

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 Banda district, Deptt. of Agriculture, Uttar Pradesh is given in following Tables 1.1 and 1.2.

Table 1.1: Status of watershed programme

Details	No.	District- Mahoba
Area (ha.)		
Total Micro watersheds in the district	634	446000
Workable Micro Watersheds	590	415061
Micro Watersheds already treated (partially) by Deptt of Agriculture, Dist.- Banda Uttar Pradesh	44	30939
Micro Watersheds (MWS) available for treatment (beginning IWMP in the district)	78	47400

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

Year	Project	MWS	Area (Treatable) (ha)	Project Cost (Rs. Lakh)	Name of PIA	District- Banda	Date of Sanction by S.C. Got. Of India
2011-12	IWMP-X	6	4835	580.2	BSA (Agri), Banda-I		26.09.2011
2011-12	IWMP-XI	10	3727	447.24	BSA (Agri), Banda-I		-do-
2011-12	IWMP-XIII	9	5538	664.56	BSA (Agri), Rastriya Jalagam, Banda		-do-
2011-12	IWMP-XV	8	4436	532.32	BSA (Agri), Banda-I		-do-
2011-12	IWMP-XVI	8	4436	532.32	BSA (Agri), Rastriya Jalagam, Banda		-do-
Total		87	34277.90	4376.86			

1.1 Project Background

Integrated Watershed Management Programme-XIII comprises nine micro-watersheds: Simoni (2C1A7j1a), Bagehata (2C1A7j1b), Hardoulee (2C1A7j1g), Baghela (2C1A7k2c) Patvan (2C1A7k1c) Bhadavari (2C1A7k2d), Bhatouli (2C1A7m1e), Baghnra (2C1A7m2c) and Murwal (2C1A7m2e). Watershed project is situated in Baberu block of district Banda and spread over in 22 villages of 13 gram panchayat. The total geographical area of the IWMP-XIII is 7905.77 ha due to same area treated earlier however treatable area limited to 5538.00 ha is treatable under Integrated Watershed Management Programme (IWMP-XIII).

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

Watershed project	Micro Watersheds (MWS) detail	Micro watersheds code	Treatable Area (ha)	Treatede Area (ha)	Name of Watershed in which MWS is falling (River / Nala name)
IWMP-XIII	Simoni	2C1A7j1a	381.00	110.29	Yamuna River
	Bagehata	2C1A7j1b	567.00	159.74	-do-
	Hardoulee	2C1A7j1g	518.00	151.62	-do-
	Baghela	2C1A7k2c	661.00	29.81	-do-
	Patvan	2C1A7k1c	542.00	308.55	-do-
	Bhadavari	2C1A7k2d	1163.00	344.08	-do-
	Bhatouli	2C1A7m1e	610.00	174.49	-do-
	Baghnra	2C1A7m2c	504.00	139.44	-do-
	Murwal	2C1A7m2e	592.00	159.17	-do-
Total			5538.00	1577.19	

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

1.2 Need and Scope for Watershed Development

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

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

1.3 Weightage for selection of Watershed

Watershed project was selected on the basis of criteria mentioned in Table 1.2 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 81.71 per cent (Table 1.3).

Table 1.4: Criteria and weightage for selection of watershed

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

			above 50% (15)	25 to 50% (10)	less than 10 – 25 % (5)	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 1.5: Weightage of the project

S. No.	Criteria	Weightage points
1	Drinking water	5
2	Irrigation	10
3	Degree of soil erosion	10
4	Water holding capacity	10
5	Area under rainfed agriculture	10
6	Status of field bund/contour bund / graded bund	10
7	Presence of hard rock below the land	10
8	Options for livelihood	10
9	% of small and marginal farmers	10
10	Degraded land	10
11	Ground water status	10
12	Status of Technical Knowledge for improved farming systems	7.5
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)		167.5
Weightage Percentage		81.71

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

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-XIII is located in Baberu block of Banda district. It is about 36 km. from Banda to Baberu 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 7905.77 ha, out of which 5538.00 ha is treatable. The geographical area of micro-watershed varied between of 545.88 to 1674.53 ha.

Table 2.1: Micro-watershed wise details of villages and geographical area of IWMP-XIII

Sl. No.	Name of micro watershed with Code	Names of villages	Longitude	Latitude	Name of Block	Area of village included in MWS(Geographic al)	Details of important /approach road with distance km
1	Simoni 2C1A7j1a	Simounee, Tola Kalan, Amar Ganj	80° 36' 30.0"- 80° 38' 30.0"	25° 34' 30.0"- 25° 36' 30.0"	Baberu	545.88	Banda to Baberu road
2	Bagehata 2C1A7j1b	Bagehata, Simounee, Tola Kalan	80° 36' 0.0"- 80° 38' 30.0"	25° 33' 0.0"- 25° 35' 0.0"	Baberu	807.49	-do-
3	Hardoulee 2C1A7j1g	Hardoulee, Byonja, Tola Kalan	80° 37' 30.0"- 80° 40' 0.0"	25° 34' 0.0"- 25° 36' 30.0"	Baberu	744.02	-do-
4	Baghela 2C1A7k2c	Baghela, Byonja, Bhabvari, Patvan, Tola Kalan	80° 38' 30.0"- 80° 41' 0.0"	25° 33' 0.0"- 25° 37' 30.0"	Baberu	767.57	-do-
5	Patvan 2C1A7k1c	Patvan	80° 40' 30.0"- 80° 42' 30.0"	25° 35' 30.0"- 25° 38' 0.0"	Baberu	945.06	-do-
6	Bhadavari 2C1A7k2d	Hardoulee, Byonja, Bhabvari, Patvan, Baberu Dehat	80° 34' 0.0"- 80° 36' 0.0"	25° 33' 0.0"- 25° 35' 30.0"	Baberu	1674.53	-do-
7	Bhatouli	Bhatoulee,	80° 40' 0.0"- 80° 42'	25° 33' 30.0"- 25°	Baberu	871.66	-do-

	2C1A7m1e	Anousa, Samara Ghat, Pandaree	30.0"	36' 0.0"			
8	Baghnra 2C1A7m2c	Baghanda, Ragoulee, Anousa, Kelahanuva, Maduva, Bhatoulee	80° 32' 0.0"- 80° 34' 0.0"	25° 31' 30.0"- 25° 33' 30.0"	Baberu	714.93	-do-
9	Kalhnuva 2C1A7m2e	Murwal, Reval, Baghanda	80° 33' 0.0"- 80° 35' 0.0"	25° 32' 30.0"- 25° 34' 30.0"	Baberu	834.63	-do-
	Total					7905.77	

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

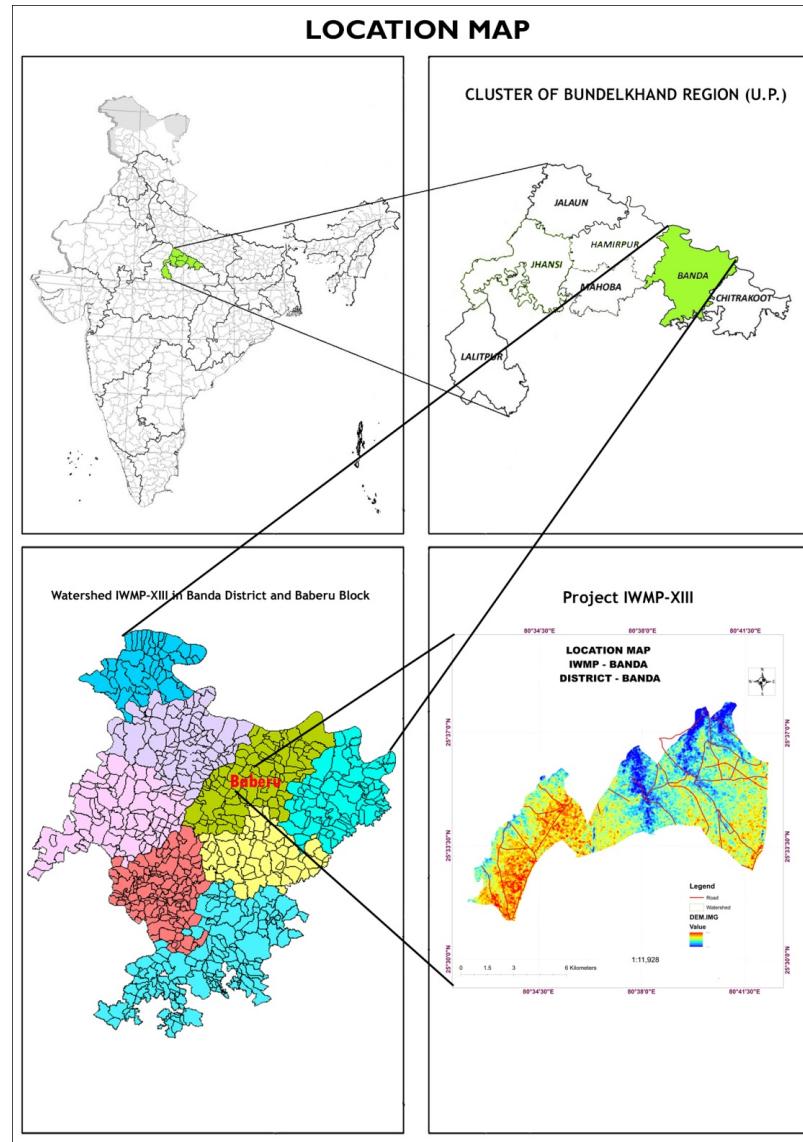


Fig 2.1 Location map IWMP-XIII

2.2 Area and Landuse: Each micro-watershed covers partially or fully lands of many village. Details of various categories of land were estimated on the basis of villages, MWS area, PRA meetings and other source such as village meetings. Village wise detailed information on type of land is depicted in Table 2.2. The total culturable land of the project is 5090.36 ha, out of which 1207.61 (22.00%) ha land is under assured irrigation mainly by means of open shallow dug wells. The cultivable rainfed, temporary and permanent wastelands are about 73.00, 4.00 and 1.00 per cent, respectively, of culturable land of the project.

Table 2.2: Details of land resources in IWMP-XIII of Banda district

Sl . N o.	Name of MWS with code	Name of Village	Cultiva ted rainfed area	Cultiva ted irrigate d area	Uncultivated wasteland/ fallow		Pvt. Agri. Land				For est Lan d	Commu nity land	Other s	Total area (ha)
					Tem p.	Perma nent	Gen	SC	OBC	Total				
1	Simoni 2C1A7j1a	Simounee, Tola Kalan, Amar Ganj	358.64	108.084	18.6 7	5.90	88.43	103.1 7	299.6 9	491.2 9	0.00	21.84	32.75	545.88
2	Bagehata 2C1A7j1b	Bagehata, Simounee, Tola Kalan	530.52	159.883	27.6 2	8.72	130.8 1	152.6 2	443.3 1	726.7 4	0.00	32.30	48.45	807.49
3	Hardoulee 2C1A7j1g	Hardoulee, Byonja, Tola Kalan	488.82	147.316	25.4 5	8.04	120.5 3	140.6 2	408.4 7	669.6 2	0.00	52.08	22.32	744.02
4	Baghela 2C1A7k2c	Baghela, Byonja, Bhabvari, Patvan, Tola Kalan	504.29	151.979	26.2 5	8.29	124.3 5	145.0 7	421.4 0	690.8 1	0.00	53.73	23.03	767.57
5	Patvan 2C1A7k1c	Patvan	620.90	187.122	32.3 2	10.21	153.1 0	178.6 2	518.8 4	850.5 5	0.00	66.15	28.35	945.06
6	Bhadavari 2C1A7k2d	Hardoulee, Byonja, Bhabvari,	1100.17	331.557	57.2 7	18.08	271.2 7	316.4 9	919.3 2	1507. 08	0.00	117.22	50.24	1674.53

		Patvan, Baberu Dehat												
7	Bhatouli 2C1A7m1e	Bhatoulee, Anousa, Samara Ghat, Pandaree	572.68	172.589	29.8 1	9.41	141.2 1	164.7 4	478.5 4	784.4 9	0.00	61.02	26.15	871.66
8	Baghnra 2C1A7m2c	Baghanda, Ragoulee, Anousa, Kelaunuva, Maduva, Bhatoulee	469.71	141.556	24.4 5	7.72	115.8 2	135.1 2	392.5 0	643.4 4	0.00	50.05	21.45	714.93
9	Kalhnuva 2C1A7m2e	Murwal, Reval, Baghanda	548.35	165.257	28.5 4	9.01	135.2 1	157.7 5	458.2 1	751.1 7	0.00	58.42	25.04	834.63
	Total		4007.07	1207.61	219. 57	54.89	988.0 4	1152. 72	3348. 37	5489. 14	0.00	129.24	422.62	7905.77

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

2.3 Physiography

The micro-watersheds of IWMP-XIII is situated at an elevation of some 79 to 144 m above mean sea level and has relief from 36 to 53 m. General topography of the watershed is mild to gentle.

Name of MWS	Maximum (m)	Minimum (m)	Relief (m)
Simoni 2C1A7j1a	124	79	45
Bagehata 2C1A7j1b	127	83	44
Hardoulee 2C1A7j1g	124	88	36
Baghela 2C1A7k2c	123	81	42
Patvan 2C1A7k1c	126	84	42
Bhadavari 2C1A7k2d	131	88	43

Bhatouli 2C1A7m1e	132	79	53
Baghnra 2C1A7m2c	144	96	48
Kalhnuva 2C1A7m2e	131	96	35

Source:Aster DEM 30m

Slope: Spatial distribution of different slope classes was prepared using Arc GIS. Slope was divided into five classes' viz. 0-0.5, 0.5-1.0, 1-3, 3-5, and more than 5 per cent. The dominant slope category in the project were 1-3 per cent (72%) followed by 3-5 per cent (10%).

2.4 Climate

The annual rainfall of the Bundelkhand region varies from 800 to 1300 mm, about 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.

The climate of Banda 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 2.4: Average monthly rainfall and temperature at IWMP-XIII, Banda, U.P.

Month	Rainfall in mm.					Temperature °c	
	2007	2008	2009	2010	2011	Max.	Min.
January	0.0	-	0.0	13.7	0.3	6.5	3.5
February	93.9	-	0.0	37.0	9.8	11.2	8.4
March	41.2	0.0	-	0.0	0.0	32.8	21.6
April	0.0	0.0	-	0.0	0.0	38.4	29.7
May	0.0	16.1	47.0	1.7	38.5	45.4	34.2
June	36.0	121	544	7.1	218	47.2	35.1
July	144.5	444.2	143.1	243.4	245.1	46.4	33.6
August	186.7	193.9	194.0	168.7	316.2	42.3	31.7
September	93.9	66.0	178.1	167.9	146.6	37.4	29.2
October	0.0	6.0	74.5	7.3	0.0	34.7	28.5
November	0.0	9.7	16.3	22.2	0.0	31.4	19.8
December	0.0	0.0	8.7	0.5	0.0	24.4	9.3

Source: India Meteorological Department (IMD), Pune.

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

Table 2.5: Details of flood and drought in the project area (IWMP-XIII, Banda) Project IWMP-XIII

Name of Micro Watershed	Particulars	Villages	Periodicity		Not affected
			Annual	Any other (please specify)	
Simoni Bagehata Hardoulee Baghela Patvan Bhadavari Bhatouli Baghnra Kalnuva	Flood	No. of villages:22	NA	NA	NA
		Name(s) of villages	NA	NA	NA
	Drought	No. of villages- 22 Name of Village: Simounee, Tola Kalan, Amar Ganj, Bagehata, Hardoulee, Byonja, Baghela, Bhabvari, Patvan, Baberu Dehat, Bhatoulee, Anousa, Samara Ghat, Pandaree, Baghanda, Ragoulee, Kelahanuva, Maduva, Bhatoulee, Murwal, Reval	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		

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

CHAPTER – 3

BASELINE SURVEY AND PARTICIPATORY RURAL APPRAISAL

Participatory rural appraisal (PRA) is a tool to appraise the socio-economic conditions along with all kind of resources available in the watershed through the active participation of the villagers. There are several tools and techniques of PRA. The PRA including house hold survey of Simoni, Bagehata, Hardoulee, Baghela, Patvan, Bhadvari, Bhatouli, Baghnra and Murwal micro-watershed was conducted by PIA and described in the subsequent sections.

3.1. Social-Economic Analysis

About 21 per cent of the population is scheduled caste. Population details of the IWMP-XIII are given in Table 3.1. In general 8.00 per cent population migrate from the project area due to drought and earn livelihood, however, migration was more than 50 per cent during 2007-08 due to continuous drought from 2004 to 2007 in the region. Majority of population migrate to New Delhi, Haryana and Punjab during drought year. The scenario of migration, infrastructure and common properties resources available in the project was analyzed through house hold survey and is presented in Table 3.2, 3.3 and 3.4, respectively.

Table 3.1: Demographic Features in the project area (IWMP-XIII, Banda)

Sr. No.	Name of Micro Watershed	Name of village	Total Population			Population of SC/ST		
			Total	Male	Female	Total	Male	Female
1	Simoni 2C1A7j1a	Simounee, Tola Kalan, Amar Ganj	1031	536	495	216	112	104
2	Bagehata 2C1A7j1b	Bagehata, Simounee, Tola Kalan	1527	794	733	320	166	154
3	Hardoulee 2C1A7j1g	Hardoulee, Byonja, Tola Kalan	1407	732	675	294	153	141
4	Baghela 2C1A7k2c	Baghela, Byonja, Bhabvari, Patvan, Tola Kalan	1451	755	696	304	158	146
5	Patvan 2C1A7k1c	Patvan	1787	929	858	375	195	180
6	Bhadvari 2C1A7k2d	Hardoulee, Byonja, Bhabvari, Patvan, Baberu Dehat	3171	1649	1522	665	346	319

7	Bhatouli 2C1A7m1e	Bhatoulee, Anousa, Samara Ghat, Pandaree	1647	856	791	345	179	166
8	Baghnra 2C1A7m2c	Baghanda, Ragoulee, Anousa, Kelahanuva, Maduva, Bhatoulee	1351	703	648	283	147	136
9	Kalhnuva 2C1A7m2e	Murwal, Reval, Baghanda	1579	821	758	331	172	159
	Total		14951	7775	7176	3133	1628	1505

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

Table 3.2: Details of land holding pattern in IWMP-XIII, Banda

Sr. No.	Names MWS with code	Type of Farmer	No. of households	No. of BPL households	Land holding (ha)		
					Irrigated	Rainfed	Total
1	Simoni 2C1A7j1a	(i) Big (above 4 ha.)	25	-	58.37	46.63	105.00
		(ii) Medium (2-4 ha.)	83	-	36.75	145.85	182.60
		(iii) Small (1-2 ha.)	130	13	12.97	130.03	143.00
		(iv) Marginal (0-1ha.)	154	131	-	60.69	60.69
		(v) Landless	13	13	-	-	-
		Total	405	157	108.08	383.21	491.29
2	Bagehata 2C1A7j1b	(i) Big (above 4 ha.)	40	-	86.34	81.66	168.00
		(ii) Medium (2-4 ha.)	130	-	54.36	231.64	286.00
		(iii) Small (1-2 ha.)	160	11	19.19	156.81	176.00
		(iv) Marginal (0-1ha.)	255	75	-	96.74	96.74
		(v) Landless	20	20	-	-	-
		Total	605	106	159.88	566.86	726.74
3	Hardoulee 2C1A7j1g	(i) Big (above 4 ha.)	38	-	79.55	80.05	159.60
		(ii) Medium (2-4 ha.)	120	-	50.09	213.91	264.00

		(iii) Small (1-2 ha.)	160	13	17.68	158.32	176.00
		(iv) Marginal (0-1ha.)	217	68	-	70.02	70.02
		(v) Landless	20	20	-	-	-
		Total	555	101	147.32	522.30	669.62
4	Baghela 2C1A7k2c	(i) Big (above 4 ha.)	39	-	82.07	81.73	163.80
		(ii) Medium (2-4 ha.)	125	-	51.67	223.33	275.00
		(iii) Small (1-2 ha.)	161	15	18.24	158.86	177.10
		(iv) Marginal (0-1ha.)	229	70	-	74.91	74.91
		(v) Landless	21	21	-	-	-
		Total	575	106	151.98	538.83	690.81
5	Patvan 2C1A7k1c	(i) Big (above 4 ha.)	45	-	101.05	87.95	189.00
		(ii) Medium (2-4 ha.)	150	-	63.62	266.38	330.00
		(iii) Small (1-2 ha.)	190	18	22.45	186.55	209.00
		(iv) Marginal (0-1ha.)	295	94	-	122.55	122.55
		(v) Landless	25	25	-	-	-
		Total	705	137	187.12	663.43	850.55
6	Bhadavari 2C1A7k2d	(i) Big (above 4 ha.)	80	-	179.04	156.96	336.00
		(ii) Medium (2-4 ha.)	240	-	112.73	415.27	528.00
		(iii) Small (1-2 ha.)	320	22	39.79	312.21	352.00
		(iv) Marginal (0-1ha.)	570	485	-	291.08	291.08
		(v) Landless	40	40	-	-	-
		Total	1250	547	331.56	1175.52	1507.08
7	Bhatouli 2C1A7m1e	(i) Big (above 4 ha.)	42	-	93.20	83.20	176.40
		(ii) Medium (2-4 ha.)	125	-	58.68	216.32	275.00
		(iii) Small (1-2 ha.)	145	23	20.71	138.79	159.50
		(iv) Marginal (0-1ha.)	320	272	-	173.59	173.59
		(v) Landless	18	18	-	-	-
		Total	650	313	172.59	611.90	784.49
8	Baghnra 2C1A7m2c	(i) Big (above 4 ha.)	32	-	76.44	57.96	134.40
		(ii) Medium (2-4 ha.)	115	-	48.13	204.87	253.00
		(iii) Small (1-2 ha.)	145	15	16.99	142.51	159.50

		(iv) Marginal (0-1ha.)	227	193	-	96.54	96.54
		(v) Landless	16	16	-	-	-
		Total	535	223	141.56	501.88	643.44
9	Kalhnuva 2C1A7m2e	(i) Big (above 4 ha.)	37	-	89.24	66.16	155.40
		(ii) Medium (2-4 ha.)	135	-	56.19	240.81	297.00
		(iii) Small (1-2 ha.)	165	13	19.83	161.67	181.50
		(iv) Marginal (0-1ha.)	268	228	-	117.27	117.27
		(v) Landless	20	20	-	-	-
		Total	625	261	165.26	585.91	751.17
		Grand Total	5905	1951	1583.54	5562.15	7115.19

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

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

Sl. No.	Names of Watershed	Name of village	No. of persons migrating	No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs. in lakh)
1	Simoni 2C1A7j1a	Simounee, Tola Kalan, Amar Ganj	129	120-150	Drought / Earn money	700-1400 Km	Labour	0.25-0.40
2	Bagehata 2C1A7j1b	Bagehata, Simounee, Tola Kalan	193	120-150	-do-	700-1400 Km	Labour	0.25-0.40
3	Hardoulee 2C1A7j1g	Hardoulee, Byonja, Tola Kalan	177	120-150	-do-	700-1400 Km	Labour	0.25-0.40
4	Baghela 2C1A7k2c	Baghela, Byonja, Bhabvari, Patvan, Tola Kalan	184	120-150	-do-	700-1400 Km	Labour	0.25-0.40
5	Patvan 2C1A7k1c	Patvan	225	120-150	-do-	700-1400 Km	Labour	0.25-0.40

6	Bhadavari 2C1A7k2d	Hardoulee, Byonja, Bhabvari, Patvan, Baberu Dehat	400	120-150	-do-	700-1400 Km	Labour	0.25-0.40
7	Bhatouli 2C1A7m1e	Bhatoulee, Anousa, Samara Ghat, Pandaree	208	120-150	-do-	700-1400 Km	Labour	0.25-0.40
8	Baghnra 2C1A7m2c	Baghanda, Ragoulee, Anousa, Kelahanuva, Maduva, Bhatoulee	171	120-150	-do-	700-1400 Km	Labour	0.25-0.40
9	Kalhnuva 2C1A7m2e	Murwal, Reval, Baghanda	200	120-150	-do-	700-1400 Km	Labour	0.25-0.40
Total			1887					

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

Table 3.4: Details of infrastructure in IWMP-XIII, Banda

Name of Project	Parameters				Status				
IWMP XIII	(i)	Name of villages connected to the main road by an all-weather road				Baberu to Baberu road			
	(ii)	Village's Name provided with electricity				All villages			
	(iii)	No. of households without access to drinking water				About 5-10 per cent households depends on others' source of drinking water			
	(iv)	No. of educational institutions : Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)				(P) 14	(S) 04	(HS) 02	(VI) -
	(v)	Names of villages with access to Primary Health Centre				01			
	(vi)	Names of villages with access to Veterinary Dispensary				01			
	(vii)	Names of villages with access to Post Office				03			

(viii)	Names of villages with access to Banks	01			
(ix)	Names of villages with access to Markets/ mandis	N.A			
(x)	Names of villages with access to Agro-industries	N.A			
(xi)	Total quantity of surplus milk/ deficit	-			
(xii)	No. of milk collection centers (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U) -	(S) -	(PA) -	(O) 03
(xiii)	Name of villages with access to Anganwadi Centre	At each Gram Panchayat			
(xiv)	Community centre, Panchayat Ghar	Available			

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

Table 3.5: Details of common property resources In IWMP-XIII, Banda, U.P.

Names of Project	CPR Particulars	Total Area (ha) Area owned/ In possession of				Area available for treatment (ha)			
		Pvt. persons	Govt. Revenue	PRI	Any other (Pl. Specify)	Pvt. persons	Govt. (specify dept.)	PRI	Any other (Pl. Specify)
IWMP-XIII	(i) Wasteland/ degraded land	254.38	-	31.25	-	254.38	-	31.25	-
	(ii) Pastures	-	-	-	-	-	-	-	-
	(iii) Orchards	-	-	-	-	-	-	-	-
	(iv) Village Woodlot	34.56	-	18.42	-	34.56	-	18.42	-
	(v) Forest	-	-	-	-	-	-	-	-
	(vi) Village Ponds/ Tanks	-	-	10.36	-	-	-	-	-
	(vii) Community Buildings	-	-	36.24	-	-	-	-	-
	(viii) Weekly Markets	-	-	-	-	-	-	-	-
	(ix) Permanent markets	-	-	--	-	-	-	-	-
	(x) Temples/ Places of worship	-	-	21.36	-	-	-	-	-
	(xi) Habitat, Chakmarg, Sector, Road etc	-	210.0	-	-	-	-	-	-
Total		288.94	210.00	117.63	0.00	288.94	0.00	49.67	

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

3.2 Soil and Land Holding Pattern

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

Table 3.6: Details of Soil texture in IWMP-XIII, Banda

Sr. No.	MWS Project	Area in different Soil Group (ha)			Details
		Light textured soil (sand, loamy sand)	Medium textured soil (Sandy loam, loam, silt loam)	Heavy textured soil (Clayey)	
1	Simoni 2C1A7j1a	272.94	163.76	109.18	Purwa, Mar+kabar
2	Bagehata 2C1A7j1b	403.75	242.25	161.50	Purwa, Mar+kabar
3	Hardoulee 2C1A7j1g	372.01	223.21	148.80	Purwa, Mar+kabar
4	Baghela 2C1A7k2c	383.79	230.27	153.51	Purwa, Mar+kabar
5	Patvan 2C1A7k1c	472.53	283.52	189.01	Purwa, Mar+kabar
6	Bhadavari 2C1A7k2d	837.27	502.36	334.91	Purwa, Mar+kabar
7	Bhatouli 2C1A7m1e	435.83	261.50	174.33	Purwa, Mar+kabar
8	Baghnra 2C1A7m2c	357.47	214.48	142.99	Purwa, Mar+kabar
9	Kalhnuva 2C1A7m2e	417.32	250.39	166.93	Purwa, Mar+kabar
Total		3952.89	2371.73	1581.15	7905.77

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

3.3 Major Crops, its Productivity and Production

Micro-watershed wise grown crops, their productivity and production under irrigated and rainfed condition is given in Table 3.7. As far as productivity of cereals is concerned, it is significantly lower than the state and national average. Micro-watershed wise cropping intensity varied from 105.54 to 107.86 per cent with 106.81 per cent for the project.

**Table 3.7: Micro-watershed wise details of Crops, their Productivity and Production in IWMP-XIII, Banda
Simoni 2C1A7j1a**

S.No	Crop	Area in (Ha.)		Productivity q./Ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	10.35	0.00	2.80	0.00	28.98	0.00	57.96
2	Moong	0.00	18.67	0.00	2.60	0.00	48.54	0.00	87.38
3	Arhar	0.00	45.26	0.00	4.70	0.00	212.72	0.00	36.16
4	Sorghum	0.00	76.59	0.00	5.80	0.00	444.24	0.00	2043.50
5	Paddy	39.54	0.00	10.30	0.00	407.26	0.00	366.54	0.00
	Total	39.54	150.87			407.26	734.48	366.54	2225.00
B	Rabi								
1	Wheat	68.54	13.58	20.50	11.60	1405.16	157.53	1475.42	155.95
2	Masoor	0.00	72.68	0.00	10.50	0.00	763.18	0.00	755.55
3	Gram	0.00	172.25	0.00	4.80	0.00	826.80	0.00	818.53
4	Pea	0.00	21.64	0.00	5.60	0.00	121.18	0.00	119.97
5	Mustard	0.00	29.84	0.00	7.10	0.00	211.86	0.00	209.75
	Total	68.54	309.99			1405.16	2080.56	1475.42	2059.75
C	Zaid								
	Nil								
	Cultivable Area	491.29	Cropping Intensity		107.76				

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.))

