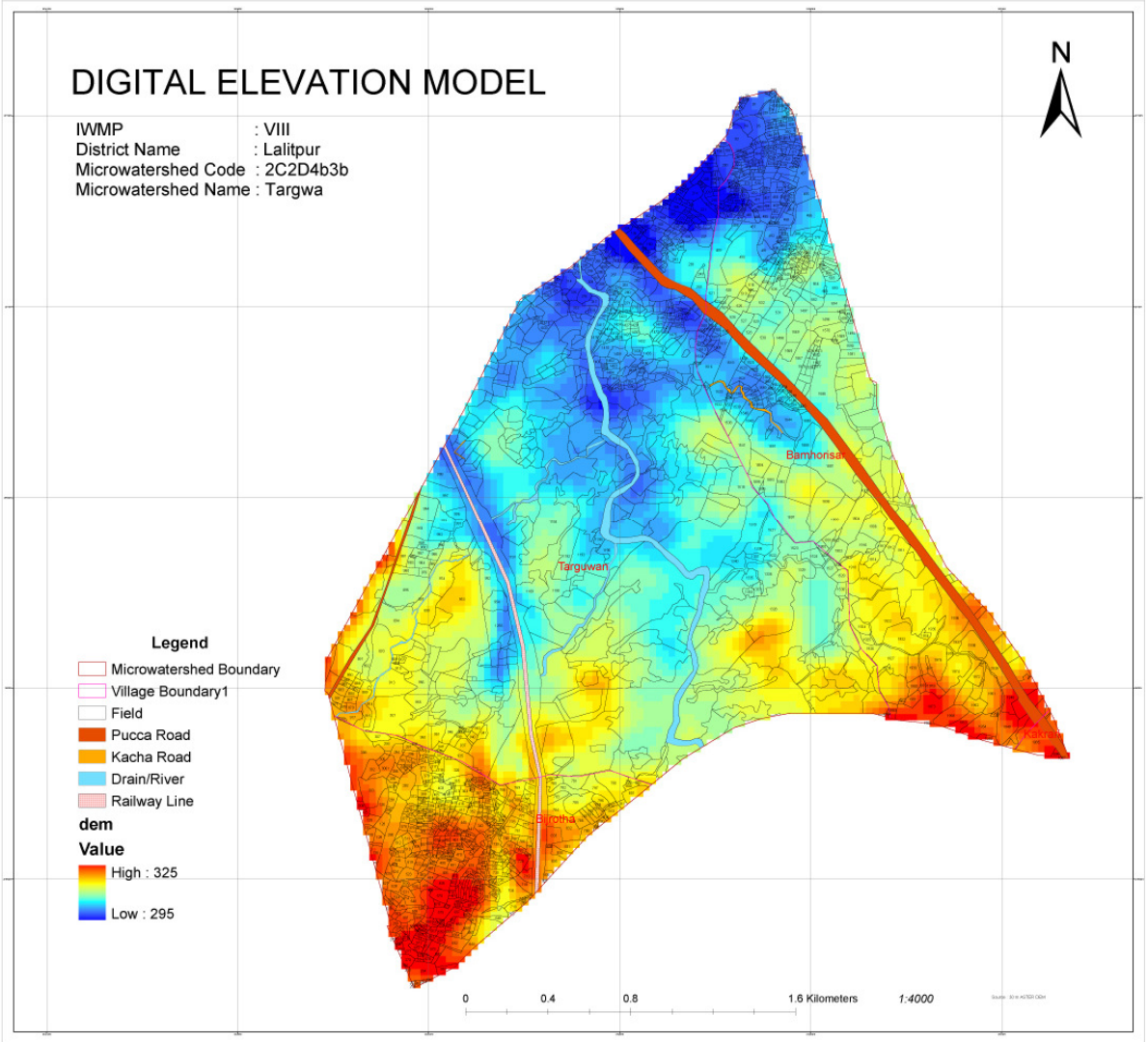

PROPOSED PLAN MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D1d1e
Microwatershed Name Lalaun
N
Legend
PB
SB
f
CD
GP
WHB
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Drain/Rivr
Hills
Railway Line
Bijrotha
Talbehat Range
Lalaun
Talbehat Range
0 0.35 0.7 1.4 Kilometers
1:4000

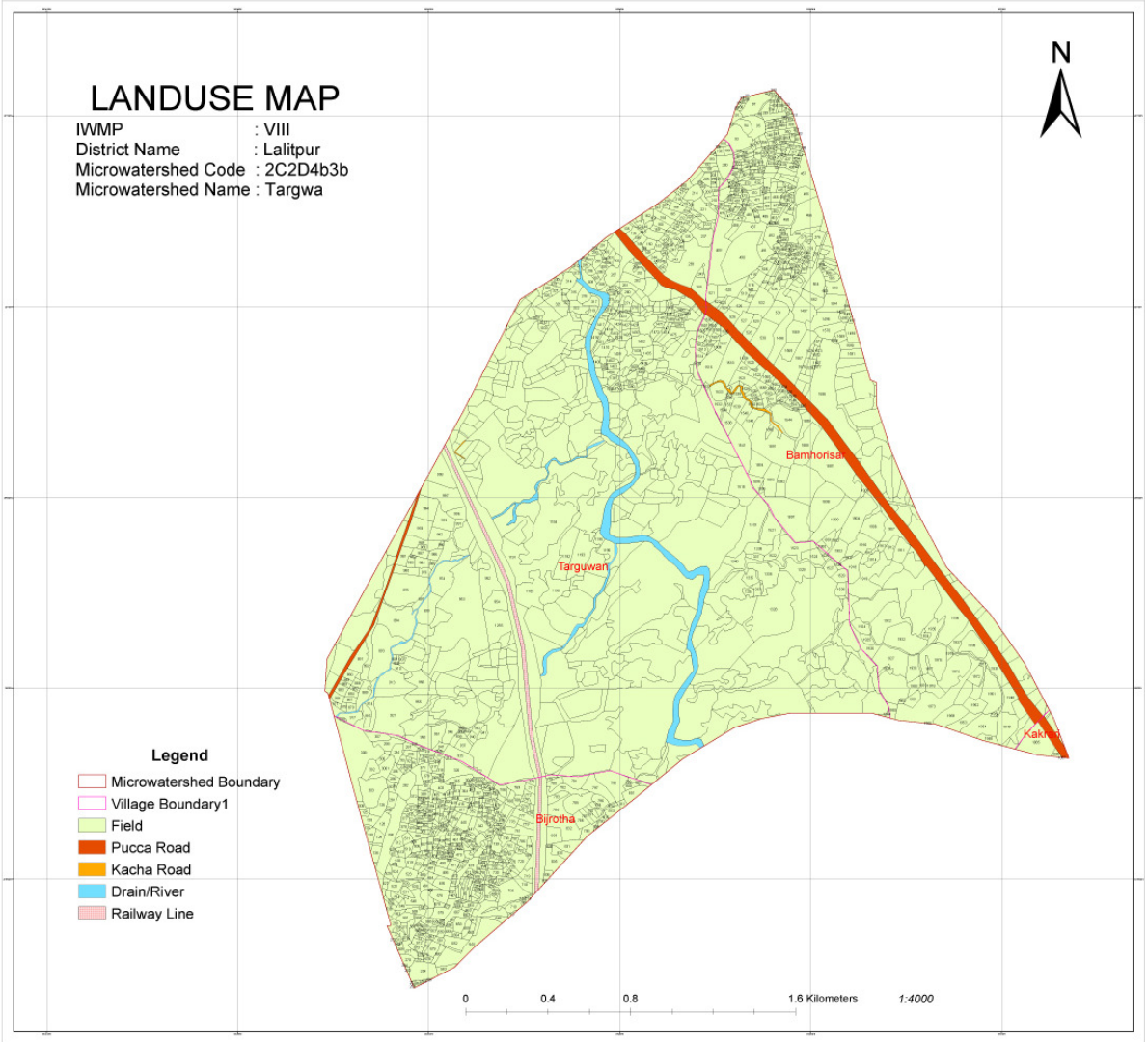

SLOPE MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D1d1e
Microwatershed Name Lalaun
N
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Drain/Rivr
Hills
Railway Line
slope
<VALUE>
0-0.5%
0.5-1%
1-3%
3-5%
>5%
Bijrothra
Talbehat Range
Lalaun
Talbehat Range
0 0.35 0.7 1.4 Kilometers
1:4000

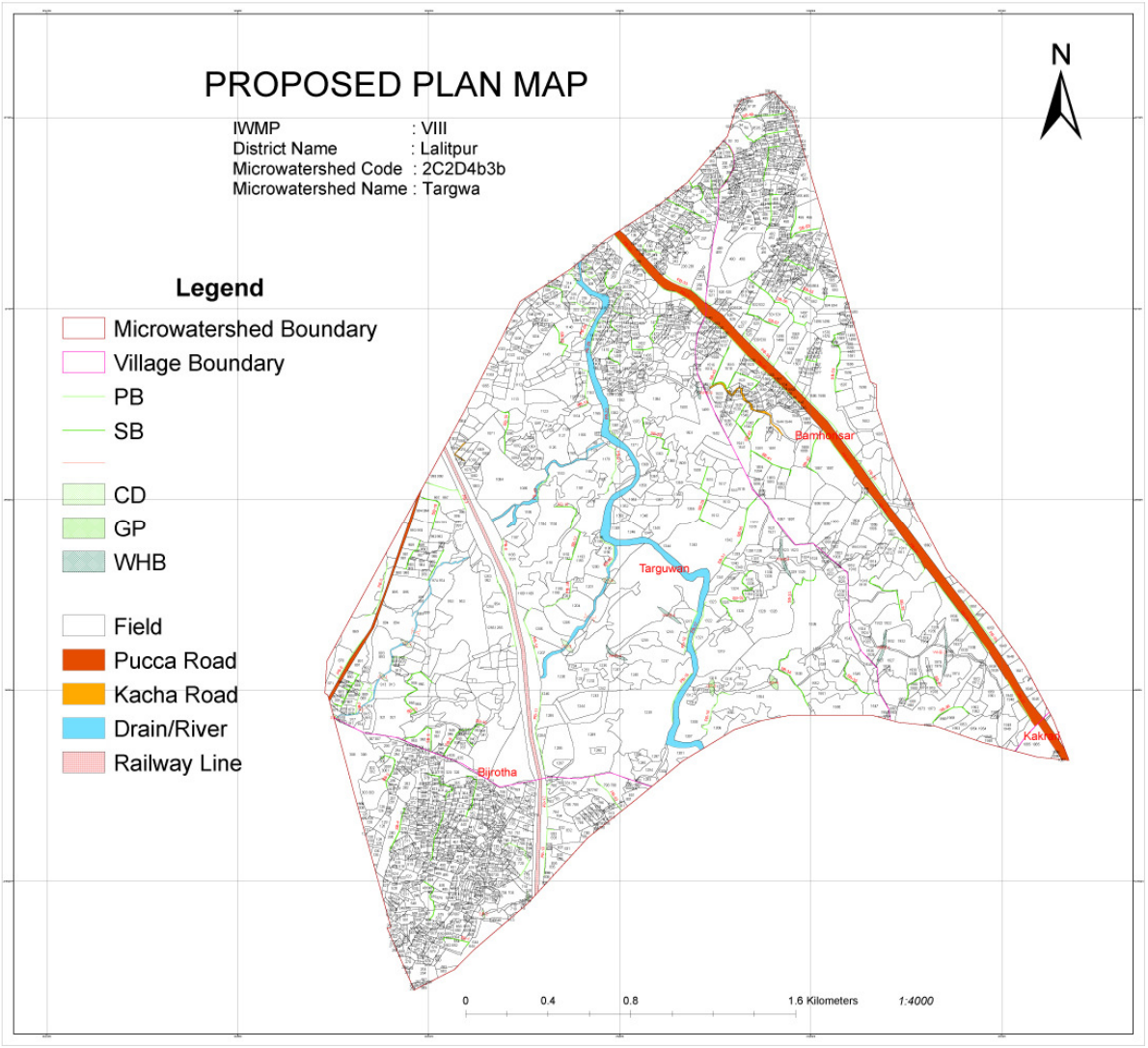

VILLAGE MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D1d1e
Microwatershed Name Lalaun
N
Bijrotha
Talbehat Range
Lalaun
Talbehat Range
Legend
Microwatershed Boundary
Village Boundary
Bijrotha
Lalaun
Talbehat Range
0 0.35 0.7 1.4 Kilometers
1:4000

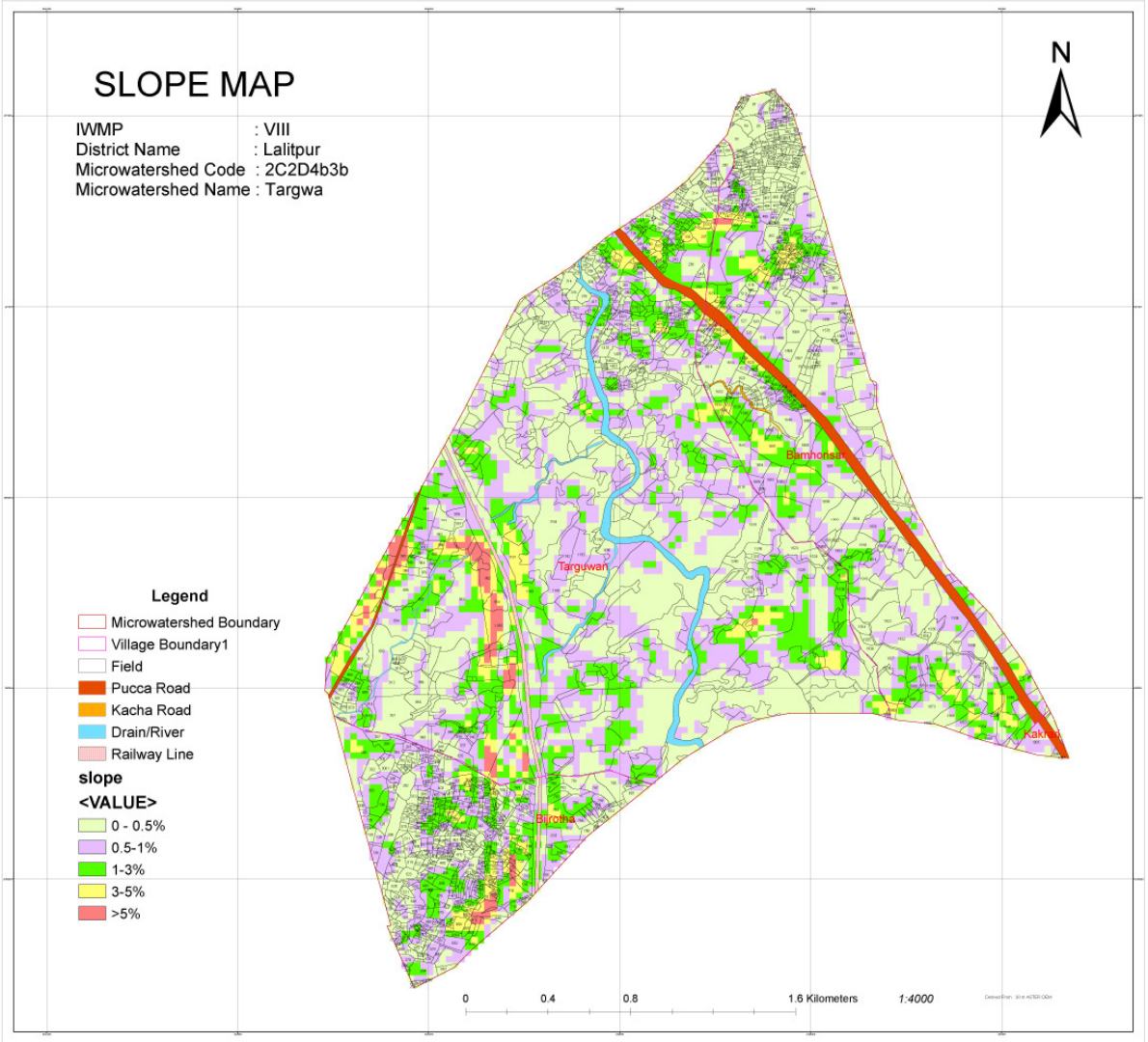

CADASTRAL MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3b
Microwatershed Name : Targwa
N
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/River
Railway Line
Bamhorisa
Targuwan
Kakra
Bijrotha
0
0.4
0.8
1.6 Kilometers
1:4000

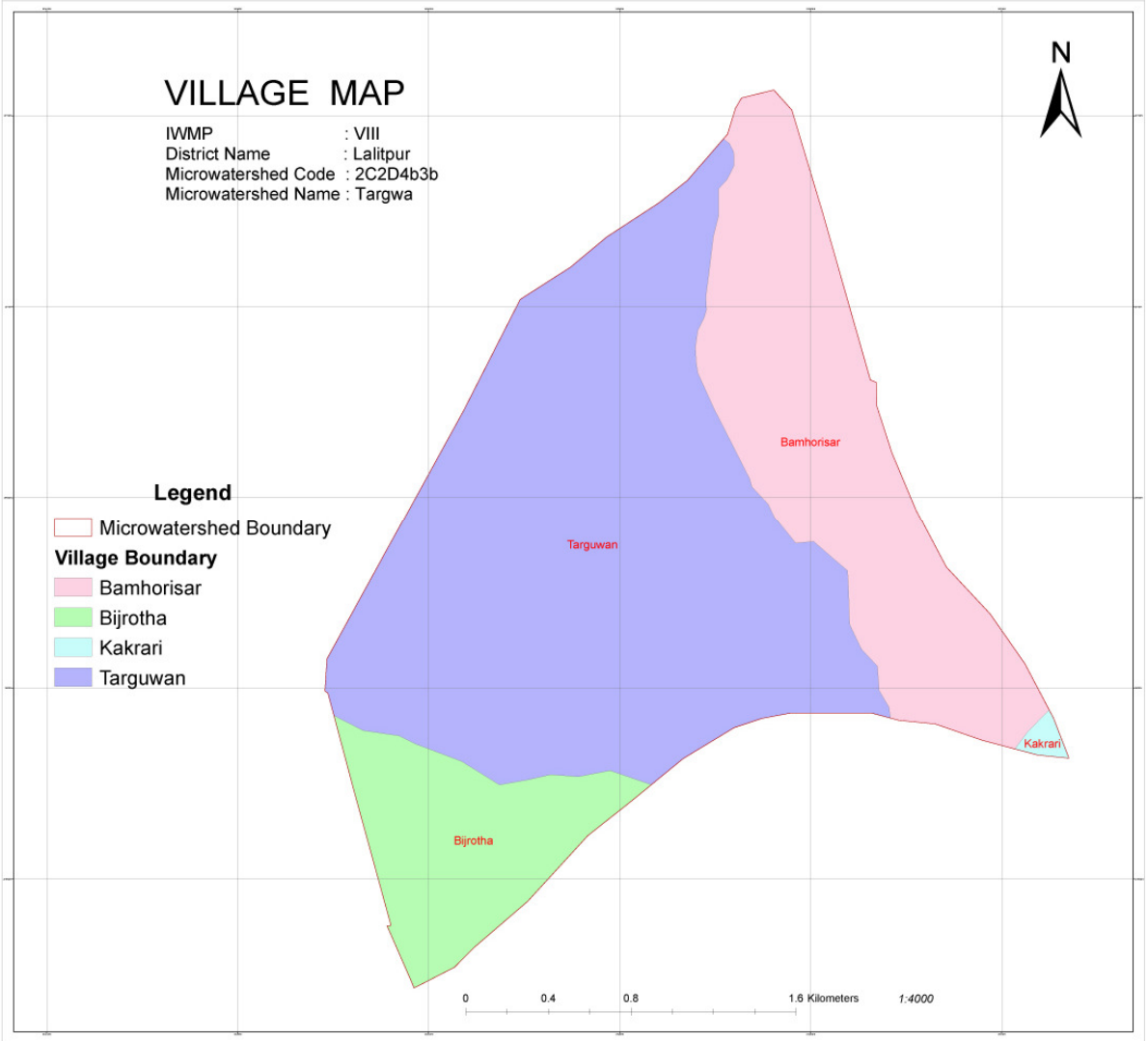

CONTOUR MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3b
Microwatershed Name : Targwa
N
Bamhorisa
Targuwan
Kakra
Bijrotha
Legend
Microwatershed Boundary
Village Boundary1
CONTOUR
295
300
305
310
315
320
Field
Pucca Road
Kacha Road
Drain/River
Railway Line
0
0.4
0.8
1.6 Kilometers
1:4000