Bagehata 2C1A7j1b

S.No	Crop	Area in (Ha.)		Productivity q/Ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	12.35	0.00	2.80	0.00	34.58	0.00	69.16
2	Moong	0.00	24.18	0.00	2.60	0.00	62.87	0.00	113.16
3	Arhar	0.00	80.24	0.00	4.70	0.00	377.13	0.00	64.11
4	Sorghum	0.00	102.36	0.00	5.80	0.00	593.69	0.00	2730.96
5	Paddy	53.26	0.00	10.30	0.00	548.58	0.00	493.72	0.00
	Total	53.26	219.13			548.58	1068.26	493.72	2977.40
B	Rabi								
1	Wheat	106.62	34.15	20.50	11.60	2186	396.14	2295.06	392.18
2	Masoor	0.00	215.36	0.00	10.50	0.00	2261.28	0.00	2238.67
3	Gram	0.00	92.14	0.00	4.80	0.00	442.27	0.00	7720.24
4	Pea	0.00	54.18	0.00	5.60	0.00	303.41	0.00	291.27
5	Mustard	0.00	51.24	0.00	7.10	0.00	363.80	0.00	1273.31
	Total	106.62	447.07			2185.77	3766.90	2295.06	11915.67
C	Zaid								
	Nil								
	Cultivable Area	726.74	Cropping Intensity		106.34				

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

Hardoulee 2C1A7j1g

S.No	Crop	Area in (Ha.)		Productivity q/Ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	16.94	0.00	2.80	0.00	47.43	0.00	94.86
2	Moong	0.00	12.30	0.00	2.60	0.00	31.98	0.00	57.56
3	Arhar	0.00	84.16	0.00	4.70	0.00	395.55	0.00	67.24
4	Sorghum	0.00	115.36	0.00	5.80	0.00	669.09	0.00	3077.80
5	Paddy	48.36	0.00	10.30	0.00	498.11	0.00	448.30	0.00
	Total	48.36	228.76			498.11	1144.05	448.30	3297.48
B	Rabi								
1	Wheat	98.96	26.57	20.50	11.60	2028.60	308.21	2130.03	305.13
2	Masoor	0.00	103.54	0.00	10.50	0.00	1087.17	0.00	1076.30
3	Gram	0.00	159.35	0.00	4.80	0.00	764.88	0.00	757.23
4	Pea	0.00	39.47	0.00	5.60	0.00	221.03	0.00	218.82
5	Mustard	0.00	54.18	0.00	7.10	0.00	384.68	0.00	380.83
	Total	98.96	383.11			2028.60	2765.97	2130.03	2738.31
C	Zaid								
	Nil								
	Cultivable Area	669.62	Cropping Intensity		106.15				

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

Baghela 2C1A7k2c

S.No	Crop	Area in (Ha.)		Productivity q/Ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	21.36	0.00	2.80	0.00	59.81	0.00	119.62
2	Moong	0.00	24.16	0.00	2.60	0.00	62.82	0.00	113.07
3	Arhar	0.00	76.49	0.00	4.70	0.00	359.50	0.00	61.12
4	Sorghum	0.00	102.36	0.00	5.80	0.00	593.69	0.00	2730.96
5	Paddy	54.26	0.00	10.30	0.00	558.88	0.00	502.99	0.00
	Total	54.26	224.37			558.88	1075.82	502.99	3024.77
B	Rabi								
1	Wheat	97.72	30.48	20.50	11.60	2003.24	353.57	2103.40	350.03
2	Masoor	0.00	108.26	0.00	10.50	0.00	1136.73	0.00	1125.36
3	Gram	0.00	215.36	0.00	4.80	0.00	1033.73	0.00	1023.39
4	Pea	0.00	35.21	0.00	5.60	0.00	197.18	0.00	195.20
5	Mustard	0.00	25.36	0.00	7.10	0.00	180.06	0.00	178.26
	Total	97.72	414.67			2003.24	2901.26	2103.40	2872.25
C	Zaid								
	Nil								
	Cultivable Area	690.81	Cropping Intensity		106.65				

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

Patvan 2C1A7k1c

S.No	Crop	Area in (Ha.)		Productivity q/Ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	21.36	0.00	2.80	0.00	59.81	0.00	119.62
2	Moong	0.00	25.48	0.00	2.60	0.00	66.25	0.00	119.25
3	Arhar	0.00	64.27	0.00	4.70	0.00	302.07	0.00	51.35
4	Sorghum	0.00	96.48	0.00	5.80	0.00	559.58	0.00	2574.09
5	Paddy	69.35	0.00	10.30	0.00	714.31	0.00	642.87	0.00
	Total	69.35	207.59			714.31	987.71	642.87	2864.30
B	Rabi								
1	Wheat	117.77	16.97	20.50	11.60	2414.32	196.82	2535.04	194.85
2	Masoor	0.00	117.10	0.00	10.50	0.00	1229.57	0.00	1217.28
3	Gram	0.00	314.98	0.00	4.80	0.00	1511.91	0.00	1496.79
4	Pea	0.00	75.25	0.00	5.60	0.00	421.40	0.00	417.19
5	Mustard	0.00	48.05	0.00	7.10	0.00	341.16	0.00	337.74
	Total	117.77	572.35			2414.32	3700.86	2535.04	3663.85
C	Zaid								
	Nil								
	Cultivable Area	850.55	Cropping Intensity		105.54				

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

Bhadavari 2C1A7k2d

S.No	Crop	Area in (Ha.)		Productivity q/Ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	23.76	0.00	2.80	0.00	66.53	0.00	133.06
2	Moong	0.00	28.49	0.00	2.60	0.00	74.07	0.00	133.33
3	Arhar	0.00	89.32	0.00	4.70	0.00	419.80	0.00	71.37
4	Sorghum	0.00	102.30	0.00	5.80	0.00	593.34	0.00	2729.36
5	Paddy	62.35	0.00	10.30	0.00	642.21	0.00	577.98	0.00
	Total	62.35	243.87			642.21	1153.75	577.98	3067.12
B	Rabi								
1	Wheat	110.24	28.87	20.50	11.60	2259.89	334.89	2372.89	331.54
2	Masoor	0.00	121.36	0.00	10.50	0.00	1274.28	0.00	1261.54
3	Gram	0.00	255.36	0.00	4.80	0.00	1225.73	0.00	1213.47
4	Pea	0.00	35.18	0.00	5.60	0.00	197.01	0.00	195.04
5	Mustard	0.00	51.24	0.00	7.10	0.00	363.80	0.00	360.17
	Total	110.24	492.01			2259.89	3395.71	2372.89	3361.75
C	Zaid								
	Nil								
	Cultivable Area	784.49	Cropping Intensity		107.86				

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

Bhatouli 2C1A7m1e

S.No	Crop	Area in (Ha.)		Productivity q/Ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	32.19	0.00	2.80	0.00	90.13	0.00	180.26
2	Moong	0.00	26.71	0.00	2.60	0.00	69.45	0.00	125.00
3	Arhar	0.00	68.49	0.00	4.70	0.00	321.90	0.00	54.72
4	Sorghum	0.00	86.49	0.00	5.80	0.00	501.64	0.00	2307.55
5	Paddy	48.31	0.00	10.30	0.00	497.59	0.00	447.83	0.00
	Total	48.31	213.88			497.59	983.12	447.83	2667.54
B	Rabi								
1	Wheat	93.25	26.17	20.50	11.60	1911.55	303.57	2007.12	300.54
2	Masoor	0.00	96.91	0.00	10.50	0.00	1017.58	0.00	1007.40
3	Gram	0.00	184.26	0.00	4.80	0.00	884.45	0.00	875.60
4	Pea	0.00	29.85	0.00	5.60	0.00	167.16	0.00	165.49
5	Mustard	0.00	37.81	0.00	7.10	0.00	268.45	0.00	265.77
	Total	93.25	375.00			1911.55	2641.21	2007.12	2614.79
C	Zaid								
	Nil								
	Cultivable Area	643.44	Cropping Intensity		106.01				

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

Baghna 2C1A7m2c

S.No	Crop	Area in (Ha.)		Productivity q/Ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	34.91	0.00	2.80	0.00	97.75	0.00	195.50
2	Moong	0.00	24.98	0.00	2.60	0.00	64.95	0.00	116.91
3	Arhar	0.00	64.38	0.00	4.70	0.00	302.59	0.00	51.44
4	Sorghum	0.00	96.48	0.00	5.80	0.00	559.58	0.00	2574.09
5	Paddy	69.34	0.00	10.30	0.00	714.20	0.00	642.78	0.00
	Total	69.34	220.75			714.20	1024.87	642.78	2937.93
B	Rabi								
1	Wheat	95.92	27.34	20.50	11.60	1966.29	317.14	2064.61	313.97
2	Masoor	0.00	119.12	0.00	10.50	0.00	1250.77	0.00	1238.26
3	Gram	0.00	276.85	0.00	4.80	0.00	1328.89	0.00	1315.60
4	Pea	0.00	31.24	0.00	5.60	0.00	174.94	0.00	173.19
5	Mustard	0.00	34.18	0.00	7.10	0.00	242.68	0.00	240.25
	Total	95.92	488.73			1966.29	3314.43	2064.61	3281.28
C	Zaid								
	Nil								
	Cultivable Area	751.17	Cropping Intensity		107.22				

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

Kalhnuva 2C1A7m2e

S.No	Crop	Area in (Ha.)		Productivity q/Ha		Production (q.)			
		Irrigated	Rainfed	Irrigated	Rainfed.	Irrigated	Rainfed	Irrigated	Rainfed
A	Kharif								
1	Urd	0.00	10.35	0.00	2.80	0.00	28.98	0.00	57.96
2	Moong	0.00	18.67	0.00	2.60	0.00	48.54	0.00	87.38
3	Arhar	0.00	45.26	0.00	4.70	0.00	212.72	0.00	36.16
4	Sorghum	0.00	76.59	0.00	5.80	0.00	444.24	0.00	2043.50
5	Paddy	39.54	0.00	10.30	0.00	407.26	0.00	366.54	0.00
	Total	39.54	150.87			407.26	734.48	366.54	2225.00
B	Rabi								
1	Wheat	68.54	13.58	20.50	11.60	1405.16	157.53	1475.42	155.95
2	Masoor	0.00	72.68	0.00	10.50	0.00	763.18	0.00	755.55
3	Gram	0.00	172.25	0.00	4.80	0.00	826.80	0.00	818.53
4	Pea	0.00	21.64	0.00	5.60	0.00	121.18	0.00	119.97
5	Mustard	0.00	29.84	0.00	7.10	0.00	211.86	0.00	209.75
	Total	68.54	309.99			1405.16	2080.56	1475.42	2059.75
C	Zaid								
	Nil								
	Cultivable Area	491.29	Cropping Intensity		107.76				

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

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

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

Summary	Unit	Production During Kharif	Production during Rabi	Total Production	Remarks
Food Production (Atlas.)					
Cereals	q	11570.48	18491.38	30061.87	-
Pulses	q	974.87	15714.17	16689.04	-
Oilseed	q	210.96	1816.13	2027.09	-
Grand Total	q	12756	36022	48777.99	-
Fodder Production (Atlas.)					
Dry Fodder	q	60507.82			-
Green Fodder	q	0.00			-
Fuel Production					
Arhar+Mustard+Til Plants	q	2323.24			-
Over all Cropping Intensity		106.47			

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

3.4 Agroforestry and Horticulture

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

Table 3.9: Agroforestry and Horticulture Status in Microwatershed

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.	Productio n qtls
1	Simoni 2C1A7j1a	Simounee, Tola Kalan, Amar Ganj	-	-	-	-	15	0.26	3.9
2	Bagehata 2C1A7j1b	Bagehata, Simounee, Tola Kalan	-	-	-	-	18	0.25	4.5
3	Hardoulee 2C1A7j1g	Hardoulee, Byonja, Tola Kalan	-	-	-	-	17	0.23	3.91
4	Baghela 2C1A7k2c	Baghela, Byonja, Bhabvari, Patvan, Tola Kalan	-	-	-	-	16	0.21	3.36
5	Patvan 2C1A7k1c	Patvan	-	-	-	-	12	0.26	3.12
6	Bhadavari 2C1A7k2d	Hardoulee, Byonja, Bhabvari, Patvan, Baberu Dehat	-	-	-	-	15	0.28	4.2
7	Bhatouli 2C1A7m1e	Bhatoulee, Anousa, Samara Ghat, Pandaree	-	-	-	-	24	0.31	7.44
8	Baghnra 2C1A7m2c	Baghanda, Ragoulee, Anousa, Kelahanuva, Maduva, Bhatoulee	-	-	-	-	17	0.28	4.76
9	Kalhnuva 2C1A7m2e	Murwal, Reval, Baghanda					15	0.29	4.35
Total			-	-	-	-	134	2.11	35.64
(Scattered fruit plant of Papaya, Kathal, Ber, Aonla, Guava, etc)									

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

3.5 Livestock and Fisheries

In the name of cattle mainly desi cow are found in the project which productivity is significantly lower than the average productivity of the state. The Details of livestock and its productivity are available in Table 3.10 and 3.11, respectively.

Table 3.10: Livestock Population (no.) in IWMP -XIII, Banda

Sr. No .	Name of Micro watershed with code	Name of Village	Cow		Buffalo		Ox/Bull	Goat	Sheep	Piggeries	Poultry		
			Desi	Crossed	Desi	Murrah					Broiler	Layers	Total
1	Simoni 2C1A7j1a	Simounee, Tola Kalan, Amar Ganj	149	13	45	12	22	648	15	12	-	10	256
2	Bagehata 2C1A7j1b	Bagehata, Simounee, Tola Kalan	219	23	68	14	32	968	20	13	-	30	387
3	Hardoulee 2C1A7j1g	Hardoulee, Byonja, Tola Kalan	206	16	64	15	30	888	19	14	-	25	359
4	Baghela 2C1A7k2c	Baghela, Byonja, Bhabvari, Patvan, Tola Kalan	213	17	68	16	31	920	26	19	-	12	371
5	Patvan 2C1A7k1c	Patvan	253	29	80	12	37	1128	24	18	-	26	442
6	Bhadavari 2C1A7k2d	Hardoulee, Byonja, Bhabvari, Patvan, Baberu Dehat	463	37	130	29	69	2000	49	35	-	85	828
7	Bhatouli 2C1A7m1e	Bhatoulee, Anousa, Samara Ghat, Pandaree	245	15	76	14	36	1040	28	16	-	24	418
8	Baghnra 2C1A7m2c	Baghanda, Ragoulee,	194	20	60	13	29	856	24	18	-	28	357

		Anousa, Kelaunuva, Maduva, Bhatoulee											
9	Kalhnuva 2C1A7m2e	Murwal, Reval, Baghanda	227	23	70	11	34	1000	26	17	-	21	395
	Total		2169	193	661	136	320	9448	231	162	-	261	3813

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

Table 3.11: Productivity of livestock in IWMP-XIII, Banda

SN	Name of Micro watershed with code	Name of Village	Milk Production (Liter Per day)				Goatry Weight in Kg/goat	Poultry			Piggeries weight Kg/Pig		
			Cows		Buffalos			Broiler Weight in Kg/ Brl	Layers No. of eggs/day				
			Desi	Crossed	Desi	Murrah							
1	Simoni 2C1A7j1a	Simounee, Tola Kalan, Amar Ganj	1.4	5.8	2.7	6.2	23.0	-	175	-	-		
2	Bagehata 2C1A7j1b	Bagehata, Simounee, Tola Kalan	1.5	6.2	2.8	6.5	24.0	-	164	-	-		
3	Hardoulee 2C1A7j1g	Hardoulee, Byonja, Tola Kalan	1.3	5.8	2.6	6.9	22.0	-	174	-	-		
4	Baghela 2C1A7k2c	Baghela, Byonja, Bhabvari, Patvan, Tola Kalan	1.4	5.4	2.8	6.1	21.0	-	168	-	-		
5	Patvan 2C1A7k1c	Patvan	1.6	4.9	2.4	6.3	26.0	-	184	-	-		
6	Bhadavari 2C1A7k2d	Hardoulee, Byonja, Bhabvari, Patvan, Baberu Dehat	1.2	6.8	2.1	6.7	24.0	-	174	-	-		

7	Bhatouli 2C1A7m1e	Bhatoulee, Anousa, Samara Ghat, Pandaree	1.1	7.1	2.8	6.4	25.0	-	172	-
8	Baghnra 2C1A7m2c	Baghanda, Ragoulee, Anousa, Kelahnuva, Maduva, Bhatoulee	1.9	5.5	2.6	7.2	21.0	-	171	-
9	Kalhnuva 2C1A7m2e	Murwal, Reval, Baghanda	1.2	5.2	2.1	6.1	23.0	-	168	-
	Average		1.4	5.9	2.5	6.5	23.2	-	172	-

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

3.6 Forest and Grassland

There is no grassland available in the project area, however, information on naturally generated/grown degraded forest is given in Table 3.12.

Table 3.12: Forest, vegetative cover/grassland in IWMP-XIII, Banda

Sr. No.	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
1	Simoni 2C1A7j1a	Simounee, Tola Kalan, Amar Ganj	-	-	-	5.9	-	1.8	2.4
2	Bagehata 2C1A7j1b	Bagehata, Simounee, Tola Kalan	-	-	-	4.8	-	1.7	2.8
3	Hardoulee 2C1A7j1g	Hardoulee, Byonja, Tola Kalan	-	-	-	6.1	-	1.8	2.1
4	Baghela 2C1A7k2c	Baghela, Byonja, Bhabvari, Patvan, Tola Kalan	-	-	-	5.7	-	1.4	2.6

5	Patvan 2C1A7k1c	Patvan	-	-	-	5.8	-	1.6	2.5
6	Bhadavari 2C1A7k2d	Hardoulee, Byonja, Bhabvari, Patvan, Baberu Dehat	-	-	-	5.4	-	1.8	2.4
7	Bhatouli 2C1A7m1e	Bhatoulee, Anousa, Samara Ghat, Pandaree	-	-	-	6.2	-	1.9	2.6
8	Baghnra 2C1A7m2c	Baghanda, Ragoulee, Anousa, Kelahanuva, Maduva, Bhatoulee	-	-	-	4.9	-	1.5	2.4
9	Kalhnuva 2C1A7m2e	Murwal, Reval, Baghanda				5.4	-	1.4	2.7
Total			-	-	-	50.2	-	14.9	22.5

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

3.7 Livelihood Status

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

Table 3.13: Livelihood Status of Landless People

Sr. No .	Name & Code of micro watershed	Name of Village	Name of Livelihood Activity	No. of house hold engaged				Pre project Average Income/ Year	Desired Activities	Expected Income from desired activities Rs/Year	Remarks
				Sc	Other	Women	Total				
1	Simoni 2C1A7j1a	Simounee, Tola Kalan, Amar Ganj	Labour/ Batai	3	9	1	13	25,000-30,000	The landless people can increase their income by adoting one or two activities of goatary,	50,000-55,000	Income may be increased by about two times
2	Bagehata 2C1A7j1b	Bagehata, Simounee, Tola Kalan		4	13	3	20				
3	Hardoulee 2C1A7j1g	Hardoulee, Byonja, Tola Kalan		4	12	4	20				

4	Baghela 2C1A7k2c	Baghela, Byonja, Bhabvari, Patvan, Tola Kalan		4	14	3	21		poultry, dairy, technical shop, general store, dona making, Rope making, etc. besides Batai/labour work		
5	Patvan 2C1A7k1c	Patvan		5	16	4	25				
6	Bhadavari 2C1A7k2d	Hardoulee, Byonja, Bhabvari, Patvan, Baberu Dehat		8	27	5	40				
7	Bhatouli 2C1A7m1e	Bhatoulee, Anousa, Samara Ghat, Pandaree		4	12	2	18				
8	Baghnra 2C1A7m2c	Baghanda, Ragoulee, Anousa, Kelahanuva, Maduva, Bhatoulee		3	11	2	16				
9	Kalhnuva 2C1A7m2e	Murwal, Reval, Baghanda		4	14	2	20				
Total				39	128	26	193	25,000- 30,000	-	50,000- 55,000	-

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

Table 3.14: Details of Livelihood Status of the Farmers

Sr. No.	Name & Code of micro watershed	Name of Village	Name of Livelihood Activity	No. of House hold engaged				Pre project Average Income	Desired Activities	Expected Income from desired activities	Remarks
				Sc	Other	Women	Total				
1	Simoni 2C1A7j1a	Simounee, Tola Kalan, Amar Ganj	Agriculture + A.H., Labour,	82	286	24	392	40000- 50000	Productivity could be enhance	55,000- 65,000	Income may be increased
2	Bagehata 2C1A7j1b	Bagehata,		122	437	26	585				

		Simounee, Tola Kalan	Batai					through natural resource conservation, livestock management and micro- enterprises		by about 30 to 40 per cent
3	Hardoulee 2C1A7j1g	Hardoulee, Byonja, Tola Kalan		112	391	32	535			
4	Baghela 2C1A7k2c	Baghela, Byonja, Bhabvari, Patvan, Tola Kalan		116	413	25	554			
5	Patvan 2C1A7k1c	Patvan		142	512	26	680			
6	Bhadavari 2C1A7k2d	Hardoulee, Byonja, Bhabvari, Patvan, Baberu Dehat		254	924	32	1210			
7	Bhatouli 2C1A7m1e	Bhatoulee, Anousa, Samara Ghat, Pandaree		132	481	19	632			
8	Baghnra 2C1A7m2c	Baghanda, Ragoulee, Anousa, Kelahanuva, Maduva, Bhatoulee		108	390	21	519			
9	Kalhnuva 2C1A7m2e	Murwal, Reval, Baghanda		127	456	22	605			
	Total			1195	4290	227	5712	35000- 45000	-	55,000- 65,000

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

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

*Income in Rs

S r. N o	Name of MWS with code	Name of village	Activities																			
			Dairy		Poultry		Goatry		Piggerie s		Fisherrie s		Black Smithy		Carpent ry		Stitchin g/ knitting		Wages		Agricult ure	
			N o	Av. inco me	N o	Av. inco me	N o	Av. inco me	N o	Av. inco me	N o	Av. inco me	N o	Av. inco me	N o	Av. inco me	N o	Av. inco me	N o	Av. inco me	N o	Av. inco me
1	Simoni 2C1A7j1a	Simoune e, Tola Kalan, Amar Ganj	26 4	11,5 00-	2 5	13,0 00-	3 3	210 00-	1 9	7500 -	-	-	2 -	2000 4000	2 -	2500 4500	-	-	8 8	11,0 00-	42 2	25,0 00-
2	Bagehata 2C1A7j1b	Bagehata ,	19 8		1 8		2 4		1 0		-		3 -		4 -		-		6 6		31 7	
3	Hardoulee 2C1A7j1g	Hardoule e, Byonja, Tola Kalan	16 5		1 5		2 0		2 8		-		4 -		3 -		-		5 5		26 5	
4	Baghela 2C1A7k2c	Baghela, Byonja, Bhabvari, Patvan, Tola Kalan	97		1 2		1 2		1 8		-		5 -		2 -		-		3 3		25 9	
5	Patvan 2C1A7k1c	Patvan	13 0		2 4		1 6		2 0		-		2 -		4 -		-		4 4		20 9	

6	Bhadavari 2C1A7k2d	Hardoule e, Byonja, Bhabvari, Patvan, Baberu Dehat	14 1		2 0		1 7 6		1 8		-		3		2		-		4 7		22 3	
7	Bhatouli 2C1A7m1e	Bhatoule e, Anousa, Samara Ghat, Pandaree	10 2		1 8		1 2 7		1 7		-		2		3		-		3 4		23 6	
8	Baghra 2C1A7m2c	Baghand a, Ragoulee , Anousa, Kelahana va, Maduva, Bhatoule e	12 6		2 6		1 5 7		1 2		-		4		2		-		4 2		20 3	
9	Kalhnuva 2C1A7m2e	Murwal, Reval, Baghand a	16 3		1 9		2 0 3		3 1		-		3		3		-		5 5		26 4	
	Total		13 86	11,5 00-	1 7	13,0 00-	1 7	210 00-	1 7 3	7500 - 9000	-	-	2 8	2000 - 4000	2 5	2500 - 4500	-	-	4 6 4	11,0 00- 13,0 00	23 98	25,0 00- 30,0 00

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

3.8 Hydrology, Water resources and Soil and moisture Conservation

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

Table 3.16: Ground Water Status in IWMP-XIII, Banda

Sr. No.	Name & Code of Micro watershed	Name of Village	Depth of Ground Water Table (Below Ground level) in Meter		No. of Observation well	Remarks
			Before Monsoon	After Monsoon		
1	Simoni 2C1A7j1a	Simounee, Tola Kalan, Amar Ganj	Avrg.12.50	Avrg.09.50	06	-
2	Bagehata 2C1A7j1b	Bagehata, Simounee, Tola Kalan	Avrg.13.60	Avrg.10.60	07	-
3	Hardoulee 2C1A7j1g	Hardoulee, Byonja, Tola Kalan	Avrg.13.05	Avrg.12.20	03	
4	Baghela 2C1A7k2c	Baghela, Byonja, Bhabvari, Patvan, Tola Kalan	Avrg.13.35	Avrg.10.35	08	
5	Patvan 2C1A7k1c	Patvan	Avrg.12.40	Avrg.09.40	04	
6	Bhadavari 2C1A7k2d	Hardoulee, Byonja, Bhabvari, Patvan, Baberu Dehat	Avrg.11.30	Avrg.08.30	05	
7	Bhatouli 2C1A7m1e	Bhatoulee, Anousa, Samara Ghat, Pandaree	Avrg.11.85	Avrg.10.65	09	
8	Baghnra 2C1A7m2c	Baghanda, Ragoulee, Anousa, Kelahanuva, Maduva, Bhatoulee	Avrg.14.85	Avrg.11.85	07	
9	Kalhnuva 2C1A7m2e	Murwal, Reval, Baghanda	Avrg.13.30	Avrg.10.30	05	
Avrage			11.30-14.85	08.30-12.20		

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

Generally stony layer is observed at a depth ranging between 1-5 m in all districts of Bundelkhand in Uttar Pradesh except Jalaun and Hamirpur district. Depth of water table in open shallow dug wells in the project area was about 11 to 15 m during pre monsoon, however it was in the range of 08-12 m during post monsoon season.

Table 3.17: Irrigation Status in IWMP-XIII, Banda

Sr. No .	Name & Micro Watershed with code	Name of Village	Gross Cultivated Area				Net Cultivate d Area	Gross Irrigated Area				Rainfe d Area	
			Kharif	Rabi	Zai d	Total		Khari f	Rabi	Zai d	Total		
1	Simoni 2C1A7j1a	Simounee, Tola Kalan, Amar Ganj	150.87	378.54	-	529.41	491.29	39.54	68.54	-	108.08	108.08	383.21
2	Bagehata 2C1A7j1b	Bagehata, Simounee, Tola Kalan	219.13	553.69	-	772.82	726.74	53.26	106.62	-	159.88	159.88	566.86
3	Hardoulee 2C1A7j1g	Hardoulee, Byonja, Tola Kalan	228.76	482.07	-	710.83	669.62	48.36	98.96	-	147.32	147.32	522.30
4	Baghela 2C1A7k2c	Baghela, Byonja, Bhabvari, Patvan, Tola Kalan	224.37	512.39	-	736.76	690.81	54.26	97.72	-	151.98	151.98	538.83
5	Patvan 2C1A7k1c	Patvan	207.59	690.12	-	897.71	850.55	69.35	117.77	-	187.12	187.12	663.43
6	Bhadavari 2C1A7k2d	Hardoulee, Byonja, Bhabvari, Patvan, Baberu Dehat	471.75	1151.88	-	1623.63	1507.08	132.15	199.41	-	331.56	331.56	1175.52
7	Bhatouli 2C1A7m1e	Bhatoulee, Anousa, Samara Ghat, Pandaree	243.87	602.25	-	846.12	784.49	62.35	110.24	-	172.59	172.59	611.91
8	Baghnra 2C1A7m2c	Baghanda, Ragoulee,	213.88	468.25	-	682.13	643.44	48.31	93.25	-	141.56	141.56	501.88

		Anousa, Kelmanuv a, Maduva, Bhatoulee											
9	Kalhnuva 2C1A7m2e	Murwal, Reval, Baghanda	220.75	584.65	-	805.40	751.17	69.34	95.92	-	165.26	165.26	585.91
	Total		2180.97	5423.83	-	7604.81	7115.19	576.92	988.42	-	1565.34	1565.34	5549.85

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

Table 3.18: Source wise Area Irrigated in IWMP-XIII, Banda (area in ha)

Sr. No . .	Name &Micro watershed with code	Name of Village	Cana l Area	State Tube wells		Tanks		Open well		Bore wells		Lift irrigation		Others (Specify)		Total Irrigate d Area	Re m.
				No . .	Area	No.	Are a	No . .	Area	No . .	Are a	No . .	Are a	No . .	Area		
1	Simoni 2C1A7j1a	Simounee, Tola Kalan, Amar Ganj	97.28	-	-	-	-	-	-	2	10.8 1	-	-	-	-	108.08	-
2	Bagehata 2C1A7j1b	Bagehata, Simounee, Tola Kalan	0.00	-	-	-	-	-	-	45	159. 88	-	-	-	-	159.88	-
3	Hardoulee 2C1A7j1g	Hardoulee, Byonja, Tola Kalan	0.00	-	-	-	-	-	-	55	147. 32	-	-	-	-	147.32	-
4	Baghela 2C1A7k2c	Baghela, Byonja, Bhabvari, Patvan, Tola Kalan	0.00	-	-	-	-	-	-	60	151. 98	-	-	-	-	151.98	-
5	Patvan 2C1A7k1c	Patvan	46.78	-	-	-	-	-	-	50	140. 34	-	-	-	-	187.12	-
6	Bhadavari 2C1A7k2d	Hardoulee, Byonja,	0.00	-	-	-	-	-	-	80	331. 56	-	-	-	-	331.56	-

		Bhabvari, Patvan, Baberu Dehat															
7	Bhatouli 2C1A7m1e	Bhatoulee, Anousa, Samara Ghat, Pandaree	69.04	-	-	-	-	-	-	65	103. 55	-	-	-	-	172.59	-
8	Baghnra 2C1A7m2c	Baghanda, Ragoulee, Anousa, Kelahanuva, Maduva, Bhatoulee	0.00	-	-	-	-	-	-	39	141. 56	-	-	-	-	141.56	-
9	Kalhnuva 2C1A7m2e	Murwal, Reval, Baghanda	0.00	-	-	-	-	-	-	59	165. 26	-	-	-	-	165.26	-
Total			213.0 9	-	-	-	-	-	-	45 5	135 2.25	-	-	-	-	1565.34	-

(Source: Participatory rural appraisal by PIA, (Soil Conservation Division, Rashtriya Jalagam-Banda, Banda, U.P.)

CHAPTER – 4

INSTITUTIONAL BUILDING AND PROJECT MANAGEMENT

4.1 Project Implementing Agency

The Project Implementing Agency (PIA) is Soil Conservation Officer, Department of Agriculture, IWMP-XIII, Rastriya Jalagam Banda, Uttar Pradesh. The PIA was given responsibility to develop the micro-watershed by Watershed Cell cum Data Centre (WCDC) and State Level Nodal Agency (SLNA) considering its vast experiences in handling land and water management issues in the region. The PIA has well experienced trained and sufficient staff to handle the watershed management programme efficiently. Most of the staff of PIA has exposure of several watershed projects. In addition the PIA has access for technical backstopping from the ICAR viz. IGFRI and NRCAF at Jhansi and KVK located at Banda. Details of PIA are presented in subsequent section.

Table 4.1: Details of Project Implementing Agency (PIA), IWMP-XIII, Banda

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

Table 4.2: Details of Staff at PIA, IWMP-

Sr. No.	Designation	Name	M/F	Qualification	Field of Experience & Period	Remarks
1	B.S.A.	Shri. S.C. Ahirwar	M	Civil Eng.	All the staff are experienced and wellworsed with watershed management	
2	J.E.	Shri.D.P. Singh	M	Civil Eng.		
3	S.C.I.	Shri.B.L. Verma	M	B.Sc.. Ag.		
4	S.C.I.	Shri.R.S. Madhur	M	Ag. Diploma		
5	S.C.I.	Shri.Chhote Lal	M	Ag. Diploma		
6	S.C.I.	Shri.S. P. Singh	M	Ag. Diploma		
7	A.S.C.I.	Shri. R.R. Singh	M	B.Sc.. Ag.		