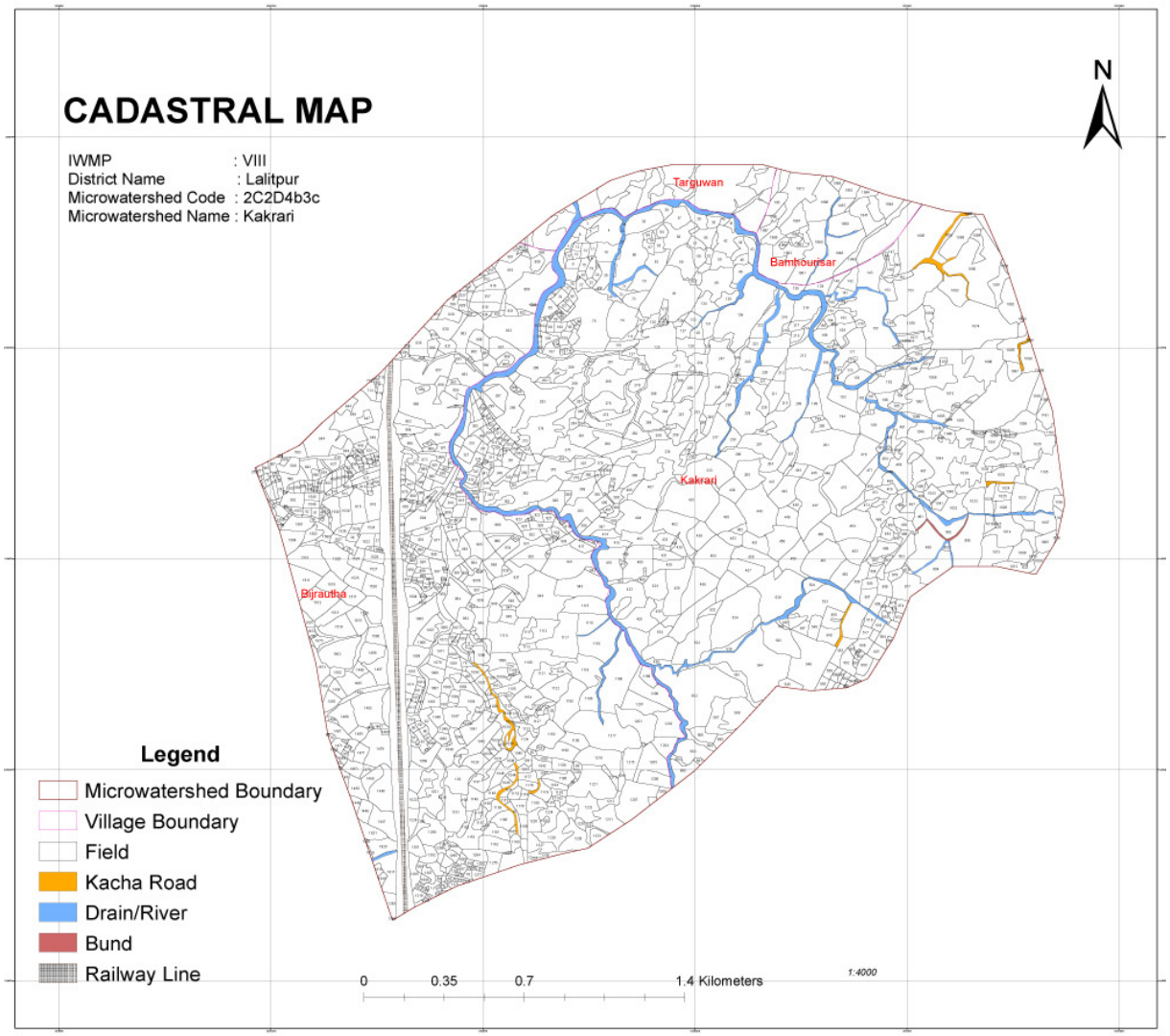

DIGITAL ELEVATION MODEL
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3b
Microwatershed Name : Targwa
N
Bamhonsar
Targuwan
Birotha
Legend
Microwatershed Boundary
Village Boundary1
Field
Pucca Road
Kacha Road
Drain/River
Railway Line
dem
Value
High : 325
Low : 295
0
0.4
0.8
1.6 Kilometers
1:4000

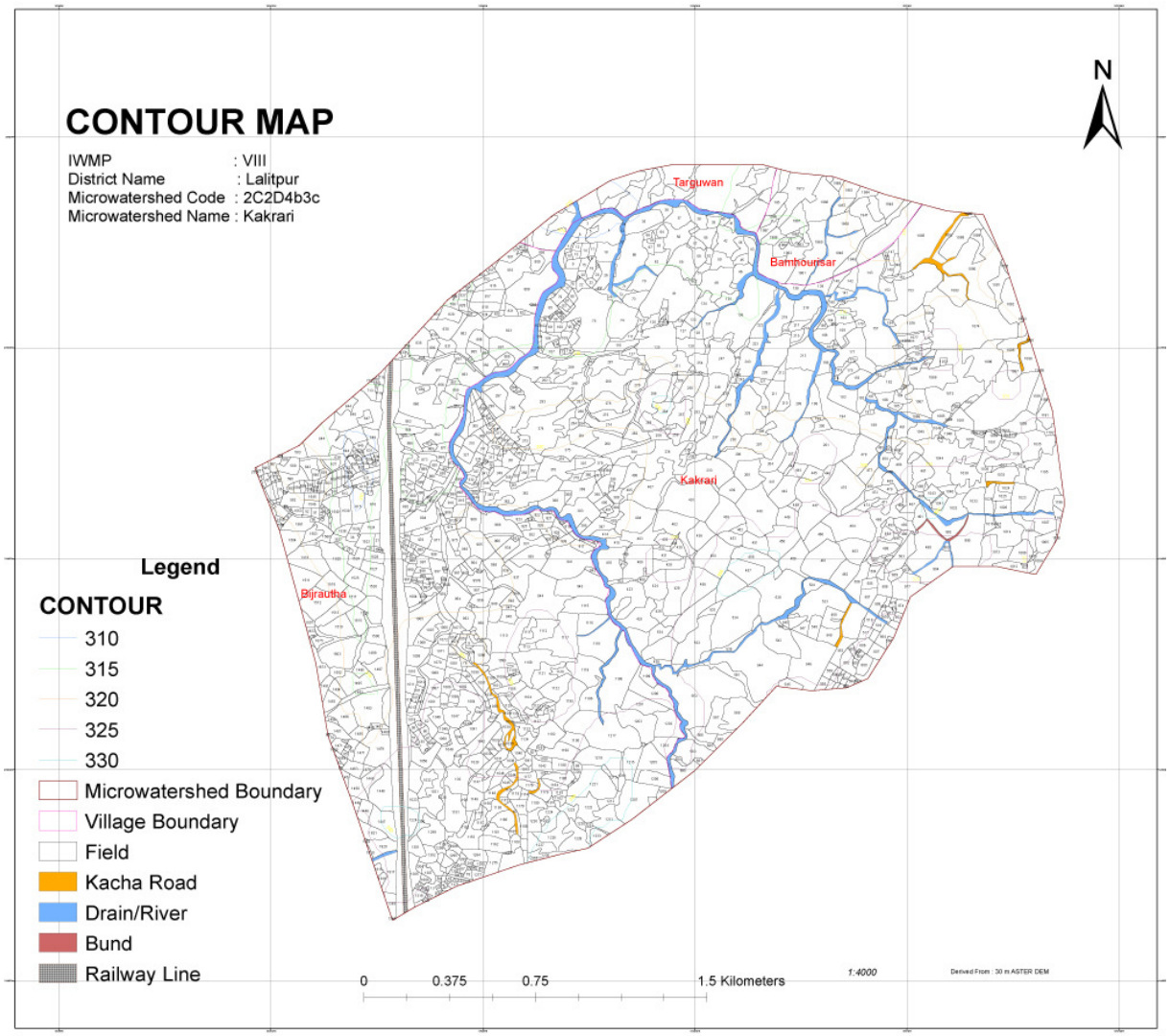

LANDUSE MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3b
Microwatershed Name : Targwa
N
Bamhorisa
Targuwan
Kakra
Bijrotha
Legend
Microwatershed Boundary
Village Boundary1
Field
Pucca Road
Kacha Road
Drain/River
Railway Line
0
0.4
0.8
1.6 Kilometers
1:4000

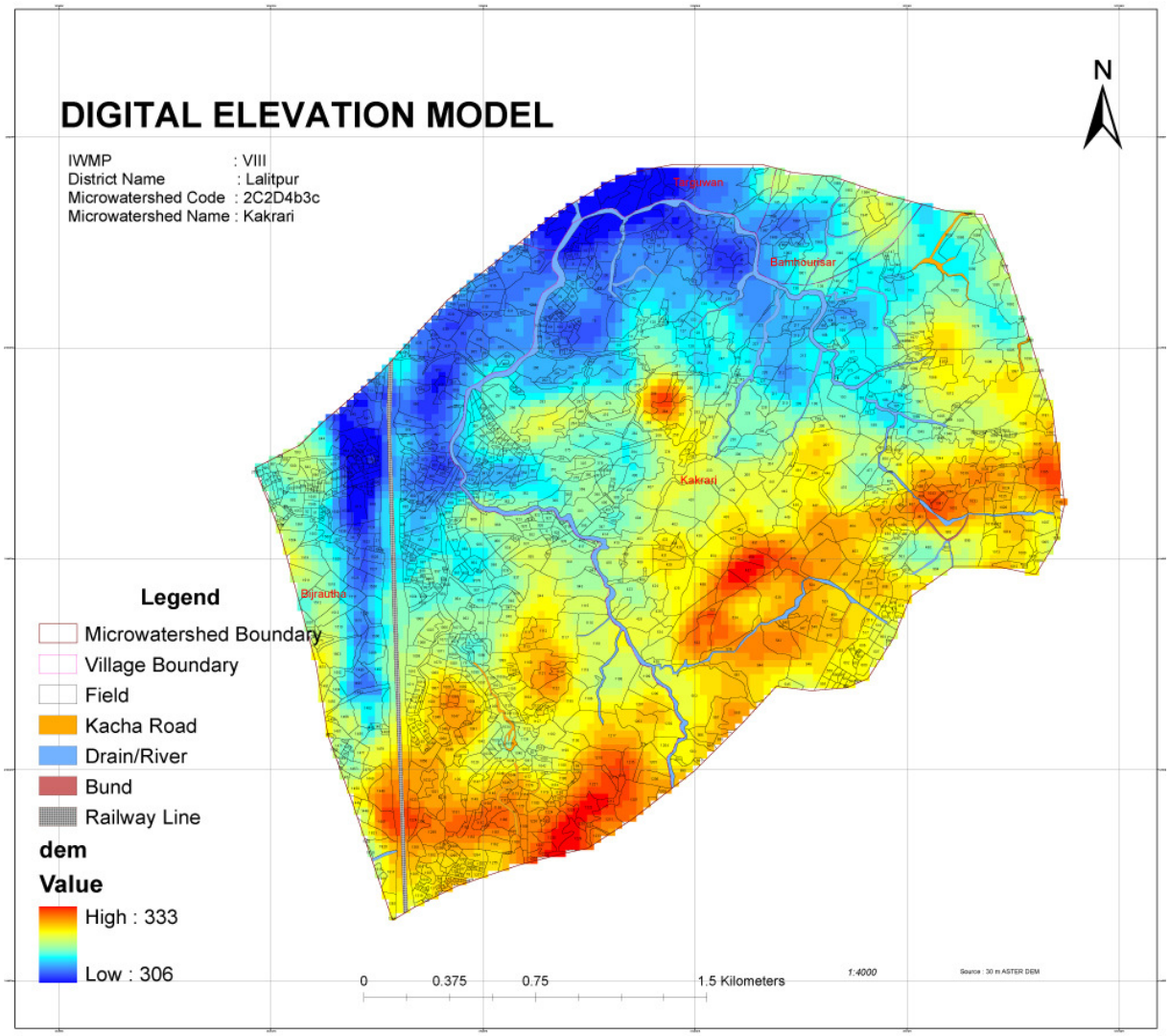

PROPOSED PLAN MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3b
Microwatershed Name : Targwa
N
Legend
Microwatershed Boundary
Village Boundary
PB
SB
CD
GP
WHB
Field
Pucca Road
Kacha Road
Drain/River
Railway Line
Bamhansar
Targuwan
Bijrotha
Kakra
0
0.4
0.8
1.6 Kilometers
1:4000

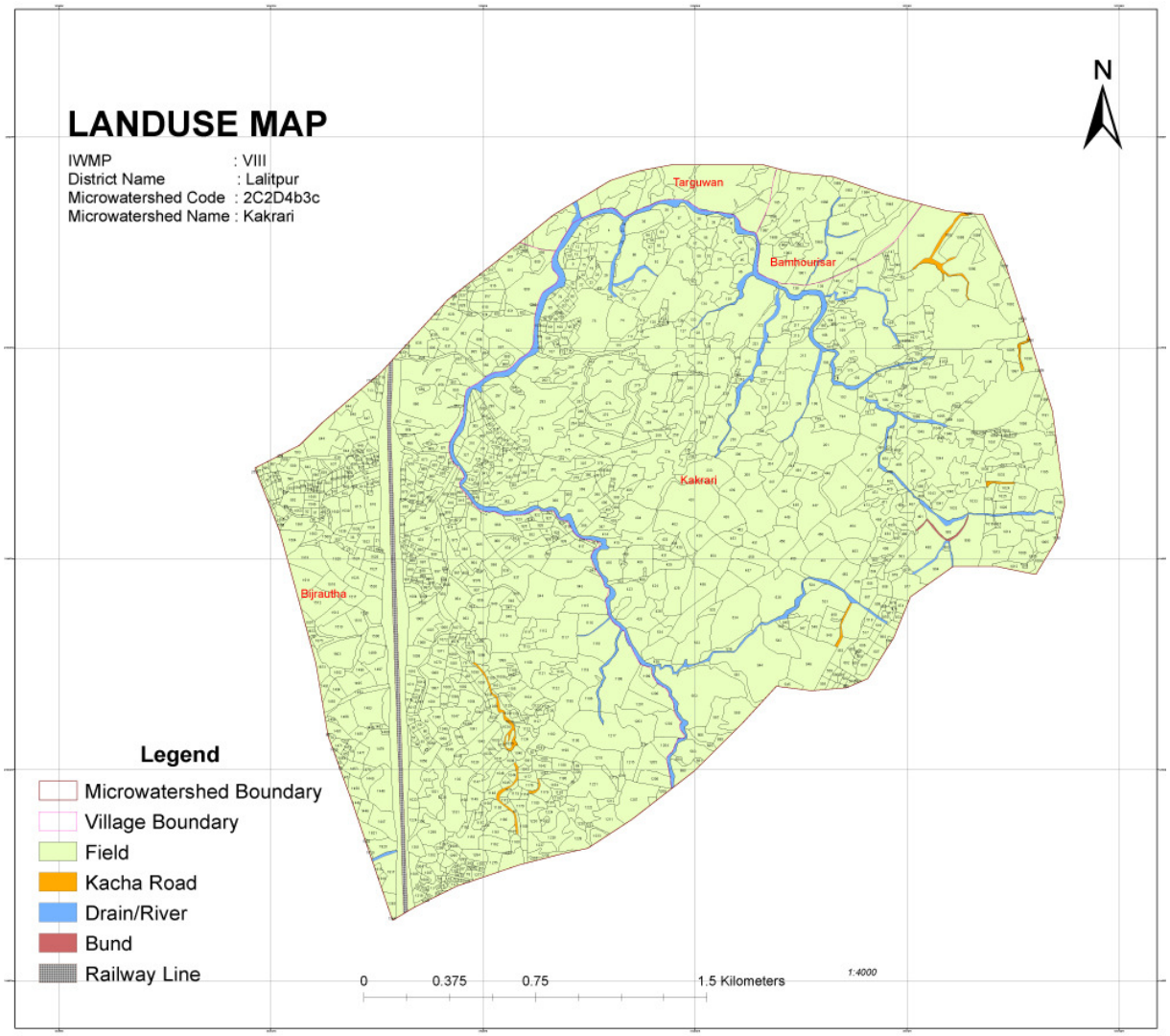

SLOPE MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3b
Microwatershed Name : Targwa
N
Legend
Microwatershed Boundary
Village Boundary1
Field
Pucca Road
Kacha Road
Drain/River
Railway Line
slope
<VALUE>
0 - 0.5%
0.5-1%
1-3%
3-5%
>5%
Targuwan
Birotha
0
0.4
0.8
1.6 Kilometers
1:4000

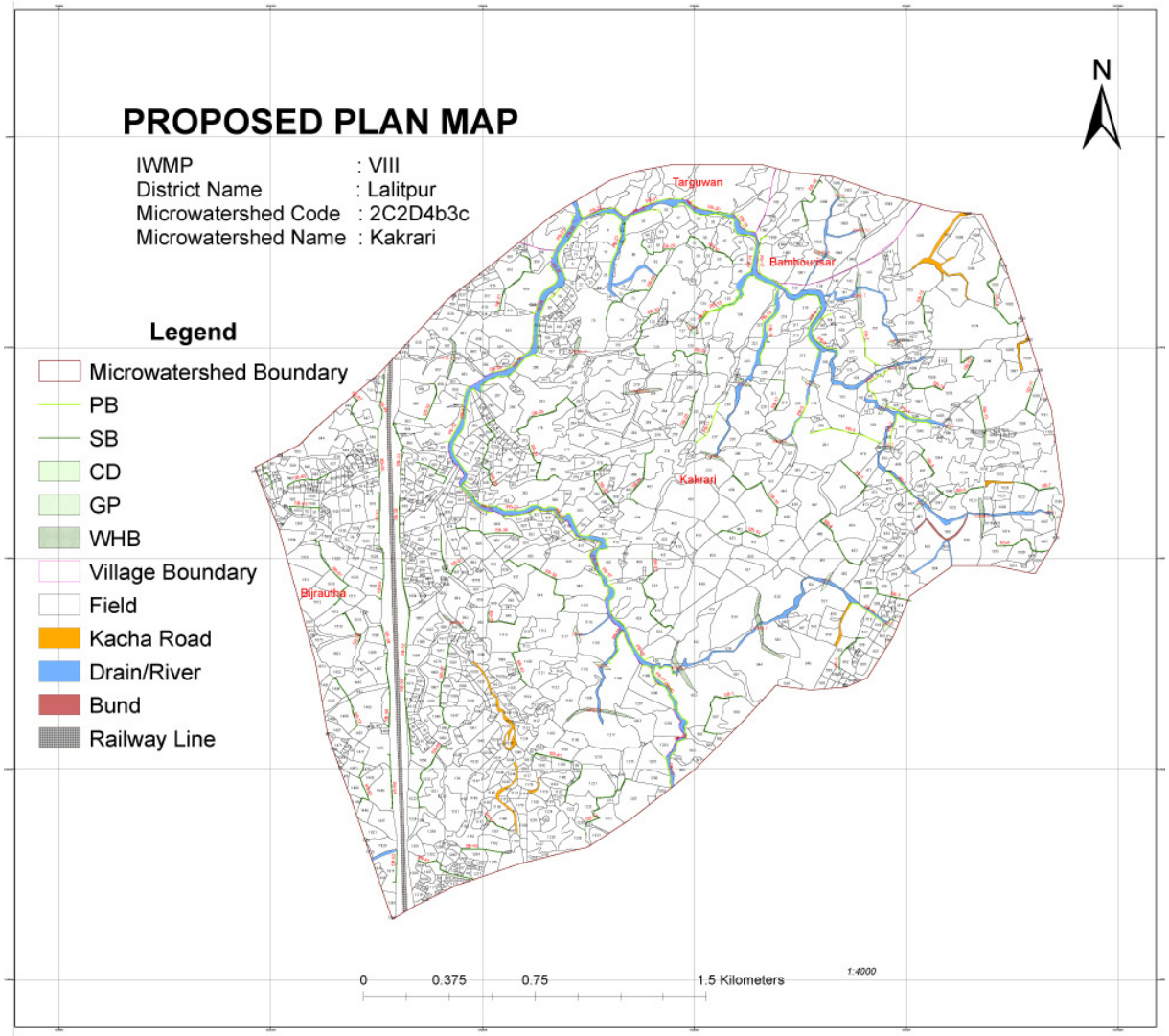

VILLAGE MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3b
Microwatershed Name : Targwa
N
Legend
Microwatershed Boundary
Village Boundary
Bamhorisar
Bijrotha
Kakrari
Targuwan
Bamhorisar
Targuwan
Kakrari
Bijrotha
0
0.4
0.8
1.6 Kilometers
1:4000

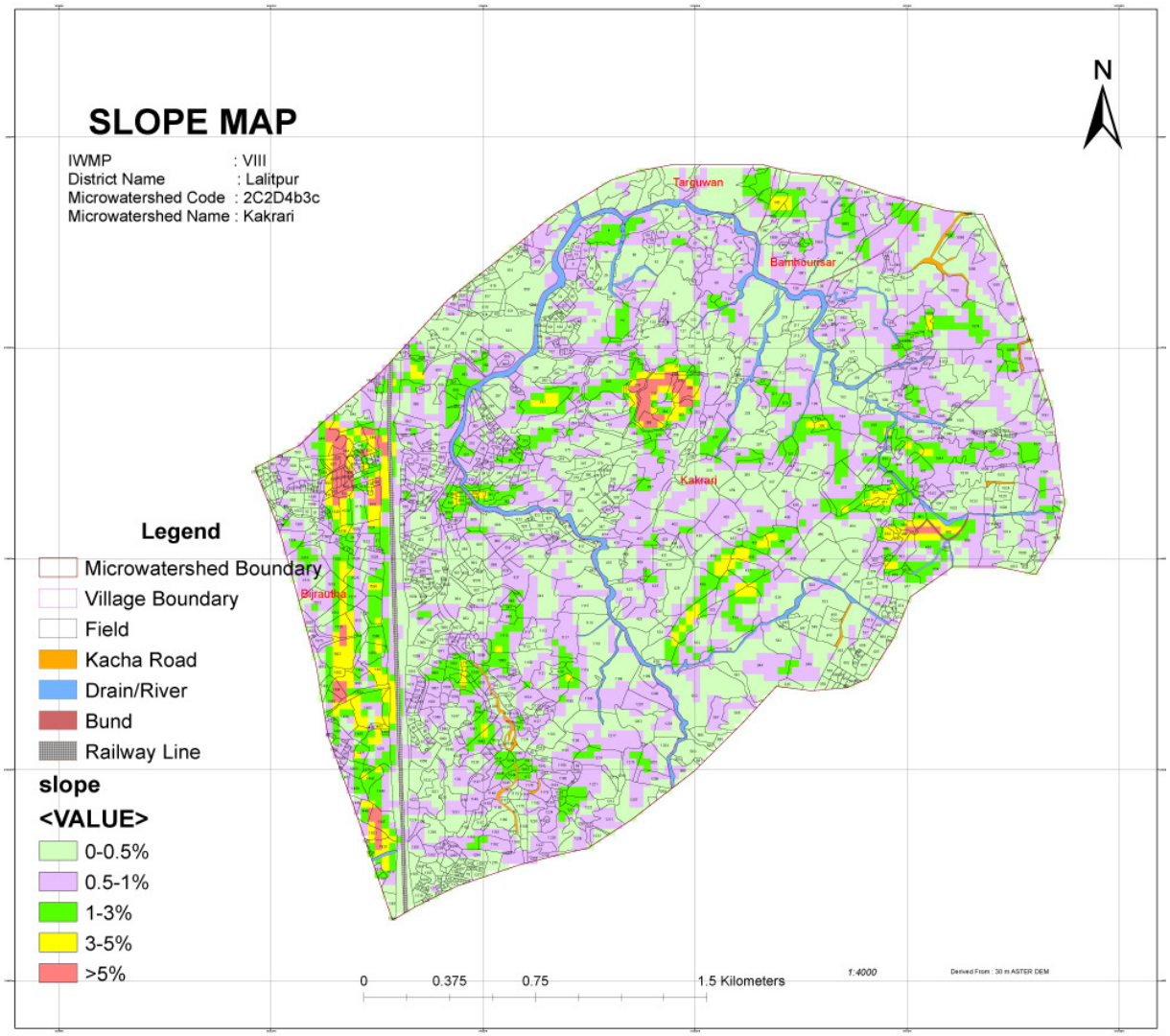

CADASTRAL MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3c
Microwatershed Name : Kakrari
N
Targuwan
Bamhounsar
Kakrari
Bijrautha
Legend
Microwatershed Boundary
Village Boundary
Field
Kacha Road
Drain/River
Bund
Railway Line
0
0.35
0.7
1.4 Kilometers
1:4000

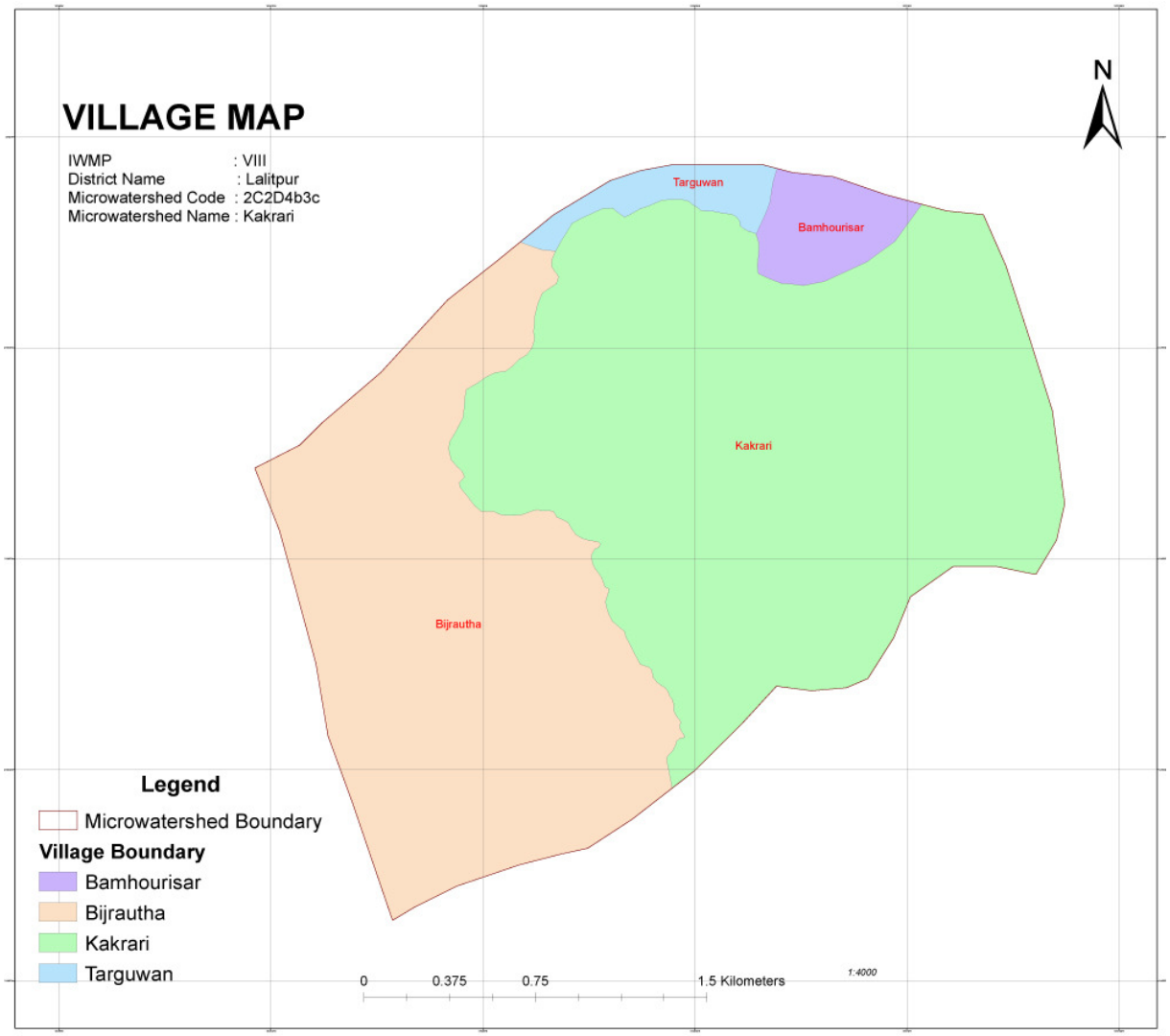

CONTOUR MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3c
Microwatershed Name : Kakrari
N
Targuwan
Bamhoursar
Kakrari
Bijrautha
Legend
CONTOUR
310
315
320
325
330
Microwatershed Boundary
Village Boundary
Field
Kacha Road
Drain/River
Bund
Railway Line
0
0.375
0.75
1.5 Kilometers
1:4000
Derived From : 30 m ASTER DEM

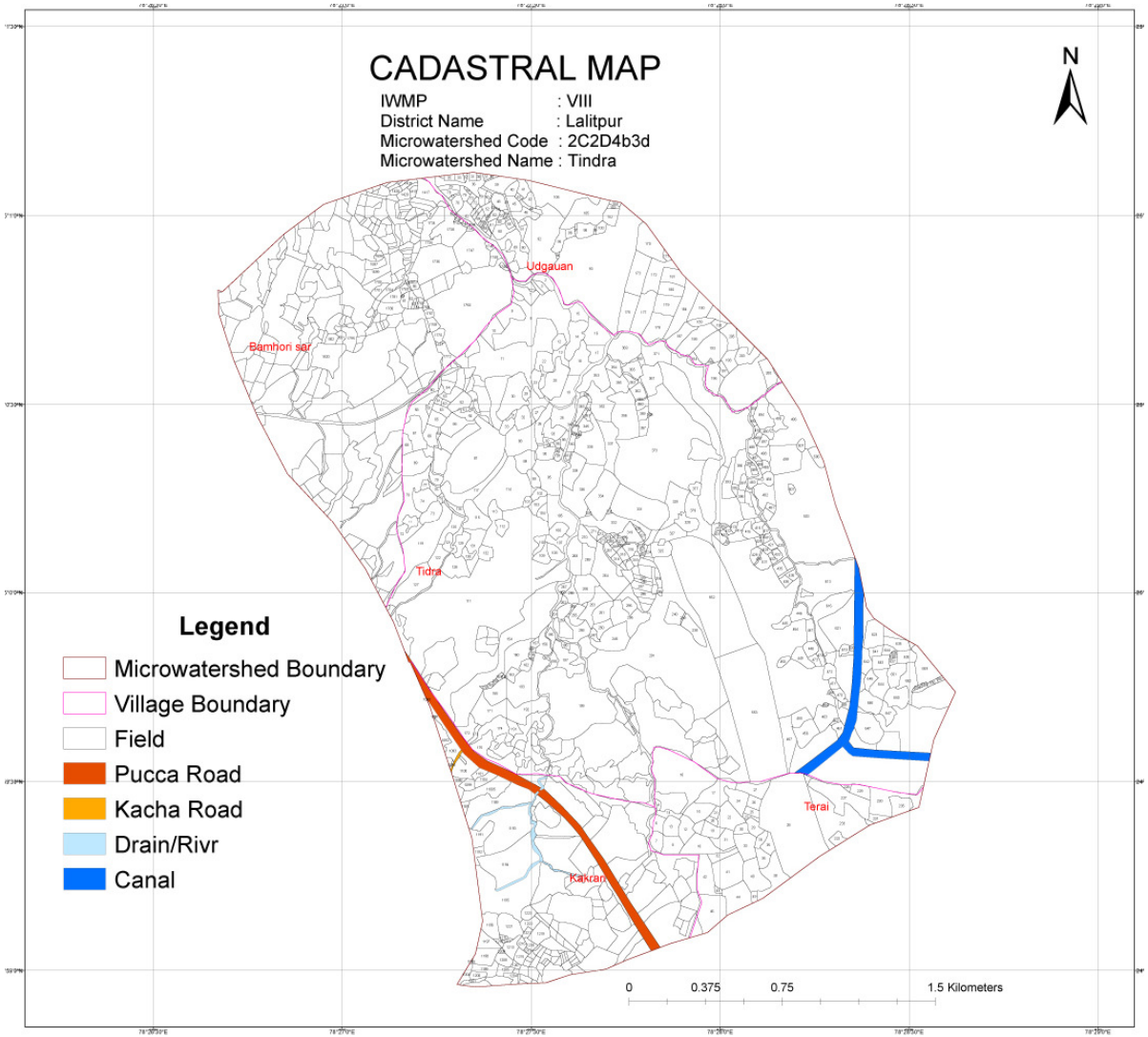

DIGITAL ELEVATION MODEL
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3c
Microwatershed Name : Kakrari
N
Tegauwan
Bamhounsar
Kakrari
Bijrautha
Legend
Microwatershed Boundary
Village Boundary
Field
Kacha Road
Drain/River
Bund
Railway Line
dem
Value
High : 333
Low : 306
0
0.375
0.75
1.5 Kilometers
1:4000
Source : 30 m ASTER DEM

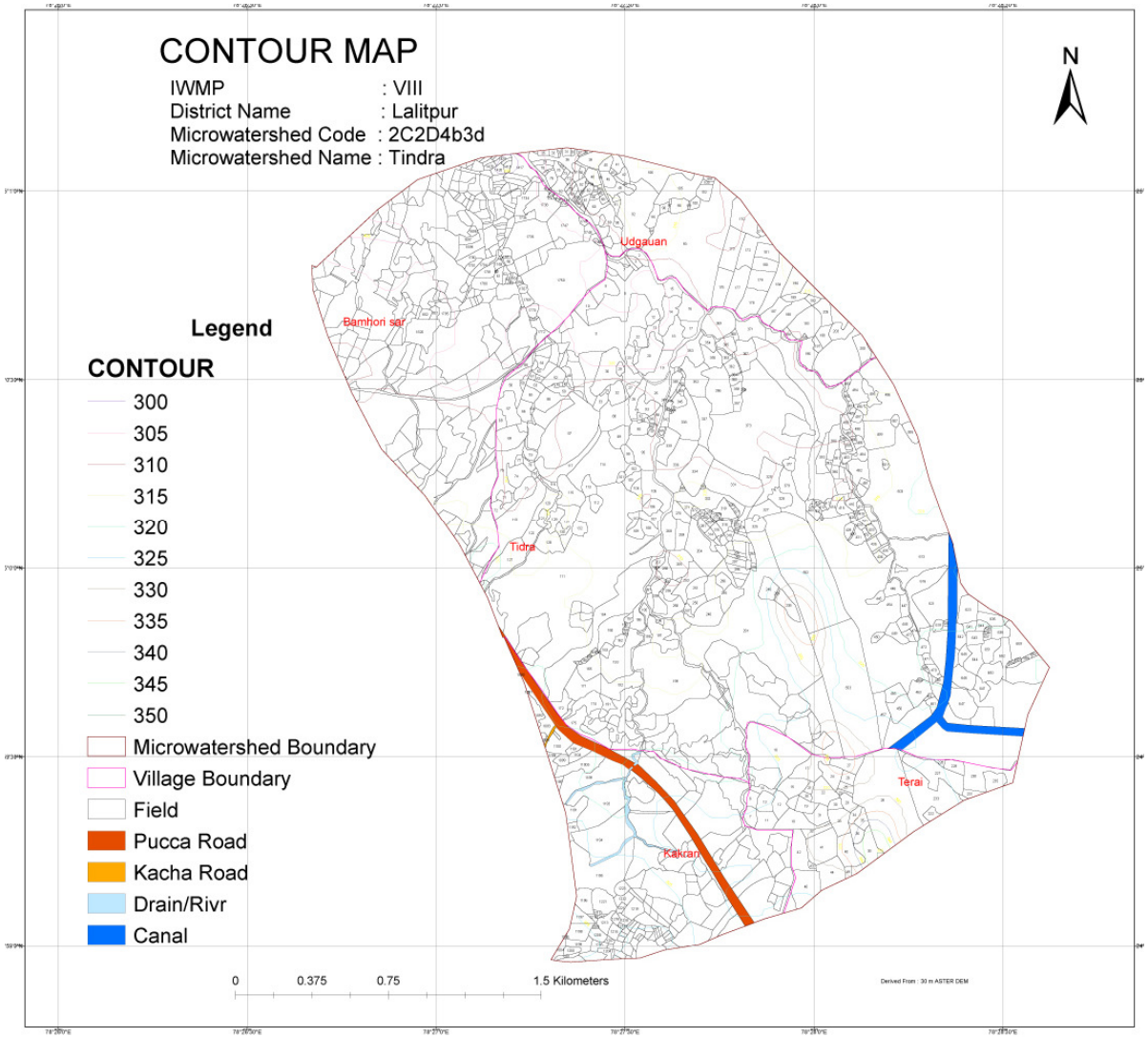

LANDUSE MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3c
Microwatershed Name : Kakrari
N
Targuwan
Bamhoursar
Kakrari
Bijrautha
Legend
Microwatershed Boundary
Village Boundary
Field
Kacha Road
Drain/River
Bund
Railway Line
0
0.375
0.75
1.5 Kilometers
1:4000

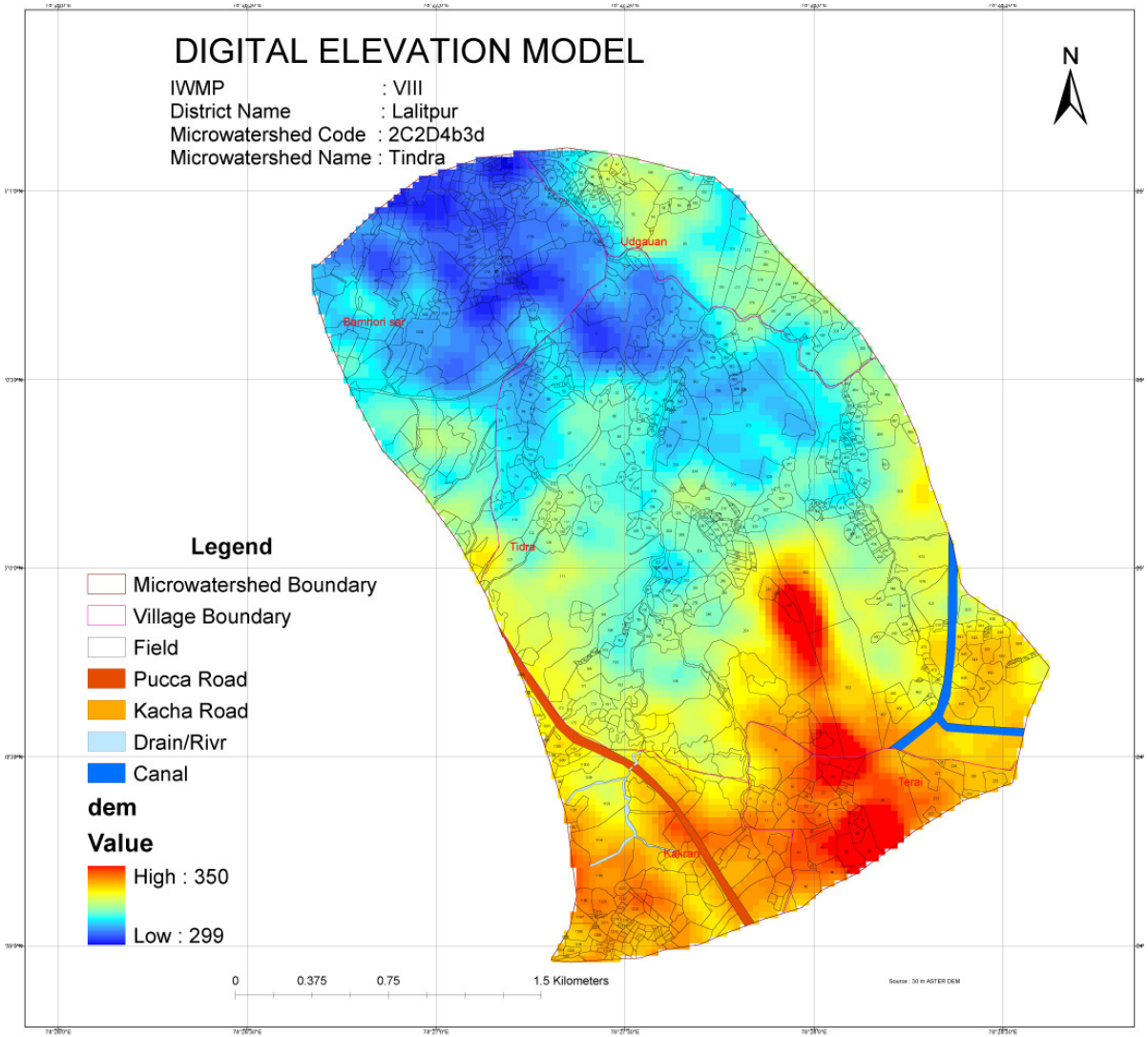

PROPOSED PLAN MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3c
Microwatershed Name : Kakrari
Legend
Microwatershed Boundary
PB
SB
CD
GP
WHB
Village Boundary
Field
Kacha Road
Drain/River
Bund
Railway Line
N
Targuwan
Bamhoursar
Kakrari
Bijrautha
0
0.375
0.75
1.5 Kilometers
1:4000