8	A.S.C.I.	Shri.K.P. Singh	M	Ag. Diploma	
9	A.S.C.I.	Shri. Digambar singh	M	Ag. Diploma	
10	A.S.C.I.	Shri. S.B. Yadav	M	M.Sc. Ag	
11	A.S.C.I.	Shri. N.D. Sahu	M	Ag. Diploma	
12	A.S.C.I.	Shri. B.L. Pal	M	B.Sc.. Ag.	
13	A.S.C.I.	Shri. K.K. Diwedi	M	B.Sc.. Ag.	
14	A.S.C.I.	Shri. N.S. Tomar	M	M.Sc. Ag	
15	A.S.C.I.	Shri. O.P. Singh	M	B.Sc.. Ag.	
16	A.S.C.I.	Shri. Kaptan Singh	M	Ag. Diploma	

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

Project- IWMP-XIII **PIA- BSA, Rastriya Jalagam Banda**

District-Banda

Sr. No.	Name of WDT member	M/F	Age	Qualification / Experience	Description of professional training	Role/ Function	Date of appointment of WDT member
1.	Shri D.P. Singh	M	52	Diploma Civil Eng.	All the members are having work experience of watershed management.	WDT members will be accountable for the activities mentioned in Common Guidelines for watershed Development Projects 2008	18.9.11
2.	Shri R.S. Madhur	M	57	Ag. Diploma			
3.	Shri. N.S. Tomar	M	46	M.Sc. (Ag)			

Table 4.4: Details of Watershed Committee (WC)

Jal Sanrakshan Samiti- Murval, Gram Panchayat: Murval

Name of Project:- IWMP XIII District- Banda

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

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

Jal Sanrakshan Samiti- Godhani, Gram Panchayat: Godhani

Name of Project:- IWMP XIII

District- Banda

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

Jal Sanrakshan Samiti- Ragauoli, Gram Panchayat: Ragauoli

Name of Project:- IWMP XIII

District- Banda

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

Jal Sanrakshan Samiti- Anausa,

Gram Panchayat: Anausa

Name of Project:- IWMP XIII District- Banda

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

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

Jal Sanrakshan Samiti- Simauni, Gram Panchayat: Simauni

Name of Project:- IWMP XIII District- Banda

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

Jal Sanrakshan Samiti- Bagehta, Gram Panchayat: Bagehta

Name of Project:- IWMP XIII District- Banda

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

Jal Sanrakshan Samiti- Tolakala, Gram Panchayat: Tolakala

Name of Project:- IWMP XIII

District- Banda

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

Jal Sanrakshan Samiti- Byonja, Gram Panchayat: Byonja

Name of Project:- IWMP XIII

District- Banda

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

Jal Sanrakshan Samiti- Hardauli, Gram Panchayat: Hardauli

Name of Project:- IWMP XIII District- Banda

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

Jal Sanrakshan Samiti- Baghela, Gram Panchayat: Baghela

Name of Project:- IWMP XIII

District- Banda

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

Jal Sanrakshan Samiti- Patvan, Gram Panchayat: Patvan

Name of Project:- IWMP XIII

District- Banda

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

Jal Sanrakshan Samiti- Baberu Dehat, Gram Panchayat: Baberu Dehat

Name of Project:- IWMP XIII

District- Banda

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

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

Sr . N o.	Name of MWS	Names of villages	Total no. of Constituted/registered SHGs				No. of members			No. of SC/ST in each category			No. of BPL in each category			Date of formation of SHGs	
			With only Men	With only Women	With both	Total	Categorie s	M	F	Total	M	F	Total	M	F	Total	
1	Simoni 2C1A7j1a	Simounee, Tola Kalan, Amar Ganj	2	1	1	4	(i) Landless	3	1	4	0	0	0	3	1	4	These SHGs were formed during the month of February to April. Bye-laws of the SHGs were prepared and kept in the project file. Process to open the accounts in Gramin bank (service bank) has been initiated
							(ii) SF	8	3	11	2	0	2	8	3	11	
							(iii) MF	15	10	25	6	2	8	15	10	25	
							(iv) LF	-	-	-	-	-	-	-	-	-	
							Total	26	14	40	8	2	10	26	14	40	
2	Bagehata 2C1A7j1b	Bagehata, Simounee, Tola Kalan	4	1	2	7	(i) Landless	7	4	11	2	0	2	7	4	11	
							(ii) SF	12	9	21	4	1	5	12	9	21	
							(iii) MF	25	13	38	9	4	13	25	13	38	
							(iv) LF	-	-	-	-	-	-	-	-	-	
							Total	44	26	70	15	5	20	44	26	70	
3	Hardoulee 2C1A7j1g	Hardoulee, Byonja, Tola Kalan	3	1	1	5	(i) Landless	5	3	8	0	0	0	5	3	8	
							(ii) SF	12	6	18	3	0	3	12	6	18	
							(iii) MF	15	9	24	5	2	7	15	9	24	
							(iv) LF	-	-	-	-	-	-	-	-	-	
							Total	32	18	50	8	2	10	32	18	50	
4	Baghela 2C1A7k2c	Baghela, Byonja, Bhabvari, Patvan, Tola Kalan	5	1	2	8	(i) Landless	11	3	14	1	0	1	11	3	14	
							(ii) SF	16	7	23	3	1	4	16	7	23	
							(iii) MF	28	15	43	11	4	15	28	15	43	
							(iv) LF	-	-	-	-	-	-	-	-	-	
							Total	55	25	80	15	5	20	55	25	80	
5	Patvan	Patvan	2	1	2	5	(i)	5	1	6	1	0	1	5	1	6	

	2C1A7k1c						Landless									
							(ii) SF	12	3	15	3	0	3	12	3	15
							(iii) MF	21	8	29	5	1	6	21	8	29
							(iv) LF	-	-	-	-	-	-	-	-	-
							Total	38	12	50	9	1	10	38	12	50
6	Bhadavari 2C1A7k2d	Hardoulee, Byonja, Bhabvari, Patvan, Baberu Dehat	3	1	2	17	(i) Landless	16	9	25	4	1	5	16	9	25
						(ii) SF	40	16	56	9	4	13	40	16	56	
						(iii) MF	67	22	89	19	1 3	32	67	22	89	
						(iv) LF	-	-	-	-	-	-	-	-	-	
						Total	12 3	47	170	32	1 8	50	12 3	47	170	
7	Bhatouli 2C1A7m1 e	Bhatoulee, Anousa, Samara Ghat, Pandaree	4	2	2	8	(i) Landless	11	3	14	3	1	4	11	3	14
						(ii) SF	17	8	25	7	2	9	17	8	25	
						(iii) MF	28	13	41	12	5	17	28	13	41	
						(iv) LF	-	-	-	-	-	-	-	-	-	
						Total	56	24	80	22	8	30	56	24	80	
8	Baghnra 2C1A7m2 c	Baghanda, Ragoulee, Anousa, Kelahanuva, Maduva, Bhatoulee	2	1	1	4	(i) Landless	5	3	8	0	0	0	5	3	8
						(ii) SF	7	6	13	2	0	2	7	6	13	
						(iii) MF	10	9	19	5	3	8	10	9	19	
						(iv) LF	-	-	-	-	-	-	-	-	-	
						Total	22	18	40	7	3	10	22	18	40	
9	Kalhnuva 2C1A7m2 e	Murwal, Reval, Baghanda	5	1	2	8	(i) Landless	11	3	14	3	1	4	11	3	14
						(ii) SF	17	8	25	7	2	9	17	8	25	
						(iii) MF	28	13	41	12	5	17	28	13	41	
						(iv) LF	-	-	-	-	-	-	-	-	-	
						Total	56	24	80	22	8	30	56	24	80	
	Grand Total		30	10	15	66	Total	45 2	20 8	660	13 8	5 2	190	45 2	20 8	660

(M – Male, F – Female)

There are 13 villages in the project area and village-wise Self Help Groups (SHGs) constituted is given in Table 4.5. A total 49 SHGs were already constituted in the project villages, of them 26 men SHGs, 9 women SHGs and 14 mixed SHGs, respectively. Total 188 SHGs have to be constituted to ensure the livelihood of marginalized population in the project. Formation of remaining 139 SHGs is in progress. Livelihood Action Plan is given in Annexure-I.

4.2: Details of Formation of User Groups (UGs)

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

Table 4.6: Activity wise formation of user groups

Name of Work	Benefited area (ha)	Field No.	Name of Adhyaksh	Name of Sachiv/ Treasurer	Activity Proposed	Location of the activity	Water storage in cum	Area Proposed for irrigation (ha)	user Charges (per ha)
Baghela (2C1A7k2c)									
CD1	9.654	716	Arvind Kumar	Bacchi	Crop Production	716			
CD2	30.346	866, 689, 709	Dinesh Kumar	Swamideen	Crop Production	866			
CD3	10.981	1838	Samarjeet	Jaswant	Crop Production	1838			
CD4	17.065	1782, 1785	Chunbad	Gyan Babu	Crop Production	1782			
CD5	9.845	903, 905, 893	Shivram	Jaswant	Crop Production	903			
CD6	13.733	1598, 1570	Shivram	Jaswant	Crop Production	1598			
CD7	17.696	1634, 1640	Ratifal	Brij Kishor	Crop Production	1634			
RCD1	27.4	1765, 1751, 1758, 1760	Shiv	Shivram	Crop Production	1760			
CD8	16.871	47, 48, 10	Devideen	Avadh Bihari	Crop Production	10			
CD9	20.273	28, 374	Jagroop	Samrjeet	Crop	374			

					Production				
CD10	10.312	102	Sabhajeet	Raghuraj	Crop Production	102			
CD11	15.187	97	Savitri	Baccha	Crop Production	97			
CD12	12.592	66, 67	Ramnaresh		Crop Production	67			
CD13	11.574	133, 132	Ramvishal	Savitri	Crop Production	132			
CD14	14.521	169, 160	Chunbaad	Ramnaresh	Crop Production	160			
CD15	15.958	35	Kunvar Bahadur	Ramvishal	Crop Production	35			
CD16	6.644	2951, 2950, 2949	Shiv Lal	Chunbaad	Crop Production	2949			
CD17	7.736	2976, 2975	Jagroop	Pratap Singh	Crop Production	2975			
CD18	5.986	2945, 2943	Sabhajeet	Shiv Lal	Crop Production	2943			
CD19	5.94	2889, 2890	Savitri	Krishn Bihari	Crop Production	2890			
CD20	7.213	2819, 2895	Ramnaresh	Pratap Singh	Crop Production	2895			
CD21	5.986	2800, 2799	Ramnaresh	Ramgopal	Crop Production	2799			
CD22	5.94	2805, 2803	Ramvishal	Vardani	Crop Production	2803			
CD23	7.213	2802, 1796, 1795	Chunbaad	Hira Lal	Crop Production	1795			
CD24	5.522	1797, 1796	Pratap Singh	Shivkaran	Crop Production	1796			
CD25	5.267	1839, 1840	Ramvishal	Bhiya Lal	Crop Production	1840			
CD26	4.968	1891	Chunbaad	Bhiyadeen	Crop	1891			

					Production				
CD27	6.3	1934, 1933	Pratap Singh	Virendra Singh	Crop Production	1933			
CD28	6.644	1940	Shiv Lal	Ram Kumari	Crop Production	1940			
CD29	8.141	1481, 1480, 1490	Krishn Bihari	Vijay	Crop Production	1490			
RCD1	23.669	2984, 3000, 2998	Pratap Singh	Vardani	Crop Production	2998			
RCD2	30.03	1703, 1704, 1705, 1706	Shivram	Hira Lal	Crop Production	1706			
RCD3	27.201	1421, 1434, 1433, 1409	Kuldeep Singh	Shivkaran	Crop Production	1409			

Bhadavari (2C1A7k2d)

CD1	4.42	1276	Samrjeet	Jaswant	Crop Production	1276			
CD2	4.285	1296	Ramgopal	Jaswant	Crop Production	1296			
CD3	4.479	1398	Ballu	Brij Kishor	Crop Production	1398			
CD4	29.613	1358, 1359	Hira Lal	Shivram	Crop Production	1358			
CD5	5.595	1355	Bacchi	Avadh Bihari	Crop Production	1355			
CD6	33.149	1465, 1467	Swamideen	Samrjeet	Crop Production	1465			
CD7	34.57	47, 52, 55	Jaswant	Raghuraj	Crop Production	47			
CD8	30.593	57, 66	Gyan Babu	Baccha	Crop Production	57			
CD9	5	63, 64	Jaswant	Hira Lal	Crop Production	63			
CD10	6.116	41, 42	Shivram	Krishn Bihari	Crop Production	41			

CD11	2.7	31	Kuldeep Singh	Pratap Singh	Crop Production	31			
CD12	6.12	230, 231, 233,	Rmabhavan	Ramgopal	Crop Production	233			
CD13	6.4	221, 226	Prahlad	Natthu	Crop Production	226			
CD14	5.1	201	Sukhnandan	Hardayal Pratap	Crop Production	201			
CD15	4.88	192, 193	Samarjeet	Bhoora	Crop Production	193			
CD16	3.88	1034	Chunbad	Dev Pratap	Crop Production	1034			
CD17	4.64	1095, 1097	Shivram	Samarjeet	Crop Production	1097			
CD18	5.2	1083	Shivram	Chunbad	Crop Production	1083			
CD19	5.105	1170	Ratifal	Shivram	Crop Production	1170			
CD20	33.88	1217, 1218	Shiv	Shivram	Crop Production	1218			
CD21	26.92	1324	Samarjeet	Ratifal	Crop Production	1324			
CD22	5.48	1341	Chunbad	Shiv	Crop Production	1341			
CD23	4.508	2555	Shivram	Devideen	Crop Production	2555			
CD24	5.208	2559, 2561	Shivram	Babu	Crop Production	2561			
CD25	4.6	2444, 2455, 2460	Ratifal	Shivram	Crop Production	2460			
CD26	3.392	2379	Shiv	Kunvar Bahadur	Crop Production	2379			
CD27	3.452	2056, 2067, 2094	Devideen	Shiv Lal	Crop Production	2094			

CD28	5.074	1578, 204	Babu	Jaswant	Crop Production	204			
CD29	4.315	2107, 2110	Shivram	Jaswant	Crop Production	2110			
CD30	4.316	1504, 2226, 2232	Kunvar Bahadur	Brij Kishor	Crop Production	2232			
CD31	4.508	1109, 2287	Shiv Lal	Shivram	Crop Production	2287			
CD32	6.785	1144, 1145, 1183	Ramnaresh	Avadh Bihari	Crop Production	1183			
CD33	5.133	1088, 1085, 1089	Ramvishal	Samrjeet	Crop Production	1089			
CD34	21.607	836, 778, 884	Chunbaad	Raghuraj	Crop Production	884			
CD35	7.782	1317, 1318, 1319, 1336	Pratap Singh	Baccha	Crop Production	1336			
CD36	5.833	1583, 1579	Shiv Lal	Hira Lal	Crop Production	1579			
CD37	5.342	1620, 1119	Krishn Bihari	Jaggu	Crop Production	1119			
CD38	5.336	2181, 2186	Savitri	Bhaiyadeen	Crop Production	2186			
CD39	22.664	1530, 1539/1, 1034	Ramnaresh	Lallu	Crop Production	1034			
CD40	21.666	1539/21, 1547, 1551	Ramvishal	Babu Lal	Crop Production	1551			
CD41	21.8	1691, 1693, 1704	Sabhajeet	Ballu	Crop Production	1704			
CD42	17.56	4369, 4370, 4371	Savitri	Hira Lal	Crop Production	4371			
CD43	6.517	1763, 1759, 1755	Sabhajeet	Bacchi	Crop Production	1755			
CD44	5.267	1687	Savitri	Swamideen	Crop	1687			

					Production				
CD45	22.99	1690, 1695, 1691	Ramnaresh	Jaswant	Crop Production	1691			
CD46	21.74	1623, 1633	Ramvishal	Gyan Babu	Crop Production	1633			
CD47	22.916	232, 241	Shiv Lal	Jaswant	Crop Production	241			
CD48	17.84	249, 320, 319	Jagroop	Shivram	Crop Production	319			
CD49	23.05	501, 503	Sabhajeet	Kuldeep Singh	Crop Production	503			
CD50	5.4	488, 489	Samrjeet	Rmabhavan	Crop Production	489			
RCD1	35.94	353, 355, 360, 367	Ramgopal	Prahlad	Crop Production	367			
RCD2	37.428	620, 628, 647	Ballu	Sukhnandan	Crop Production	647			
RCD3	36.397	444, 442, 435, 438	Hira Lal	Samarjeet	Crop Production	438			
CD51	6.235	1428, 1398	Bacchi	Chunbad	Crop Production	1398			
CD52	20.982	807, 848, 859	Swamideen	Shivram	Crop Production	859			
CD53	6.964	890, 893	Jaswant	Shivram	Crop Production	893			
CD54	21.845	821, 381	Gyan Babu	Ratifal	Crop Production	381			
CD55	7.768	811	Jaswant	Shiv	Crop Production	811			
CD56	7.634	140	Prahlad	Krishn Bihari	Crop Production	140			
CD57	7.634	106, 168	Prahlad	Pratap Singh	Crop Production	168			
CD58	20.848	358, 349,	Krishn Bihari	Ramgopal	Crop	361			

		361			Production				
CD59	9.3	406, 409, 410, 418	Pratap Singh	Natthu	Crop Production	418			
CD60	8.229	356	Ramgopal	Hardayal Pratap	Crop Production	356			
CD61	19.071	714, 715, 716	Natthu	Bhoora	Crop Production	716			
CD62	9.494	734	Hardayal Pratap	Dev Pratap	Crop Production	734			
CD63	21.116	808, 728	Bhoora	Sabhajeet	Crop Production	728			
CD64	6.771	755, 756	Dev Pratap	Vardani	Crop Production	756			
CD65	8.363	779, 786	Prahlad	Samrjeet	Crop Production	786			
CD66	19.928	799, 802	Jaswant	Ramgopal	Crop Production	802			
CD67	1.994	1004	Jaswant	Ballu	Crop Production	1004			
RCD4	35.536	635, 634, 633	Brij Kishor	Hira Lal	Crop Production	633			
RCD5	16.86	544, 545, 546	Shivram	Bacchi	Crop Production	546			
RCD6	10789	502, 503	Avadh Bihari	Swamideen	Crop Production	503			
RCD7	8.437	496, 497	Samrjeet	Jaswant	Crop Production	497			
RCD8	30.402	238, 263, 235	Raghuraj	Gyan Babu	Crop Production	235			
Simauni(2C1A7j1a)									
CD1	7.718	367, 319	Swamideen	Ramratan Singh	Crop Production	367			
CD2	9.671	352	Jaswant	Ramratan Singh	Crop Production	352			

CD3	7.19	309	Gyan Babu	Jagdish	Crop Production	309			
CD4	7.833	344	Jaswant	Bhoora	Crop Production	344			
CD5	7.58	291	Shivram	Uditnarayan	Crop Production	291			
CD6	7.008	280	Kuldeep Singh	Chunbad	Crop Production	280			
CD7	7.015	2997, 2980	Rmabhavan	Shivram	Crop Production	2997			
CD8	10.841	2777, 2746	Prahlad	Shivram	Crop Production	2777			
CD9	11.937	1497	Sukhnandan	Ratifal	Crop Production	1497			
CD10	8.649	1448, 1446	Samarjeet	Shiv	Crop Production	1446			
CD11	8.31	337, 336	Chunbad	Devideen	Crop Production	336			
CD12	11.399	351	Shivram	Babu	Crop Production	351			
CD13	9.027	95	Shivram	Shivram	Crop Production	95			
CD14	8.848	70	Ratifal	Kunvar Bahadur	Crop Production	70			
CD15	8.649	427, 426	Shiv	Shiv Lal	Crop Production	427			
CD16	8.449	470	Krishn Bihari	Jagroop	Crop Production	470			
CD17	10.303	58, 59	Pratap Singh	Sabhajeet	Crop Production	58			
CD18	12.973	55	Ramgopal	Samrjeet	Crop Production	55			
RCD1	22.116	270, 268, 267, 243	Natthu	Ramgopal	Crop Production	270			

RCD2	15.528	319, 314	Hardayal Pratap	Ballu	Crop Production	319			
RCD3	20.046	361, 358	Bhoora	Hira Lal	Crop Production	361			
RCD4	20.328	43.42	Dev Pratap	Bacchi	Crop Production	43			
RCD5	17.482	37	Sabhajeet	Swamideen	Crop Production	37			
Bhatouli(2C1A7m1e)									
CD1	3.318	109, 110/1-3	Samrjeet	Gyan Babu	Crop Production	109, 110/1-3			
CD4	7.916	120/1-5	Ramgopal	Jaswant	Crop Production	120/1-5			
CD15	6.592	142/1-3	Ballu	Jaswant	Crop Production	142/1-3			
CD16	4.912	209, 194	Hira Lal	Brij Kishor	Crop Production	209, 194			
CD2	3.75	189	Bacchi	Shivram	Crop Production	189			
CD3	3.157	191/1-3	Ramratan Singh	Avadh Bihari	Crop Production	191/1-3			
CD5	1.413	29	Ramratan Singh	Samrjeet	Crop Production	29			
CD6	33.613	114/1-7, 50	Jagdish	Raghuraj	Crop Production	114/1-7, 50			
CD7	27.916	115, 102	Bhoora	Baccha	Crop Production	115, 102			
CD8	27.068	87, 50	Uditnarayan	Hira Lal	Crop Production	87, 50			
CD9	25.982	64, 80	Chunbad		Crop Production	64, 80			
CD10	25.342	272, 70	Shivram	Shivram	Crop Production	272, 70			
CD11	24.27	148, 146	Shivram	Ratifal	Crop	148, 146			

					Production				
CD12	26.041	95	Ratifal	Shiv	Crop Production	95			
CD13	3.005	124	Shiv	Devideen	Crop Production	124			
CD14	33.497	116, 56	Devideen	Babu	Crop Production	116, 56			
CD17	22.738	28, 38	Babu	Shivram	Crop Production	28, 38			
CD18	15.462	85, 86	Shivram	Kunvar Bahadur	Crop Production	85, 86			
CD19	15	153, 152	Kunvar Bahadur	Shiv Lal	Crop Production	153, 152			
CD20	15.183	144	Shiv Lal	Jagroop	Crop Production	144			
Bagehata(2C1A7j1b)									
CD1	20.65	204	Sabhajeet	Savitri	Crop Production	204			
CD2	15.555	223	Samrjeet	Ramnaresh	Crop Production	223			
CD3	12.545	229	Ramgopal	Ramvishal	Crop Production	229			
CD4	13.44	3425, 4835/3425	Ballu	Chunbaad	Crop Production	3425, 4835/3425			
CD5	17.529	3426, 3430	Hira Lal	Pratap Singh	Crop Production	3426, 3430			
CD6	12.95	4835/2021, 3442	Bacchi	Shiv Lal	Crop Production	4835/2021, 3442			
CD7	10.225	3756	Swamideen	Krishn Bihari	Crop Production	3756			
CD8	11.76	3947	Jaswant	Savitri	Crop Production	3947			
CD9	13.225	3972, 3971, 3927	Gyan Babu	Ramnaresh	Crop Production	3972, 3971, 3927			

CD10	11.65	3525, 3526	Jaswant	Ramvishal	Crop Production	3525, 3526			
CD11	15.008	3907, 3911	Jaswant	Sabhajeet	Crop Production	3907, 3911			
CD12	12.65	3544, 3545, 2656	Brij Kishor	Savitri	Crop Production	3544, 3545, 2656			
CD13	11.3	3360	Shivram	Ramnaresh	Crop Production	3360			
CD14	9.85	3385	Avadh Bihari	Ramvishal	Crop Production	3385			
CD15	16.8	3101, 3115, 3099	Samrjeet	Chunbaad	Crop Production	3101, 3115, 3099			
CD16	13.24	3058, 380	Raghuraj	Pratap Singh	Crop Production	3058, 380			
CD17	15.875	3159	Baccha	Ramratan Singh	Crop Production	3159			
CD18	15.002	3117	Hira Lal	Ramratan Singh	Crop Production	3117			
RCD1	28.85	3991		Jagdish	Crop Production	3991			
RCD2	32.5	3148	Shivram	Bhoora	Crop Production	3148			
RCD3	33.8	2682	Ratifal	Uditnarayan	Crop Production	2682			

Hardoulee(2C1A7j1g)

CD1	10.191	9	Devideen	Shivram	Crop Production	9			
CD2	10.314	597, 598	Babu	Shivram	Crop Production	597, 598			
CD3	11.122	835	Shivram	Ratifal	Crop Production	835			
CD4	6.173	850	Kunvar Bahadur	Shiv	Crop Production	850			
CD5	11.122	861	Shiv Lal	Devideen	Crop	861			

					Production				
CD6	6.394	846	Jagroop	Babu	Crop Production	846			
CD7	15.017	909	Sabhajeet	Shivram	Crop Production	909			
CD8	26.85	404	Savitri	Kunvar Bahadur	Crop Production	404			
CD9	16.634	940	Ramnaresh	Shiv Lal	Crop Production	940			
CD10	9.383	1137	Ramvishal	Jagroop	Crop Production	1137			
CD11	9.603	1152	Chunbaad	Sabhajeet	Crop Production	1152			
CD12	10.265	1248	Pratap Singh	Samrjeet	Crop Production	1248			
CD13	9.382	1148	Shiv Lal	Ramgopal	Crop Production	1148			
CD14	6.174	1267	Krishn Bihari	Ballu	Crop Production	1267			
CD15	6.222	1285	Savitri	Hira Lal	Crop Production	1285			
CD18	6.174	1231	Ramnaresh	Bacchi	Crop Production	1231			
RCD1	25.457	456	Ramvishal	Swamideen	Crop Production	456			
RCD2	30.319	307	Sabhajeet	Jaswant	Crop Production	307			
RCD3	21.354	1313	Savitri	Gyan Babu	Crop Production	1313			
CD16	11.403	1075	Ramnaresh	Jaswant	Crop Production	1075			
CD17	14.066	1091	Ramvishal	Jaswant	Crop Production	1091			
CD19	8.186	1082	Chunbaad	Brij Kishor	Crop	1082			

					Production				
			Pratap Singh	Shivram	Crop Production				
CD20	13.612	1229	Ramratan Singh	Avadh Bihari	Crop Production	1229			
CD21	13.612	1196	Ramratan Singh	Samrjeet	Crop Production	1196			
CD22	12.735	1186	Jagdish	Raghuraj	Crop Production	1186			
CD23	8.186	1175	Bhoora	Baccha	Crop Production	1175			
CD24	12.67	1050	Uditnarayan	Hira Lal	Crop Production	1050			
CD25	12.67	1032	Chunbad		Crop Production	1032			

Patvan(2C1A7k1c)

CD1	1.771	1687	Shivram	Ratifal	Crop Production	1687			
CD2	3.423	1175	Ratifal	Shiv	Crop Production	1175			
CD3	4.077	952	Shiv	Devideen	Crop Production	952			
CD4	4.881	570	Devideen	Babu	Crop Production	570			
CD5	5.729	580	Babu	Shivram	Crop Production	580			
CD6	5	736	Shivram	Kunvar Bahadur	Crop Production	736			
CD7	5	681	Kunvar Bahadur	Shiv Lal	Crop Production	681			
CD8	5.938	677	Shiv Lal	Jagroop	Crop Production	677			
CD9	38.229	667	Jagroop	Sabhajeet	Crop Production	667			

CD10	6.131	636	Sabhajeet	Savitri	Crop Production	636			
CD11	5.923	607	Samrjeet	Ramnaresh	Crop Production	607			
CD12	31.801	476	Ramgopal	Ramvishal	Crop Production	476			
CD13	5.074	388	Ballu	Chunbaad	Crop Production	388			
CD14	5.074	203	Hira Lal	Pratap Singh	Crop Production	203			
CD15	33.616	149	Bacchi	Shiv Lal	Crop Production	149			
CD16	4.286	142	Swamideen	Krishn Bihari	Crop Production	142			
CD17	5	139	Jaswant	Savitri	Crop Production	139			
CD18	6.89	139	Gyan Babu	Ramnaresh	Crop Production	139			
CD19	33.56	142	Jaswant	Ramvishal	Crop Production	142			
CD20	3.958	2704	Jaswant	Sabhajeet	Crop Production	2704			
CD21	4.211	2733	Brij Kishor	Savitri	Crop Production	2733			
CD22	4.211	4	Shivram	Ramnaresh	Crop Production	4			
CD23	5.045	2504	Avadh Bihari	Ramvishal	Crop Production	2504			
CD24	6.696	2480	Samrjeet	Chunbaad	Crop Production	2480			
CD25	6.458	1819	Raghuraj	Pratap Singh	Crop Production	1819			
CD26	6.19	1890	Baccha	Ramratan Singh	Crop Production	1890			

CD27	8.022	2459	Hira Lal	Ramratan Singh	Crop Production	2459			
RCD1	31.518	2484		Jagdish	Crop Production	2484			
RCD2	32.991	2453	Shivram	Bhoora	Crop Production	2453			
RCD3	32.991	2453	Ratifal	Uditnarayan	Crop Production	2453			
RCD4	37.993	2385	Shiv	Chunbad	Crop Production	2385			

Baghnra(2C1A7m2c)

CD1	23.87	95	Babu	Shivram	Crop Production	95			
CD2	24.195	1816	Shivram	Ratifal	Crop Production	1816			
CD3	22.5	1779	Kunvar Bahadur	Shiv	Crop Production	1779			
CD4	5.25	1831	Shiv Lal	Devideen	Crop Production	1831			
CD5	6.24	1648	Jagroop	Babu	Crop Production	1648			
CD6	28.05	109	Sabhajeet	Shivram	Crop Production	109			
CD7	27.98	131	Savitri	Kunvar Bahadur	Crop Production	131			
CD8	26.84	1462	Ramnaresh	Shiv Lal	Crop Production	1462			
CD9	7.62	323	Ramvishal	Jagroop	Crop Production	323			
CD10	29.09	1380	Chunbaad	Sabhajeet	Crop Production	1380			
CD11	27.96	1138	Pratap Singh	Samrjeet	Crop Production	1138			
CD12	7.37	1172	Shiv Lal	Ramgopal	Crop	1172			

					Production				
Murwal(2C1A7m2e)									
CD14	19.58	12, 3	Savitri	Hira Lal	Crop Production	12, 3			
CD16	21.57	125	Ramnaresh	Bacchi	Crop Production	125			
CD19	6.36	435	Ramvishal	Swamideen	Crop Production	435			
CD20	6	337	Sabhajeet	Jaswant	Crop Production	337			
CD25	7.38	105	Savitri	Gyan Babu	Crop Production	105			
CD26	6.64	1118	Ramnaresh	Jaswant	Crop Production	1118			
CD27	4.86	18	Ramvishal	Jaswant	Crop Production	18			
CD28	4.13	68	Chunbaad	Brij Kishor	Crop Production	68			
CD29	17.9	355	Pratap Singh	Shivram	Crop Production	355			
CD30	3.61	382	Jamuniya	Avadh Bihari	Crop Production	382			
CD4	20.56	205	Jamuniya	Samrjeet	Crop Production	205			
CD5	23.53	185	Jaggu	Raghuraj	Crop Production	185			
CD6	5.38	269	Bhaiyadeen	Baccha	Crop Production	269			
CD7	20.35	131	Lallu	Hira Lal	Crop Production	131			
CD31	6.89	242	Babu Lal		Crop Production	242			
CD32	5.29	328	Baccha	Shivram	Crop Production	328			

CD1	5.4	217	Natthu	Ratifal	Crop Production	217			
CD2	8.4	228	Hardayal Pratap	Shiv	Crop Production	228			
CD3	9.4	362	Bhoora	Devideen	Crop Production	362			
CD8	3.1	477	Dev Pratap	Babu	Crop Production	477			
CD9	21.3	450	Shivram	Shivram	Crop Production	450			
CD10	6.2	490	Kuldeep Singh	Kunvar Bahadur	Crop Production	490			
CD11	23	533	Rmabhavan	Shiv Lal	Crop Production	533			
CD12	4.5	503	Prahlad	Jagroop	Crop Production	503			
CD13	4.5	512	Sukhnandan	Sabhajeet	Crop Production	512			
CD15	4.8	552	Samarjeet	Savitri	Crop Production	552			
CD17	23.2	627	Sabhajeet	Ramnaresh	Crop Production	627			
CD18	3.6	662	Vardani	Ramvishal	Crop Production	662			
CD21	23.2	143	Hira Lal	Chunbaad	Crop Production	143			
CD22	3.2	311	Shivkaran	Pratap Singh	Crop Production	311			
CD23	4.3	328	Bhiya Lal	Shiv Lal	Crop Production	328			

4.3 Convergence in IWMP-XIII, Banda

There is no planning of convergence.

CHAPTER – 5

MANAGEMENT/ACTION PLAN

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

5.1 Entry Point Activities (EPA)

Entry point activities were executed with the consent of stake holders and it helped in winning the confidence of the villagers for moving ahead the other programmes of watershed. In total 10 EPA activities were executed in the project area which costed Rs. 26.58 lakh.

Name of PIA	Name of Project	Year	Name of Block	Name of project/ Name of village	Code of project	E.P.A cost in lakh	Name of Work	Cost in lakh	Remarks
\Soil Conservation Division-Rastriyta jalagam, Banda	IWMP-XIII	2011-12	Baberu	Simoni	2C1A7j1a	1.83	Puliya Cons. Naali, Kharanja Road Repairment	1.83	
				Bagehata	2C1A7j1b	2.72		2.72	
				Hardoulee	2C1A7j1g	2.49		2.49	
				Baghela	2C1A7k2c	3.17		3.17	
				Patvan	2C1A7k1c	2.60		2.60	
				Bhadavari	2C1A7k2d	5.58		5.58	
				Bhatouli	2C1A7m1e	2.93		2.93	
				Baghnra	2C1A7m2c	2.42		2.42	
				Murwal	2C1A7m2e	2.84		2.84	
	Total					26.58		26.58	

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 wood
- Lack of proper market facilities
- Low income of the households
- Lack of employment opportunity

Estimation of Runoff from the Watershed

Runoff from the watershed is estimated by Curve Number method of the Soil Conservation Service of the USDA using 15 years data (1996-2010). It is estimated that runoff potential of the project area is 300 mm, equivalent to 30-45 per cent of average annual rainfall. Expected runoff and soil loss from the project area are depicted Table 5.1

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

Sr. No.	Name of Micro Watershed	Cause	Type of erosion	Area affected (ha)	Run off (mm/ year)	Average Soil Loss (Tonnes/ ha/ year)
1	Simoni 2C1A7j1a	Water erosion				
		a	Sheet	300.23	300	10-15
		b	Rill	163.76		
		c	Gully	81.88		
		Total		545.88		
2	Baghata	Water erosion				

	2C1A7j1b	a	Sheet	444.12	300	10-15
		b	Rill	242.25		
		c	Gully	121.12		
		Total		807.49		
3	Hardoulee 2C1A7j1g	Water erosion				
		a	Sheet	409.21	300	10-15
		b	Rill	223.21		
		c	Gully	111.60		
		Total		744.02		
4	Baghela 2C1A7k2c	Water erosion				
		a	Sheet	422.16	300	10-15
		b	Rill	230.27		
		c	Gully	115.14		
		Total		767.57		
5	Patvan 2C1A7k1c	Water erosion				
		a	Sheet	519.78	300	10-15
		b	Rill	283.52		
		c	Gully	141.76		
		Total		945.06		
6	Bhadavari 2C1A7k2d	Water erosion				
		a	Sheet	920.99	300	10-15
		b	Rill	502.36		
		c	Gully	251.18		
		Total		1674.53		
7	Bhatouli	Water erosion				

	2C1A7m1e	a	Sheet	479.41	300	10-15
		b	Rill	261.50		
		c	Gully	130.75		
		Total		871.66		
8	Baghnra 2C1A7m2c	Water erosion				
		a	Sheet	393.21	300	10-15
		b	Rill	214.48		
		c	Gully	107.24		
		Total		714.93		
9	Kalhnuva 2C1A7m2e	Water erosion				
		a	Sheet	459.05	300	10-15
		b	Rill	250.39		
		c	Gully	125.19		
		Total		834.63		
	IWMP-XIII			7905.77		

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 micro-watershed and gram panchayat. Information of individual beneficiaries is kept in respective project file available with PIA. (Table 5.2 and 5.3). 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-XIII, Banda

Sr. No.	Particular of Measures/Activities	Unit	Simoni 2C1A7j1a		Bagehata 2C1A7j1b		Hardoli 2C1A7j1g		Baghela 2C1A7k2c	
			No., Length / ha, Volume	Qanty.	Cost (Rs. In lakh)	Qanty.	Cost (Rs. In lakh)	Qanty.	Cost (Rs. In lakh)	Qanty.
1	2	3	4	5	6	7	8	9	10	11
I	Soil & Water Conservation Measures									
	A- Moisture Conservation Measures									
	2. Peripheral Bund (with Sodding)	cum.	0	0.00	5844	2.41	0	0.00	0	0.00
	3. Marginal Bund (with Sodding)	cum.	17033	7.01	15340	6.32	15204	7.96	17593	11.48
	4. Submergence Bundhi (with Sodding)	cum.	0	0.00	6833	3.06	0	0.00	0	0.00
	B- Water Resource Development									
	3. Check Dam / Drop Spill Way	No.	10012	18.59	30875	26.31	29025	26.85	36454	32.94
	3a- Water storing capacity	cum.	11500	-	7560	-	10080	-	17920	-
	3b. Area proposed for irrigation	ha	19	-	13	-	17	-	30	-
	4. Water Harvesting Bund with surplushing structure	No.			0	0.00	0	0.00	0	0.00
	4a-Water storing capacity	cum.			0		0		0	
	4b. Area proposed for irrigation by WHB	ha			0		0		0	
	Sub Total			25.60		38.10		34.81		44.42
II	Livelihood for landless People									
	1. Goatary	No. of SHGs/ No. of beneficiaries	2/20	0.50	3/30	0.75	3/30	0.75	4/40	1.00
	2. Back Yard Poultry	-do-	2/20	0.50	3/30	0.75	3/30	0.75	4/40	1.00
	3. Poultry (Broiler)	-do-	2/20	0.50	3/30	0.75	2/20	0.50	3/30	0.75
	4. Black Smithy	-do-	1/10	0.25	2/20	0.50	2/20	0.50	3/30	0.75

	5. Rope Making (Linseed)	-do-	1/10	0.25	2/20	0.50	2/20	0.50	3/30	0.75
	6. Tailoring	-do-	2/20	0.50	2/20	0.50	2/20	0.50	3/30	0.75
	7. Vermi composting	-do-	2/20	0.50	3/30	0.75	2/20	0.50	3/30	0.75
	8. Fruit Processing	-do-	2/20	0.50	3/30	0.75	3/30	0.75	3/30	0.75
	9. Seed Bank	-do-	2/20	0.61	3/30	0.87	3/30	0.84	3/30	0.64
	Sub Total		16/160	4.11	24/240	6.12	22/220	5.59	29/290	7.14
III	Agriculture Production System									
	A- Crop Demonstrations- (Crop Wise)									
	(1)SMC Area:									
		No. of farmers / Area (ha)	5/2.0	0.24	8/3.2	0.38	8/3.6	0.38	9/3.6	0.43
	1 Gram	-do-	5/2.0	0.27	8/3.2	0.44	7/2.8	0.38	9/3.6	0.49
	2 Lentil	-do-	5/2.0	0.29	8/3.2	0.46	7/2.8	0.40	9/3.6	0.52
	3. Arhar	-do-	5/2.0	0.08	8/3.2	0.14	7/2.8	0.12	9/3.6	0.15
	4. Sorgham	-do-	5/2.0	0.18	8/3.2	0.28	7/2.8	0.25	9/3.6	0.32
	5. Bajra	-do-	5/2.0	0.18	8/3.2	0.29	7/2.8	0.26	9/3.6	0.33
	6. Paddy	-do-	5/2.0	0.15	8/3.2	0.24	7/2.8	0.21	9/3.6	0.27
	7. Wheat	-do-	5/2.0	0.29	8/3.2	0.46	7/2.8	0.40	9/3.6	0.52
	8. Urd	-do-	5/2.0	0.24	8/3.2	0.33	7/2.8	0.38	9/3.6	0.43
	(2) Water Resource Area:									
	B- Production of seeds									
		No. of farmers / Area (ha)	5/2.0	0.24	8/3.2	0.38	7/2.8	0.33	9/3.6	0.43
	1 Gram	-do-	5/2.0	0.27	8/3.2	0.44	7/2.8	0.38	9/3.6	0.49
	2 Lentil	-do-	5/2.0	0.29	7/2.8	0.40	7/2.8	0.40	9/3.6	0.52
	3. Arhar	-do-	5/2.0	0.08	7/2.8	0.12	7/2.8	0.12	9/3.6	0.15
	4. Sorgham	-do-	5/2.0	0.18	7/2.8	0.25	7/2.8	0.25	9/3.6	0.32
	5. Bajra	-do-	5/2.0	0.18	7/2.8	0.26	7/2.8	0.26	9/3.6	0.33
	6. Paddy	-do-	5/2.0	0.18	7/2.8	0.26	7/2.8	0.26	9/3.6	0.33

	7. Wheat	-do-	5/2.0	0.15	7/2.8	0.21	7/2.8	0.21	9/3.6	0.27
	8. Urd	-do-	5/2.0	0.29	7/2.8	0.40	7/2.8	0.40	9/3.6	0.52
	Agro forestry:-									
	A. Agri-Horticultural System									
	Species									
	1- Aonla	Area in ha	2	0.36	3	0.54	2	0.36	3	0.54
	2. Guava	Area in ha	2	0.36	2	0.36	2	0.36	3	0.54
	Live Stock Management									
	A. fodder production	Farmers/ No. of Units	37	0.22	41	0.25	39	0.23	48	0.29
	B. Vaccination/Medication	No. of Animals	36	0.02	45	0.03	39	0.02	47	0.03
	C. Artificial Insemination	No. of Animals	36	0.01	45	0.02	39	0.02	46	0.02
	D. Natural Service.	He Buffalo	1	0.24	2	0.48	2	0.48	2	0.48
	Total for Ag. Production System			4.57		6.80		6.22		7.93
	Grand Total			334.29		51.03		46.62		59.49

Cont.

Sr. No.	Particular of Measures/Activities	Unit	Patvan 2C1A7k1c		Bhadavari 2C1A7k2d		Bhatouli 2C1A7m1e		Baghnra 2C1A7m2c	
			No., Length / ha, Volume	Qanty.	Cost (Rs. In lakh)	Qanty .	Cost (Rs. In lakh)	Qanty .	Cost (Rs. In lakh)	Qanty.
1	2	3	4	5	6	7	8	9	10	11
I	Soil & Water Conservation Measures									
	A- Moisture Conservation Measures									
	2. Peripheral Bund (with Sodding)	cum.	0	0.00	0	0.00	0	0	0	0.00
	3. Marginal Bund (with Sodding)	cum.	23874	9.83	27832	11.46	0	0	23368	11.54
	4. Submergence Bundhi (with Sodding)	cum.	0	0.00	0	0.00	29664	14.349	0	0.00
	B- Water Resource Development									
	3. Check Dam / Drop Spill Way	No.	1	26.59	73931	66.69	12596	21.942	15185	15.93
	3a- Water storing capacity	cum.	13330	-	30000	-	8000	-	4200	
	3b. Area proposed for irrigation	ha	22	-	50	-	13.33	-	7.00	
	4. Water Harvesting Bund with surplushing structure	No.	0	0.00	0	0.00	3010	4.701	4845	6.40
	4a-Water storing capacity	cum.	0		0		1300		1300	
	4b. Area proposed for irrigation by WHB	ha	0		0		2		2	
	Sub Total			36.42		78.15		40.99		33.87
II	Livelihood for landless People									
	1. Goatary	No. of SHGs/ No. of beneficiaries	3/30	0.75	6/60	1.50	3/30	0.75	3/30	0.75
	2. Back Yard Poultry	-do-	3/30	0.75	6/60	1.50	3/30	0.75	3/30	0.75
	3. Poultry (Broiler)	-do-	2/20	0.50	6/60	1.50	3/30	0.75	3/30	0.75

	4. Black Smithy	-do-	2/20	0.50	5/50	1.25	3/30	0.75	2/20	0.50
	5. Rope Making (Linseed)	-do-	2/20	0.50	5/50	1.25	2/20	0.50	2/20	0.50
	6. Tailoring	-do-	2/20	0.50	5/50	1.25	3/30	0.75	2/20	0.50
	7. Vermi composting	-do-	3/30	0.75	5/50	1.25	3/30	0.75	2/20	0.50
	8. Fruit Processing	-do-	3/30	0.75	6/60	1.50	3/30	0.75	2/20	0.50
	9. Seed Bank	-do-	3/30	0.85	6/60	1.56	3/30	0.84	3/30	0.69
	Sub Total		23/230	5.85	50/500	12.56	26/260	6.59	22/220	5.44
III	<u>Agriculture Production System</u>									
	(1)SMC Area									
	A- Crop Demonstrations- (Crop Wise)									
	1. Lentil	No. of farmers / Area (ha)	8/3.2	0.38	15/6.0	0.71	9/3.6	0.43	7/2.8	0.33
	2. Chickpea	-do-	8/3.2	0.44	15/6.0	0.82	8/3.2	0.44	7/2.8	0.38
	3. Field Pea	-do-	8/3.2	0.46	15/6.0	0.86	8/3.2	0.46	7/2.8	0.40
	4. Til	-do-	8/3.2	0.14	15/6.0	0.25	8/3.2	0.14	7/2.8	0.12
	5. Urd	-do-	7/2.8	0.25	15/6.0	0.53	8/3.2	0.28	7/2.8	0.25
	6. Moong	-do-	7/2.8	0.26	15/6.0	0.55	8/3.2	0.29	7/2.8	0.26
	7. Arhar	-do-	7/2.8	0.21	15/6.0	0.44	8/3.2	0.24	7/2.8	0.21
	8. Wheat	-do-	7/2.8	0.40	15/6.0	0.87	8/3.2	0.46	7/2.8	0.40
	(2) Water Resource Area:									
	B- Production of seeds									
	1. Lentil	No. of farmers / Area (ha)	7/2.8	0.33	15/6.0	0.71	8/3.2	0.38	6/2.4	0.28
	2. Chickpea	-do-	7/2.8	0.38	15/6.0	0.82	8/3.2	0.44	6/2.4	0.33
	3. Field Pea	-do-	7/2.8	0.40	15/6.0	0.86	8/3.2	0.46	7/2.8	0.40
	4. Til	-do-	7/2.8	0.12	15/6.0	0.25	8/3.2	0.14	7/2.8	0.12
	5. Urd	-do-	7/2.8	0.25	15/6.0	0.53	8/3.2	0.28	7/2.8	0.25
	6. Moong	-do-	7/2.8	0.26	15/6.0	0.55	8/3.2	0.29	7/2.8	0.26

	7. Arhar	-do-	7/2.8	0.21	15/6.0	0.44	8/3.2	0.24	7/2.8	0.21
	8. Wheat	-do-	7/2.8	0.40	15/6.0	0.87	8/3.2	0.46	7/2.8	0.40
Agro forestry:-										
	1- Aonla	Area in ha	3	0.54	6	1.08	3	0.54	2	0.36
	2. Guava	Area in ha	2	0.36	6	1.08	3	0.54	2	0.36
Live Stock Management										
	A. fodder production	Farmers/ No. of Units	36	0.22	76	0.46	49	0.29	36	0.22
	B. Vaccination/Medication	No. of Animals	36	0.02	78	0.05	52	0.03	38	0.02
	C. Artificial Insemination	No. of Animals	36	0.01	77	0.03	52	0.02	38	0.02
	D. Natural Service.	He Buffalo	2	0.48	5	1.20	2	0.48	2	0.48
Total for Ag. Production System				6.50		13.96		7.32		6.05
Grand Total				48.78		104.67		54.90		45.36

Cont.

Sr. No.	Particular of Measures/Activities	Unit	Kalhnuva 2C1A7m2e		IWMP-XIII	
		No., Length / ha, Volume	Qanty.	Cost (Rs. In lakh)	Qanty.	Cost (Rs. In lakh)
1	2	3	4	5	10	11
I	Soil & Water Conservation Measures					
	A- Moisture Conservation Measures					
	2. Peripheral Bund (with Sodding)	cum.	0	0.00	5844	2.41
	3. Marginal Bund (with Sodding)	cum.	18838	7.63	159081	73.24
	4. Submergence Bundhi (with Sodding)	cum.	0	0.00	36497	17.41
	B- Water Resource Development					
	3. Check Dam / Drop Spill Way	No.	28772	25.56	236851	261.40
	3a- Water storing capacity	cum.	11200		113790	
	3b. Area proposed for irrigation	ha	19		190	
	4. Water Harvesting Bund with surplushing structure	No.	4288	6.59	12143	17.69
	4a-Water storing capacity	cum.	1700		4300	0.00

	4b. Area proposed for irrigation by WHB	ha	3		7	0.00
	Sub Total			39.78		372.15
II	<u>Livelihood for landless People</u>					
	1. Goatary	No. of SHGs/ No. of beneficiaries	3/30	0.75	30/300	7.50
	2. Back Yard Poultry	-do-	3/30	0.75	30/300	7.50
	3. Poultry (Broiler)	-do-	3/30	0.75	27/270	6.75
	4. Black Smithy	-do-	3/30	0.75	23/230	5.75
	5. Rope Making (Linseed)	-do-	2/20	0.50	21/210	5.25
	6. Tailoring	-do-	3/30	0.75	24/240	6.00
	7. Vermi composting	-do-	3/30	0.75	26/260	6.50
	8. Fruit Processing	-do-	3/30	0.75	28/280	7.00
	9. Seed Bank	-do-	3/30	0.64	29/290	7.56
	Sub Total		26/260	6.39	238/2880	59.81
III	<u>Agriculture Production System</u>					
	(1)SMC Area					
	A- Crop Demonstrations- (Crop Wise)					
	1. Lentil	No. of farmers / Area (ha)	8/2.0	0.38	77/30.8	3.65
	2. Chickpea	-do-	8/2.0	0.44	75/30.0	4.08
	3. Field Pea	-do-	8/2.0	0.46	75/30.0	4.31
	4. Til	-do-	8/2.0	0.14	75/30.0	1.27
	5. Urd	-do-	8/2.0	0.28	74/29.6	2.62
	6. Moong	-do-	8/2.0	0.29	74/29.6	2.70
	7. Arhar	-do-	8/2.0	0.24	74/29.6	2.18
	8. Wheat	-do-	8/2.0	0.46	74/29.6	4.28
	(2) Water Resource Area:					
	B- Production of seeds					

	1. Lentil	No. of farmers / Area (ha)	8/2.0	0.38	73/29.2		3.46
	2. Chickpea	-do-	8/2.0	0.44	73/29.2		3.97
	3. Field Pea	-do-	8/2.0	0.46	73/29.2		4.19
	4. Til	-do-	8/2.0	0.14	73/29.2		1.24
	5. Urd	-do-	8/2.0	0.28	73/29.2		2.59
	6. Moong	-do-	8/2.0	0.29	73/29.2		2.66
	7. Arhar	-do-	8/2.0	0.24	73/29.2		2.15
	8. Wheat	-do-	8/2.0	0.46	73/29.2		4.22
	Agro forestry:-						
	1- Aonla	Area in ha	3	0.54	27		4.86
	2. Guava	Area in ha	2	0.36	24		4.32
	Live Stock Management						
	A. fodder production	Farmers/ No. of Units	51	0.31	413		2.48
	B. Vaccination/Medication	No. of Animals	51	0.03	422		0.25
	C. Artificial Insemination	No. of Animals	51	0.02	420		0.17
	D. Natural Service.	He Buffalo	2	0.48	20		4.80
	Total for Ag. Production System			7.10			66.46
	Grand Total			53.28			498.42

Table 5.3: Gram Panchayat wise details of Watershed Development Activities proposed in IWMP-XIII, Banda

Sr. No.	Particular of Measures/Activities	Unit	Murval		Godhani		Ragauli		Anausa	
		No., Length / ha, Volume	Qanty.	Cost (Rs. In lakh)	Qanty.	Cost (Rs. In lakh)	Qanty.	Cost (Rs. In lakh)	Qanty.	Cost (Rs. In lakh)
1	2	3	4	5	6	7	8	9	10	11
I	Soil & Water Conservation Measures									
	A- Moisture Conservation Measures									
	2. Peripheral Bund (with Sodding)	cum.	466	0.19	0	0.00	285	0.12	345	0.14

	3. Marginal Bund (with Sodding)	cum.	12697	5.85	1868	0.86	7756	3.57	9393	4.32
	4.Submergence Bundhi (with Sodding)	cum.	2913	1.39	169	0.08	1779	0.85	2155	1.03
B- Water Resource Development										
	3. Check Dam / Drop Spill Way	No.	18904	20.86	0	0	11547	12.74	13985	15.43
	3a- Water storing capacity	cum.	9082	0	0	0	5548	0.00	6719	0.00
	3b. Area proposed for irrigation	ha	15	0	0	0	9	0.00	11	0.00
	4. Water Harvesting Bund with surplushing structure	No.	969	1.41	0	0	592	0.86	717	1.04
	4a-Water storing capacity	cum.	343	0	0	0	210	0.00	254	0.00
	4b. Area proposed for irrigation by WHB	ha	1	0	0	0	0.3	0.00	0.4	0.00
	Sub Total			29.70		0.94		18.14		21.97
II	Livelihood for landless People									
	1. Goatary	No. of SHGs/ No. of beneficiaries	2/20	0.50	0	0.00	2/20	0.50	2/20	0.50
	2. Back Yard Poultry	-do-	3/30	0.75	0	0.00	1/10	0.25	2/20	0.50
	3. Poultry (Broiler)	-do-	2/20	0.50	0	0.00	1/10	0.25	2/20	0.50
	4. Black Smithy	-do-	2/20	0.50	0	0.00	1/10	0.25	1/10	0.25
	5. Rope Making (Linseed)	-do-	2/20	0.50	0	0.00	1/10	0.25	1/10	0.25
	6. Tailoring	-do-	2/20	0.50	0	0.00	1/10	0.25	1/10	0.25
	7. Vermi composting	-do-	2/20	0.50	0	0.00	1/10	0.25	1/10	0.25
	8. Fruit Processing	-do-	2/20	0.50	0	0.00	1/10	0.25	2/20	0.50
	9. Seed Bank	-do-	2/20	0.52	1/10	0.15	2/20	0.67	2/20	0.53
	Sub Total		19/190	4.77	1/10	0.15	11/110	2.92	14/140	3.53
III	Agriculture Production System									
	A- Crop Demonstrations- (Crop Wise)									
	(1)SMC Area:									
	1 Gram	No. of farmers /	6/2.4	0.28	1	0.05	4/1.6	0.19	5/2.0	0.24

		Area (ha)								
	2 Lentil	-do-	6/2.4	0.33	1	0.05	4/1.6	0.22	5/2.0	0.27
	3. Arhar	-do-	6/2.4	0.34	0	0.00	4/1.6	0.23	5/2.0	0.29
	4. Sorgham	-do-	6/2.4	0.10	0	0.00	4/1.6	0.07	5/2.0	0.08
	5. Bajra	-do-	6/2.4	0.21	0	0.00	4/1.6	0.14	5/2.0	0.18
	6. Paddy	-do-	6/2.4	0.22	0	0.00	4/1.6	0.15	5/2.0	0.18
	7. Wheat	-do-	6/2.4	0.18	0	0.00	4/1.6	0.12	5/2.0	0.15
	8. Urd	-do-	6/2.4	0.35	0	0.00	4/1.6	0.23	5/2.0	0.29
	(2) Water Resource Area:									
	B- Production of seeds									
	1 Gram	No. of farmers / Area (ha)	6/2.4	0.28	0	0.00	4/1.6	0.19	4/1.6	0.19
	2 Lentil	-do-	6/2.4	0.33	0	0.00	4/1.6	0.22	4/1.6	0.22
	3. Arhar	-do-	6/2.4	0.34	0	0.00	4/1.6	0.23	4/1.6	0.23
	4. Sorgham	-do-	6/2.4	0.10	0	0.00	4/1.6	0.07	4/1.6	0.07
	5. Bajra	-do-	6/2.4	0.21	0	0.00	4/1.6	0.14	4/1.6	0.14
	6. Paddy	-do-	6/2.4	0.22	0	0.00	4/1.6	0.15	4/1.6	0.15
	7. Wheat	-do-	6/2.4	0.18	0	0.00	4/1.6	0.12	4/1.6	0.12
	8. Urd	-do-	6/2.4	0.35	0	0.00	4/1.6	0.23	4/1.6	0.23
	Agro forestry:-									
	A. Agri-Horticultural System									
	Species									
	1- Aonla	Area in ha	2	0.36	0	0.00	1	0.18	1	0.18
	2. Guava	Area in ha	2	0.36	0	0.00	1	0.18	1	0.18
	Live Stock Management									
	A. fodder production	Farmers/ No. of Units	45	0.27	8	0.05	28	0.17	43	0.26
	B. Vaccination/Medication	No. of Animals	49	0.03	18	0.01	29	0.02	47	0.03
	C. Artificial Insemination	No. of Animals	49	0.02	18	0.01	29	0.01	48	0.02

	D. Natural Service.	He Buffalo	1	0.24	0	0.00	0	0.00	1	0.24
	Total for Ag. Production System			5.30		0.17		3.24		3.92
	Grand Total			39.78		1.26		24.30		29.43

Cont.

Sr. No.	Particular of Measures/Activities	Unit	Padari		Simauni		Bagehta		Tolakala	
		No., Length / ha, Volume	Qanty.	Cost (Rs. In lakh)	Qanty .	Cost (Rs. In lakh)	Qanty .	Cost (Rs. In lakh)	Qanty.	Cost (Rs. In lakh)
1	2	3	4	5	6	7	8	9	10	11
I	Soil & Water Conservation Measures									
	A- Moisture Conservation Measures									
	2. Peripheral Bund (with Sodding)	cum.	671	0.28	210	0.09	168	0.07	1027	0.42
	3. Marginal Bund (with Sodding)	cum.	18269	8.41	5716	2.63	4567	2.10	26082	12.01
	4. Submergence Bundhi (with Sodding)	cum.	4191	2.00	1311	0.63	1048	0.50	6243	2.98
	B- Water Resource Development									
	3. Check Dam / Drop Spill Way	No.	27201	30.02	8511	9.39	6800	7.51	41614	45.93
	3a- Water storing capacity	cum.	13068	0.00	4089	0.00	3267	0.00	19992	0.00
	3b. Area proposed for irrigation	ha	22	0.00	7	0.00	5	0.00	33	0.00
	4. Water Harvesting Bund with surplushing structure	No.	1394	2.03	436	0.64	349	0.51	2133	3.11
	4a-Water storing capacity	cum.	494	0.00	155	0.00	123	0.00	755	0.00
	4b. Area proposed for irrigation by W.H.B	ha	1	0.00	0.3	0.00	0.2	0.00	1	0.00
	Sub Total			0.94		18.14		10.68		64.44
II	Livelihood for landless People									
	1. Goatary	No. of SHGs/ No.	3/30	0.75	1/10	0.25	1/10	0.25	5/2.0	1.25

		of beneficiaries								
2.	Back Yard Poultry	-do-	3/30	0.75	1/10	0.25	1/10	0.25	5/2.0	1.25
3.	Poultry (Broiler)	-do-	3/30	0.75	1/10	0.25	1/10	0.25	5/2.0	1.25
4.	Black Smithy	-do-	3/30	0.75	1/10	0.25	1/10	0.25	4/1.6	1.00
5.	Rope Making (Linseed)	-do-	3/30	0.75	1/10	0.25	0	0.00	4/1.6	1.00
6.	Tailoring	-do-	3/30	0.75	0	0.00	0	0.00	4/1.6	1.00
7.	Vermi composting	-do-	3/30	0.75	1/10	0.25	1/10	0.25	4	1.00
8.	Fruit Processing	-do-	3/30	0.75	1/10	0.25	1/10	0.25	5/2.0	1.25
9.	Seed Bank	-do-	3/30	0.87	1/10	0.40	1/10	0.22	5/2.0	1.36
Sub Total			27/270	6.87	8/80	2.15	7/70	1.72	41/410	10.36
III	<u>Agriculture Production System</u>									
(1)SMC Area										
A- Crop Demonstrations- (Crop Wise)										
1.	Lentil	No. of farmers / Area (ha)	8/3.2	0.38	3/1.2	0.14	2/0.8	0.09	12	0.57
2.	Chickpea	-do-	8/3.2	0.44	3/1.2	0.16	2/0.8	0.11	10/4.0	0.54
3.	Field Pea	-do-	8/3.2	0.46	3/1.2	0.17	2/0.8	0.11	11/4.4	0.63
4.	Til	-do-	8/3.2	0.14	3/1.2	0.05	2/0.8	0.03	12/4.8	0.20
5.	Urd	-do-	8/3.2	0.28	3/1.2	0.11	2/0.8	0.07	11/4.4	0.39
6.	Moong	-do-	8/3.2	0.29	3/1.2	0.11	2/0.8	0.07	11/4.4	0.40
7.	Arhar	-do-	8/3.2	0.24	3/1.2	0.09	2/0.8	0.06	11/4.4	0.32
8.	Wheat	-do-	8/3.2	0.46	3/1.2	0.17	2/0.8	0.12	11/4.4	0.64
(2) Water Resource Area:										
B- Production of seeds										
1.	Lentil	No. of farmers / Area (ha)	8/3.2	0.38	3/1.2	0.14	2/0.8	0.09	11/4.4	0.52
2.	Chickpea	-do-	8/3.2	0.44	3/1.2	0.16	2/0.8	0.11	11/4.4	0.60

	3. Field Pea	-do-	8/3.2	0.46	3/1.2	0.17	2/0.8	0.11	11/4.4	0.63
	4. Til	-do-	8/3.2	0.14	3/1.2	0.05	2/0.8	0.03	11/4.4	0.19
	5. Urd	-do-	8/3.2	0.28	3/1.2	0.11	2/0.8	0.07	12/4.8	0.43
	6. Moong	-do-	8/3.2	0.29	3/1.2	0.11	2/0.8	0.07	12/4.8	0.44
	7. Arhar	-do-	8/3.2	0.24	3/1.2	0.09	2/0.8	0.06	13/5.2	0.38
	8. Wheat	-do-	8/3.2	0.46	3/1.2	0.17	2/0.8	0.12	13/5.2	0.75
	<u>Agro forestry:-</u>									
	1- Aonla	Area in ha	3	0.54	1	0.18	1	0.18	7	1.26
	2. Guava	Area in ha	3	0.54	0	0.00	1	0.18	7	1.26
	<u>Live Stock Management</u>									
	A. fodder production	Farmers/ No. of Units	66	0.40	28	0.17	30	0.18	23	0.14
	B. Vaccination/Medication	No. of Animals	70	0.04	28	0.02	26	0.02	15	0.01
	C. Artificial Insemination	No. of Animals	69	0.03	27	0.01	27	0.01	14	0.01
	D. Natural Service.	He Buffalo	3	0.72	0	0.00	0	0.00	5	1.20
	Total for Ag. Production System			7.63		2.39		1.91		11.51
	Grand Total			57.24		17.19		14.31		86.31

Sr. No .	Particular of Measures/Activities	Unit	Byonja		Hardauli		Baghela		Patvan	
		No., Length / ha, Volume	Qanty.	Cost (Rs. In lakh)	Qanty .	Cost (Rs. In lakh)	Qanty .	Cost (Rs. In lakh)	Qanty.	Cost (Rs. In lakh)
1	2	3	4	5	6	7	8	9	10	11
I	Soil & Water Conservation Measures									
	A- Moisture Conservation Measures									
	2. Peripheral Bund (with Sodding)	cum.	829	0.34	553	0.23	140	0.06	910	0.37
	3. Marginal Bund (with Sodding)	cum.	22578	10.40	15052	6.93	3820	1.76	24761	11.40

	4.Submergence Bundhi (with Sodding)	cum.	5180	2.47	3453	1.65	877	0.42	5681	2.71
	B- Water Resource Development									
	3. Check Dam / Drop Spill Way	No.	33616	37.10	22411	24.73	5688	6.28	36866	40.69
	3a- Water storing capacity	cum.	16150	0.00	10767	0.00	2733	0.00	17712	0.00
	3b. Area proposed for irrigation	ha	27	0.00	18	0.00	5	0.00	30	0.00
	4. Water Harvesting Bund with surplushing structure	No.	1723	2.51	1149	1.67	292	0.42	1890	2.75
	4a-Water storing capacity	cum.	610	0.00	407	0.00	103	0.00	669	0.00
	4b. Area proposed for irrigation by WHB	ha	1	0.00	1	0.00	0.2	0.00	1.1	0.00
	Sub Total			52.82		35.21		8.94		57.93
II	Livelihood for landless People									
	1. Goatary	No. of SHGs/ No. of beneficiaries	4/40	1.00	3/30	0.75	1/10	0.25	4/40	1.00
	2. Back Yard Poultry	-do-	4/40	1.00	3/30	0.75	1/10	0.25	5/50	1.25
	3. Poultry (Broiler)	-do-	4/40	1.00	2/20	0.50	1/10	0.25	4/40	1.00
	4. Black Smithy	-do-	3/30	0.75	2/20	0.50	0	0.00	4/40	1.00
	5. Rope Making (Linseed)	-do-	3/30	0.75	2/20	0.50	0	0.00	3/30	0.75
	6. Tailoring	-do-	4/40	1.00	2/20	0.50	0	0.00	6/60	1.50
	7. Vermi composting	-do-	4/40	1.00	3/30	0.75	1/10	0.25	4/40	1.00
	8. Fruit Processing	-do-	4/40	1.00	3/30	0.75	1/10	0.25	4/40	1.00
	9. Seed Bank	-do-	4/40	0.99	3/30	0.66	1/10	0.19	3/30	0.81
	Sub Total		34/340	8.49	23/230	5.66	6/60	1.44	37/370	9.31
III	Agriculture Production System									
	(1)SMC Area									
	A- Crop Demonstrations- (Crop Wise)									
	1. Lentil	No. of farmers /	11/4.4	0.52	7/2.8	0.33	3/1.2	0.14	11/4.4	0.52

		Area (ha)								
2. Chickpea	-do-	11/4.4	0.60	7/2.8	0.38	3/1.2	0.16	11/4.4	0.60	
3. Field Pea	-do-	11/4.4	0.63	7/2.8	0.40	3/1.2	0.17	11/4.4	0.63	
4. Til	-do-	11/4.4	0.19	7/2.8	0.12	2/0.8	0.03	11/4.4	0.19	
5. Urd	-do-	11/4.4	0.39	7/2.8	0.25	2/0.8	0.07	11/4.4	0.39	
6. Moong	-do-	11/4.4	0.40	7/2.8	0.26	2/0.8	0.07	11/4.4	0.40	
7. Arhar	-do-	11/4.4	0.32	7/2.8	0.21	2/0.8	0.06	11/4.4	0.32	
8. Wheat	-do-	11/4.4	0.64	7/2.8	0.40	2/0.8	0.12	11/4.4	0.64	
(2) Water Resource Area:										
B- Production of seeds										
1. Lentil	No. of farmers / Area (ha)	11/4.4	0.52	7/2.8	0.33	2/0.8	0.09	11/4.4	0.52	
2. Chickpea	-do-	11/4.4	0.60	7/2.8	0.38	2/0.8	0.11	11/4.4	0.60	
3. Field Pea	-do-	11/4.4	0.63	7/2.8	0.40	2/0.8	0.11	11/4.4	0.63	
4. Til	-do-	11/4.4	0.19	7/2.8	0.12	2/0.8	0.03	11/4.4	0.19	
5. Urd	-do-	11/4.4	0.39	7/2.8	0.25	2/0.8	0.07	11/4.4	0.39	
6. Moong	-do-	11/4.4	0.40	7/2.8	0.26	2/0.8	0.07	11/4.4	0.40	
7. Arhar	-do-	10/4.0	0.30	7/2.8	0.21	2/0.8	0.06	11/4.4	0.32	
8. Wheat	-do-	10/4.0	0.58	7/2.8	0.40	2/0.8	0.12	11/4.4	0.64	
Agro forestry:-										
1- Aonla	Area in ha	4	0.72	2	0.36	0	0.00	5	0.90	
2. Guava	Area in ha	3	0.54	2	0.36	0	0.00	4	0.72	
Live Stock Management										
A. fodder production	Farmers/ No. of Units	24	0.14	56	0.34	13	0.08	20	0.12	
B. Vaccination/Medication	No. of Animals	13	0.01	56	0.03	17	0.01	28	0.02	
C. Artificial Insemination	No. of Animals	18	0.01	57	0.02	17	0.01	21	0.01	
D. Natural Service.	He Buffalo	3	0.72	2	0.48	0	0.00	5	1.20	
Total for Ag. Production System			9.43		6.29		1.60		10.34	
Grand Total			70.74		47.16		11.97		77.58	

Cont.