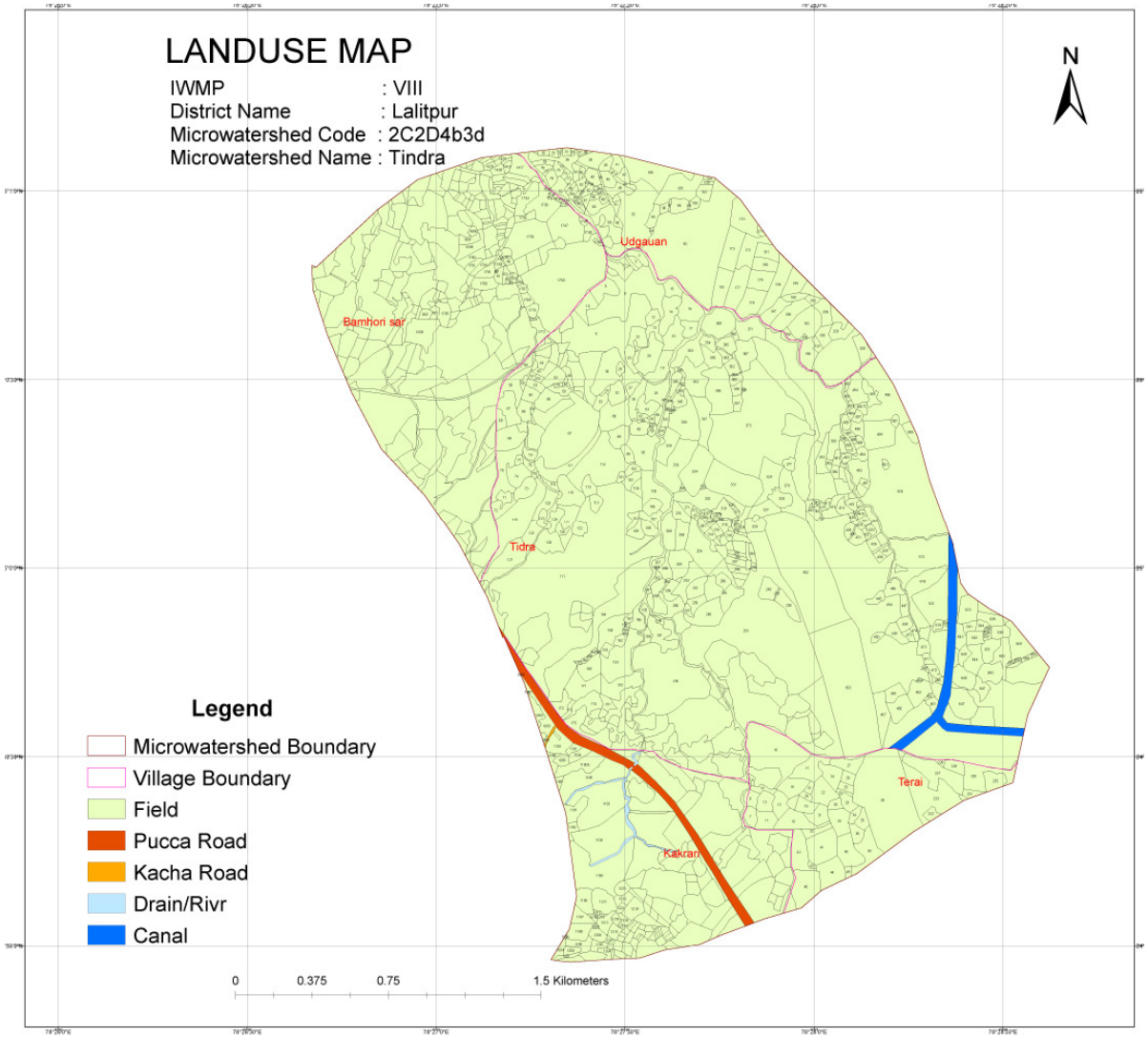

SLOPE MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3c
Microwatershed Name : Kakrari
N
Targuwan
Bamhoursar
Kakrari
Bijrautha
Legend
Microwatershed Boundary
Village Boundary
Field
Kacha Road
Drain/River
Bund
Railway Line
slope
<VALUE>
0-0.5%
0.5-1%
1-3%
3-5%
>5%
0
0.375
0.75
1.5 Kilometers
1:4000
Derived From : 30 m ASTER DEM

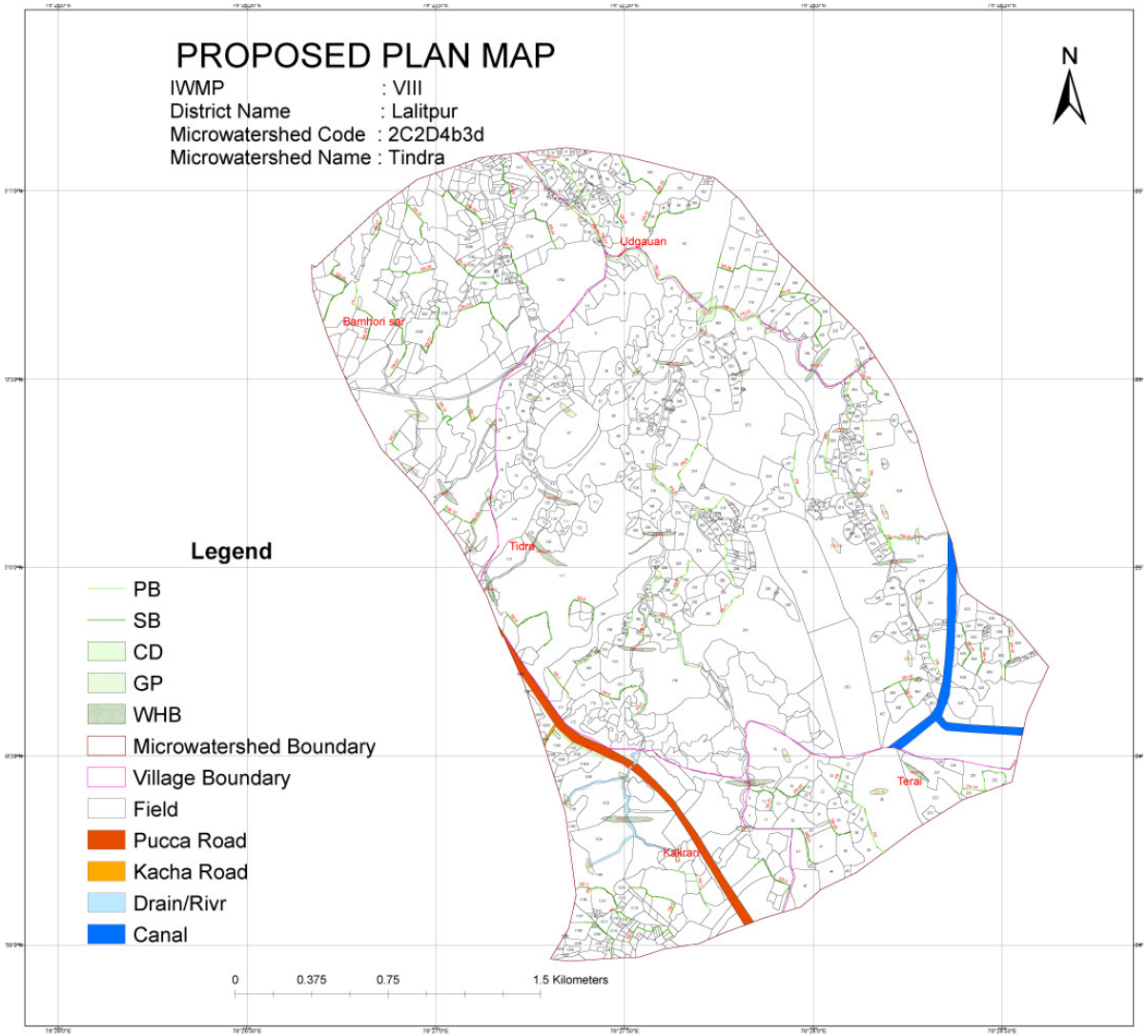

VILLAGE MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3c
Microwatershed Name : Kakrari
N
Targuwan
Bamhourisar
Kakrari
Bijrautha
Legend
Microwatershed Boundary
Village Boundary
Bamhourisar
Bijrautha
Kakrari
Targuwan
0
0.375
0.75
1.5 Kilometers
1:4000

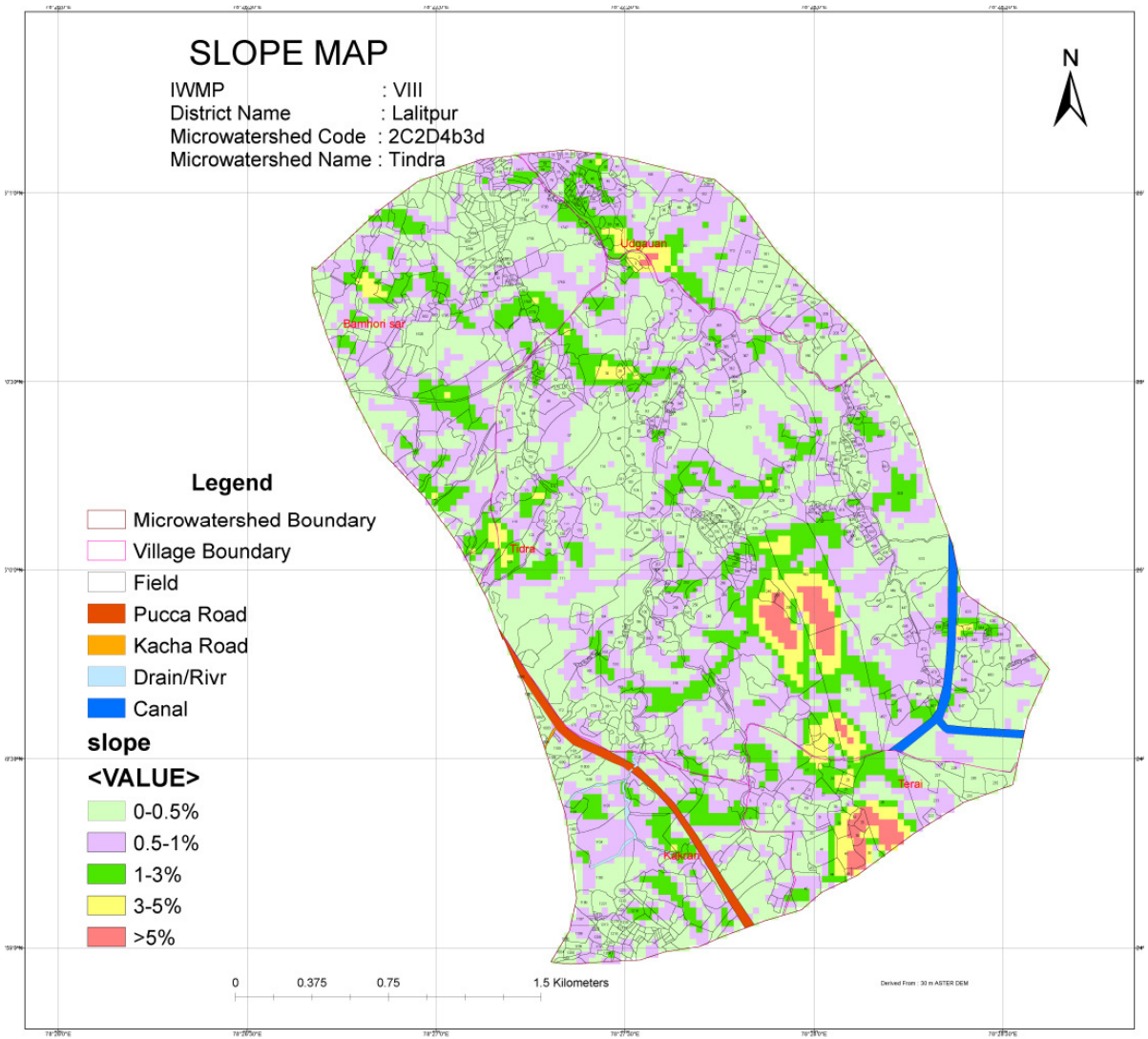

CADASTRAL MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3d
Microwatershed Name : Tindra
N
Udgauan
Bamhori sar
Tidra
Terai
Kakran
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Canal
0
0.375
0.75
1.5 Kilometers

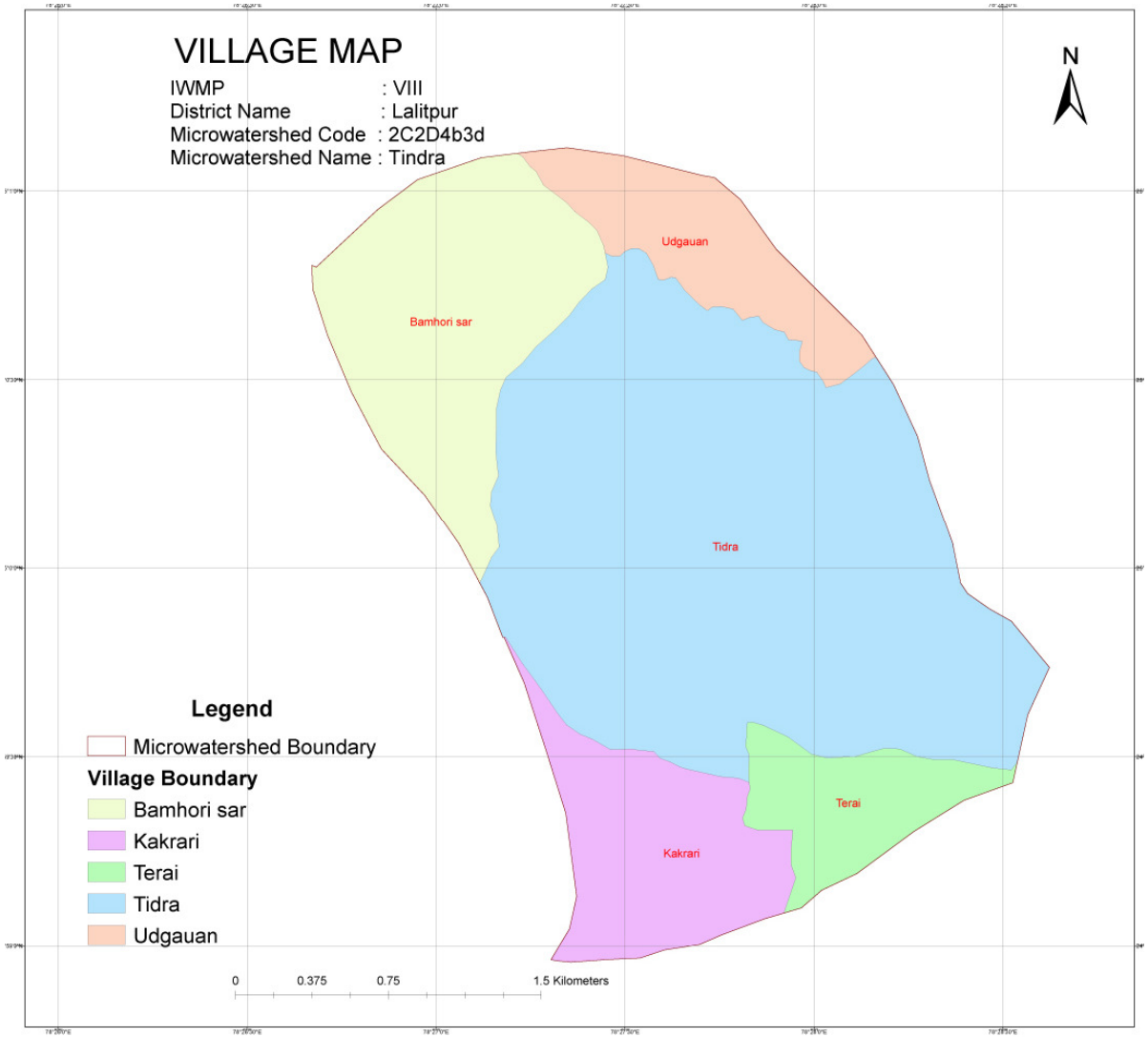

CONTOUR MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3d
Microwatershed Name : Tindra
N
Udgauan
Bamhori sar
Tidra
Terai
Kakran
Legend
CONTOUR
300
305
310
315
320
325
330
335
340
345
350
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Canal
0
0.375
0.75
1.5 Kilometers
Derived From : 30 m ASTER DEM

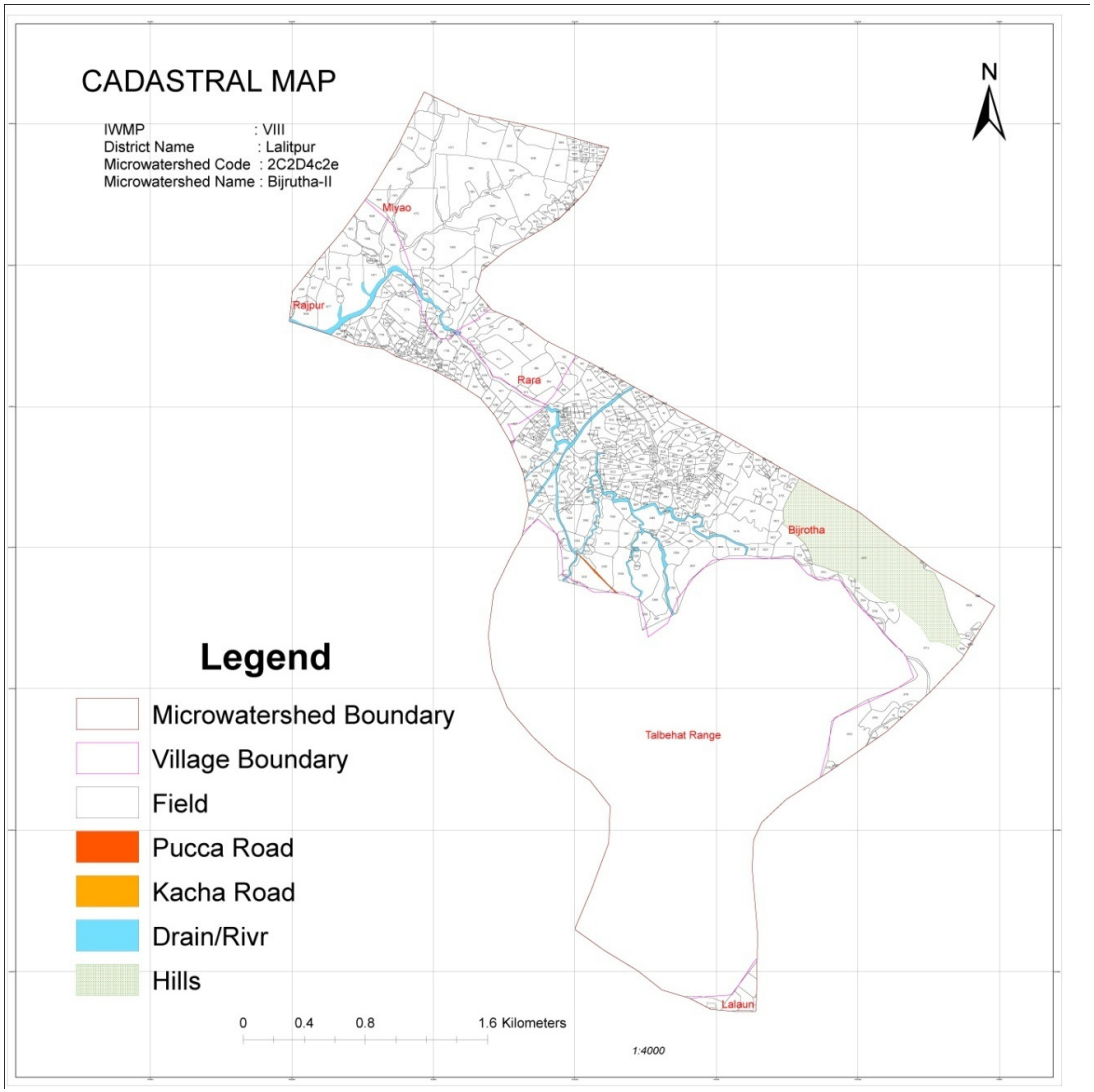

DIGITAL ELEVATION MODEL
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3d
Microwatershed Name : Tindra
N
Udgauan
Bamhori sar
Tidra
Terai
Kalidar
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Canal
dem
Value
High : 350
Low : 299
0
0.375
0.75
1.5 Kilometers