Sr. No.	Particular of Measures/Activities	Unit	Baberu Dehat		IWMP-XIII	
			No., Length / ha, Volume	Qanty.	Cost (Rs. In lakh)	Qanty.
1	2	3		4	5	
I	Soil & Water Conservation Measures					
	A- Moisture Conservation Measures					
	2. Peripheral Bund (with Sodding)	cum.	240	0.10	5844	2.41
	3. Marginal Bund (with Sodding)	cum.	6521	3.00	159081	73.24
	4. Submergence Bundhi (with Sodding)	cum.	1496	0.71	36497	17.41
	B- Water Resource Development					
	3. Check Dam / Drop Spill Way	No.	9708	10.71	236851	261.40
	3a- Water storing capacity	cum.	4664	0.00	113790	
	3b. Area proposed for irrigation	ha	8	0.00	190	
	4. Water Harvesting Bund with surplushing structure	No.	498	0.73	12143	17.69
	4a-Water storing capacity	cum.	176	0.00	4300	0.00
	4b. Area proposed for irrigation by WHB	ha	0.3	0.00	7	0.00
	Sub Total				15.25	372.15
II	Livelihood for landless People					
	1. Goatary	No. of SHGs/ No. of beneficiaries	2/20	0.50	30/300	7.50
	2. Back Yard Poultry	-do-	1/10	0.25	30/300	7.50
	3. Poultry (Broiler)	-do-	1/10	0.25	27/270	6.75
	4. Black Smithy	-do-	1/10	0.25	23/230	5.75
	5. Rope Making (Linseed)	-do-	1/10	0.25	21/210	5.25
	6. Tailoring	-do-	1/10	0.25	24/240	6.00
	7. Vermi composting	-do-	1/10	0.25	26/260	6.50

	8. Fruit Processing	-do-	1/10	0.25	28/280	7.00
	9. Seed Bank	-do-	1/10	0.20	29/290	7.56
	Sub Total		10/100	2.45	238/2880	59.81
III	<u>Agriculture Production System</u>					
	(1)SMC Area					
	A- Crop Demonstrations- (Crop Wise)					
	1. Lentil	No. of farmers / Area (ha)	4/1.6	0.19	77/30.8	3.65
	2. Chickpea	-do-	4/1.6	0.22	75/30.0	4.08
	3. Field Pea	-do-	4/1.6	0.23	75/30.0	4.31
	4. Til	-do-	4/1.6	0.07	75/30.0	1.27
	5. Urd	-do-	4/1.6	0.14	74/29.6	2.62
	6. Moong	-do-	4/1.6	0.15	74/29.6	2.70
	7. Arhar	-do-	4/1.6	0.12	74/29.6	2.18
	8. Wheat	-do-	4/1.6	0.23	74/29.6	4.28
	(2) Water Resource Area:					
	B- Production of seeds					
	1. Lentil	No. of farmers / Area (ha)	4/1.6	0.19	73/29.2	3.46
	2. Chickpea	-do-	4/1.6	0.22	73/29.2	3.97
	3. Field Pea	-do-	4/1.6	0.23	73/29.2	4.19
	4. Til	-do-	4/1.6	0.07	73/29.2	1.24
	5. Urd	-do-	3/1.2	0.11	73/29.2	2.59
	6. Moong	-do-	3/1.2	0.11	73/29.2	2.66
	7. Arhar	-do-	3/1.2	0.09	73/29.2	2.15
	8. Wheat	-do-	3/1.2	0.17	73/29.2	4.22
	Agro forestry:-					
	1- Aonla	Area in ha	0	0.00	27	4.86
	2. Guava	Area in ha	0	0.00	24	4.32

	Live Stock Management					
A. fodder production	Farmers/ No. of Units	29	0.17	413	2.48	
B. Vaccination/Medication	No. of Animals	26	0.02	422	0.25	
C. Artificial Insemination	No. of Animals	26	0.01	420	0.17	
D. Natural Service.	He Buffalo	0	0.00	20	4.80	
Total for Ag. Production System			2.72		66.46	
Grand Total			20.43		498.42	

DESIGN AND ESTIMATES OF CHECKDAM

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

			Taken					
c	0.5	Coeff						
I	86.758	mm/hr						
A	25	ha						
Q	3.0124			Cumec				

HYDRAULIC DESIGN								
	Length of crest weir (m)		2					
	Weir height (m)		h					
		Q = 1.71*L*h power (3/2)						
		h power 3/2	0.8808					
				Taken				
		h	0.919	0.8	h1			
		h + free board	0.9649	0.95				
	Height of WHB		2.35					
	Height of water drop (H)		1.40		Say	1.4		

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

					Z	0.228951		
	Point of Resultant (xbar+Z)					0.803194		
					EA	0.925758		
					P*H/3	457.3333		
					W*EA	3136.467		
					b/6	0.25		
					b/2	0.75		
	e = xbar+Z-b/2				e (OF)	0.053194		
	fmax = Wn/b(1+6*e/b)				fmax	1890.311		
A Safety against sliding								
					(mu*W)/P	1.192857		
B Safety against overturning					(W*EA)/(P*H/3)	2.082255		
C Safety against Tension					e<b/6 or b/6-e should be +ive	0.196806		
D Safety against Crushing					Permiss comp Stress kg/sqm	say	10000	
					PCS-fmax should be +ive		8109.689	
Depth of Foundation								
			Normal scour depth, dn		0.473[Q/f]power1/3			
			Q (cumec)	3.012				
			Q (Cusec)	106.3				
			f is silt factor, take=		1			
			[q/f]		106.302			
			[q/f] power1/3		4.73711			
			dn (ft)		2.24065			
			dn (m)		0.68313			
			Maximum scour depth, dm		1.5*dn	1.02469		
							Technical Specification	

			Foundation depth, D	1.33 dm	1.36284		1.50	
Minimum length of headwall extension (m)			E=3h+0.6 or 1.5F whichever is greater					
			F is net drop from top of transverse sill to crest					
			St= height of transverse sill= h/3		0.316667	0.30		
			F (m)	1.1				
			E (m)	3.45	or	1.65	say	3.00
Length of Basin Lb								
			Lb (m)= F(2.28*h/F+0.52)	2.738			say	2.70
Height of the sidewall at end sill is taken to be minimum 1.5h1, but more than H/2								
			J (m)	1.5h1	1.2	more than H/2	0.7	1.20
Height of the sidewall at the weir end								
			Equal to gully depth	2.35				2.35
			M (m)	2(F+1.33h-J)			2.327	2.30
			K (m)	Lb+.1-M			0.473	0.90
Length of Wing wall (WL)								
			WL = 2.25h				2.1375	2.00
Depth of Toe Wall			h1+0.1				0.9	1.00

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

	a) Head wall coping	2.00	0.70	0.10	0.14			
	b) Apron	2.70	2.30	0.10	0.62			
	c) End sill coping	2.30	0.50	0.10	0.12			
				Total	0.88			
	Cement Concrete (1:4:8)							
	d) Toe wall	2.30	0.70	0.10	0.16			
	e) Apron	2.70	2.30	0.10	0.62			
	f) Side wall on both side	6.40	1.10	0.10	0.70			
	g) Wing wall on both side	4.00	1.00	0.10	0.40			
	h) Headwall and Headwall Extension	8.00	1.60	0.10	1.28			
				Total	3.17			
4	Requirement of sand to nullify the impact of cracks							
	a) Below cutoff wall	8.00	0.70	0.05	0.28			
	b) Below Headwall and headwall extension	8.00	1.60	0.05	0.64			
	c) Below side wall on both sides	6.40	1.10	0.05	0.35			
	d) Below wing wall on both side	4.00	1.00	0.05	0.20			
	e) Below apron	2.70	2.30	0.05	0.31			
	f) Below Toe wall	2.30	0.70	0.05	0.08			
				Total	1.86			
5	Stone Masonry in CM 1:4							
	a) Corewall	8.00	0.60	0.80	3.84			
	b) Headwall and Headwall Extension on both side-Foundation	8.00	1.50	0.70	8.40			
	c) Headwall+ Headwall Extension on both side above gully bed-super structure	8.00	1.10	1.40	12.32	Width=(0.7+1.5)/2= 1.10 m		
	d) Headwall Extension on both the side above crest	6.00	0.70	0.95	3.99			

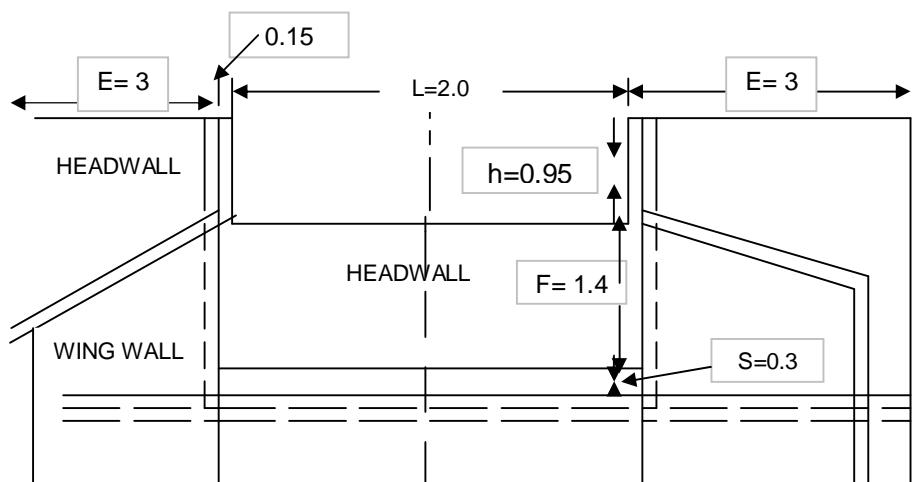
	e) Foundation for side wall on both side	6.00	1.10	1.25	8.25			
	f) Side wall on both side -super structure (K Part)-I	1.80	1.00	0.80	1.44			
	g) Side wall on both side-above part-I mentioned in (e): (K Part)-II	1.80	0.80	0.40	0.58			
	h) Side wall on both side above part-II mentioned in (f): (K Part)-III	1.80	0.70	0.60	0.76			
	i) Side wall on both side above part-II mentioned in (f): (K Part)-IV	1.80	0.60	0.55	0.59			
	j) Side wall on both side-Super structure (M Part)-I	4.60	1.00	0.80	3.68			
	k) Side wall on both side-Super structure (M Part)-II	4.60	0.80	0.40	1.47			
	l) Side wall on both side above Part-II mentioned in (i): (M Part)-III	4.60	0.70	0.575	1.85	Avg. ht. of triangle portion=	0.575	
	m) Foundation for wing wall on both side	4.00	0.80	1.00	3.20			
	n) Wing wall on both side-Super structure- Part- I	4.00	0.70	0.60	1.68			
	o) Wing wall on both side-Above Part-I mentioned in (l): Part -II	4.00	0.60	0.30	0.72	Avg. ht. of triangle portion=	0.30	
	p) Toe wall: Part I	2.30	0.70	0.50	0.81			
	q) Toe wall: Part II	2.30	0.60	0.50	0.69			
	r) Transverse Sill	2.30	0.50	0.30	0.35			
	s) Apron	2.70	2.30	0.25	1.55			

6	M S Bar (10 mm, q)						56.16		
7	Providing rough stone pitching in u/s (both side)	35.00	2.35	0.20		1.50			
8	Cement pointing to stone masonry in CM 1:3 (sqm)					16.45			
	a) Headwall both side + Extension u/s only	8.00		1.40	11.20				
	b) Side wall both side (RHS and LHS)-Part I	6.40		1.20	7.68				
	c) Side wall both side (RHS and LHS)-Part II	1.80		1.15	2.07				
	d) Side wall both side (RHS and LHS)-Part-III	4.60		0.575	2.65	Avg. ht. of triangle portion=	0.575		
	e) Wing wall both side-Part I	4.00		0.60	2.40				
	f) Wing wall both side-Part I	4.00		0.30	1.20	Avg. ht. of triangle portion=	0.30		
				Total	27.20				
9	Filling of black clay soil in the up stream (free from any kind of gravel)					5.00	trolley		

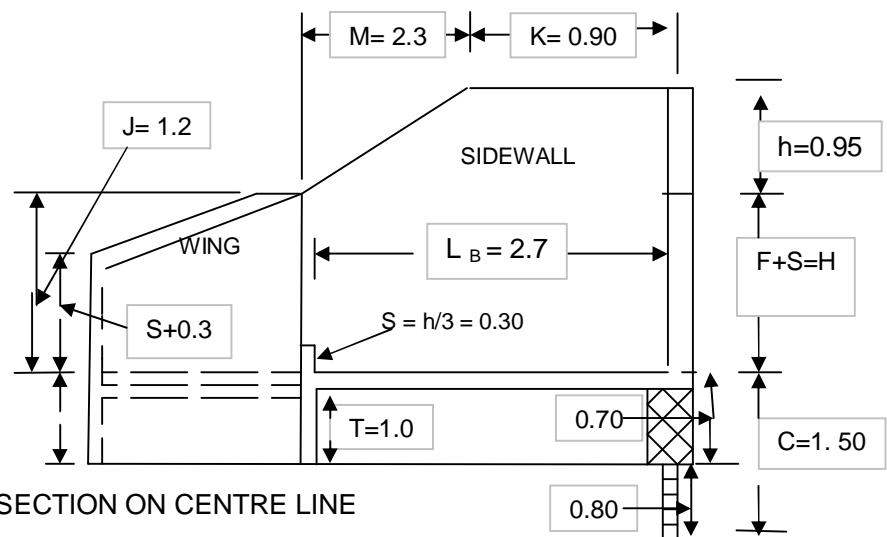
MATERIAL ABSTRACT											
					Required Quantiy						
					Quantiy,cum	Cement,bags	Sand,cum	Conc ,cum	Khanda (cum)	Boulder(cum)	MS Bar (q)
1	Cement Concrete mix (1:2:4): 12 mm conc.			0.88	5.61	0.39	0.79				
2	Cement Concrete mix (1:4:8); 20 mm conc.			3.17	10.76	1.49	2.98				
3	Stone Maspnary in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

COST ABSTRACT						
	Sl. No.	Item	Quantity	Unit	Rate (Rs./Unit)	Amount (Rs.)
A	1	Cement	158	Bag	300.00	47538.57
	2	Sand (good quality)	23.01	m ³	900.00	20710.47
	3	Concrete-12 mm	0.79	m ³	1300.00	1024.92
	4	Concrete-20 mm	2.98	m ³	1200.00	3571.25
	5	Khanda (8"x8"x8")	56.16	m ³	1000.00	56162.00
	6	M S Bar (10 mm Saria)	1.50	q	4500.00	6750.00
	7	Boulder	16.45	m ³	700.00	11515.00
	8	Filling of black clay soil in the up stream (free from any kind of gravel)	5.00	Trolley	700.00	3500.00
					Total	150772.20
B	9	Water supply through tanker @ 3 % of material cost				4523.17
C	10	Labour Charges @ 35%				52770.27
					Total (A+B+C)	208065.64
	11	Misc. @ 3%				6241.97
					G. Total	214307.61
		Rs. 2,14,308/- (Rs. Two lakh fourteen thousand three hundred eight only)				

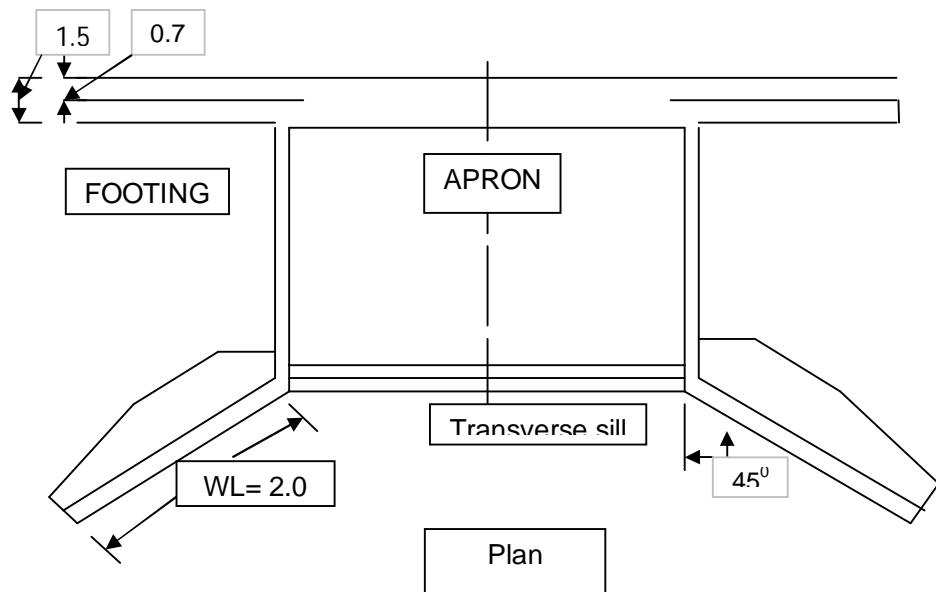
Note: The cost of materials is inclusive of all taxes and transportation to the site. It is based on the prevailing market rates. It may vary with respect to time



DOWN STREAM ELEVATION



SECTION ON CENTRE LINE



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

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

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

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

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

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

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

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

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

WORK ABSTRACT									
Sl. No.	Item	Specification (m)			Quantity (cum)				
		Length	Breadth	Depth					
1	Clearing of site (Removal of trees, shrubs and bushes)	8.00	10.00						
2	Earth work								
	a) in hard soil Headwall Foundation	1.75	2.50	1.00	4.38	Effective depth will be			

						0.7 m		
	b) in hard soil RHS of Headwall extension	3.00	2.50	1.20	9.00	"		
	c) in hard soil LHS of Headwall extension	3.00	2.50	1.20	9.00	"		
	d) in hard soil cutoff wall	7.75	1.60	0.70	8.68			
	e) in hard soil side wall on both side	6.00	2.00	2.00	24.00	Effective depth will be 1.25 m		
	f) in hard soil Toe wall	1.75	1.60	1.00	2.80	Effective depth will be 1.00 m		
	g) in hard soil Wing wall on both side	4.00	1.80	1.50	10.80	"		
	h) Apron	2.50	2.00	0.50	2.50			
					Total	71.16		
3	Cement concrete							
	Cement Concrete (1:2:4)							
	a) Head wall coping	1.75	0.60	0.10	0.11			
	b) Apron	2.50	2.00	0.10	0.50			
	c) End sill coping	2.00	0.50	0.10	0.10			
				Total	0.71			
	Cement Concrete (1:4:8)							
	d) Toe wall	2.00	0.70	0.10	0.14			
	e) Apron	2.50	2.00	0.10	0.50			
	f) Side wall on both side	6.00	1.10	0.10	0.66			
	g) Wing wall on both side	4.00	1.00	0.10	0.40			
	h) Headwall and Headwall Extension	7.75	1.60	0.10	1.24			

					Total	2.94		
4	Requirement of sand to nullify the impact of cracks							
	a) Below cutoff wall	7.75	0.70	0.05	0.27			
	b) Below Headwall and headwall extension	7.75	1.30	0.05	0.50			
	c) Below side wall on both sides	6.00	1.10	0.05	0.33			
	d) Below wing wall on both side	4.00	1.00	0.05	0.20			
	e) Below apron	2.50	2.00	0.05	0.25			
	f) Below Toe wall	2.00	0.70	0.05	0.07			
					Total	1.63		
5	Stone Masonry in CM 1:4							
	a) Corewall	7.75	0.60	0.70	3.26			
	b) Headwall and Headwall Extension on both side-Foundation	7.75	1.30	0.70	7.05			
	c) Headwall+ Headwall Extension on both side above gully bed-super structure	7.75	0.95	1.25	9.20	Width=(0.6+1.3)/2= 0.95 m		
	d) Headwall Extension on both the side above crest	6.00	0.60	0.95	3.42			
	e) Foundation for side wall on both side	6.00	1.10	1.25	8.25			
	f) Side wall on both side -super structure (K Part)-I	2.00	1.00	0.80	1.60			
	g) Side wall on both side-above part-I mentioned in (e): (K Part)-II	2.00	0.80	0.40	0.64			
	h) Side wall on both side above part-II mentioned in (f): (K Part)-III	2.00	0.70	0.60	0.84			
	i) Side wall on both side above part-II mentioned in (f): (K Part)-IV	2.00	0.60	0.40	0.48			

	j) Side wall on both side-Super structure (M Part)-I	4.00	1.00	0.80	3.20			
	k) Side wall on both side-Super structure (M Part)-II	4.00	0.80	0.40	1.28			
	l) Side wall on both side above Part-II mentioned in (i): (M Part)-III	4.00	0.70	0.500	1.40	Avg. ht. of triangle portion=	0.500	
	m) Foundation for wing wall on both side	4.00	0.80	1.00	3.20			
	n) Wing wall on both side-Super structure- Part- I	4.00	0.70	0.60	1.68			
	o) Wing wall on both side-Above Part-I mentioned in (l): Part -II	4.00	0.60	0.30	0.72	Avg. ht. of triangle portion=	0.30	
	p) Toe wall: Part I	2.00	0.70	0.50	0.70			
	q) Toe wall: Part II	2.00	0.60	0.50	0.60			
	r) Transverse Sill	2.00	0.50	0.30	0.30			
	s) Apron	2.50	2.00	0.25	1.25			
						49.07		
6	M S Bar (10 mm, q)					1.25		
7	Providing rough stone pitching in u/s (both side)	35.00	2.20	0.20	15.40			
8	Cement pointing to stone masonry in CM 1:3 (sqm)							
	a) Headwall both side + Extension u/s only	7.75		1.25	9.69			
	b) Side wall both side (RHS and LHS)-Part I	6.00		1.20	7.20			
	c) Side wall both side (RHS and LHS)-Part II	2.00		1.00	2.00			

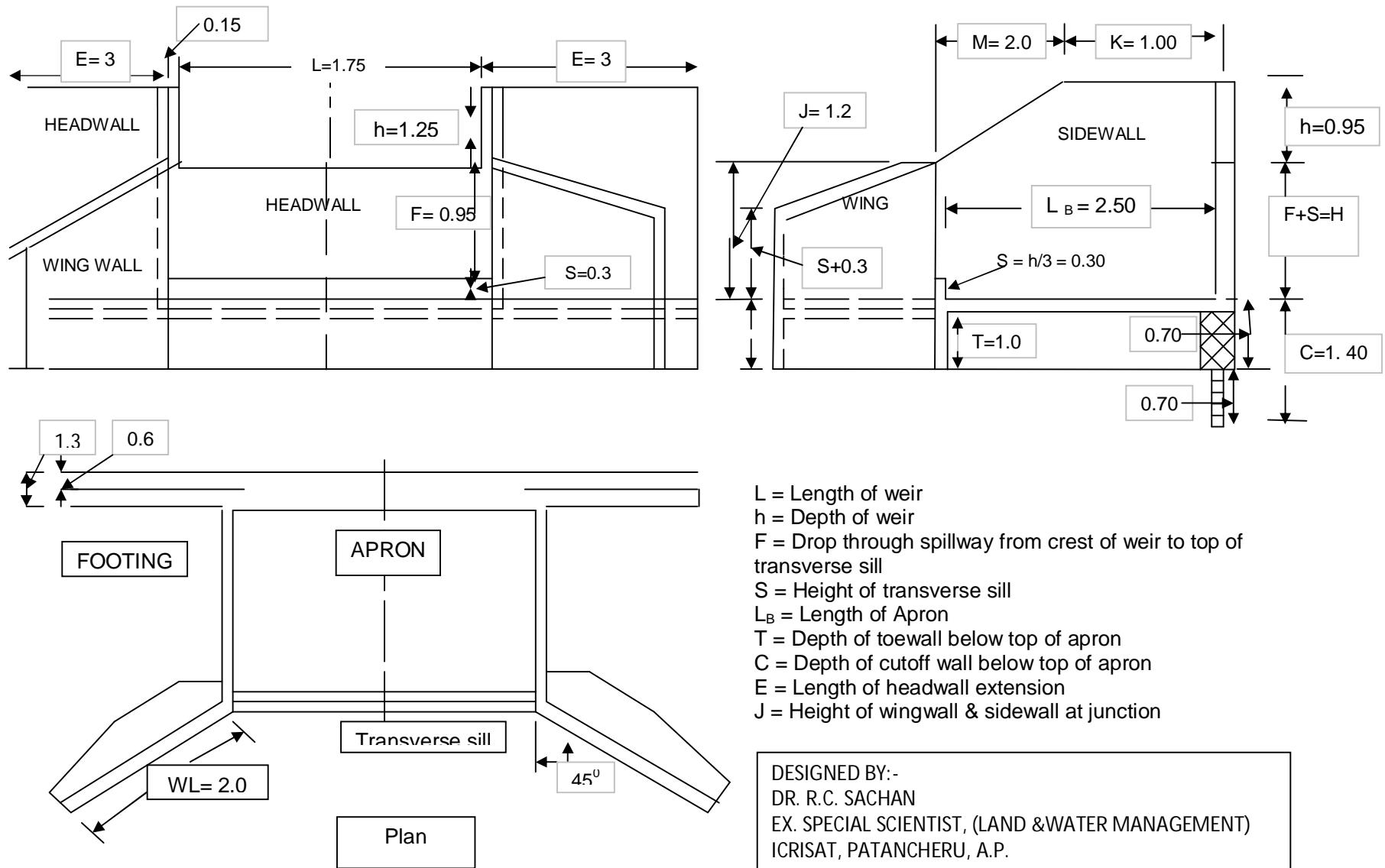
	d) Side wall both side (RHS and LHS)-Part-III	4.00		0.500	2.00	Avg. ht. of triangle portion=	0.500	
	e) Wing wall both side-Part I	4.00		0.60	2.40			
	f) Wing wall both side-Part I	4.00		0.30	1.20	Avg. ht. of triangle portion=	0.30	
				Total	24.49			
9	Filling of black clay soil in the up stream (free from any kind of gravel)				5.00	trolley		

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

8	Requirement of sand to nullify the impact of cracks			1.63					
			Total		138.70	20.16	49.07	15.40	1.25

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

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



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

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 ICRISAT, PATANCHERU, A.P.

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

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

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

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

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

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

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

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

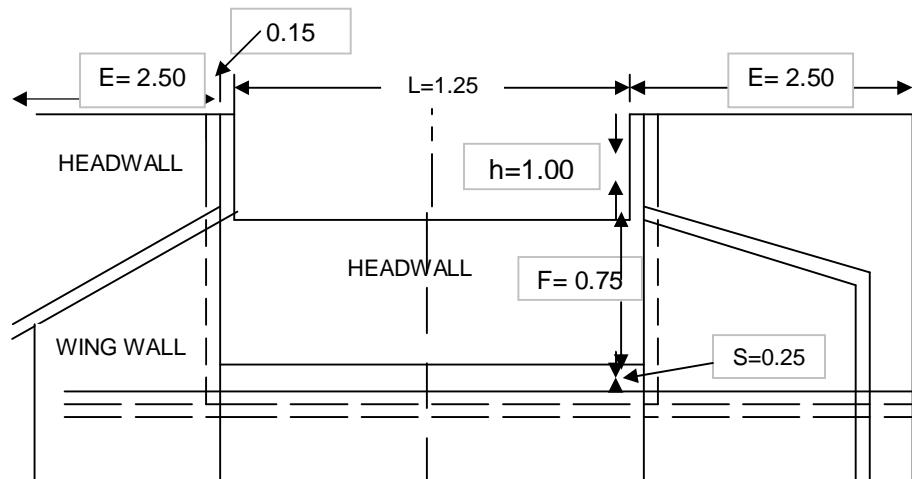
	d) Headwall Extension on both the side above crest	5.00	0.50	0.75	1.88			
	e) Foundation for side wall on both side	5.00	0.90	1.00	4.50			
	f) Side wall on both side -super structure (K Part)-I	2.00	0.80	0.50	0.80			
	g) Side wall on both side-above part-I mentioned in (e): (K Part)-II	2.00	0.70	0.50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

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

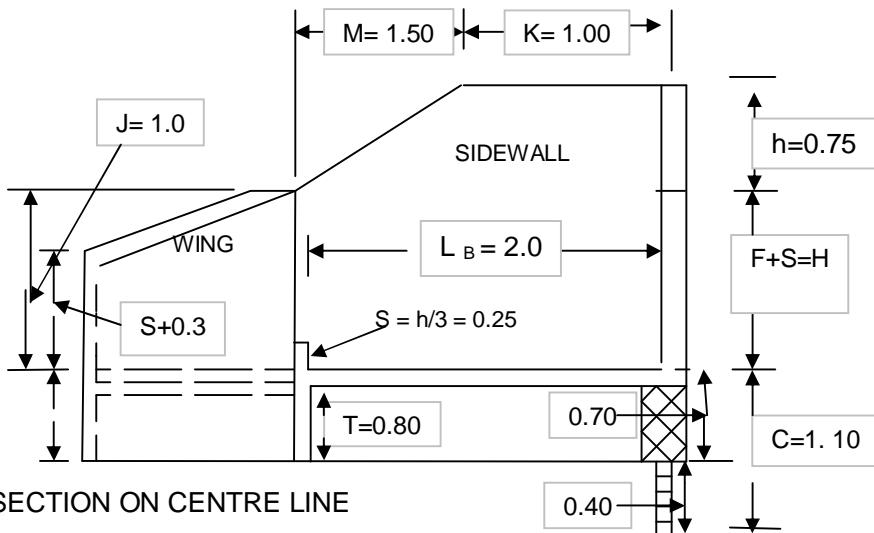
MATERIAL ABSTRACT											
					Required Quantiy						
					Quantiy,cum	Cement,bags	Sand,cum	Conc ,cum	Khanda (cum)	Boulder(cum)	MS Bar (q)
1	Cement Concrete mix (1:2:4): 12 mm conc.			0.44	2.80	0.20	0.39				
2	Cement Concrete mix (1:4:8); 20 mm conc.			2.31	7.84	1.08	2.17				
3	Stone Maspnary in CM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

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

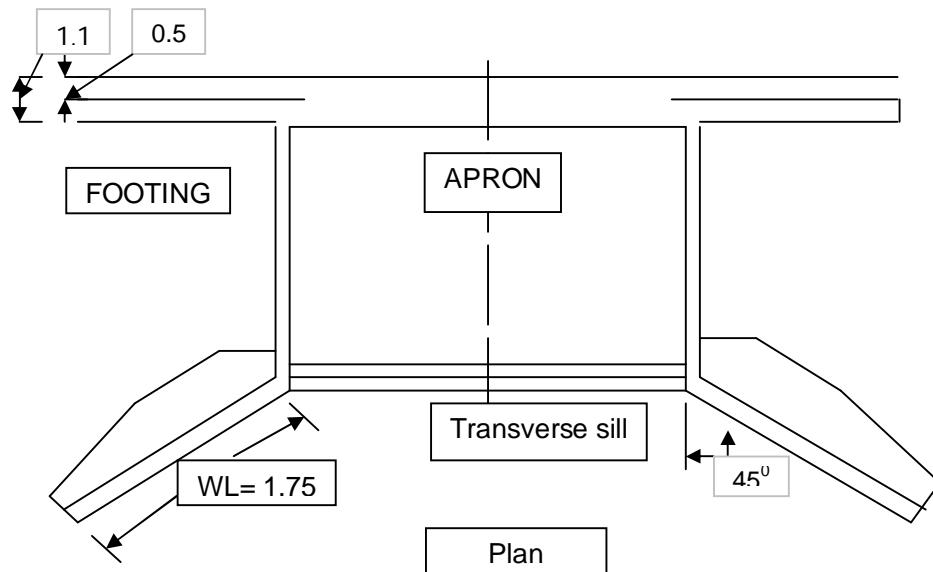
Note: The cost of materials is inclusive of all taxes and transportation to the site. It is based on the prevailing market rates. It may vary with respect to time



DOWN STREAM ELEVATION



SECTION ON CENTRE LINE



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

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

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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	Kamasin, Banda	Programme Coordinator	Agriculture University	Extension Agronomy Home Science Soil Science	16	800	Proposal with budget will be received
2.	National Research Center for Agro-Forestry	Gwalior Road, Jhansi	Director	GOI, (ICAR)	Agro-forestry and NRM on watershed basis	16	800	-do-
3	District Gram Vikash Bhawan, Banda	Vikash Bhawan, Banda	Coordinator	State Govt.	Small scale	4	100	-do-
4	Indian Institute of Grass Land	Gwalior Road, Jhansi	Director, Jhansi	GoI (ICAR)	Grasses and fodder	4	100	-do-
5	Dept. Of Horticulture	Banda	Deputy Director	State Govt.	Fruit and Vegetable Production	2	50	-do-

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

Table 6.2: Training to stakeholders on participatory watershed management*

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

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

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

CHAPTER - 7

PHASING OF PROGRAMME AND BUDGETING

7.1 Monitoring and Evaluation

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

Plan for Evaluation

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

Theme

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

Observations

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

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

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

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

7.2 Annual Action Plan (AAP)

Physical and financial targets and outlays and their year wise break ups are given Table 7.1. Year wise financial phasing for the budget available (Rs. 664.56 lakh) with IWMP-XIII, district Banda is given in Table 7.2.