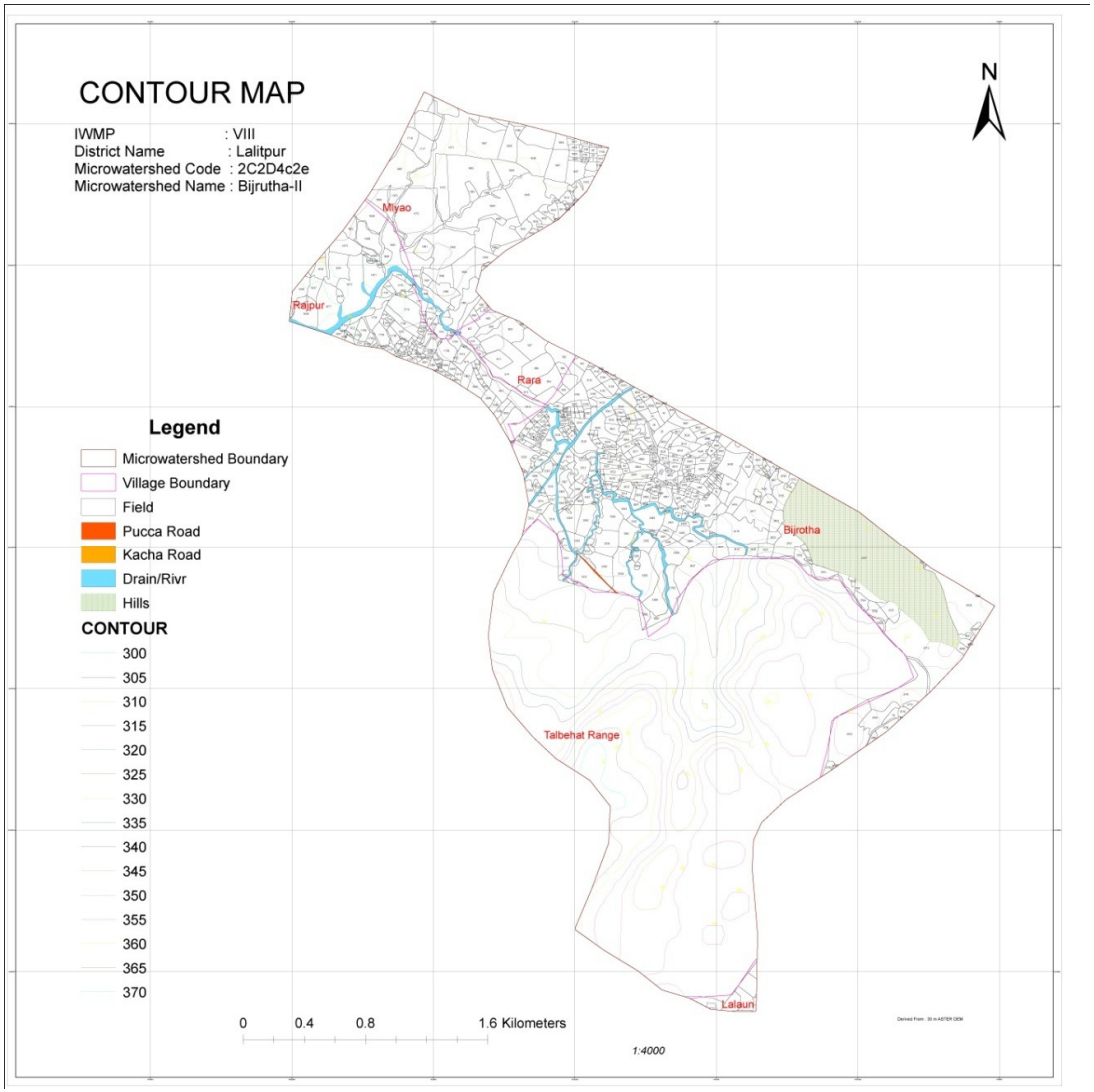

LANDUSE MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3d
Microwatershed Name : Tindra
N
Udgauan
Bamhori sar
Tidra
Terai
Katkrari
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Canal
0
0.375
0.75
1.5 Kilometers

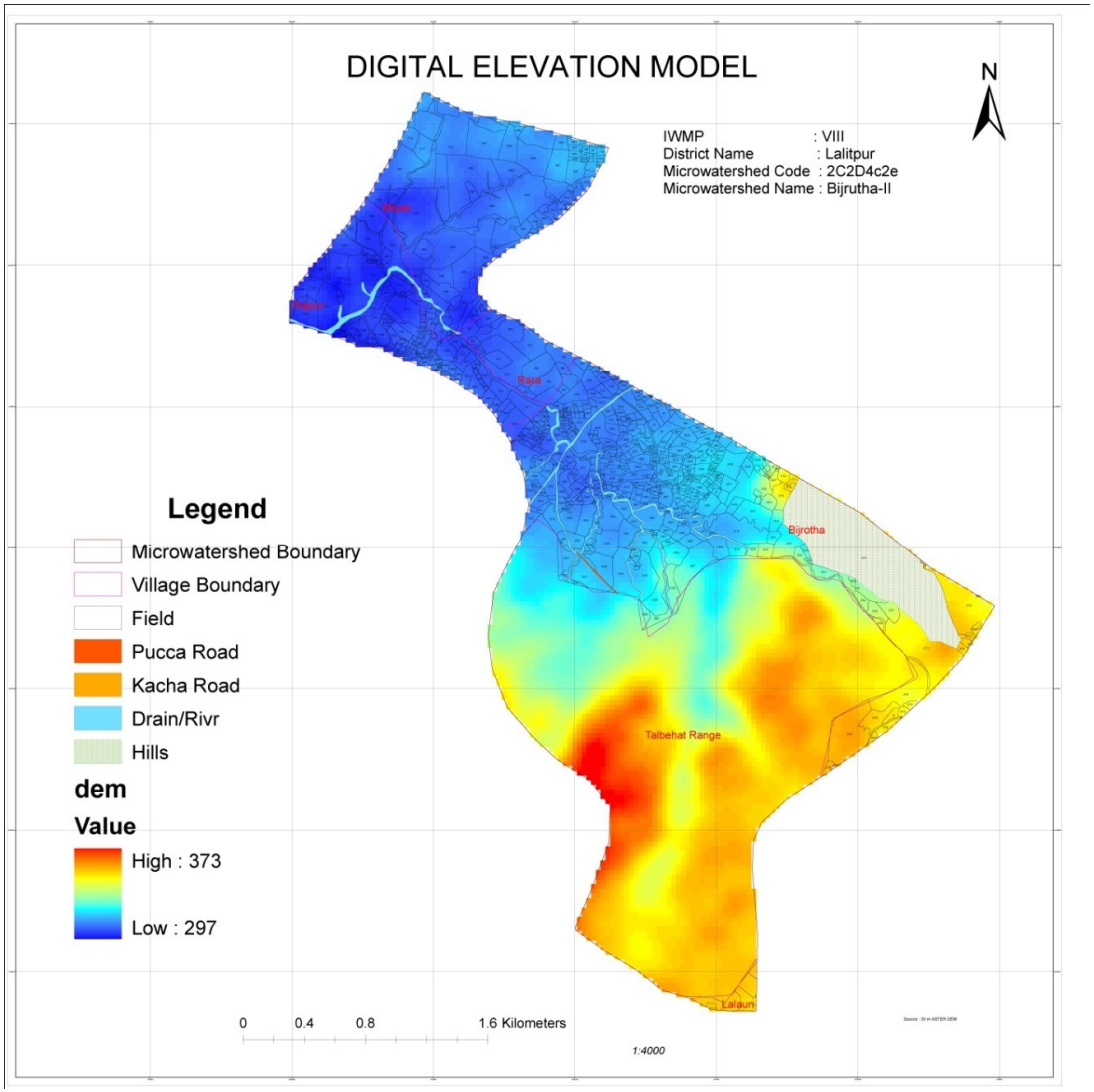

PROPOSED PLAN MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3d
Microwatershed Name : Tindra
N
Udgauan
Bamhori sor
Tidra
Terai
Kakran
Legend
PB
SB
CD
GP
WHB
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Canal
0
0.375
0.75
1.5 Kilometers

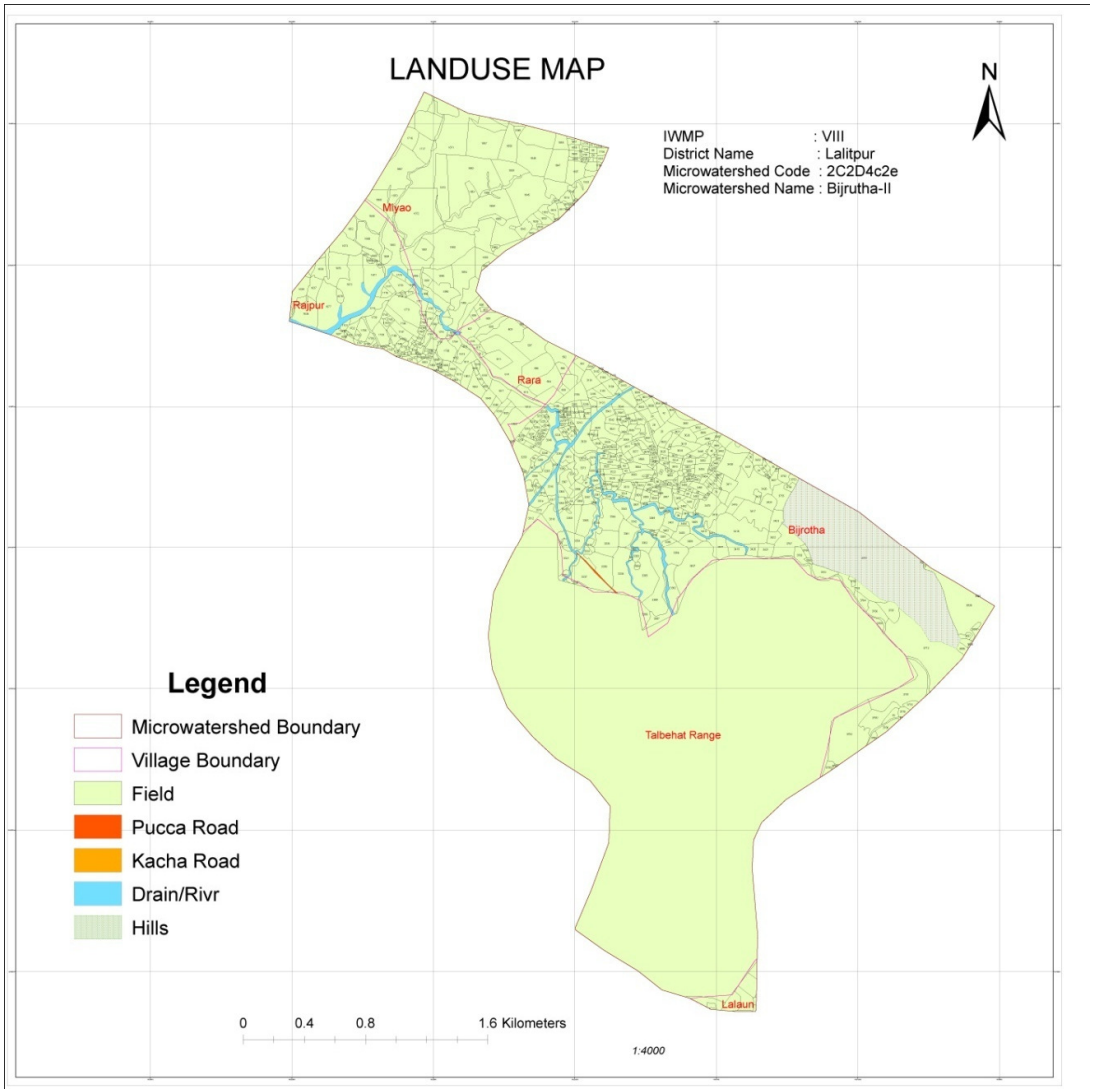

SLOPE MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3d
Microwatershed Name : Tindra
N
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Canal
slope
<VALUE>
0-0.5%
0.5-1%
1-3%
3-5%
>5%
0
0.375
0.75
1.5 Kilometers
Derived From : 30 m ASTER DEM

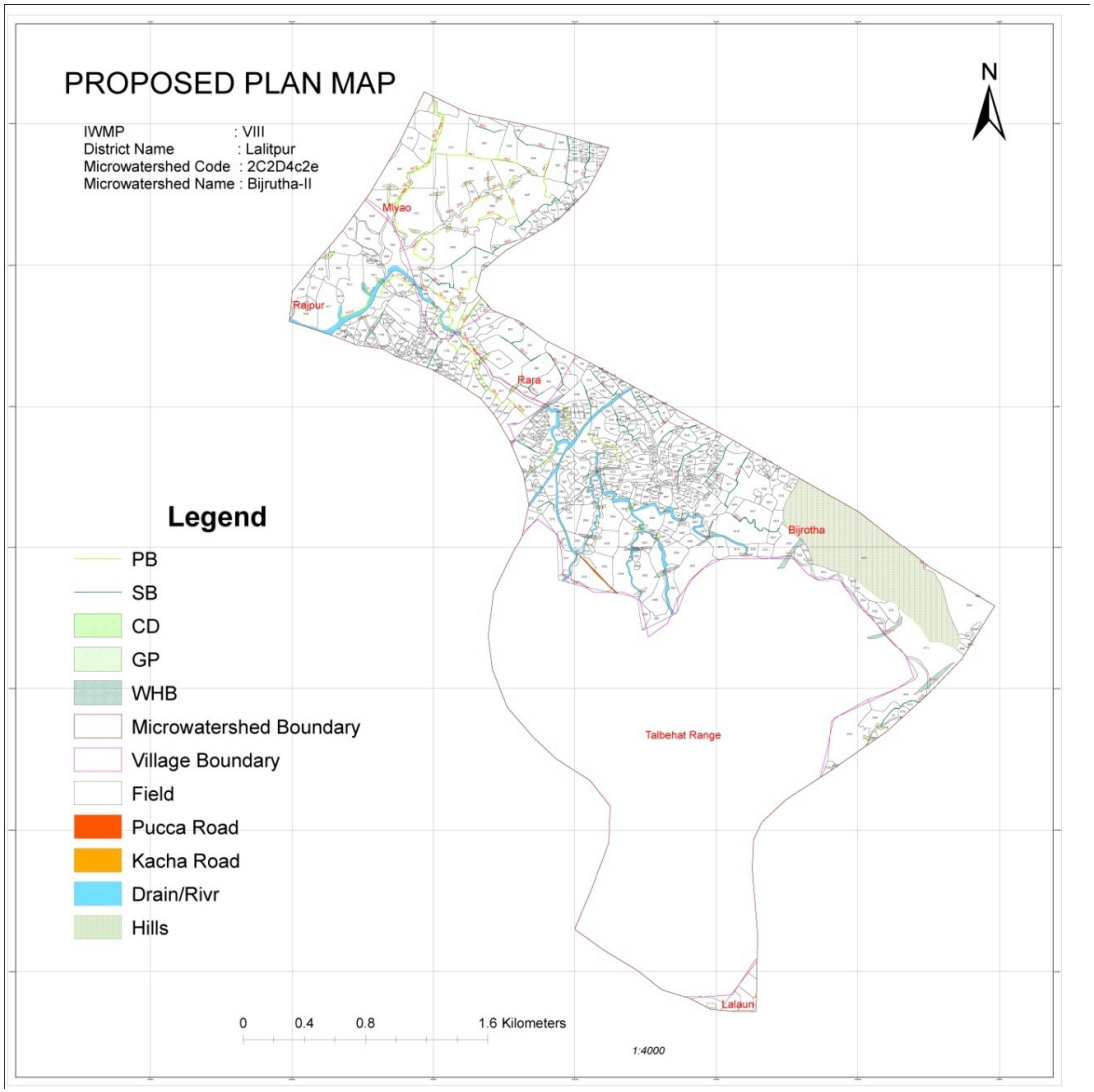

VILLAGE MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4b3d
Microwatershed Name : Tindra
N
Udgauan
Bamhori sar
Tidra
Terai
Kakrari
Legend
Microwatershed Boundary
Village Boundary
Bamhori sar
Kakrari
Terai
Tidra
Udgauan
0
0.375
0.75
1.5 Kilometers

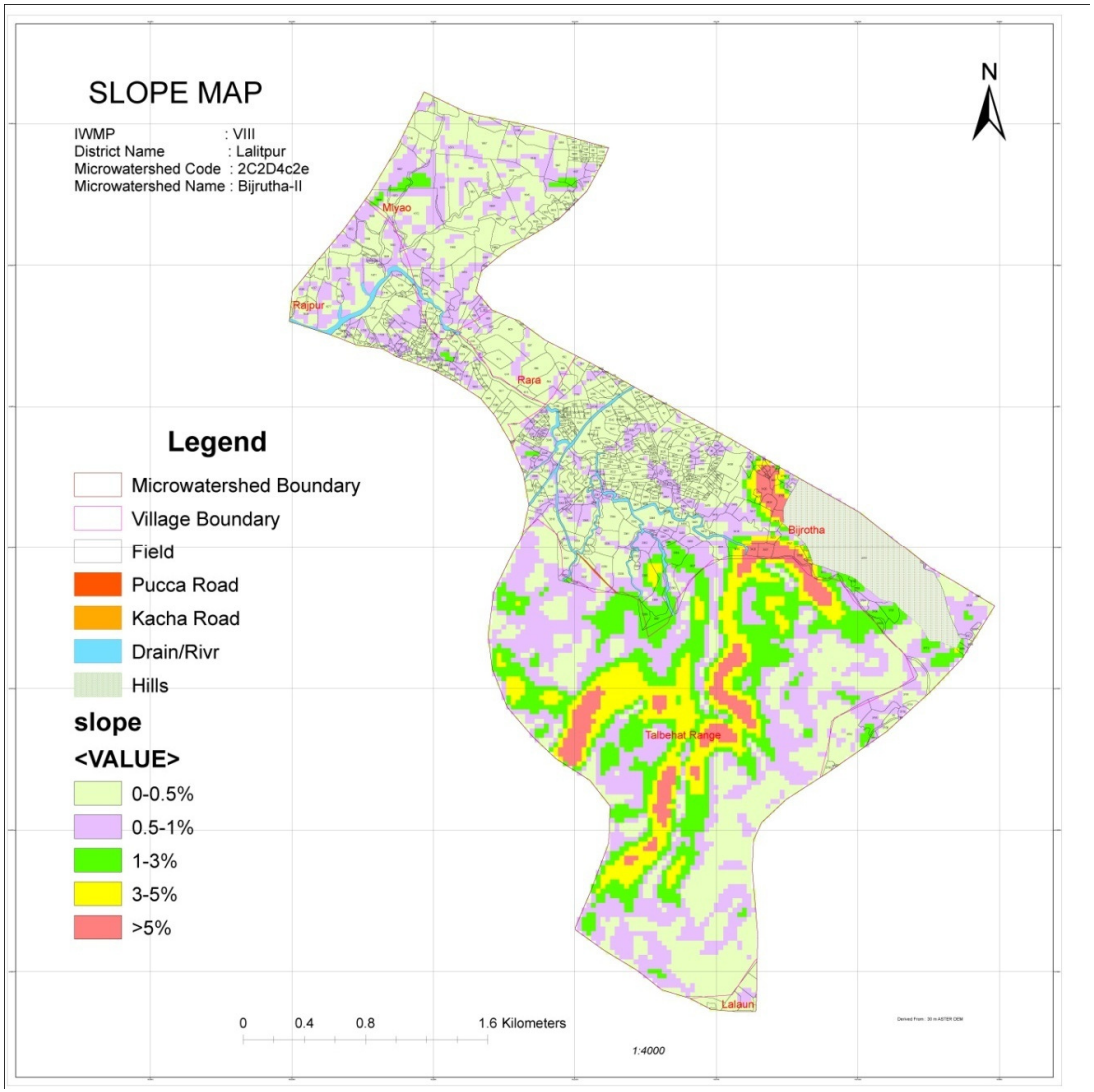

CADASTRAL MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4c2e
Microwatershed Name : Bijrutha-II
N
Miyao
Rajpur
Rara
Bijrotha
Talbehat Range
Lalaun
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Hills
0 0.4 0.8 1.6 Kilometers
1:4000

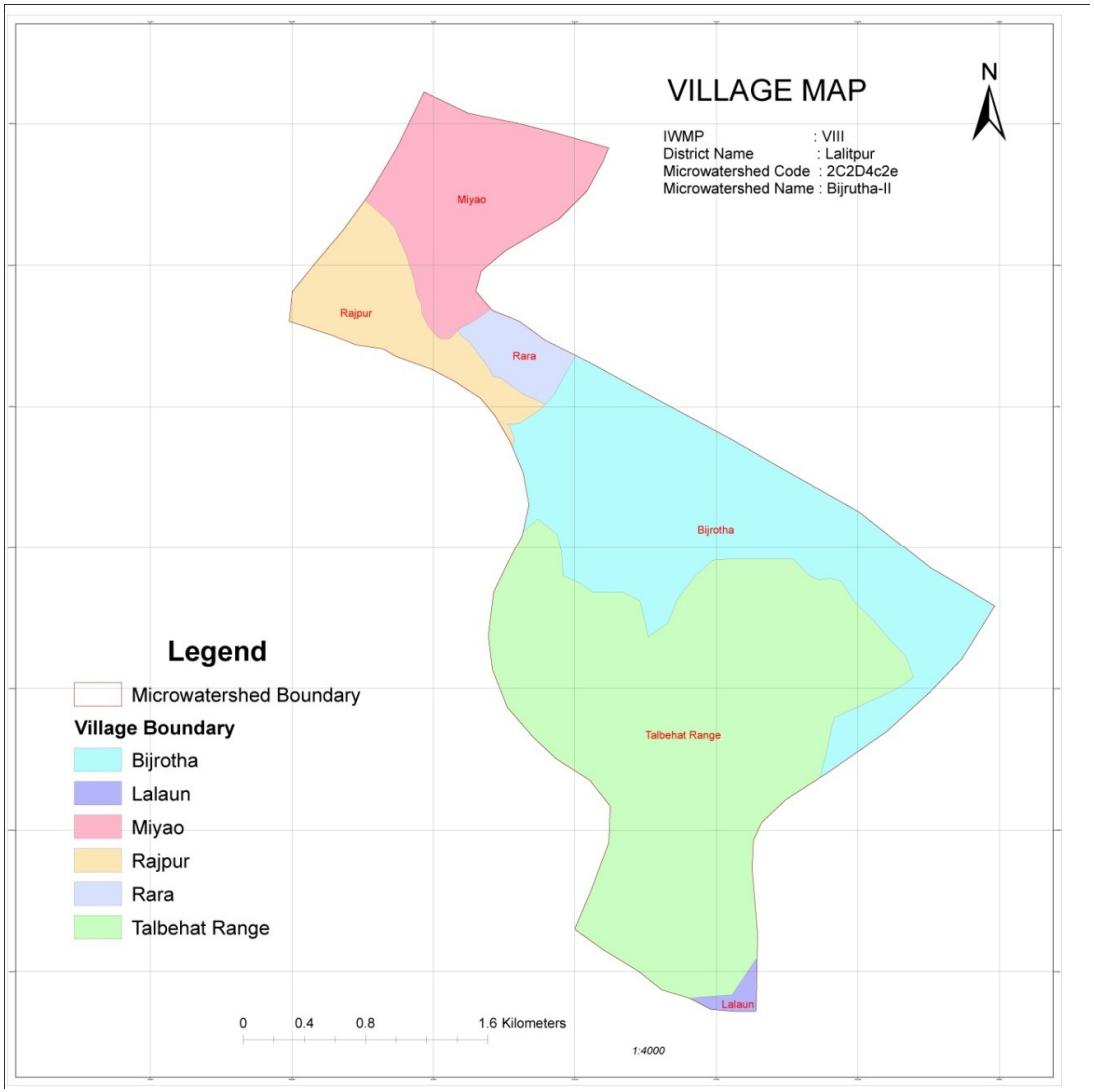

CONTOUR MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4c2e
Microwatershed Name : Bijrutha-II
N
Miyao
Rajpur
Rara
Bijrotha
Talbehat Range
Lalaun
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Hills
CONTOUR
300
305
310
315
320
325
330
335
340
345
350
355
360
365
370
0 0.4 0.8 1.6 Kilometers
1:4000

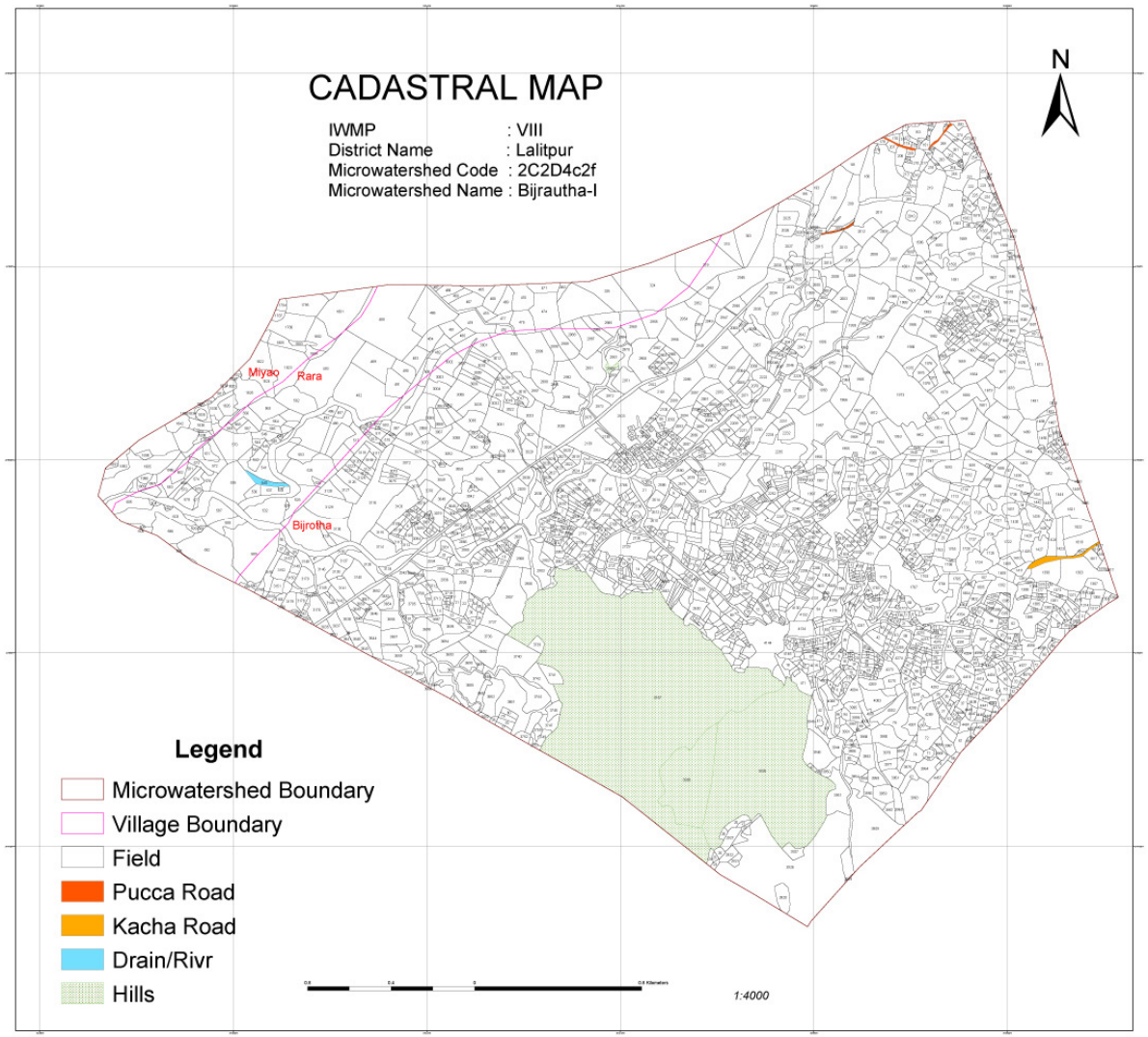

DIGITAL ELEVATION MODEL
N
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4c2e
Microwatershed Name : Bijrutha-II
Bijrotha
Talbehat Range
Lalaun
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Hills
dem
Value
High : 373
Low : 297
0 0.4 0.8 1.6 Kilometers
1:4000

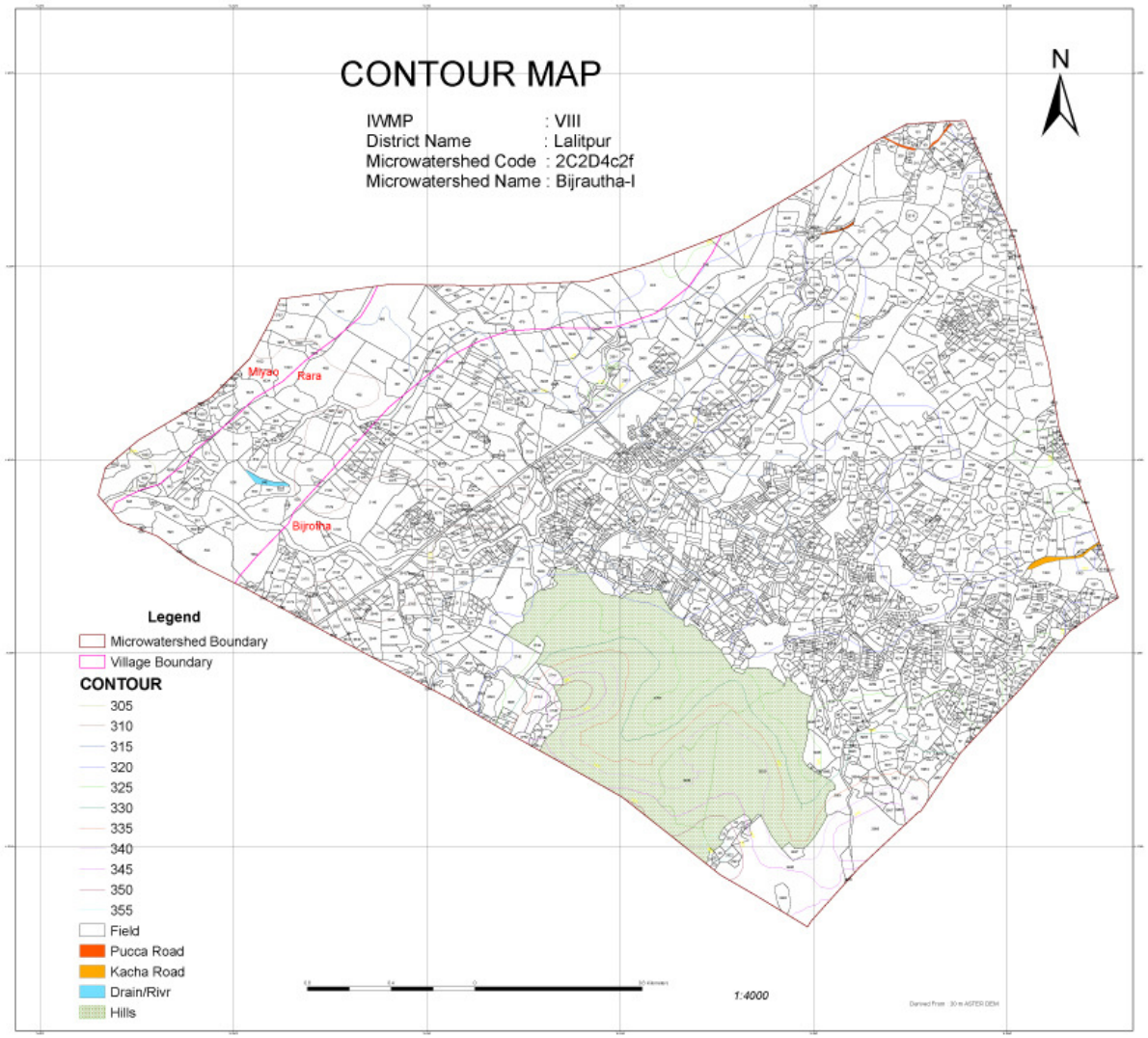

LANDUSE MAP
N
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4c2e
Microwatershed Name : Bijrutha-II
Miyao
Rajpur
Rara
Bijrotha
Talbehat Range
Lalaun
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Hills
0 0.4 0.8 1.6 Kilometers
1:4000

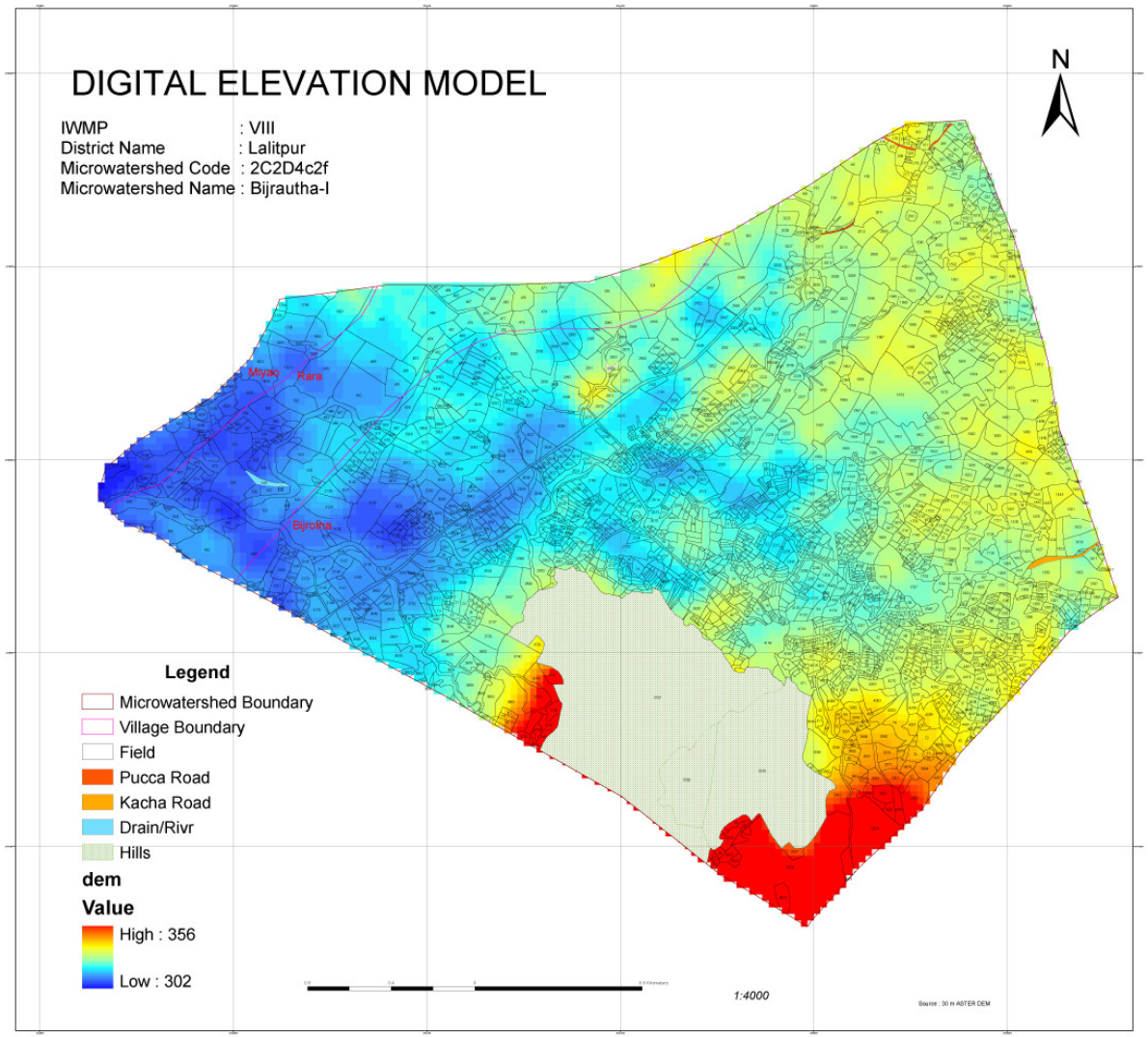

PROPOSED PLAN MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4c2e
Microwatershed Name : Bijrutha-II
N
Miyao
Rajpur
Raja
Bijrotha
Talbehat Range
Lalaun
Legend
PB
SB
CD
GP
WHB
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Hills
0 0.4 0.8 1.6 Kilometers
1:4000

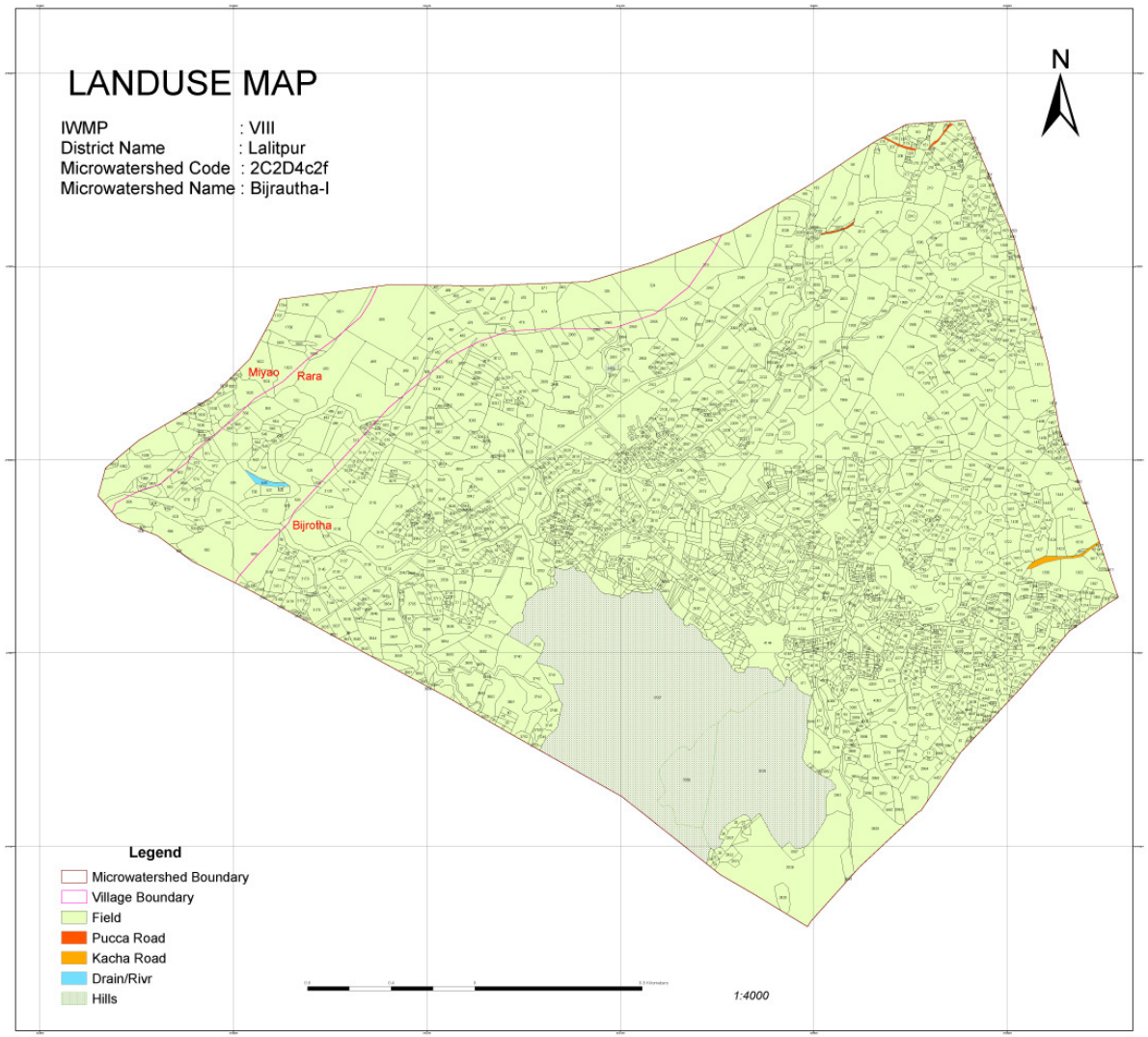

SLOPE MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4c2e
Microwatershed Name : Bijrutha-II
N
Miyao
Rajpur
Rara
Bijrotha
Talbehat Range
Lalaun
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Hills
slope
<VALUE>
0-0.5%
0.5-1%
1-3%
3-5%
>5%
0 0.4 0.8 1.6 Kilometers
1:4000