Table 7.1: Physical and financial targets and outlays and their year wise break ups of IWMP-XIII, Banda, Banda, U.P.

Project - IWMP-XIII			PIA-Soil Conservation Unit, Rasstriya Jalagam, Banda						District-Banda			
S. No	Physical and financial targets	Unit	First Year 2011-12		Second Year 2012-13		Third Year 2013-14		Fourth Year 2014-15		Total Project	
			Physical	Financial	Physical	Financial	Physical	Financial	Physical	Financial	Physical	
1	Administration			3.32		33.23		19.94		9.97	0	66.46
2	Monitoring			0.00		3.32		1.66		1.66	0	6.65
3	Evaluation			0.00		1.33		2.99		2.33	0	6.65
4	Entry point activities	No.									0	0.00
	(1) Planned		10	26.58	0	0.00	0	0.00	0	0.00	10	26.58
	(a) No. of Activities	No.	10	0.00	0	0.00	0	0.00	0	0.00	10	0.00
	(b) No. of beneficiaries	No.	11900	0.00	0	0.00	0	0.00	0	0.00	11900	0.00
	(2) Executed		10	0.00	0	0.00	0	0.00	0	0.00	10	0.00
	(c) No. of Activities	No.	10	0.00	0	0.00	0	0.00	0	0.00	10	0.00
	(d) No. of beneficiaries	No.	11900	0.00	0	0.00	0	0.00	0	0.00	11900	0.00

5	Institutional & Capacity Building									0	0.00
	(1) No. of Persons to be trained		249	1.66	2525	16.61	2220	14.95		4994	33.23
	(a) SLNA level	No.	30	0.27	180	1.62	270	2.43		480	4.32
	(b) District level	„	30	0.24	270	2.16	270	2.16		570	4.56
	(c) PIA level (OFFICIAL/WDT/SECA RATERY)	„	30	0.21	480	3.36	360	2.52		870	6.09
	(c) PIA level (FARMERS)	„	159	0.94	1595	9.47	1320	7.84		3074	18.26
6	DPR Preparation	MWS No.	9	6.65	0	0.00	0	0.00	0	3	6.65
7	Watershed Development Works		-							0	0.00
	(1) SMC	cum	0	0.00	10071 1	46.53	60427	27.92	40284	18.61	20142 2
	(2) Water Resource Development										0
	(a) Structures	No.	0		140	139.55	84	83.73	56	55.82	280
	(b) Storage capacity	cum		-	59045	0.00	35427	0.00	23618	-	11809 0
	(c) Life saving irrigation area	ha.			98	0.00	59	0.00	39		197
	(d) User Groups	No.			140		84		56		280
8	Production system									0	0.00
	(1) Agriculture									0	0.00
	(a) Crop demonstration									0	0.00
	(1) No. of dem.	No.	0	0.00	269	11.29	269	11.29	60	2.51	598
	(2) Area	ha.			108		108		24		239
	(b) Seed Production		0							0	0.00

	(1) No. of dem.	No.	0	0.00	263	11.02	263	11.02	58	2.45	584	24.48
	(2) Area	ha.	0		105		105		23		234	0.00
	(2) Horticulture/ Agri-Horticulture		0								0	0.00
	(a) Area	ha.	0	0.00	2	4.13	2	4.13	0	0.92	4	9.18
	(b) No. of Plants	No.		0.00							0	0.00
	(4) Animal husbandry										0	0.00
	A. fodder production	No. of Units / Farmers	0	0.00	17	1.12	17	1.12	4	0.25	37	2.48
	B. Vaccination/Medication	No. of Animals			16	0.11	16	0.11	4	0.03	36	0.25
	C. Artificial Insemination	No. of Animals			16	0.08	16	0.08	4	0.02	36	0.17
	D. Natural Service.	He Buffalo			0	2.16	0	2.16	0	0.48	1	4.80
9	Livelihood activities through SHG's										0	0.00
	(1) Activity Goatary										0	0.00
	(a) No. of SHG's	No.	0	0.00	14	3.38	14	3.38	3	0.75	30	7.50
	(b) No. of members	No.	0	0.00	135	0.00	135	0.00	30	0.00	300	0.00
	(c) Estimated income per year	Rs.	0	0.00							0	0.00
	(2) Activity- Back Yard Poultry		0	0.00							0	0.00
	(a) No. of SHG's	No.	0	0.00	14	3.38	14	3.38	3	0.75	30	7.50
	(b) No. of members	No.	0	0.00	135	0.00	135	0.00	30	0.00	300	0.00
	(c) Estimated income per year	Rs.	0	0.00							0	0.00
	(3) Activity- Poultry , Broiler		0	0.00							0	0.00
	(a) No. of SHG's	No.	0	0.00	12	3.04	12	3.04	3	0.68	27	6.75
	(b) No. of members	No.	0	0.00	122	0.00	122	0.00	27	0.00	270	0.00

	(c) Estimated income per year	Rs.	0	0.00						0	0.00	
	(4) Black Smithy									0	0.00	
	(a) No. of SHG's	No.	0	0.00	10	2.59	10	2.59	2	0.58	23	5.75
	(b) No. of members	No.	0	0.00	104	0.00	104	0.00	23	0.00	230	0.00
	(c) Estimated income per year	Rs.	0	0.00		0.00	0	0.00	0	0.00	0	0.00
	(5) Rope making									0	0.00	
	(a) No. of SHG's	No.	0	0.00	9	2.36	9	2.36	2	0.53	21	5.25
	(b) No. of members	No.	0	0.00	95	0.00	95	0.00	21	0.00	210	0.00
	(c) Estimated income per year	Rs.	0	0.00						0	0.00	
	(6) Tailoring									0	0.00	
	(a) No. of SHG's	No.	0	0.00	11	2.70	11	2.70	2	0.60	24	6.00
	(b) No. of members	No.	0	0.00	108	0.00	108	0.00	24	0.00	240	0.00
	(c) Estimated income per year	Rs.	0	0.00		0.00	0	0.00	0	0.00	0	0.00
	(8) Vermi Composting									0	0.00	
	(a) No. of SHG's	No.	0	0.00	12	2.93	12	2.93	3	0.65	26	6.50
	(b) No. of members	No.	0	0.00	117	0.00	117	0.00	26	0.00	260	0.00
	(c) Estimated income per year	Rs.	0	0.00						0	0.00	
	(9) Food processing									0	0.00	
	(a) No. of SHG's	No.	0	0.00	13	3.15	13	3.15	3	0.70	28	7.00
	(b) No. of members	No.	0	0.00	126	0.00	126	0.00	28	0.00	280	0.00
	(c) Estimated income per year	Rs.	0	0.00						0	0.00	
	(13) Seed Bank									0	0.00	
	(a) No. of SHG's	No.	0	0.00	13	3.40	13	3.40	3	0.76	29	7.56

	(b) No. of members	No.	0	0.00	131	0.00	131	0.00	29	0.00	290	0.00
	(c) Estimated income per year	Rs.	0	0.00							0	0.00
	(14) Others (specify)										0	0.00
10	Consolidation & Withdrawal Phase activities		0	0.00	0	0.00	0	0.00	0	19.94	0	19.94
Grand Total											20824 3	664.56

Table 7.2: Year wise financial phasing (Rs in Lakh) Project IWMP-XIII, Banda, U.P.

Particulars	1st Year	2nd Year	3rd Year	4th Year	Total
Administrative Cost-10%	3.32	33.23	19.94	9.97	66.46
Monitering-1%	0.00	3.32	1.66	1.66	6.65
Evaluation-1%	0.00	1.33	2.99	2.33	6.65
Entry Point Activity-4%	26.58	0.00	0.00	0.00	26.58
Institution & Capacity Building-5%	1.66	16.61	14.95	0.00	33.23
DPR-1%	6.65	0.00	0.00	0.00	6.65
Watershed Dev. Work-56%	0.00	186.08	111.65	74.43	372.15
Livelihood Activity-9%	0.00	26.91	26.91	5.98	59.81
Production System & Micro enterprises-10%	0.00	29.91	29.91	6.65	66.46
Consolidation-3%	0.00	0.00	0.00	19.94	19.94
Total	38.21	297.39	208.01	120.95	664.56

7.3 Details of Convergence

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

7.4 Benefit Cost Analysis

Benefit cost analysis for the project were given in Table 7.3 and 7.4, respectively. The overall B:C ratio for pre and post project is 1.80 and 2.24, respectively,

**Table 7.3: Micro-watershed wise benefit cost analysis of IWMP-XIII, Banda
Present Outcome (Crops)**

S. No.	Name of Crop (Season wise)	Area (ha)	Production (quintal)	Productivity q/ha	Cost/ ha	Rate Rs/q	Gross Return Rs	Gross Return/ha	Total Cost Rs	Net Return	Net Return /ha	B:C Ratio
1	Urd	223.07	624.60	2.80	10000	4800	2998061	13440	1070736	1927325	8640	1.34
2	Moong	250.45	651.17	2.60	9100	3300	2148861	8580	826485	1322376	5280	0.94
3	Arhar	715.77	3364.12	4.70	13000	9000	30277071	42300	6441930	23835141	33300	3.25
4	Bajra	991.68	5751.76	5.80	5600	2700	15529756	15660	2677544	12852212	12960	2.80
5	Sorghum	576.92	5942.28	10.30	10000	2000	11884552	20600	11016695	39937053	69225	2.06
6	Til	2535	15709				62838301		22033390	79874107		
7	Paddy	1241.12	25691.18	20.70	12400	1300	33398530	26910	1613456	31785074	25610	2.17
	Total	1007.47	13600.78	13.50	8000	1600	21761244	21600	1611944	20149300	20000	2.70
1	Wheat	2100.56	10691.84	5.09	10000	3400	36352267	17306	7141899	29210368	13906	1.73
2	Barley	597.53	3692.74	6.18	9000	3600	13293847	22248	2151108	11142739	18648	2.47
3	Masoor	477.16	3697.99	7.75	8800	2400	8875176	18600	1145184	7729992	16200	2.11
4	Gram	5423.83	57374.52				113681065		13663591	100017474		1.83
5	Field Pea	111.85			Over All B:C	1.83						
	Total	7115.19										
	Cropping Intensity	5905.00										
	Cultivable Area (ha)	16937.8										

Total Number of Farm Families in MWS											
Net Return per Household	223.07	624.60	2.80	10000	4800	2998061	13440	1070736	1927325	8640	1.34

Expected Outcome (Crops)

S. No.	Name of Crop (Season wise)	Area (ha)	Production (quintal)	Productivity q/ha	Cost/ ha	Rate Rs/q	Gross Return Rs	Gross Return/ha	Total Cost Rs	Net Return	Net Return /ha	B:C Ratio
1	Urd	278.84	858.82	3.08	10000	4800	4122334	14784	1338420	2783914	9984	1.48
2	Moong	313.06	1064.41	3.4	9100	3300	3512561	11220	1033106	2479455	7920	1.23
3	Arhar	894.71	5457.75	6.1	13000	9000	49119716	54900	8052413	41067304	45900	4.22
4	Bajra	1239.60	9297.03	7.5	5600	2700	25101976	20250	3346930	21755046	17550	3.62
5	Sorghum	721.15	9663.41	13.4	10000	2000	19326820	26800	1442300	17884520	24800	2.68
6	Til	3447.37	26341.42				101183407	127954	15213169	85970238		
7	Paddy	1365.23	31127.28	22.8	12400	1300	40465465	29640	1774801	38690664	28340	2.39
	Total	1108.21	16512.35	14.9	8000	1600	26419762	23840	1773138	24646624	22240	2.98
1	Wheat	2310.61	12939.44	5.6	10000	3400	43994099	19040	7856089	36138010	15640	1.90
2	Barley	657.28	4469.52	6.8	9000	3600	16090288	24480	2366219	13724069	20880	2.72
3	Masoor	524.88	4461.45	8.5	8800	2400	10707470	20400	1259702	9447768	18000	2.32
4	Gram	5966.22	69510.04				137677085	117400	15029950	122647135		2.13
5	Field Pea	132.30			Over All B:C	2.13						
	Total	7115.19										

	Cropping Intensity	5905.00			20.45	1455						
	Cultivable Area (ha)	20770.05										
	Total Number of Farm Families in MWS											
	Net Return per Household	278.84	858.82	3.08	10000	4800	4122334	14784	1338420	2783914	9984	1.48

Present Outcome (Livestock)

Particulars	Cows	Buffaloes	Goat	Bullocks
Total Animals in Micro watershed Area	2362	797	9448	320
Milking Animals	1000	300	2300	
Average Milk Production Lit. / day	1580	1158	736	
Average Milk Production /Animal/ day	1.58	3.86	0.32	
Sale of Milk per day (Rs) @ Rs 15/Lit	23700	17370	11040	
Average 150 day milking days & Goat 90 days in a year (Total Rs)	3555000	2605500	993600	
Meat Animals			4000	
Average rate of one kids Rs			2500	
Total Sale in a year Rs			10000000	
Working Animals (Bullocks)				320
One year work one agriculture fields 200 days @ 220/ day (One pair)				36000

Total Work value of all Draft animals				5760000
Total monetary worth (Rs.)	3555000	2605500	10993600	5760000
				22914100
Total Family				5905
Total Income/Family				3880.46
Total Expenditure / family				2200
B:C Ratio				1.8

Projected Outcome (Livestock)

Particulars	Cows	Buffaloes	Goat	Bullocks
Total Animals in Micro watershed Area	3000	1000	11000	400
Milking Animals	1500	500	3200	
Average Milk Production Lit. / day	3300	2700	1920	
Average Milk Production /Animal/ day	2.2	5.4	0.6	
Sale of Milk per day (Rs) @ Rs 15/Lit	49500	40500	28800	
Average 150 day milking days & Goat 90 days in a year (Total Rs)	7425000	6075000	2592000	
Meat Animals			6000	
Average rate of one kids Rs			2800	
Total Sale in a year Rs			16800000	
Working Animals (Bullocks)				400
One year work one agriculture fields 200 days @ 220/ day (One pair)				44000
Total Work value of all Draft animals				8800000
Total monetary worth (Rs.)	7425000	6075000	19392000	8800000
				41692000

Total Family				5905
Total Income/Family				7060.46
Total Expenditure / family				3000
B:C Ratio				2.35

Table 7.4 : Outcomes & Benefit cost analysis of IWMP-XIII, Banda

Net Income / Family	Present	Projected
Agriculture	16938	20770
Animal Husbandry	3880	7060
Total (Ag+AH)	20818	27831
Over All B:C of MWS		
Agriculture	1.83	2.13
Animal Husbandry	1.76	2.35
Over All B: C MWS	1.80	2.24

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 ownership and these contributions will be deposited to the account of Watershed Development Fund. Watershed Development Fund will also be strengthening through donations from the individual and institutions and the CBOs will be trained to run watershed as business model on sustainable basis. The tangible economic benefits along with empowerment and hand holding by PIA will empower the CBOs to develop and sustain the watershed activities after withdrawal of the PIA. Community organizations will withdraw the money from the WDF to maintain the asset created during the implementation phase. The consolidation phase will also include

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

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

The completion report will reflect the development on following aspects:

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

CHAPTER - 9

EXPECTED PROJECT OUTCOME

9.1 Employment Generation and Checking Migration

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

Due to watershed management the cropping intensity will be increased by around 21.90 per cent, in turn acreage in agricultural activities will be increased by about 1450 ha. Therefore, an additional employment of about 1,45,000 human-days will be generated annually. Therefore, no migration in search of livelihoods is expected after implementation of watershed programme.

9.2 Other Expected Outcome*

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

- Runoff will be reduced by about 30 per cent, however soil and nutrient loss may be reduced up to 40 per cent from the watershed.
- Irrigation intensity may be increased to 40 per cent from present 3 per cent life saving irrigation.
- Surface water in nallah may be available for more than 8 months against 4-5 months at present.
- Average ground water recharge of about 2-4 m may be easily obtained after implementation of the programme
- Productivity of crops may be increased by about 15-25 per cent
- Significant saving of seeds may be obtained through crop demonstration with improved package of practices
- During implementation phase about 3,00,000 human-days will be created through the soil and water conservation measures and crop/agroforestry interventions.
- The overall B C ratio of the project is estimated to be 2.24 as compared to the 1.80 in pre project scenario (detailed analysis is given in Chapter 7)

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

9.3 Questions to be answered

This project will answer the following questions :

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

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

Following problems can be tackled in the proposed watershed :

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

ANNEXURE-I
BENEFICIARIES WISE DETAILS OF DEVELOPMENTAL ACTIVITIES

Village- Tola Kalan Block- Baberu Tehsil- Baberu Distt. Banda (2C1A7k2c)

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						
CD1	9.654	716	80	10.00+2.00*2.00/2		960				Shri Bhola Prasad, Ramsnehi etc.
					Existing	125				
					Net. E.W	835	44.34	37023.9	308.5325	
CD2	30.346	866, 689, 709	220	10.40+2.00*2.10/2		2864.4				Shri Santosh Kumar etc.
					Existing	1240				
					Net. E.W	2624.4	44.34	116366	969.7158	

Village- Baghela

MB1	6.244	847, 846, 844	140	5.50+1.00*1.50/2	4.875	682.5	44.34	30262.1	252.18375	
MB2	6.466	773, 776	145	5.50+1.00*1.50/2	4.875	706.875	44.34	31342.8	261.1903125	
MB3	8.91	1713, 1712, 1728, 1732	200	5.50+1.00*1.50/2	4.875	975	44.34	43231.5	360.2625	
MB4	8.021	1786, 1744, 1815, 1817	180	5.50+1.00*1.50/2	4.875	877.5	44.34	38908.4	324.23625	
MB5	6.689	1663, 1664, 1665, 1670	150	5.50+1.00*1.50/2	4.875	731.25	44.34	32423.6	270.196875	
Total			815			3973.125		176168	1468.069688	
CD3	10.981	1838	100	9.60+2.00*1.90/2		1102				Shri Ruddra Prasad, Sant Kumar etc.
					Existing	120				
					Net. E.W	982	44.34	43541.9	362.849	
CD4	17.065	1782, 1785	120	10.80+2.00*2.20/2		1689.6				Shri Rajbahadur etc.
					Existing	165				
					Net. E.W	1524.6	44.34	67600.8	563.3397	
CD5	9.845	903, 905, 893	90	9.40+2.00*1.85/2		949.05				
					Existing	70				
					Net. E.W	871.05	44.34	38622.4	321.852975	

CD6	13.733	1598, 1570	100	10.80+2.00*2.20/2		1408					Shri Ramasre, Shiv Prata etc.
					Existing	180					
					Net. E.W	1228	44.34	54449.5	453.746		
CD7	17.696	1634, 1640	80	10.40+2.00*2.10/2		1041.6					Shri Shiv Nandan, Chandrpal etc.
					Existing	72					
					Net. E.W	969.6	44.34	42992.1	358.2672		
RCD1	27.4	1765, 1751, 1758, 1760	130	11.60+2.00*2.40/2		2121.6					Shri Binda, Shri Bhavanideen etc.

Village- Byonja

MB10	11.478	114, 116	150	5.50+1.00*1.50/2	4.875	731.25	44.34	32423.6	270.196875	Shri Kotu, Shri Ram etc.
MB11	14.529	231, 232	190	5.50+1.00*1.50/2	4.875	926.25	44.34	41069.9	342.249375	Shri Indresh Kumar etc.
MB12	11.478	211	150	5.50+1.00*1.50/2	4.875	731.25	44.34	32423.6	270.196875	Smt. Rama Devi etc.
MB13	18.38	257, 256, 255	240	5.50+1.00*1.50/2	4.875	1170	44.34	51877.8	432.315	Shri Matiram Devi, Smt. Arti Devi
MB14	11.478	112, 113, 123, 127, 125	150	5.50+1.00*1.50/2	4.875	731.25	44.34	32423.6	270.196875	Shri Ram Sajeevan etc.
MB15	9.19	251, 272	120	5.50+1.00*1.50/2	4.875	585	44.34	25938.9	216.1575	Shri Jagat Lal etc.
MB16	13.537	271, 278, 226	180	5.50+1.00*1.50/2	4.875	877.5	44.34	38908.4	324.23625	Shri Durga Charan etc.
MB17	13.537	756, 765	180	5.50+1.00*1.50/2	4.875	877.5	44.34	38908.4	324.23625	Shri Ram
MB18	11.478	975	150	5.50+1.00*1.50/2	4.875	731.25	44.34	32423.6	270.196875	Shri Kaushal, Bibhor etc.
MB19	5.644	1300	100	4.75+1.00*1.25/2	3.6	360	44.34	15962.4	133.02	Shri Ram Pratap etc.
MB20	5.072	1377, 1378, 1379	90	4.75+1.00*1.25/2	3.6	324	44.34	14366.2	119.718	Shri Ramnarayan etc.
MB21	7.894	1334, 1330, 1329, 1328	140	4.75+1.00*1.25/2	3.6	504	44.34	22347.4	186.228	Shri Ram Kumar, Smt. Ram Pyari etc.
MB22	11.478	534	150	5.50+1.00*1.50/2	4.875	731.25	44.34	32423.6	270.196875	Shri Heera Lal etc.
MB23	13.539	403, 405, 414	180	5.50+1.00*1.50/2	4.875	877.5	44.34	38908.4	324.23625	Shri Shiv Autaar etc.
Total			2170			10158		450406	3753.381	
CD8	16.871	47, 48, 10	80	11.20+2.00*2.30/2						
					Existing	128				

					Net. E.W	1086.4	44.34	48171	401.4248	
CD9	20.273	28, 374	100	10.80+2.00*2.20/2		1408				
					Existing	104				
					Net. E.W	1304	44.34	57819.4	481.828	
CD10	10.312	102	70	9.20+2.00*1.80/2		1304				
					Existing	705.6				
					Net. E.W	42	44.34	1862.28	15.519	
CD11	15.187	97	80	10.40+2.00*2.10/2		1041.6				
					Existing	63				
					Net. E.W	978.6	44.34	43391.1	361.5927	
CD12	12.592	66, 67	70	10.00+2.00*2.00/2		8400				
					Existing	30				
					Net. E.W	810	44.34	35915.4	299.295	
CD13	11.574	133, 132	65	10.00+2.00*2.00/2		780				
					Existing	34.65				
					Net. E.W	745.35	44.34	33048.8	275.406825	
CD14	14.521	169, 160	70	10.80+2.00*2.20/2		985.6				
					Existing	50.62				
					Net. E.W	934.98	44.34	41457	345.47511	
CD15	15.958	35	80	10.80+2.00*2.20/2		1126.4				
					Existing	100				
					Net. E.W	1026.4	44.34	45510.6	379.2548	

Village- Majeema

MB6	14.043	1490, 1510, 1473	240	5.50+1.00*1.50/2	4.87	1168.8	41.23	48189.6	401.5802	
MB7	10.518	1813, 1814, 1815, 2780	180	5.50+1.00*1.50/2	4.87	876.6	41.23	36142.2	301.18515	
MB8	8.77	2693, 2691	150	5.50+1.00*1.50/2	4.87	730.5	41.23	30118.5	250.987625	
MB9	8.769	2631	150	5.50+1.00*1.50/2	4.87	730.5	41.23	30118.5	250.987625	
Total			720			3506.4		144569	1204.7406	
CD16	6.644	2951, 2950, 2949	80	10.80+2.00*2.20/2		1226.4				
					Existing	123.75				
					Net. E.W	1002.75	44.34	44461.9	370.516125	
CD17	7.736	2976, 2975	90	11.20+2.00*2.30/2		1366.2				
					Existing	198				
					Net. E.W	1168.2	44.34	51798	431.6499	
CD18	5.986	2945, 2943	80	10.00+2.00*2.00/2		960				
					Existing	56				
					Net. E.W	904	44.34	40083.4	334.028	
CD19	5.94	2889, 2890	80	10.00+2.00*2.00/2		960				
					Existing	62.5				
					Net. E.W	897.5	44.34	39795.2	331.62625	
CD20	7.213	2819, 2895	90	10.80+2.00*2.20/2		1267.2				
					Existing	180				
					Net. E.W	1087.2	44.34	48206.4	401.7204	
CD21	5.986	2800, 2799	80	10.00+2.00*2.00/2		960				
					Existing	56				
					Net. E.W	904	44.34	40083.4	334.028	
CD22	5.94	2805, 2803	80	10.00+2.00*2.00/2		960				
					Existing	62.5				
					Net. E.W	897.5	44.34	39795.2	331.62625	

CD23	7.213	2802, 1796, 1795	90	10.80+2.00*2.20/2		1267.2					
					Existing	180					
					Net. E.W	1087.2	44.34	48206.4	401.7204		
CD24	5.522	1797, 1796	75	10.00+2.00*2.00/2		900					
					Existing	67.5					
					Net. E.W	632.5	44.34	28045.1	233.70875		
CD25	5.267	1839, 1840	70	10.00+2.00*2.00/2		840					
					Existing	45					
					Net. E.W	795	44.34	35250.3	293.7525		
CD26	4.968	1891	65	10.00+2.00*2.00/2		780					
					Existing	30					
					Net. E.W	750	44.34	33255	277.125		
CD27	6.3	1934, 1933	80	10.40+2.00*2.10/2		1041.6					
					Existing	90					
					Net. E.W	951.6	44.34	42193.9	351.6162		
CD28	6.644	1940	80	10.80+2.00*2.20/2		1126.4					
					Existing	125					
					Net. E.W	1001.4	44.34	44402.1	370.0173		
CD29	8.141	1481, 1480, 1490	90	11.20+2.00*2.30/2		1366.2					
					Existing	137.5					
					Net. E.W	1228.7	44.34	54480.6	454.00465		
RCD1	23.669	2984, 3000, 2998	110	11.60+2.00*2.40/2		1795.2					
					Existing	134					
					Net. E.W	1561.2	44.34	69223.6	576.8634		
RCD2	30.03	1703, 1704, 1705, 1706	130	12.00+2.00*2.50/2		2275					
					Existing	252					
					Net. E.W	2023	44.34	89699.8	747.4985		

RCD3	27.201	1421, 1434, 1433, 1409	120	11.60+2.00*2.40/2		1958.4				
					Existing	126.9				
					Net. E.W	31.5	44.34	1396.71	11.63925	

Village- Patvan Block- Baberu Tehsil- Baberu Distt. Banda (2C1A7k2d)

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						
MB1	3.304	1275	150	4.20+0.60*1.50/2	3.6	540	41.23	22264.2	185.535	Shyam Lal, Natthu etc.
MB2	6.622	1457, 1448	300	4.20+0.60*1.50/2	3.6	1080	41.23	44528.4	371.07	Rohan, Ramsnehi
MB3	6.622	1522, 1506	300	4.20+0.60*1.50/2	3.6	1080	41.23	44528.4	371.07	Babadeen
MB4	4.405	1501	200	4.20+0.60*1.50/2	3.6	720	41.23	29685.6	247.38	Hira Lal, Bhaiya Lal etc.
MB5	5.506	1476, 1477	250	4.20+0.60*1.50/2	3.6	900	41.23	37107	309.225	Babadeen, Kaluva
Total			1200			4320		178114	1484.28	
CD1	4.42	1276	60	11.00+1.50*2.00/2	12.5	750	44.34	33255	277.125	Rameshwar
CD2	4.285	1296	60	11.00+1.50*2.00/2	12.5	750	44.34	33255	277.125	Foolchandra
CD3	4.479	1398	60	11.00+1.50*2.00/2	12.5	750	44.34	33255	277.125	Balveer, Devraj, Ramaraj
CD4	29.613	1358, 1359	80	11.00+1.50*2.00/2	12.5	1000	44.34	44340	369.5	Shripal, Jageshwar
CD5	5.595	1355	80	11.00+1.50*2.00/2	12.5	1000	44.34	44340	369.5	Sishupal
CD6	33.149	1465, 1467	100	11.00+1.50*2.00/2	12.5	1250	44.34	55425	461.875	Sundar, Kandhaiya
Total			440			5500		243870	2032.25	

Village- Baberu Dehat

MB6	2.202	7, 8, 9, 10	100	$4.20+0.60*1.50/2$	3.6	360	44.34	15962.4	133.02	Shiv Bhajan, Shivpoojan etc.
MB7	4.404	15, 16, 17	200	$4.20+0.60*1.50/2$	3.6	720	44.34	31924.8	266.04	Shiroman etc.
MB8	2.202	178	100	$4.20+0.60*1.50/2$	3.6	360	44.34	15962.4	133.02	Ranjeet Singh etc.
MB9	3.303	158	150	$4.20+0.60*1.50/2$	3.6	540	44.34	23943.6	199.53	Chandrpal, Jagroop
MB10	2.202	145, 152	100	$4.20+0.60*1.50/2$	3.6	360	44.34	15962.4	133.02	Chedi Lal, Smt. Chandavati
MB11	2.203	1089	100	$4.20+0.60*1.50/2$	3.6	360	44.34	15962.4	133.02	Jagdish Prasad
MB12	7.725	1062, 1063, 1064, 1065	350	$4.20+0.60*1.50/2$	3.6	1260	44.34	55868.4	465.57	Shivpal Singh, Jugpal Singh etc.
MB13	5.52	1189, 1190, 1191	250	$4.20+0.60*1.50/2$	3.6	900	44.34	39906	332.55	Bacchu Singh, Umadutt etc.
MB14	3.304	1205, 1206	150	$4.20+0.60*1.50/2$	3.6	540	44.34	23943.6	199.53	Lal Singh, Manmohan Singh etc.
MB15	5.52	1330, 1332, 1338/4141	250	$4.20+0.60*1.50/2$	3.6	900	44.34	39906	332.55	Jagdish Prasad, Suraj Pal Singh etc.
Total			1750			6300		279342	2327.85	
CD7	34.57	47, 52, 55	100	$10.00+1.50*2.00/2$	11.5	1150				Kalyan, Premraj etc.
					Existing	200				
					Net. E.W	950	44.34	42123	351.025	
CD8	30.59 3	57, 66	100	$10.00+1.50*2.00/2$	11.5	1150				Chedi Lal, Smt. Chandavati
					Existing	150				
					Net. E.W	1000	44.34	44340	369.5	
CD9	5	63, 64	80	$10.00+1.50*2.00/2$	11.5	920				Jaggu
					Existing	160				
					Net. E.W	760	44.34	33698.4	280.82	
CD10	6.116	41, 42	100	$10.00+1.50*2.00/2$	11.5	1150				Kailashchand, Ramasre
					Existing	200				
					Net. E.W	950	44.34	42123	351.025	
CD11	2.7	31	50	$10.00+1.50*2.00/2$	11.5	575				Radhey Shyam

					Existing	150				
					Net. E.W	425	44.34	18844.5	157.0375	
CD12	6.12	230, 231, 233,	100	10.00+1.50*2.00/2	11.5	1150				Praveen Kumar, Naveen Kumar etc.
					Existing	200				
					Net. E.W	950	44.34	42123	351.025	
CD13	6.4	221, 226	100	10.00+1.50*2.00/2	11.5	1150				Harshit Kumar, Rohit Kumar etc.
					Existing	180				
					Net. E.W	970	44.34	43009.8	358.415	
CD14	5.1	201	80	10.00+1.50*2.00/2	11.5	920				Dukhiya
					Existing	150				
					Net. E.W	770	44.34	34141.8	284.515	
CD15	4.88	192, 193	80	10.00+1.50*2.00/2	11.5	920				Baijnath, Buddun etc.
					Existing	180				
					Net. E.W	740	44.34	32811.6	273.43	
CD16	3.88	1034	60	10.00+1.50*2.00/2	11.5	690				Ramswaroop
					Existing	100				
					Net. E.W	590	44.34	26160.6	218.005	
CD17	4.64	1095, 1097	70	10.00+1.50*2.00/2	11.5	805				Rajjan Prasad, Rambahori
					Existing	100				
					Net. E.W	705	44.34	31259.7	260.4975	
CD18	5.2	1083	80	10.00+1.50*2.00/2	11.5	920				Deshraj Singh etc.
					Existing	130				
					Net. E.W	790	44.34	35028.6	291.905	
CD19	5.105	1170	90	10.00+1.50*2.00/2	11.5	1035				Dirpal Singh, Manbodhan, Sadashiv etc.
					Existing	260				

					Net. E.W	775	44.34	34363.5	286.3625	
CD20	33.88	1217, 1218	120	10.00+1.50*2.00/2	11.5	1380				Ram Bharosa
					Existing	200				
					Net. E.W	1180	44.34	52321.2	436.01	
CD21	26.92	1324	100	10.00+1.50*2.00/2	11.5	1150				Shiv Mangal Singh
					Existing	150				
					Net. E.W	1000	44.34	44340	369.5	
CD22	5.48	1341	80	10.00+1.50*2.00/2	11.5	920				Shiv Mangal Singh
					Existing	90				
					Net. E.W	830	44.34	36802.2	306.685	

Village- Hardauli

MB16	2.202	2543, 2544, 2546	100	4.20+0.60*1.50/2	3.6	360	41.23	14842.8	123.69	Gajuiya, Imami Kahn etc.
MB17	2.202	2528, 2529, 2530, 2532	100	4.20+0.60*1.50/2	3.6	360	41.23	14842.8	123.69	Iqbal Bahadur, Rambihari etc.
MB18	2.649	2483, 2484	120	4.20+0.60*1.50/2	3.6	432	41.23	17811.4	148.428	Razzaq Ali etc.
MB19	2.202	2412, 2416, 2417, 2343	100	4.20+0.60*1.50/2	3.6	360	41.23	14842.8	123.69	Rafiq Ullah, Swamideen etc.
MB20	2.202	2373, 2374	100	4.20+0.60*1.50/2	3.6	360	41.23	14842.8	123.69	Manmohan etc.
MB21	2.202	2234	100	4.20+0.60*1.50/2	3.6	360	41.23	14842.8	123.69	Rambajan
MB22	4.404	2572, 2575, 2580, 283, 2613, 2616	200	4.20+0.60*1.50/2	3.6	720	41.23	29685.6	247.38	Jahoor Ahmad, Gangva, Dasuva etc.
MB23	1.756	1924, 1945, 2144	80	4.20+0.60*1.50/2	3.6	288	41.23	11874.2	98.952	Razzaq, Kallu, Iqbal Bahadur etc.
MB24	2.2	2152, 2153, 2134, 2127	100	4.20+0.60*1.50/2	3.6	360	41.23	14842.8	123.69	Gajuiya, Ramdulare etc.
MB25	2.203	2167	100	4.20+0.60*1.50/2	3.6	360	41.23	14842.8	123.69	Manna, Chunna
MB26	2.649	1781, 1526	120	4.20+0.60*1.50/2	3.6	432	41.23	17811.4	148.428	Sukraj, Iqbal Bahadur etc.
MB27	2.202	1175, 2316	100	4.20+0.60*1.50/2	3.6	360	41.23	14842.8	123.69	Shiv Poojan etc.
MB28	2.204	1147, 1169, 1170, 1171, 1124	100	4.20+0.60*1.50/2	3.6	360	41.23	14842.8	123.69	Chota, Ramadhaar, Ganga Prasad etc.