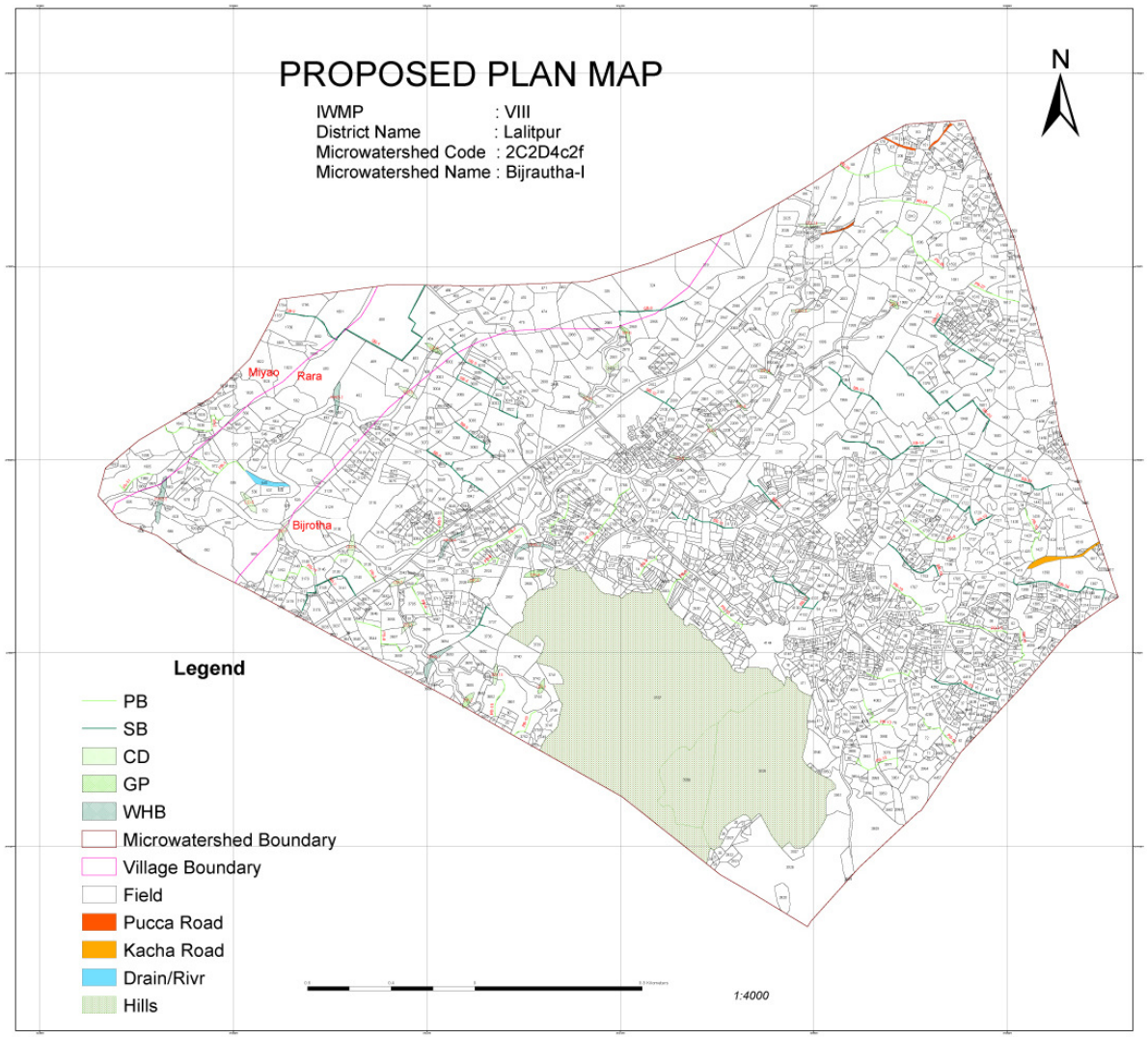

VILLAGE MAP
N
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4c2e
Microwatershed Name : Bijrutha-II
Miyao
Rajpur
Rara
Bijrotha
Talbehat Range
Lalaun
Legend
Microwatershed Boundary
Village Boundary
Bijrotha
Lalaun
Miyao
Rajpur
Rara
Talbehat Range
0 0.4 0.8 1.6 Kilometers
1:4000

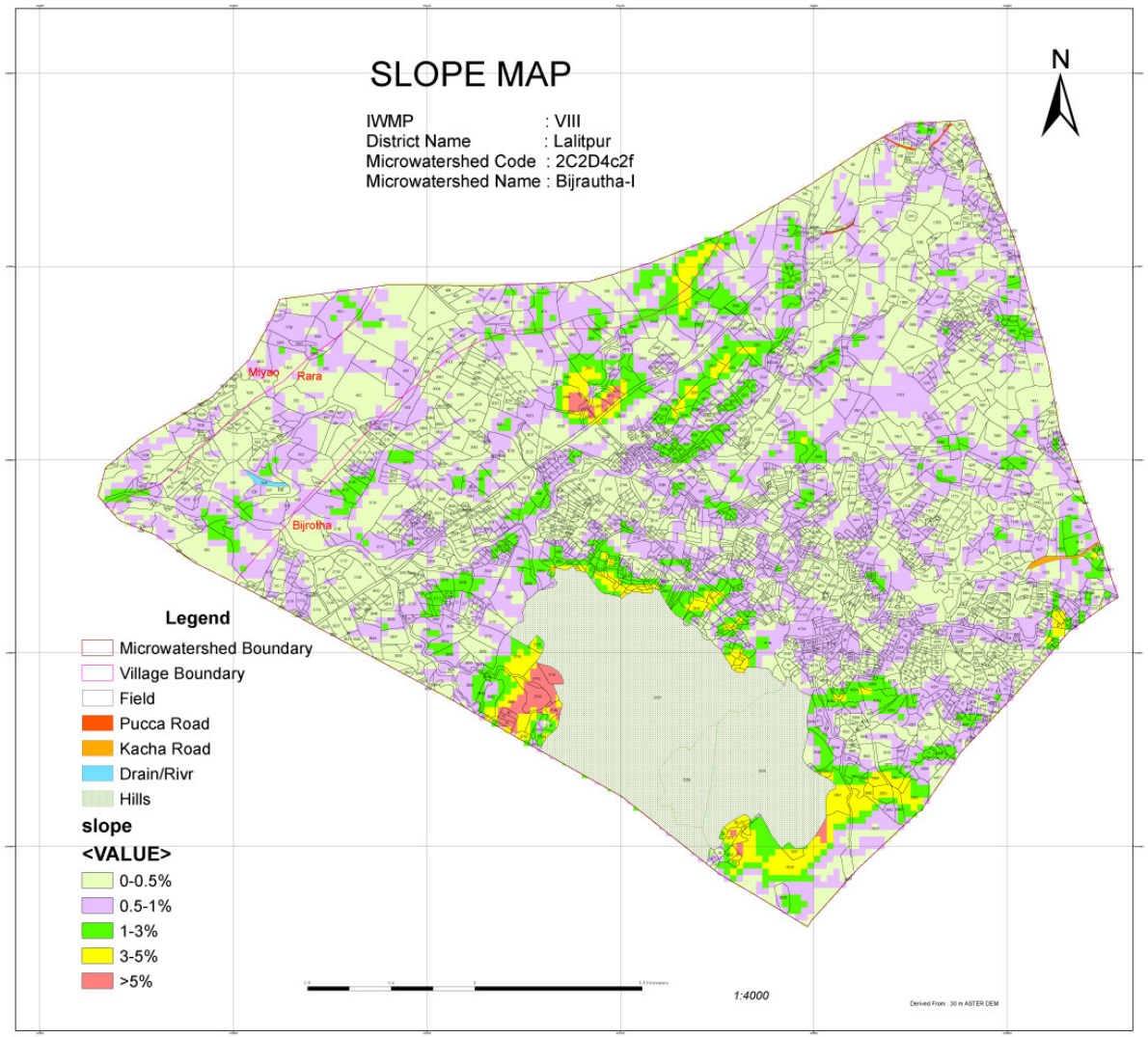

CADASTRAL MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4c2f
Microwatershed Name : Bijrautha-I
N
Miyao
Rara
Bijrotha
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Hills
1:4000

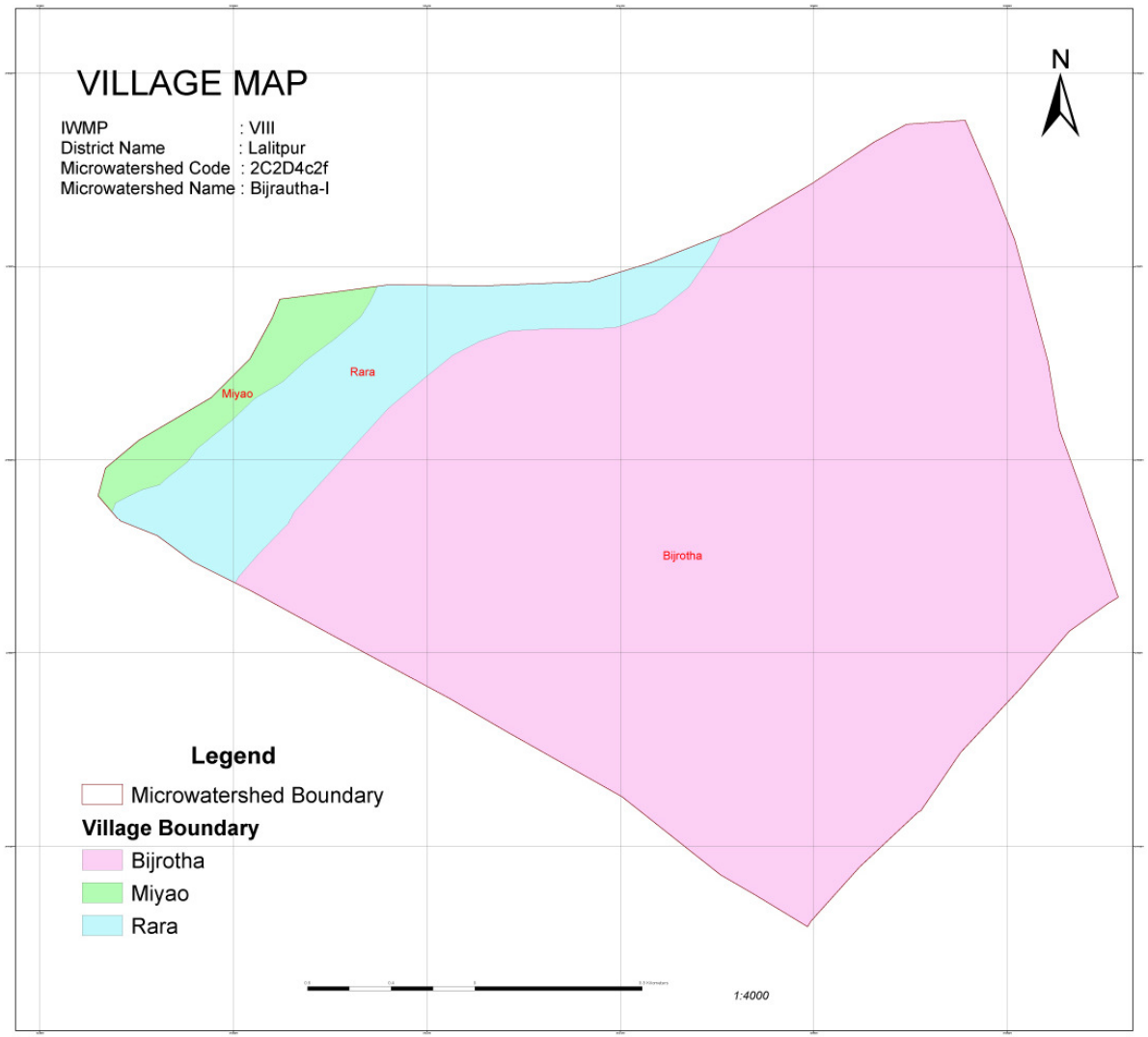

CONTOUR MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4c2f
Microwatershed Name : Bijrautha-I
N
Miyao
Rara
Bijrotha
Legend
Microwatershed Boundary
Village Boundary
CONTOUR
305
310
315
320
325
330
335
340
345
350
355
Field
Pucca Road
Kacha Road
Drain/Rivr
Hills
1:4000

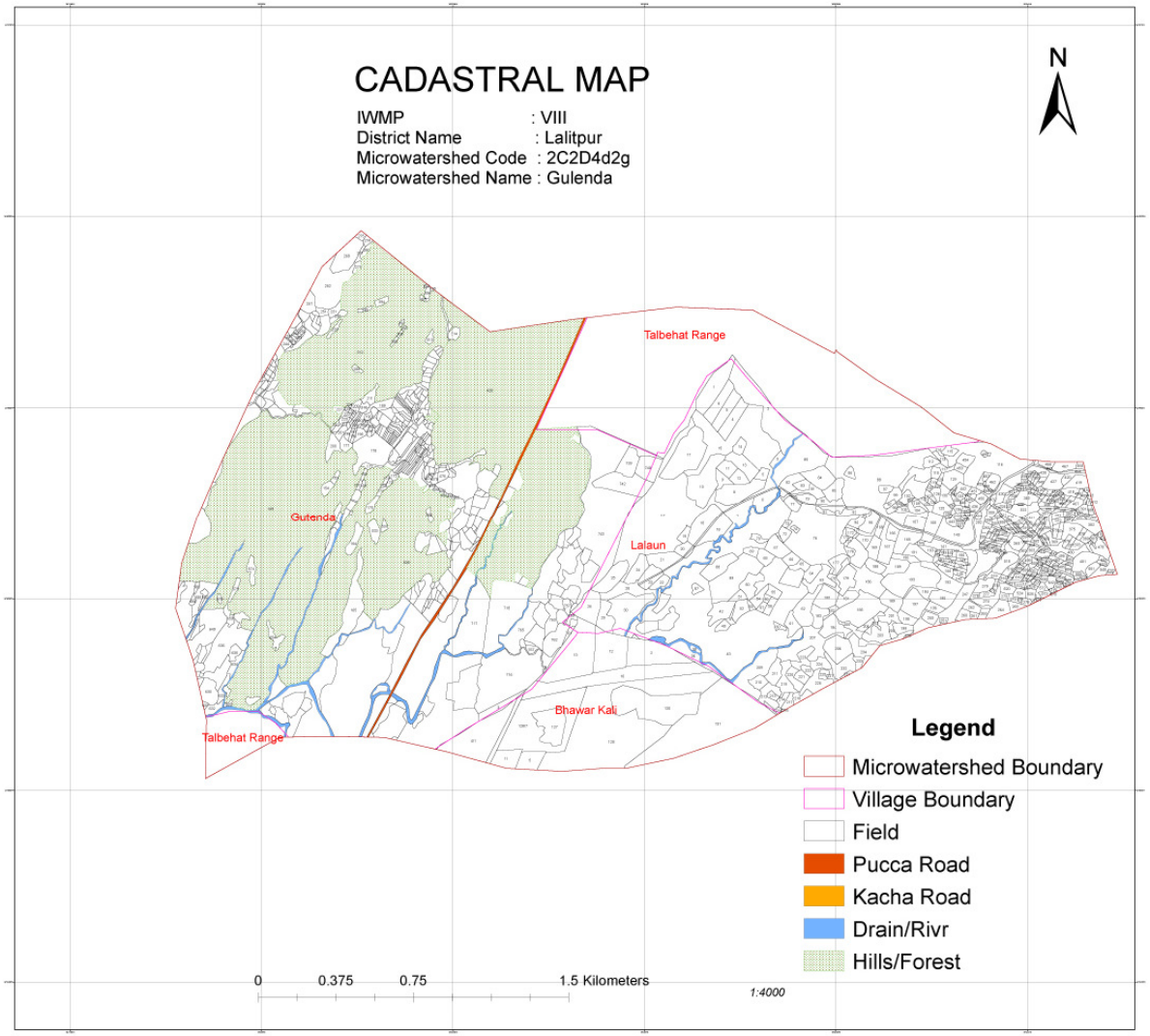

DIGITAL ELEVATION MODEL
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4c2f
Microwatershed Name : Bijrautha-I
N
Miyao
Kara
Bijrotha
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Hills
dem
Value
High : 356
Low : 302
1:4000
Source : 30 m ASTER DEM

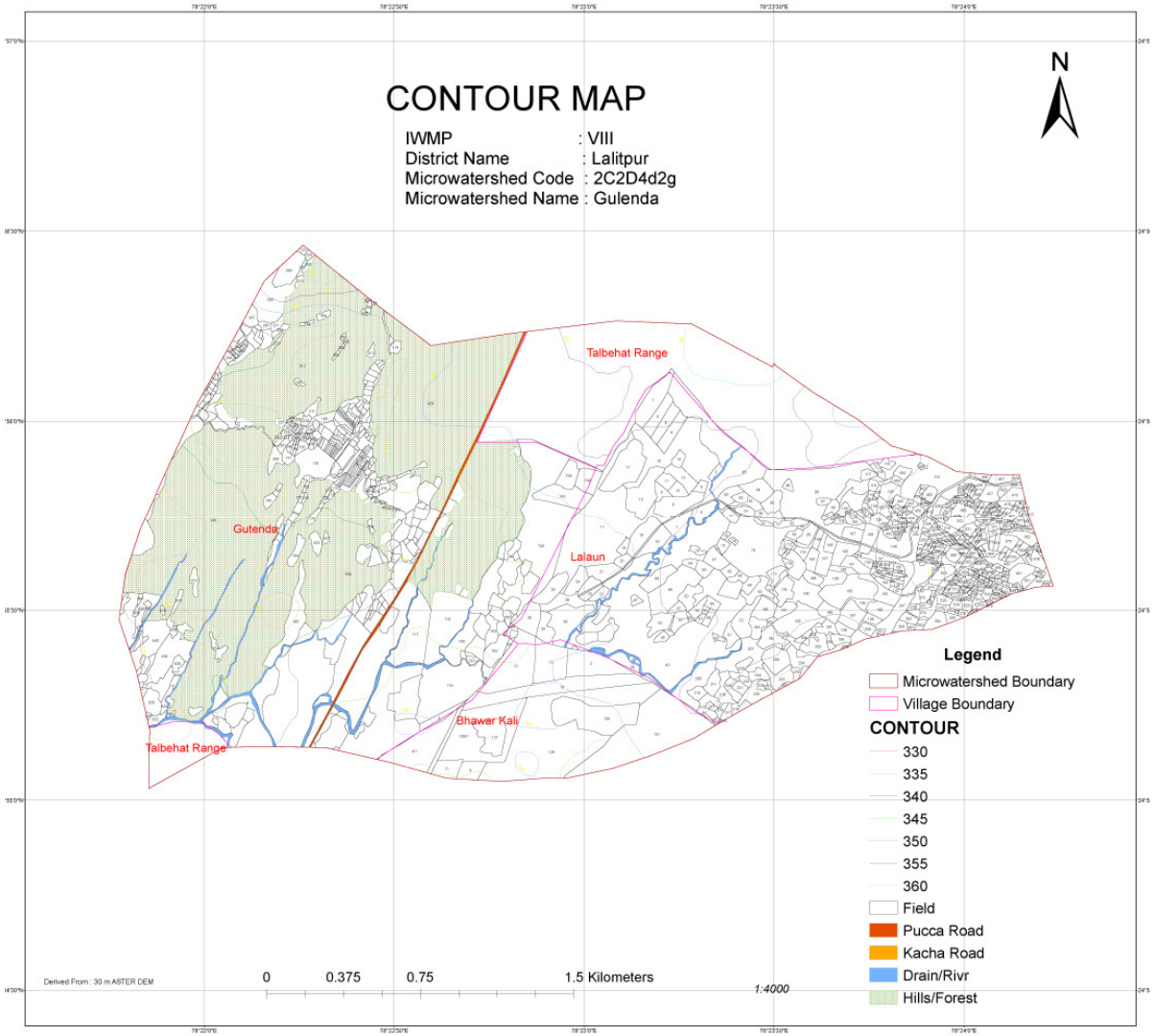

LANDUSE MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4c2f
Microwatershed Name : Bijrautha-I
N
Miyao
Rara
Bijrotha
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Hills
1:4000