MB29	2.205	1106, 1135	100	4.20+0.60*1.50/2	3.6	360	41.23	14842.8	123.69	Abdul Sattar, Kareem
MB30	2.202	916, 930, 1284	100	4.20+0.60*1.50/2	3.6	360	41.23	14842.8	123.69	Abdul Gaffar, Chota etc.
MB31	3.67	1868, 1869	180	4.20+0.60*1.50/2	3.6	648	41.23	26717	222.642	Sahruddin, Sakoor, etc.
MB32	2.65	1855, 4331	120	4.20+0.60*1.50/2	3.6	432	41.23	17811.4	148.428	Mushtq, Husain Khan, Moh. Yakoob etc.
MB33	3.3	1819, 4341, 4342	150	4.20+0.60*1.50/2	3.6	540	41.23	22264.2	185.535	Safiq Khan etc.
MB34	2.202	1730, 1799, 1800	100	4.20+0.60*1.50/2	3.6	360	41.23	14842.8	123.69	Nankoo Prasad etc.
MB35	3.301	4394, 4391, 4390, 1740, 147, 218	150	4.20+0.60*1.50/2	3.6	540	41.23	22264.2	185.535	Keshar, Bhagvandeen etc.
MB36	3.3	4415, 137, 131	150	4.20+0.60*1.50/2	3.6	540	41.23	22264.2	185.535	Imami, Mushtq Ahmad etc.
MB37	4.404	1685, 1682, 217	200	4.20+0.60*1.50/2	3.6	720	41.23	29685.6	247.38	Ram Vishal, Sundi Bai etc.
MB38	4.403	217	200	4.20+0.60*1.50/2	3.6	720	41.23	29685.6	247.38	Shiv Kumar, Nand Kishor etc.
MB39	2.202	254, 265, 269	100	4.20+0.60*1.50/2	3.6	360	41.23	14842.8	123.69	Abdul Gaffar, Chota etc.
MB40	3.619	1843, 1844	150	4.20+0.60*1.50/2	3.6	540	41.23	22264.2	185.535	Afi Khan, Chandrpal etc.
Total		3120			11232		463095	3859.128		
CD23	4.508	2555	70	10.00+1.50*2.00/2	11.5	805				Sbba Hamid, etc.
					Existing	120				
					Net. E.W	685	44.34	30372.9	253.1075	
CD24	5.208	2559, 2561	80	10.00+1.50*2.00/2	11.5	920				Chandrka Prasad, Nandu, Bandu etc.
					Existing	130				
					Net. E.W	790	44.34	35028.6	291.905	
CD25	4.6	2444, 2455, 2460	70	10.00+1.50*2.00/2	11.5	805				Rambali, Shiv Bali, Asgar etc.
					Existing	110				
					Net. E.W	695	44.34	30816.3	256.8025	
CD26	3.392	2379	50	10.00+1.50*2.00/2	11.5	575				Manmohan etc.
					Existing	60				

					Net. E.W	515	44.34	22835.1	190.2925	
CD27	3.452	2056, 2067, 2094	50	10.00+1.50*2.00/2	11.5	575				Imiliya, Sifayat Ulla etc.
					Existing	50				
					Net. E.W	525	44.34	23278.5	193.9875	
CD28	5.074	1578, 204	80	10.00+1.50*2.00/2	11.5	920				Kamta Prasad, Ranvijay, Jagnandan etc.
					Existing	150				
					Net. E.W	770	44.34	34141.8	284.515	
CD29	4.315	2107, 2110	70	10.00+1.50*2.00/2	11.5	805				Alihasan etc.
					Existing	150				
					Net. E.W	655	44.34	29042.7	242.0225	
CD30	4.316	1504, 2226, 2232	70	10.00+1.50*2.00/2	11.5	805				Alihasan etc.
					Existing	140				
					Net. E.W	665	44.34	29486.1	245.7175	
CD31	4.508	1109, 2287	70	10.00+1.50*2.00/2	11.5	805				Sukhdev, Abdul Sattar, Shiv Poojan etc.
					Existing	120				
					Net. E.W	685	44.34	30372.9	253.1075	
CD32	6.785	1144, 1145, 1183	100	10.00+1.50*2.00/2	11.5	1150				Bhaiya lal etc.
					Existing	120				
					Net. E.W	1030	44.34	45670.2	380.585	
CD33	5.133	1088, 1085, 1089	80	10.00+1.50*2.00/2	11.5	920				Ramsiya etc.
					Existing	140				
					Net. E.W	780	44.34	34585.2	288.21	
CD34	21.607	836, 778, 884	100	10.00+1.50*2.00/2	11.5	1150				Ramsiya etc.
					Existing	130				
					Net. E.W	1020	44.34	45226.8	376.89	
CD35	7.782	1317, 1318, 1319, 1336	120	10.00+1.50*2.00/2	11.5	1380				Chunbad, Shivpoojan etc.

					Existing	200				
					Net. E.W	1180	44.34	52321.2	436.01	
CD36	5.833	1583, 1579	90	10.00+1.50*2.00/2	11.5	1035				Inayat Khan, Hari Prasad etc.
					Existing	150				
					Net. E.W	885	44.34	39240.9	327.0075	
CD37	5.342	1620, 1119	80	10.00+1.50*2.00/2	11.5	920				Abdul Sattar, Kareem
					Existing	110				
					Net. E.W	810	44.34	35915.4	299.295	
CD38	5.336	2181, 2186	80	10.00+1.50*2.00/2	11.5	920				Safi Kahan
					Existing	120				
					Net. E.W	800	44.34	35472	295.6	
CD39	22.664	1530, 1539/1, 1034	120	10.00+1.50*2.00/2	11.5	1380				Manna, Chunna, etc.
					Existing	200				
					Net. E.W	1180	44.34	52321.2	436.01	
CD40	21.666	1539/21, 1547, 1551	100	10.00+1.50*2.00/2	11.5	1150				Ramasre, Ram Manohar etc.
					Existing	120				
					Net. E.W	1030	44.34	45670.2	380.585	
CD41	21.8	1691, 1693, 1704	100	10.00+1.50*2.00/2	11.5	1150				Mikkoo, Musammat etc.
					Existing	100				
					Net. E.W	1050	44.34	46557	387.975	
CD42	17.56	4369, 4370, 4371	100	10.00+1.50*2.00/2	11.5	1150				Safi Kahan
					Existing	140				
					Net. E.W	1010	44.34	44783.4	373.195	
CD43	6.517	1763, 1759, 1755	100	10.00+1.50*2.00/2	11.5	1150				Noor Ahmad, Najir Ahmad, Nisar etc.
					Existing	160				
					Net. E.W	990	44.34	43896.6	365.805	

CD44	5.267	1687	80	10.00+1.50*2.00/2	11.5	920				Ram Vishal etc.
					Existing	120				
					Net. E.W	800	44.34	35472	295.6	
CD45	22.99	1690, 1695, 1691	120	10.00+1.50*2.00/2	11.5	1380				Karim, Musammat, Safi etc.
					Existing	150				
					Net. E.W	1230	44.34	54538.2	454.485	
CD46	21.74	1623, 1633	100	10.00+1.50*2.00/2	11.5	1150				Rajaram, Musammat etc.
					Existing	110				
					Net. E.W	1040	44.34	46113.6	384.28	
CD47	22.916	232, 241	120	10.00+1.50*2.00/2	11.5	1380				Rafiq Ullah, Swamideen etc.
					Existing	160				
					Net. E.W	1220	44.34	54094.8	450.79	
CD48	17.84	249, 320, 319	120	10.00+1.50*2.00/2	11.5	1380				Ram Manohar, Jagmoha etc.
					Existing	150				
					Net. E.W	1230	44.34	54538.2	454.485	
CD49	23.05	501, 503	120	10.00+1.50*2.00/2	11.5	1380				Sukhdev etc.
					Existing	140				
					Net. E.W	1240	44.34	54981.6	458.18	
CD50	5.4	488, 489	80	10.00+1.50*2.00/2	11.5	920				Ashif Khan, Iqbal Khan etc.
					Existing	100				
					Net. E.W	820	44.34	36358.8	302.99	
										Abdul Salim, Hamid Ullah etc.
RCD1	35.94	353, 355, 360, 367	100	12.00+2.00*2.50/2	17.5	1750				
					Existing	300				
					Net. E.W	1450	49.37	71586.5	596.5541667	
RCD2	37.428	620, 628, 647	100	12.00+2.00*2.50/2	17.5	1750				Gajju Khan, Iqbal Khan, Gajju Khan etc.

					Existing	300				
					Net. E.W	1450	49.37	71586.5	596.5541667	
RCD3	36.397	444, 442, 435, 438	120	12.00+2.00*2.50/2	17.5	2100				Raghuva, Ashfaq Khan etc.
					Existing	400				
					Net. E.W	1700	49.37	83929	699.4083333	

Village- Byonja (Madvari)

MB41	2.202	1394, 1395, 1396	100	4.20+0.60*1.50/2	3.6	360	41.23	14842.8	123.69	Shiv Karan, Shiv Mohan etc.
MB42	2.202	1397, 1380, 1386, 1389	100	4.20+0.60*1.50/2	3.6	360	41.23	14842.8	123.69	Ram Autar, Jaikaran
MB43	1.324	882	60	4.20+0.60*1.50/2	3.6	216	41.23	8905.68	74.214	Rani
MB44	1.756	838, 840, 841	80	4.20+0.60*1.50/2	3.6	288	41.23	11874.2	98.952	Shiv Poojan etc.
MB45	6.622	610, 611, 612, 622, 623, 624	300	4.20+0.60*1.50/2	3.6	1080	41.23	44528.4	371.07	Chunna, Chedi Lal, Ramesh Kumar etc.
MB46	3.304	440, 441, 442, 444, 496	150	4.20+0.60*1.50/2	3.6	540	41.23	22264.2	185.535	Vajir Khan, Deen Moh. Etc.
MB47	3.304	221	150	4.20+0.60*1.50/2	3.6	540	41.23	22264.2	185.535	Rampal
MB48	4.405	202, 211, 210, 229	200	4.20+0.60*1.50/2	3.6	720	41.23	29685.6	247.38	Shiv Nandan, Ganesh, Kamlesh etc.
MB49	1.756	2013	80	4.20+0.60*1.50/2	3.6	288	41.23	11874.2	98.952	Harishchand, Binda
MB50	4.405	309, 314, 315	200	4.20+0.60*1.50/2	3.6	720	41.23	29685.6	247.38	Asharam, Ramratan, Ram Khilavan etc.
MB51	5.52	391, 393, 402, 403, 378	250	4.20+0.60*1.50/2	3.6	900	41.23	37107	309.225	Binda Prasad, Dharmraj etc.
Total			1670			6012		247875	2065.623	

Village- Byonja (Madvari)

CD51	6.235	1428, 1398	80	10.80+2.00*2.20/2	14.08	1126.4				Balveer, Devraj, Ramraj
					Existing	180				
					Net. E.W	946	44.34	41945.6	349.547	
CD52	20.982	807, 848, 859	80	10.80+2.00*2.20/2	14.08	1126.4				Muluba etc.
					Existing	200				
					Net. E.W	926	44.34	41058.8	342.157	
CD53	6.964	890, 893	90	10.80+2.00*2.20/2	14.08	1267.2				Chandan Singh, Mangal Singh etc.
					Existing	210				
					Net. E.W	1057	44.34	46867.4	390.5615	
CD54	21.845	821, 381	90	10.80+2.00*2.20/2	14.08	1267.2				Naresh Singh, Mahendra Singh
					Existing	210				
					Net. E.W	1057	44.34	46867.4	390.5615	
CD55	7.768	811	100	10.80+2.00*2.20/2	14.08	1408				Ramautar
					Existing	230				
					Net. E.W	1178	44.34	52232.5	435.271	
CD56	7.634	140	100	10.80+2.00*2.20/2	14.08	1408				Devraj Singh, Shravan Kumar Singh etc.
					Existing	250				
					Net. E.W	1158	44.34	51345.7	427.881	
CD57	7.634	106, 168	100	10.80+2.00*2.20/2	14.08	1408				Shivdarshan
					Existing	250				
					Net.	1158	44.34	51345.7	427.881	

					E.W					
CD58	20.848	358, 349, 361	80	10.80+2.00*2.20/2	14.08	1126.4				Langar, Fusuva, Ram Pratap etc.
					Existing	220				
					Net. E.W	906.4	44.34	40189.8	334.9148	
CD59	9.3	406, 409, 410, 418	120	10.80+2.00*2.20/2	14.08	1689.6				Baddri
					Existing	280				
					Net. E.W	1409.6	44.34	62501.7	520.8472	
CD60	8.229	356	100	10.80+2.00*2.20/2	14.08	1408				Mahrjava, Ramraj, Ramsajeevan
					Existing	160				
					Net. E.W	1248	44.34	55336.3	461.136	
CD61	19.071	714, 715, 716	80	10.80+2.00*2.20/2	14.08	1126.4				Sahadev, Ram Sajeevan
					Existing	140				
					Net. E.W	986	44.34	43719.2	364.327	
CD62	9.494	734	120	10.80+2.00*2.20/2	14.08	1689.6				Raja Husain, Ali Raja etc.
					Existing	250				
					Net. E.W	1439.6	44.34	63831.9	531.9322	
CD63	21.116	808, 728	80	10.80+2.00*2.20/2	14.08	1126.4				Baldev Prasad etc.
					Existing	180				
					Net. E.W	946.4	44.34	41963.4	349.6948	
CD64	6.771	755, 756	90	10.80+2.00*2.20/2	14.08	1267.2				Raja Husain, Ali Raja etc.

					Existing	240				
					Net. E.W	1027.2	44.34	45546	379.5504	
CD65	8.363	779, 786	100	10.80+2.00*2.20/2	14.08	1408				Santu, Bhagauta
					Existing	140				
					Net. E.W	1268	44.34	56223.1	468.526	
CD66	19.928	799, 802	70	10.80+2.00*2.20/2	14.08	985.6				Raja Husain, Ali Raja etc.
					Existing	220				
					Net. E.W	765.6	44.34	33946.7	282.8892	
CD67	1.994	1004	40	10.80+2.00*2.20/2	14.08	563.2				Raja Husain, Ali Raja etc.
					Existing	260				
					Net. E.W	303.2	44.34	13443.9	112.0324	
RCD4	35.536	635, 634, 633	120	12.00+2.00*2.50/2	17.5	2100				Bhagvandeen, Mohan Lal, Prakash etc.
					Existing	300				
					Net. E.W	1800	44.34	79812	665.1	
RCD5	16.86	544, 545, 546	150	12.00+2.00*2.50/2	17.5	2625				Irfan Khan etc.
					Existing	300				
					Net. E.W	1800	44.34	79812	665.1	
RCD6	10789	502, 503	100	12.00+2.00*2.50/2	17.5	1750				Sant Kumar, Vidhyadhar etc.
					Existing	280				
					Net. E.W	1470	44.34	65179.8	543.165	

RCD7	8.437	496, 497	80	12.00+2.00*2.50/2	17.5	1400				Ramkaran Singh, Moolchandra Singh etc.
					Existing	250				
					Net. E.W	1150	44.34	50991	424.925	
RCD8	30.402	238, 263, 235	80	12.00+2.00*2.50/2	17.5	1400				Ganesh etc.c
					Existing	300				
					Net. E.W	1100	44.34	48774	406.45	

Village- Simauni Block- Baberu Tehsil- Baberu Distt. Banda (2C1A7j1a)

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						
MB1	3.305	1740, 1736	150	4.75+1.00*1.25/2	3.6	540	41.23	22264.2	185.535	Shri Baldev etc.
MB2	3.305	1796, 1793	150	4.75+1.00*1.25/2	3.6	540	41.23	22264.2	185.535	Shri Tulsidas etc.
MB3	5.076	1829, 1830, 1828, 1226	230	4.75+1.00*1.25/2	3.6	828	41.23	34138.4	284.487	Boda etc.
MB4	2.858	1781	130	4.75+1.00*1.25/2	3.6	468	41.23	19295.6	160.797	Chedi Lal etc.
MB5	2.858	1756, 1760	130	4.75+1.00*1.25/2	3.6	468	41.23	19295.6	160.797	Shiv Poojan etc.
MB6	5.523	1762, 1322, 1319, 1320/1	250	4.75+1.00*1.25/2	3.6	900	41.23	37107	309.225	Ram Vishal, Shiv Mohan etc.
MB7	5.374	1324, 1225, 1254	180	5.50+1.00*1.50/2	4.875	877.5	41.23	36179.3	301.494375	Dhannu Prasad, Shiv Mohan etc.
MB8	8.961	1278, 1305, 1308, 1312	300	5.50+1.00*1.50/2	4.875	1462.5	41.23	60298.9	502.490625	Shiv Kara etc.
MB9	3.885	1274, 1270	130	5.50+1.00*1.50/2	4.875	633.75	41.23	26129.5	217.745938	Kasim, Chandrbhan etc.
MB10	4.183	1166	140	5.50+1.00*1.50/2	4.875	682.5	41.23	28139.5	234.495625	Mangal Das, Laxman etc.
MB11	4.481	1017, 1040, 1041	150	5.50+1.00*1.50/2	4.875	731.25	41.23	30149.4	251.245313	Raj Kumar, Bhagvandeen etc.
MB12	5.374	1037, 1039	180	5.50+1.00*1.50/2	4.875	877.5	41.23	36179.3	301.494375	Ramlal etc.
MB13	6.817	1033, 1019	228	5.50+1.00*1.50/2	4.875	1111.5	41.23	45827.1	381.892875	Rajkumar, Husian etc.
Total			2348			10120.5		417268	3477.23513	

Village- Amar Ganj

CD1	7.718	367, 319	70	10.00+2.00*2.00/2	12	840				Shri Ganesh, Ramautar etc.
					Existing	80				
					Net. E.W	760	44.34	33698.4	280.82	
CD2	9.671	352	80	10.40+2.00*2.10/2	13.02	1041.6				Shri Shyam Bihari etc.
					Existing	90.6				
					Net. E.W	951	44.34	42167.3	351.3945	
CD3	7.19	309	60	10.40+2.00*2.10/2	13.02	781.2				Shri Ram Karan
					Existing	75.2				
					Net. E.W	706	44.34	31304	260.867	
CD4	7.833	344	70	10.00+2.00*2.00/2	12	840				Shri Shyam Bihari etc.
					Existing	70				
					Net. E.W	770	44.34	34141.8	284.515	
CD5	7.58	291	70	10.00+2.00*2.00/2	12	840				Shri Shiv Balak, Ramraj etc.
					Existing	95				
					Net. E.W	745	44.34	33033.3	275.2775	
CD6	7.008	280	65	10.00+2.00*2.00/2	12	780				Shri Sumit, Chunkva etc.
					Existing	90				
					Net. E.W	690	44.34	30594.6	254.955	

Village- Tola Kalan

MB14	5.636	3277, 3278	180	4.75+1.00*1.25/2	3.6	648	41.23	26717	222.642	Shri Ram Lal etc.
MB15	5.636	2839, 2822	180	4.75+1.00*1.25/2	3.6	648	41.23	26717	222.642	Shri Sahdev, amarjeet
MB16	6.882	2797, 2802	220	4.75+1.00*1.25/2	3.6	792	41.23	32654.2	272.118	Shri Mahipal, Rameshwar etc.
MB17	5.6	2711, 2710	180	4.75+1.00*1.25/2	3.6	648	41.23	26717	222.642	Naresh Kumar etc.
MB18	5.672	2758, 2755, 2753	180	4.75+1.00*1.25/2	3.6	648	41.23	26717	222.642	Rajesh Singh, Baccha etc.
MB19	6.881	172, 164, 165, 166	220	4.75+1.00*1.25/2	3.6	792	41.23	32654.2	272.118	Shri Kamta Prasad etc.
MB20	5.672	101, 187	180	4.75+1.00*1.25/2	3.6	648	41.23	26717	222.642	Shri Basudev etc.
MB21	5.6	106, 107	180	4.75+1.00*1.25/2	3.6	648	41.23	26717	222.642	Shri Sobha Singh etc.
MB22	6.882	84, 85, 86	220	4.75+1.00*1.25/2	3.6	792	41.23	32654.2	272.118	Shri Babu Lal etc.
MB23	5.639	71, 476/61	180	4.75+1.00*1.25/2	3.6	648	41.23	26717	222.642	Shri Radhe Lal etc.
Total			1920			6912		284982	2374.848	
CD7	7.015	2997, 2980	70	10.00+2.00*2.00/2	12	840				Shri Vishambhar Singh etc.
			.		Existing	45				
					Net. E.W	795	44.34	35250.3	293.7525	
CD8	10.841	2777, 2746	90	11.20+2.00*2.30/2	15.18	1366.2				Shri Rajesh Singh etc.
					Existing	13.5				
					Net. E.W	1228.7	44.34	54480.6	454.00465	
CD9	11.937	1497	100	11.20+2.00*2.30/2	15.18	1518				Shri Vishambhar Singh etc.
					Existing	165				
					Net. E.W	1353	44.34	59992	499.9335	
CD10	8.649	1448, 1446	90	10.00+2.00*2.00/2	12	1080				Shri Vishambhar Singh etc.
			.		Existing	100				
					Net. E.W	980	44.34	43453.2	362.11	
CD11	8.31	337, 336	85	10.40+2.00*2.10/2	13.02	1106.7				Shri Basudev, Sukhdev, Rambharose etc.
					Existing	165				
					Net. E.W	941.7	44.34	41755	347.95815	

CD12	11.399	351	95	11.20+2.00*2.30/2	15.18	1442.1				Shri Ramchandra etc.
					Existing	165				
					Net. E.W	941.7	44.34	41755	347.95815	
CD13	9.027	95	90	10.40+2.00*2.10/2	13.02	1171.8				Shri Naisudden
					Existing	148.5				
					Net. E.W	1023.3	44.34	45373.1	378.10935	
CD14	8.848	70	90	10.20+2.00/2.05	12.52	1126.8				Shri Chandrpal, Babulal etc.
					Existing	123.75				
					Net. E.W	1003.05	44.34	44475.2	370.626975	
CD15	8.649	427, 426	90	10.00+2.00*2.00/2	12	1080				Shri Shyam Lal etc.
					Existing	100				
					Net. E.W	980	44.34	43453.2	362.11	
CD16	8.449	470	90	10.00+2.00*2.00/2	12	1080				Shri Ballu etc.
					Existing	121.5				
					Net. E.W	958.5	44.34	42499.9	354.16575	
CD17	10.303	58, 59	90	11.20+2.00*2.30/2	15.18	1366.2				Shri Ram Kripal, Bonga etc.
					Existing	198				
					Net. E.W	1168.2	44.34	51798	431.6499	
CD18	12.973	55	100	11.60+2.00*2.40/2	16.32	1632				Shri Foolchandra, Chandaniya etc.
					Existing	198				
					Net. E.W	1168.2	44.34	51798	431.6499	
RCD1	22.116	270, 268, 267, 243	120	12.00+2.00*2.50/2	17.5	2100				Shri Sushil Kumar etc.
					Existing	195				
					Net. E.W	1905	49.37	94049.9	783.74875	
RCD2	15.528	319, 314	90	11.60+2.00*2.40/2	16.32	1468.8				Shri Sobha Singh etc.
					Existing	131.62				
					Net. E.W	1337.18	49.37	66016.6	550.138138	

RCD3	20.046	361, 358	110	12.00+2.00*2.50/2	17.5	1925				Shri Vishambhar Singh etc.
					Existing	198				
					Net. E.W	1727	49.37	85262	710.516583	
RCD4	20.328	43.42	100	12.40+2.00*2.60/2	18.72	1872				Shri Basudev, Sukhdev etc.
					Existing	120				
					Net. E.W	1752	49.37	86496.2	720.802	
RCD5	17.482	37	100	11.60+2.00*2.40/2	16.32	1632				Shri Babu Lal etc.
					Existing	126.9				
					Net. E.W	1505.1	49.37	74306.8	619.223225	

Village- Anausa Block- Baberu Tehsil- Baberu Distt. Banda (2C1A7m1e)

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						
SB10	5.461	321, 322, 323	280	4.50+0.80*1.20/2	3.18	890.4	41.22	36702.288	305.8524	Shaukat etc.
SB11	2.336	345, 341	120	4.50+0.80*1.20/2	3.18	381.6	41.22	15729.552	131.0796	Ali Hasan etc.
SB12	10.133	310, 316, 318/1-4, 319	520	4.50+0.80*1.20/2	3.18	1653.6	41.22	68161.392	568.0116	Injmam etc.
SB13	5.461	305, 303, 302	280	4.50+0.80*1.20/2	3.18	890.4	41.22	36702.288	305.8524	Sattar Khan etc.
SB14	3.11	286	160	4.50+0.80*1.20/2	3.18	508.8	41.22	20972.736	174.7728	Ramshran etc.
SB15	12.499	62, 63, 64	240	4.50+0.80*1.20/2	3.18	763.2	41.22	31459.104	262.1592	Ikbal Kahn etc.
Total			1600			5088		209727.36	1747.728	

Village- Simauni

SB2	9.36	185, 186, 1565, 1566, 1567, 1568, 1623, 1627	480	4.50+0.80*1.20/2	3.18	1526.4	41.22	62918.208	524.3184	Dharmpal, Harisharan etc.
SB30	3.898	45	200	4.50+0.80*1.20/2	3.18	636	41.22	26215.92	218.466	Parmatmadeen, Ajay etc.
Total			680			2162.4		89134.128	742.7844	
CD1	3.318	109, 110/1-3	40	10.00+2.00*2.10/2	12.6	504	44.34	22347.36	186.228	Chunuva, Baijnath etc.
CD4	7.916	120/1-5	60	18.00+2.00*2.00/2	20	1200	44.34	53208	443.4	Mahesh, Sukhiya, etc.

CD15	6.592	142/1-3	50	18.00+2.00*2.00/2	20	1000	44.34	44340	369.5	Shri Krishn, Shambhu etc.
CD16	4.912	209, 194	50	16.00+2.00*2.10/2	16.8	840	44.34	37245.6	310.38	Shri Krishn etc.
Total			200			3544		157140.96	1309.508	
WHB2	36.004	89, 55	80	20.00+2.00*2.20/2	22	1760	44.34	78038.4	650.32	Hori Lal, Ramdayal etc.

Village- Pandri

SB1	9.389	159, 161, 162, 164	100	4.50+0.80*1.20/2	3.18	318	41.22	13107.96	109.233	Amar Singh, Ram Lal Singh etc.
SB2	5.461	171, 176, 183	280	4.50+0.80*1.20/2	3.18	890.4	41.22	36702.288	305.8524	Ramasre, Bhai yadeen etc.
SB3	20.699	257, 258, 259, 253, 252, 251	680	4.50+0.80*1.20/2	3.18	2162.4	41.22	89134.128	742.7844	Ram Naresh Singh, Samar Jeet etc.
SB4	20.699	284, 287, 288, 289, 290	680	4.50+0.80*1.20/2	3.18	2162.4	41.22	89134.128	742.7844	Kailash, Kashi Prasad etc.
SB5	2.529	235	130	4.50+0.80*1.20/2	3.18	413.4	41.22	17040.348	142.0029	Halku etc.
SB6	3.11	237	160	4.50+0.80*1.20/2	3.18	508.8	41.22	20972.736	174.7728	Keshav Prasad
SB7	18.363	306, 308, 310, 311, 316	560	4.50+0.80*1.20/2	3.18	1780.8	41.22	73404.576	611.7048	Samar Jeet, Ram Lal etc.
SB8	7.797	337, 349	400	4.50+0.80*1.20/2	3.18	1272	41.22	52431.84	436.932	Deshraj, Ram Bhavan etc.
SB9	8.571	106, 104	440	4.50+0.80*1.20/2	3.18	1399.2	41.22	57675.024	480.6252	Maikoo Prasad, Ranjeet Singh etc.
SB16	13.259	274, 135, 136, 138, 137	680	4.50+0.80*1.20/2	3.18	2162.4	41.22	89134.128	742.7844	Ramsajeevan Singh, Baladeen etc.
SB17	14.032	152, 261, 265, 266	720	4.50+0.80*1.20/2	3.18	2289.6	41.22	94377.312	786.4776	Ram Lal Singh etc.
SB18	7.008	393, 380, 379	360	4.50+0.80*1.20/2	3.18	1144.8	41.22	47188.656	393.2388	Manoj etc.
SB19	4.672	141, 172	240	4.50+0.80*1.20/2	3.18	763.2	41.22	31459.104	262.1592	Ranjeet Singh etc.
SB20	3.11	157, 158	160	4.50+0.80*1.20/2	3.18	508.8	41.22	20972.736	174.7728	Ramsajeevan Singh etc.
SB21	3.11	157, 158	160	4.50+0.80*1.20/2	3.18	508.8	41.22	20972.736	174.7728	Maikoo Prasad, Ranjeet Singh etc.
SB22	3.898	67	200	4.50+0.80*1.20/2	3.18	636	41.22	26215.92	218.466	Gayadeen
SB23	2.336	90	120	4.50+0.80*1.20/2	3.18	381.6	41.22	15729.552	131.0796	Surajdeen etc.
SB24	7.797	30, 39, 38, 43	400	4.50+0.80*1.20/2	3.18	1272	41.22	52431.84	436.932	Divakar, Chote Lal etc.
SB25	3.898	199	200	4.50+0.80*1.20/2	3.18	636	41.22	26215.92	218.466	Basudev, Sundar etc.
SB26	0.773	193/1-5	40	4.50+0.80*1.20/2	3.18	127.2	41.22	5243.184	43.6932	Gayadeen, Shivpoojan, Munna etc.
SB27	0.967	62/1-5	50	4.50+0.80*1.20/2	3.18	159	41.22	6553.98	54.6165	Jagatpal, Bhagvaan etc.