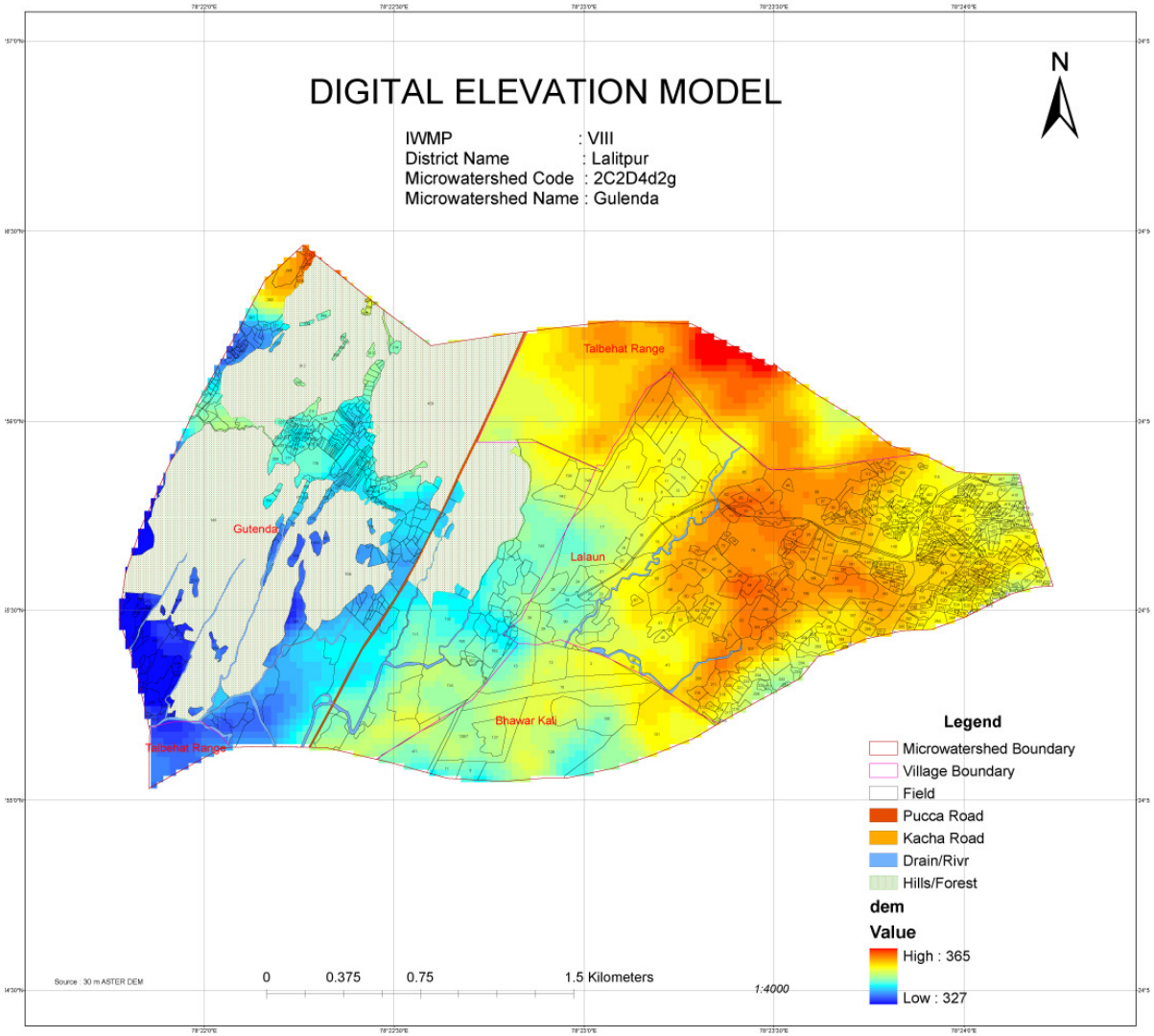

PROPOSED PLAN MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4c2f
Microwatershed Name : Bijrautha-I
N
Miyao
Rara
Bijrotha
Legend
PB
SB
CD
GP
WHB
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Hills
1:4000

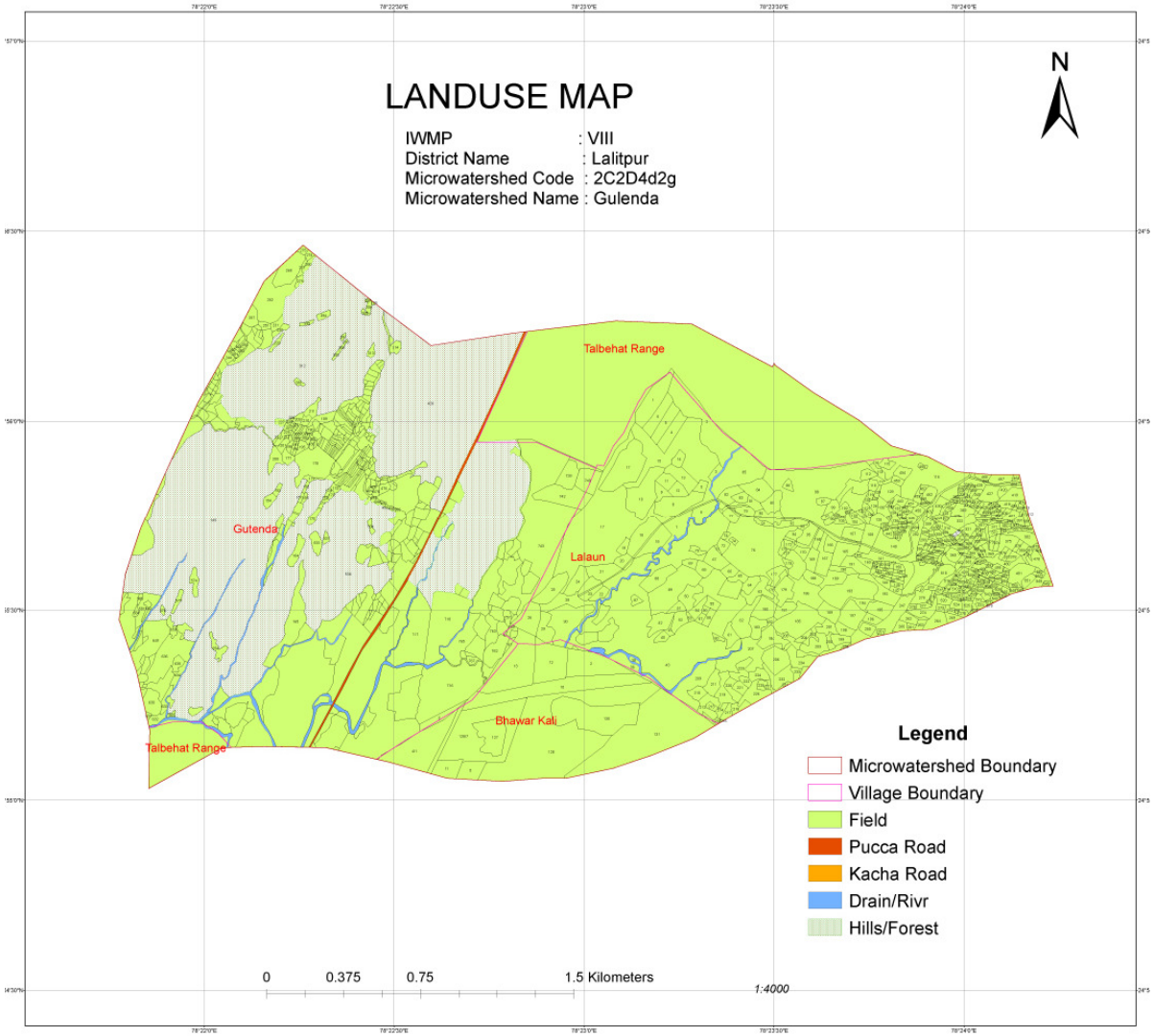

SLOPE MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4c2f
Microwatershed Name : Bijrautha-I
N
Miyao
Rara
Bijrotha
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Hills
slope
<VALUE>
0-0.5%
0.5-1%
1-3%
3-5%
>5%
1:4000
Derived From : 30 m ASTER DEM

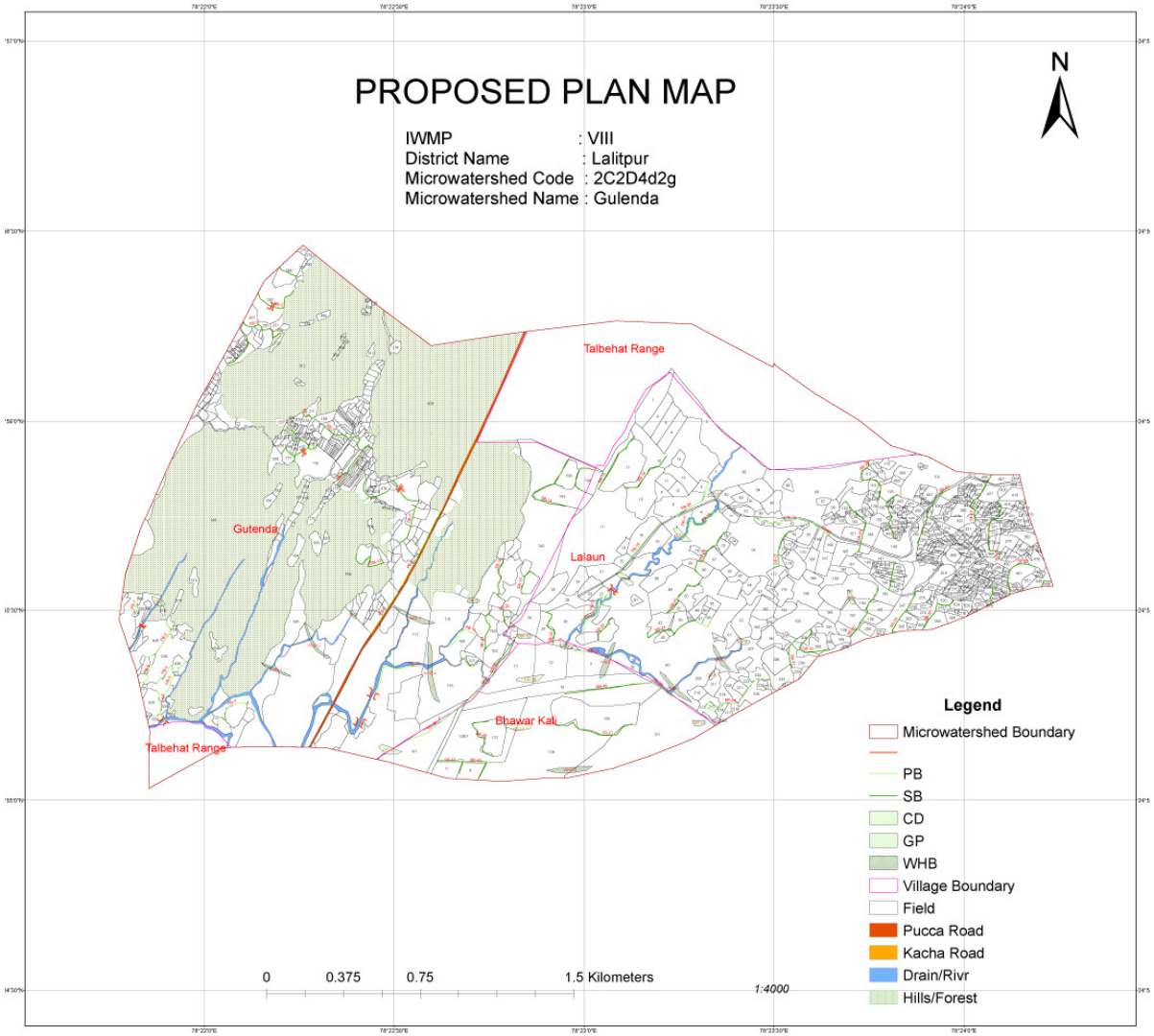

VILLAGE MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4c2f
Microwatershed Name : Bijrautha-I
N
Miyao
Rara
Bijrotha
Legend
Microwatershed Boundary
Village Boundary
Bijrotha
Miyao
Rara
1:4000

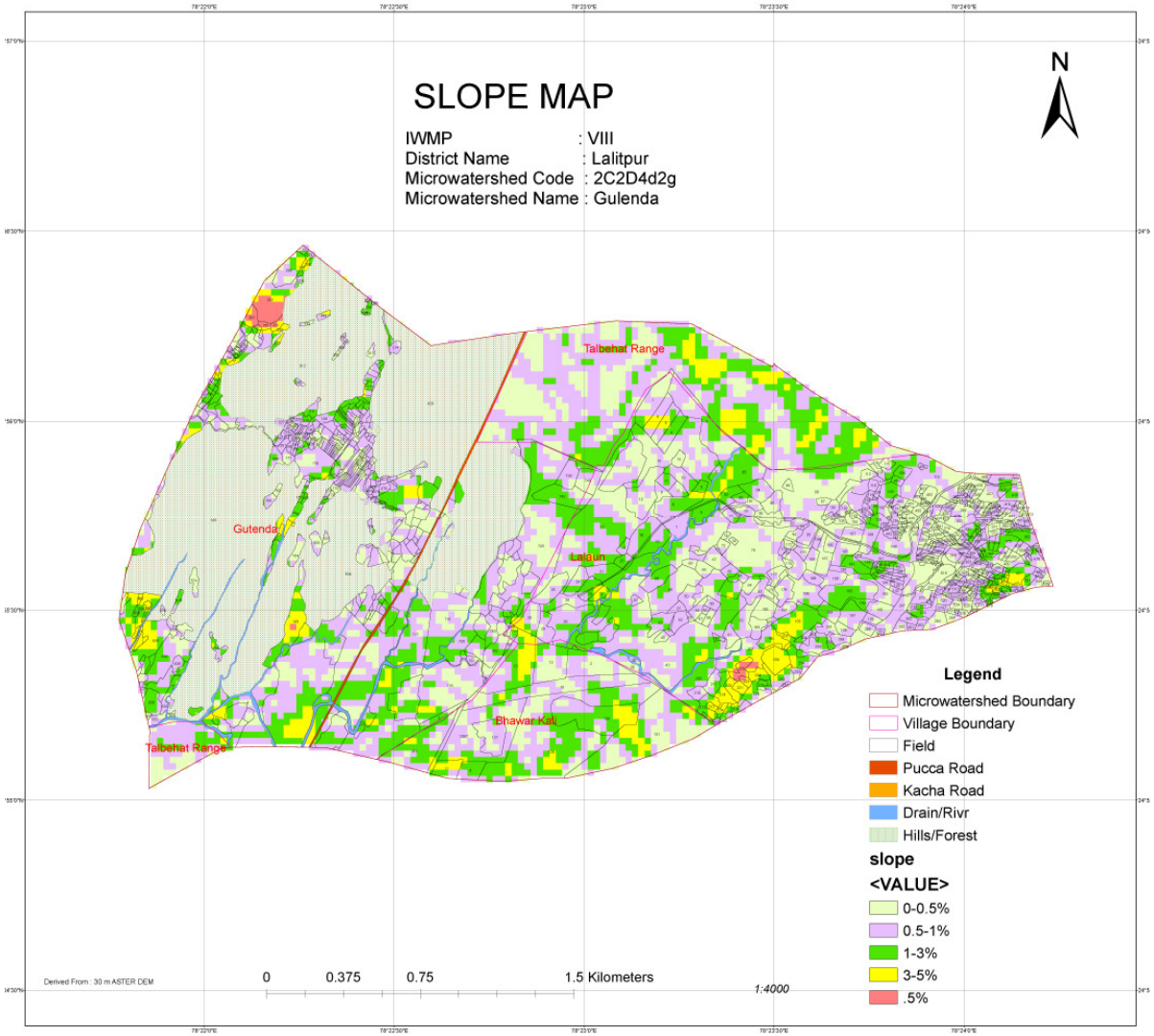

CADASTRAL MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4d2g
Microwatershed Name : Gulenda
N
Talbehat Range
Gulenda
Lalaun
Bhawar Kali
Talbehat Range
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Hills/Forest
0
0.375
0.75
1.5 Kilometers
1:4000

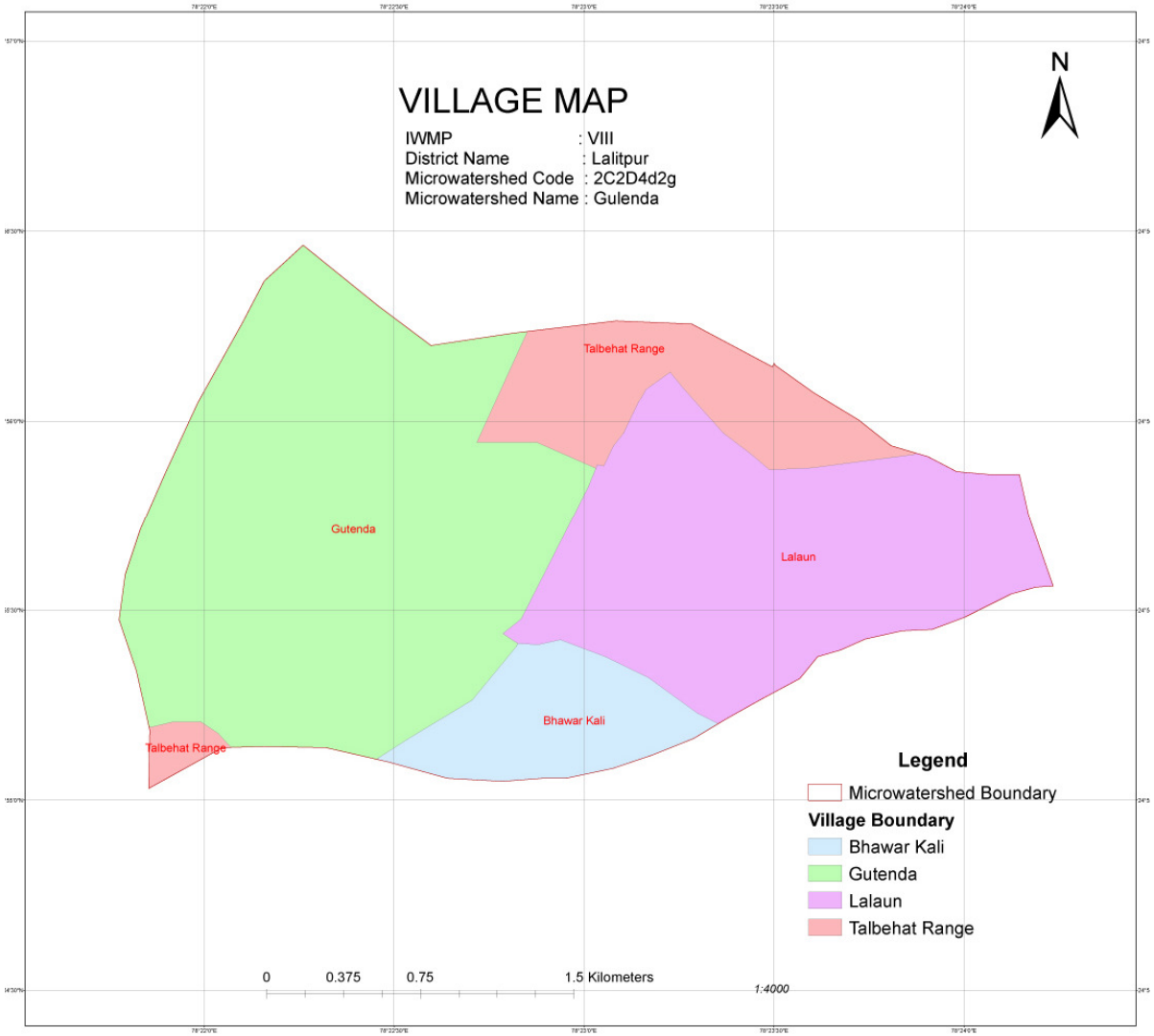

CONTOUR MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4d2g
Microwatershed Name : Gulenda
N
Talbehat Range
Gutenda
Lalaun
Bhawar Kali
Talbehat Range
Legend
Microwatershed Boundary
Village Boundary
CONTOUR
330
335
340
345
350
355
360
Field
Pucca Road
Kacha Road
Drain/Rivr
Hills/Forest
Derived From : 30 m ASTER DEM
0
0.375
0.75
1.5 Kilometers
1:4000


DIGITAL ELEVATION MODEL
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4d2g
Microwatershed Name : Gulenda
N
Talbehat Range
Gutenda
Lalaun
Bhawar Kali
Talbehat Range
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Hills/Forest
dem
Value
High : 365
Low : 327
Source : 30 m ASTER DEM
0
0.375
0.75
1.5 Kilometers
1:4000


LANDUSE MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4d2g
Microwatershed Name : Gulenda
N
Talbehat Range
Gutenda
Lalaun
Bhawar Kali
Talbehat Range
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Hills/Forest
0 0.375 0.75 1.5 Kilometers
1:4000


PROPOSED PLAN MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4d2g
Microwatershed Name : Gulenda
N
Talbehat Range
Gutenda
Lalaun
Bhawar Kali
Talbehat Range
Legend
Microwatershed Boundary
PB
SB
CD
GP
WHB
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Hills/Forest
0
0.375
0.75
1.5 Kilometers
1:4000


SLOPE MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4d2g
Microwatershed Name : Gulenda
N
Talbehat Range
Gutenda
Lalitpur
Bhawar Kalan
Talbehat Range
Legend
Microwatershed Boundary
Village Boundary
Field
Pucca Road
Kacha Road
Drain/Rivr
Hills/Forest
slope
<VALUE>
0-0.5%
0.5-1%
1-3%
3-5%
.5%
Derived From : 30 m ASTER DEM
0 0.375 0.75 1.5 Kilometers
1:4000


VILLAGE MAP
IWMP : VIII
District Name : Lalitpur
Microwatershed Code : 2C2D4d2g
Microwatershed Name : Gulenda
N
Talbehat Range
Gutenda
Lalaun
Bhawar Kali
Talbehat Range
Legend
Microwatershed Boundary
Village Boundary
Bhawar Kali
Gutenda
Lalaun
Talbehat Range
0 0.375 0.75 1.5 Kilometers
1:4000