SB28	1.16	63/1-3	60	4.50+0.80*1.20/2	3.18	190.8	41.22	7864.776	65.5398	Bhagvat Singh, Siyaram etc.
SB29	0.967	52	50	4.50+0.80*1.20/2	3.18	159	41.22	6553.98	54.6165	Bhagvat Singh, Siyaram etc.
SB31	8.784	210	40	4.50+0.80*1.20/2	3.18	127.2	41.22	5243.184	43.6932	Sundar etc.
Total			6910			21973.8		905760.036	7548.0003	
CD2	3.75	189	50	10.00+2.00*1.90/2	11.4	570	44.34	25273.8	210.615	Jagatpal etc.
CD3	3.157	191/1-3	40	10.50+1.50*2.00/2	12	480	44.34	21283.2	177.36	Rameshwar etc.
CD5	1.413	29	25	10.00+1.50*1.50/2	8.62	215.5	44.34	9555.27	79.62725	Sundar etc.
CD6	33.613	114/1-7, 50	60	18.00+2.00*2.10/2	21	1260	44.34	55868.4	465.57	Krishnpal, Bhola etc.
CD7	27.916	115, 102	50	15.00+2.00*2.00/2	17	850	44.34	37689	314.075	Surajdeen etc.
CD8	27.068	87, 50	45	18.00+2.00*2.10/2	21	945	44.34	41901.3	349.1775	matadeen
CD9	25.982	64, 80	50	18.00+2.00*2.00/2	22	1100	44.34	48774	406.45	Kallu, Natthu etc.
CD10	25.342	272, 70	50	15.00+2.00*2.00/2	17	850	44.34	37689	314.075	Gayadeen, Ramkaran etc.
CD11	24.27	148, 146	68	10.00+2.00*2.00/2	12	816	44.34	36181.44	301.512	Ranjeet Singh etc.
CD12	26.041	95	70	12.00+2.00*2.00/2	14	980	44.34	43453.2	362.11	Jageshwar Singh etc.
CD13	3.005	124	40	10.00+2.00*19.00/2	11.4	456	44.34	20219.04	168.492	Mohan, Chunna, Bhola etc.
CD14	33.497	116, 56	60	18.00+2.00*2.10/2	21	1260	44.34	55868.4	465.57	Kunvar, Ramsharan etc.
CD17	22.738	28, 38	50	15.00+2.00*2.00/2	17	850	44.34	37689	314.075	Ram Kripal, Sundar, etc.
CD18	15.462	85, 86	40	12.00+2.00*2.00/2	14	560	44.34	24830.4	206.92	Ramraj, Jugal Kishor etc.
CD19	15	153, 152	45	12.00+2.00*2.00/2	14	630	44.34	27934.2	232.785	Badri, etc.
CD20	15.183	144	40	15.00+2.00*1.90/2	16.15	646	44.34	28643.64	238.697	Ram Manohar
Total			783			12468.5		552853.29	4607.11075	
WHB1	34.287	50, 35	50	20.00+2.50*2.30/2	25	1250	44.34	55425	461.875	Kunvar etc.

Village- Padri Block- Baberu Tehsil- Baberu Distt. Banda (2C1A7j1b)

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						
SB1	12.2	328, 321	400	5.50+1.00*1.50/2	4.87	1948	41.22	80296.56	669.138	
SB2	15.3	331, 318, 322	400	5.50+1.00*1.50/2	4.87	1948	41.22	80296.56	669.138	
Total			800			3896		160593.1	1338.276	

Village- Simauni

SB3	3.15	1831, 1832	103	5.50+1.00*1.50/2	4.87	501.61	41.22	20676.36	172.303035	Voda, Ramsharan etc.
SB4	5.85	1826, 1844 to 1846	200	5.50+1.00*1.50/2	4.87	974	41.22	40148.28	334.569	Nabibaksh, Chidda etc.
SB5	9	1853, 1819 to 1821	300	5.50+1.00*1.50/2	4.87	1461	41.22	60222.42	501.8535	Medoo Khan, Habib Ali etc.
Total			603			2936.61		121047.1	1008.725535	

Village- Bagheta

MB1	10.5	3, 4, 5	300	5.50+1.00*1.50/2	4.87	1461	41.22	60222.42	501.8535	Peer Ali etc.
MB2	21.25	185 to 187, 195 to 198	600	5.50+1.00*1.50/2	4.87	2922	41.22	120444.8	1003.707	Dilip Kumar etc.
MB3	13.75	168	400	5.50+1.00*1.50/2	4.87	1948	41.22	80296.56	669.138	Ram Autar, Tikla etc.
MB4	11.85	167, 250, 252	350	5.50+1.00*1.50/2	4.87	1704.5	41.22	70259.49	585.49575	Chidani, Cunna etc.
MB5	16.5	238 to 241	550	5.50+1.00*1.50/2	4.87	2678.5	41.22	110407.8	920.06475	Abdul Khan, etc.
MB6	10.25	277, 321, 322	300	5.50+1.00*1.50/2	4.87	1461	41.22	60222.42	501.8535	Kamruddin, Mushtak etc.
MB7	19.4	279, 280	500	5.50+1.00*1.50/2	4.87	2435	41.22	100370.7	836.4225	Jagmohan etc.
MB8	6.79	297	150	5.50+1.00*1.50/2	4.87	730.5	41.22	30111.21	250.92675	Ram Bahori etc.
Total			3150			15340.5		632335.4	5269.46175	
CD1	20.65	204	100	13.00+2.00*2.00/2	15	1500	44.34	66510	554.25	Injmam Khan etc.
CD2	15.555	223	80	13.00+2.00*2.00/2	15	1200	44.34	53208	443.4	Bhola
CD3	12.545	229	80	13.00+2.00*2.00/2	15	1200	44.34	53208	443.4	Abdul Khan, etc.
Total			260			3900		172926	1441.05	

Village- Tola

PB1	2.25	1973 to 2975	150	5.50+1.00*1.50/2	4.87	730.5	41.22	30111.21	250.92675	Gaya Prasad etc.
PB2	10.675	2956, 3182	200	5.50+1.00*1.50/2	4.87	974	41.22	40148.28	334.569	Jiya Lal etc.
PB3	5.48	3237, 3246	100	5.50+1.00*1.50/2	4.87	487	41.22	20074.14	167.2845	Jiya Lal etc.
PB4	11.15	2693, 2694	200	5.50+1.00*1.50/2	4.87	974	41.22	40148.28	334.569	Dwarik etc.
PB5	8.975	2583, 2584	150	5.50+1.00*1.50/2	4.87	730.5	41.22	30111.21	250.92675	Vishambhar Singh, Jagjeet Singh etc.
PB6	5.675	3378	100	5.50+1.00*1.50/2	4.87	487	41.22	20074.14	167.2845	Krishnpal, Sahdev
PB7	14.645	3399	300	5.50+1.00*1.50/2	4.87	1461	41.22	60222.42	501.8535	Sharda etc.
Total			1200			5844		240889.7	2007.414	

Village- Tola Kalan

CD4	13.44	3425, 4835/3425	80	13.00+2.00*2.00/2	15	1200	44.34	53208	443.4	Gorba etc.
CD5	17.529	3426, 3430	100	13.00+2.00*2.00/2	15	1500	44.34	66510	554.25	Chedi Lal etc.
CD6	12.95	4835/2021, 3442	80	13.00+2.00*2.00/2	15	1200	44.34	53208	443.4	Imam Baksh etc.
CD7	10.225	3756	60	13.00+2.00*2.00/2	15	900	44.34	39906	332.55	Ram Kumar Singh, Babu Dayal etc.
CD8	11.76	3947	70	13.00+2.00*2.00/2	15	1050	44.34	46557	387.975	Ramdeen etc.
CD9	13.225	3972, 3971, 3927	80	13.00+2.00*2.00/2	15	1200	44.34	53208	443.4	Rajesh Singh etc.
CD10	11.65	3525, 3526	70	13.00+2.00*2.00/2	15	1050	44.34	46557	387.975	Ram Bahori etc.
CD11	15.008	3907, 3911	80	13.00+2.00*2.00/2	15	1200	44.34	53208	443.4	Ramdeen etc.

Village- Tola

CD12	12.65	3544, 3545, 2656	80	13.00+2.00*2.00/2	15	1200	44.34	53208	443.4	Shiv Poojan, Jiya Lal etc
CD13	11.3	3360	70	13.00+2.00*2.00/2	15	1050	44.34	46557	387.975	Chandrpal etc
CD14	9.85	3385	60	13.00+2.00*2.00/2	15	900	44.34	39906	332.55	Gulab, Chunbaad etc.
CD15	16.8	3101, 3115, 3099	100	13.00+2.00*2.00/2	15	1500	44.34	66510	554.25	Gulal, Ram Kumar etc.
CD16	13.24	3058, 380	80	13.00+2.00*2.00/2	15	1200	44.34	53208	443.4	Shivnarayan, Ram Milan etc.
CD17	15.875	3159	100	13.00+2.00*2.00/2	15	1500	44.34	66510	554.25	Kunvar, Ratan Singh etc.
CD18	15.002	3116, 3117	80	13.00+2.00*2.00/2	15	1200	44.34	53208	443.4	Chedi Lal etc.
Total			1190			17850		791469	6595.575	

Village- Tola Kalan

RCD1	28.85	3990, 3991	110	14.67+2.00*3.00/2	25	2750	51.08	140470	1170.583333	Pramod etc.
RCD2	32.5	3154, 3148	125	14.67+2.00*3.00/2	25	3125	51.08	159625	1330.208333	Bhaiyadeen etc.
RCD3	33.8	2675, 2674, 2682	130	14.67+2.00*3.00/2	25	3250	51.08	166010	1383.416667	Gaya Prasad etc.
Total			365			9125		466105	3884.208333	

Village- Tola Kalan Block- Baberu Tehsil- Baberu Distt. Banda (2C1A7j1g)

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						
MB1	6.78	6, 7, 8	180		3.6	648	41.23	26717.04	222.642	Shiv Karan, Ram Swaroop etc.
MB2	4.52	572	120		3.6	432	41.23	17811.36	148.428	Chandrbhaann, Shiv dutt etc.
MB3	6.01	798, 815	160		3.6	576	41.23	23748.48	197.904	Suraj, etc.
MB4	7.644	1004, 1080	150		4.87	730.5	41.23	30118.515	250.987625	Chunbaad Singh etc.
MB5	9.422	981, 982, 983, 995	250		3.6	900	41.23	37107	309.225	Chedi Lal etc.
MB6	6.019	1075, 1090	160		3.6	576	41.23	23748.48	197.904	Chedi Lal etc.
MB7	6.4	1335	170		3.6	612	41.23	25232.76	210.273	Ram Kishor Singh etc.
MB8	7.644	1137	150		4.87	730.5	41.23	30118.515	250.987625	Chandrpal Singh, Dharmraj Singh etc.
MB9	2.615	1121	100		2.5	250	41.23	10307.5	85.89583333	Ramnath etc.
MB14	6.796	1833, 1885, 1807	180		3.6	648	41.23	26717.04	222.642	Dayaram Singh etc.
Total			1620			6103		251626.69	2096.889083	
CD1	10.191	9	60	12.00+2.00*2.50/2	17.5	1050				Shri Badkoo etc.
					Existing	110				

					Net. E.W	940	44.34	41679.6	347.33	
CD2	10.314	597, 598	60	12.00+2.00*2.50/2	17.5	1050				Shri Aniruddh, Vansh Gopal
					Existing	100				
					Net. E.W	950	44.34	42123	351.025	
CD3	11.122	835	65	12.00+2.00*2.50/2	17.5	1137.5				Shri Suraj Bali, Shiv Bali etc.
					Existing	112.5				
					Net. E.W	1025	44.34	45448.5	378.7375	
CD4	6.173	850	50	10.00+2.00*2.20/2	13.2	660				Shri Chedi singh etc.
					Existing	90				
					Net. E.W	570	44.34	25273.8	210.615	
CD5	11.122	861	60	13.00+2.00*2.50	18.75	1125				Shri Shiv Narayan etc.
					Existing	100				
					Net. E.W	1025	44.34	45448.5	378.7375	
CD6	6.394	844, 846	50	10.00+2.00*2.20/2	13.2	660				Smt. Mithlesh Kumar etc.
					Existing	70				
					Net. E.W	590	44.34	26160.6	218.005	
CD7	15.017	881, 909	120	10.00+2.00*2.20/2	13.2	1584				Shri Nirmala Singh etc.
					Existing	200				
					Net. E.W	1384	44.34	61366.56	511.388	
CD8	26.85	404	180	12.00+2.00*2.20/2	15.4	2772				Shri Bhaiyadeen etc.
					Existing	300				
					Net. E.W	2472	44.34	109608.48	913.404	
CD9	16.634	919, 938, 940	120	12.00+2.00*2.30/2	16.1	1932				Shri Nirmala Singh etc.

					Existing	400				
					Net. E.W	1532	44.34	67928.88	566.074	
CD10	9.383	1136, 1137	65	10.00+2.00*2.50/2	15	975				Shri Dharmraj Singh etc.
					Existing	110				
					Net. E.W	865	44.34	38354.1	319.6175	
CD11	9.603	1165, 1152, 4763/1321	70	10.00+2.00*2.30/2	13.8	966				Shri Nirmala Singh etc.
					Existing	80				
					Net. E.W	886	44.34	39285.24	327.377	
CD12	10.265	1248	80	10.00+2.00*2.20/2	13.2	1056				Shri Vija Bahadur Singh etc.
					Existing	110				
					Net. E.W	946	44.34	41945.64	349.547	
CD13	9.382	1148	65	10.00+2.00*2.50/2	15	975				Shri Dharmraj Singh etc.
					Existing	110				
					Net. E.W	865	44.34	38354.1	319.6175	
CD14	6.174	1267	50	10.00+2.00*2.20/2	13.2	660				Shri Dharmraj Singh etc.
					Existing	90				
					Net. E.W	570	44.34	25273.8	210.615	
CD15	6.222	1285	50	8.00+2.00*2.30/2	11.5	575	44.34	25495.5	212.4625	Shri Shiv Shankar etc.
CD18	6.174	1230, 1231	65	10.00+2.00*2.20/2	13.2	660				Shri Mohan Lal etc.
					Existing	90				
					Net. E.W	570	44.34	25273.8	210.615	
RCD1	25.457	456	120	14.00+2.00*2.30/2		2208				Shri Ram Khilavan etc.
					Existing	300				

					Net. E.W	1908	51.08	97460.64	812.172	
RCD2	30.319	307	140	14.00+2.50*2.40/2		2772				Shri Nirmala Singh etc.
					Existing	50				
					Net. E.W	227	51.08	11595.16	96.62633333	
RCD3	21.354	1304, 1313	120	12.00+2.00*2.50/2		2100				Shri Dharmraj Singh etc.
					Existing	500				
					Net. E.W	1600	51.08	81728	681.0666667	

Village- Byonja

MB10	7.638	1021, 1023	180	5.50+1.00*1.50/2	4.875	877.5	41.23	36179.325	301.494375	Shri Ram Prasad
MB11	10.622	1109, 1111	250	5.50+1.00*1.50/2	4.875	1218.75	41.23	50249.0625	418.7421875	Shri Ram Moorat, Smt. Munni etc.
MB12	4.232	1171	100	5.50+1.00*1.50/2	4.875	487.5	41.23	20099.625	167.496875	Shri Gopal
MB13	6.369	1197, 1195, 1191, 1193	150	5.50+1.00*1.50/2	4.875	731.25	41.23	30149.4375	251.2453125	Shri Shiv Shankar etc.
MB15	6.369	1226, 1235	150	5.50+1.00*1.50/2	4.875	731.25	41.23	30149.4375	251.2453125	Shri Matadeen etc.
MB16	5.946	1252, 1256, 1259	140	5.50+1.00*1.50/2	4.875	682.5	41.23	28139.475	234.495625	Shri Mangal Das, Jagjeet etc.
MB17	5.946	1268, 1414	140	5.50+1.00*1.50/2	4.875	682.5	41.23	28139.475	234.495625	Shri Ramchandra
MB22	6.369	1191, 1199	150	5.50+1.00*1.50/2	4.875	731.25	41.23	30149.4375	251.2453125	Shri Ghirja etc.
MB23	6.369	1011, 1017	150	5.50+1.00*1.50/2	4.875	731.25	41.23	30149.4375	251.2453125	Shri Kamta etc.
CD16	11.403	1013, 1075	60	12.00+2.00*2.10/2		882				Shri Gulab, Fool, Rajabeti etc.
					Existing	90				
					Net. E.W	792	44.34	35117.28	292.644	
CD17	14.066	1091	70	12.00+2.00*2.20/2		1078				Shri Chunbaad
					Existing	100				
					Net.	978	44.34	43364.52	361.371	

					E.W					
CD19	8.186	1082	65	10.00+2.00*2.50/2		660				Shri Suraj, Kuber etc.
					Existing	70				
					Net. E.W	590	44.34	26160.6	218.005	
CD20	13.612	1229	80	10.00+2.00*2.20/2		1056				Shri Ramchandra
					Existing	110				
					Net. E.W	946	44.34	41945.64	349.547	
CD21	13.612	1196	80	10.00+2.00*2.20/2		1056				Shri Maharaj etc.
					Existing	110				
					Net. E.W	946	44.34	41945.64	349.547	
CD22	12.735	1196, 1189, 1186	70	10.00+2.00*2.30/2		966				Shri Maharaj etc.
					Existing	80				
					Net. E.W	886	44.34	39285.24	327.377	
CD23	8.186	1175	65	10.00+2.00*2.50/2		660				Shri Jagnandan etc.
					Existing	90				
					Net. E.W	570	44.34	25273.8	210.615	
CD24	12.67	1049, 1050	70	10.00+2.00*2.30/2		966				Shri Ayodhya etc.
					Existing	80				
					Net. E.W	886	44.34	39285.24	327.377	
CD25	12.67	1034, 1032	70	10.00+2.00*2.30/2		966				Shri Kamlesh etc.
					Existing	80				
					Net. E.W	886	44.34	39285.24	327.377	

Village- Hardauli

MB18	9.241	12, 13, 14, 19	140		3.6	504	41.23	20779.92	173.166	Shri Iqbal, Bahadur etc.
MB19	10.223	21, 22, 4848, 4827, 4831	180		3.6	648	41.23	26717.04	222.642	Shri Chaila Khan, Bhoora etc.
MB20	10.071	4813, 80	180		3.6	648	41.23	26717.04	222.642	Shri Yusuf Khan
MB21	9.465	79, 81, 82	150		3.6	540	41.23	22264.2	185.535	Shri Ramasre, etc.

Village- Patvan, Block- Baberu Tehsil- Baberu Distt. Banda (2C1A7k1c)

Name of Work	Benefit ed area (ha)	Field No. / Khasara No.	Area of work Length	Width * Height	C.S. (Are a)	Work Measurement	Rate	Total Cost (Rs.)	Manday Rs. 120/Labour	Name of Farmers
MB1	11.042	1654	500	4.20+0.60/2*1.50	3.6	1800	41.23	74214	618.45	Babu singh, Shivkaran singh etc
MB2	7.158	1642, 1641	240	5.50+1.00/2*91.50	4.87	1168.8	41.23	48189.62	401.5802	Maudeen etc.
MB3	2.292	1621, 1629, 1627	150	3.50+0.0510/2*1.25	2.5	375	41.23	15461.25	128.84375	Shivmohan etc.
MB4	1.83	1752	120	3.50+0.0510/2*1.25	2.5	300	41.23	12369	103.075	Omkar singh etc.
MB5	1.83	1830, 1829	120	3.50+0.0510/2*1.25	2.5	300	41.23	12369	103.075	Muluva, Ramkaran, Lalbahadur etc.
MB6	10.446	1167, 1169, 171, 1172	350	5.50+1.00/2*91.50	4.87	1704.5	41.23	70276.54	585.6377917	Shivcharan, Laxmi etc.
MB7	4.598	1155	300	3.50+0.0510/2*1.25	2.5	750	41.23	30922.5	257.6875	Dasaiya gramsabha
MB8	4.182	1210	140	5.50+1.00/2*91.50	4.87	681.8	41.23	28110.61	234.2551167	
MB9	5.372	1134, 1135, 1136, 1137	180	5.50+1.00/2*91.50	4.87	876.6	41.23	36142.22	301.18515	jagatpal, Budhuva etc.
MB10	3.824		250	3.50+0.0510/2*1.25	2.5	625	41.23	25768.75	214.7395833	
MB11	2.292	1224, 1225	150	3.50+0.0510/2*1.25	2.5	375	41.23	15461.25	128.84375	Devraj etc.
MB12	2.292	1220, 1222	150	3.50+0.0510/2*1.25	2.5	375	41.23	15461.25	128.84375	Shivpujan etc.
MB13	5.521	1189, 1197, 1196	250	4.20+0.60/2*1.50	3.6	900	41.23	37107	309.225	jagmohan, etc.
MB14	6.563	1183, 184	220	5.50+1.00/2*91.50	4.87	1071.4	41.23	44173.82	368.1151833	jaghdev, mahadev
MB15	3.675	876, 877, 872, 871	240	3.50+0.0510/2*1.25	2.5	600	41.23	24738	206.15	Sadashiv etc.

MB16	3.065	910, 909, 908	200	3.50+.0510/2*1.25	2.5	500	41.23	20615	171.7916667	Sadashiv etc.
MB17	3.973	832, 831, 813	260	3.50+.0510/2*1.25	2.5	650	41.23	26799.5	223.3291667	Rajbahadur, jagmohan etc.
MB18	6.622	890, 886, 885	300	4.20+0.60/2*1.50	3.6	1080	41.23	44528.4	371.07	Chandan singh, Shivbhajan etc.
MB19	7.455	912, 913	250	5.50+1.00/2*91.50	4.87	1217.5	41.23	50197.53	418.3127083	Chandrapal, Swamvar etc.
MB20	10.446	940, 931	350	5.50+1.00/2*91.50	4.87	1704.5	41.23	70276.54	585.6377917	Chandrapal, Swamvar etc.
MB21	4.777	949	160	5.50+1.00/2*91.50	4.87	779.2	41.23	32126.42	267.7201333	Jageshvar, Raghuveer etc.
MB22	6.131	478, 479, 480, 489, 490, 494	400	3.50+.0510/2*1.25	2.5	1000	41.23	41230	343.5833333	Rammilan, Shivbhusan etc.
MB23	1.83	793	120	3.50+.0510/2*1.25	2.5	300	41.23	12369	103.075	Gramsabha
MB24	3.676	781	240	3.50+.0510/2*1.25	2.5	600	41.23	24738	206.15	Chandrasekhar etc.
MB25	3.527	777, 776	160	4.20+0.60/2*1.50	3.6	576	41.23	23748.48	197.904	Babu, Gyaprasad etc.
MB26	3.527	689, 705	160	4.20+0.60/2*1.50	3.6	576	41.23	23748.48	197.904	Tirathraj, Kanhaiya etc.
MB27	5.521	767, 719	250	4.20+0.60/2*1.50	3.6	900	41.23	37107	309.225	Santi, Chandrasekhar etc.
Total	133.467		6210			21786.3		898249.1		
CD1	1.771	1687		9.50+1.50/2*2.0		330				Ramcharan etc.
				Old Work-		60				
			30	New Work	11	270	44.34	11971.8	99.765	
CD2	3.423	1175		10.0+2.0/2*2.0		600				Ramdeen, Munna etc.
				Old Work-		80				
			50	New Work	12	520	44.34	23056.8	192.14	
CD3	4.077	952		10.0+2.0/2*2.0		720				Ramkumar etc.
				Old Work-		100				
			60	New Work	12	620	44.34	27490.8	229.09	

CD4	4.881	499, 570		10.0+2.0/2*2.0		840				Bhairavprasad, Rammilan etc.
				Old Work-		100				
			70	New Work	12	740	44.34	32811.6	273.43	
CD5	5.729	567, 580		10.0+2.0/2*2.0		960				Ramkumar etc.
				Old Work-		90				
			80	New Work	12	870	44.34	38575.8	321.465	
CD6	5	736		10.0+2.0/2*2.0		840				jaykisor, Sohan etc.
				Old Work-		80				
			70	New Work	12	760	44.34	33698.4	280.82	
CD7	5	681		10.0+2.0/2*2.0		840				Muruva etc,
				Old Work-		80				
			70	New Work	12	760	44.34	33698.4	280.82	
CD8	5.938	677		10.40+2.0/2*2.10		1041.6				Kanhaiya, Shivmohan etc.
				Old Work-		141.6				
			80	New Work	13.02	900	44.34	39906	332.55	
CD9	38.229	740, 667		12.0+2.0/2*2.50		2100				Ramashre, Ramsajevan etc.
				Old Work-		140				
			120	New Work	17.5	1960	44.34	86906.4	724.22	
CD10	6.131	636		12.0+2.0/2*2.50		1050				Smt. Santi etc.
				Old Work-		120				
			60	New Work	17.5	930	44.34	41236.2	343.635	
CD11	5.923	607		11.60+2.0/2*2.40		979.2				Smt.Jasoda devi etc.
				Old Work-		80				
			60	New Work	16.32	899.2	44.34	39870.53	332.2544	
CD12	31.801	624, 476		12.0+2.0/2*2.50		1137.5				Shivbhusan, Ghansyam etc.
				Old Work-		150				

				New Work	17.5	987.5	44.34	43785.75	364.88125	
CD13	5.074	388		10.80+2.0/2*2.20		844.8				Ramshnehi etc.
				Old Work-		75				
			60	New Work	14.08	769.8	44.34	34132.93	284.4411	
CD14	5.074	203		10.80+2.0/2*2.20		844.8				Chulkona etc.
				Old Work-		75				
			80	New Work	14.08	769.8	44.34	34132.93	284.4411	
CD15	33.616	414, 149		12.0+2.0/2*2.50		1400				Devdatt etc.
				Old Work-		160				
				New Work	17.5	1240	44.34	54981.6	458.18	
CD16	4.286	142		10.80+2.0/2*2.20		720				Devdatt etc.'
				Old Work-		70				
			60	New Work	12	650	44.34	28821	240.175	
CD17	5	139		10.80+2.0/2*2.20		840				Ramdas, Shivpatiya etc.
				Old Work-		80				
			70	New Work	12	760	44.34	33698.4	280.82	
CD18	6.89	139		12.0+2.0/2*2.50		1225				Ramdas, Shivpatiya etc.
				Old Work-		180				
			70	New Work	17.5	1045	44.34	46335.3	386.1275	
CD19	33.56	142		12.0+2.0/2*2.50		1400				Devdatt etc.
				Old Work-		200				
			80	New Work	17.5	1200	44.34	53208	443.4	
Total	211.403		1170					738318.6		

Village-Majhiva

MB28	4.405	2551	200	4.20+0.60/2*1.50	3.6	720	41.23	29685.6	247.38	Kedar etc.
MB29	4.405	2573, 2574	200	4.20+0.60/2*1.50	3.6	720	41.23	29685.6	247.38	Madhuraj, Vijay Bahadur etc.
MB30	3.973	2631, 2688	180	4.20+0.60/2*1.50	3.6	648	41.23	26717.04	222.642	Jagatpal, Shashi Devi
Total	12.783		580			2088		86088.24		
CD20	3.958	2704		10.0+2.0/2*2.0		660				Keshav Prasad, Babu Lal
				Old Work-		60				
			55	New Work	12	600	44.34	26604	221.7	
CD21	4.211	2733		10.0+2.0/2*2.0		720				Keshav Prasad, Babu Lal
				Old Work-		80				
			60	New Work	12	640	44.34	28377.6	236.48	
CD22	4.211	2512/1, 2, 3, 4		10.40+2.0/2*2.10		911.4				Ashish, Jagnayak
				Old Work-		110				
			70	New Work	13.02	801.4	44.34	35534.08	296.1173	
CD23	5.045	2603, 2504		10.0+2.0/2*2.0		960				Krishn Pal etc.
				Old Work-		195				
			80	New Work	12	765	44.34	33920.1	282.6675	
CD24	6.696	2504, 2500, 2480		10.80+2.0/2*2.20		1126				Cheda Lal, Brmha Prasad etc.
				Old Work-		110				
			80	New Work	14.08	1016	44.34	45049.44	375.412	
CD25	6.458	1820, 1819		10.0+2.0/2*2.0		1080				Saligram, Jagat Pal etc.
				Old Work-		100				
			90	New Work	12	980	44.34	43453.2	362.11	
CD26	6.19	1841, 1842, 1890		10.0+2.0/2*2.0		1020				Jagannath etc.
				Old Work-		80				
			85	New Work	12	940	44.34	41679.6	347.33	
CD27	8.022	1910, 2458, 2459		11.20+2.0/2*2.30		1366.2				Kedarnath, Jagannath etc.
				Old Work-		150				

			90	New Work	15.18	1216.2	44.34	53926.31	449.3859	
Total	44.791		610					308544.3		
RCD1	31.518	2471, 2444, 2484		10.40+2.0/2*2.10		1432.2				Ram Bahori etc.
				Old Work-		180				
			110	New Work	13.02	1252.2	49.37	61821.11	515.17595	
RCD2	32.991	2448, 2453		12.0+2.0/2*2.50		1750				Dwarika, Gul Khan
				Old Work-		195				
			100	New Work	17.5	1555	49.37	76770.35	639.7529167	
RCD3	32.991	2448, 2453		12.0+2.0/2*2.50		1750				Rama Shankar, Umashankar etc.
				Old Work-		195				
			100	New Work	17.5	1555	49.37	76770.35	639.7529167	
RCD4	37.993	2385		12.0+2.0/2*2.50		2275				Ram Prasad
				Old Work-		250				
			130	New Work	17.5	2025	49.37	99974.25	833.11875	
	135.493		440					315336.1		

Village- Ragoli (Baghanda), Block- Baberu Tehsil- Baberu Distt. Banda (2C1A7m2c)

Name of Work	Benefited area (ha)	Field No. / Khasara No.	Area of work Length	Width * Height	C.S. (Area)	Work Measurement	Rate	Total Cost (Rs.)	Manday Rs. 120/Labour	Name of Farmers
MB1	4.79	127, 150, 146	225	5.0+80/2*1.20	3.48	783	41.22	32275.26	268.9605	Virendra kumar, Mo.Ali etc.
MB2	4.895	454, 428, 430, 420	230	5.0+80/2*1.20	3.48	800.4	41.22	32992.49	274.9374	Rampratap, Vijayram etc.
MB3	7.25	401, 400, 378, 380, 372	340	5.0+80/2*1.20	3.48	1183.2	41.22	48771.5	406.4292	Lalsingh, Babulal etc.
Total	16.935		795			2766.6		114039.3		
CD1	23.87	95	80	13.50+2.0/2*2.20	17.05	1364	44.34	60479.76	503.998	Hemraj, Munnilal etc.
CD2	24.195	476, 1816	70	13.50+2.0/2*2.20	17.05	1193.5	44.34	52919.79	440.9983	Bhura, Gyaprasad etc.
Total	48.065		150			2557.5		113399.6		

Village-Murval

MB4	6.4	1854, 1871	300	5.0+0.80/2*1.20	3.48	1044	41.22	43033.68	358.614	Radhesyam, Badal etc.
MB5	5.76	1623	270	5.0+0.80/2*1.20	3.48	939.6	41.22	38730.31	322.7526	Kallu, Sundar etc.
MB6	9.17	1722, 1721, 1720	430	5.0+0.80/2*1.20	3.48	1496.4	41.22	61681.61	514.0134	sadla, Bhura, Mahendra etc
MB7	8.32	1695, 1692	390	5.0+0.80/2*1.20	3.48	1357.2	41.22	55943.78	466.1982	Ramraj singh, Pushpa singh
MB8	7.46	1532, 1538, 1540	350	5.0+0.80/2*1.20	3.48	1218	41.22	50205.96	418.383	Kedar singh, Mahendra etc.
MB9	3.73	1438	175	5.0+0.80/2*1.20	3.48	609	41.22	25102.98	209.1915	Ramautar
MB10	7.47	1448, 1449, 1453, 1454,	350	5.0+0.80/2*1.20	3.48	1218	41.22	50205.96	418.383	Dashrath, Shivprasad etc.
MB11	7.47	370, 373, 374, 376	350	5.0+0.80/2*1.20	3.48	1218	41.22	50205.96	418.383	Gokaran singh, Gajraj etc.
MB12	14.37	351, 358, 359	280	5.0+0.80/2*1.20	3.48	974.4	41.22	40164.77	334.7064	Shree. Krashan, Gopal
MB13	6.83	340, 417, 416,	320	5.0+0.80/2*1.20	3.48	1113.6	41.22	45902.59	382.5216	Laxmiprasad, etc.
MB14	2.87	412 , 409	135	5.0+0.80/2*1.20	3.48	469.8	41.22	19365.16	161.3763	Mulchandra, Virendra etc.
MB15	6.6	1431, 1416, 1415	310	5.0+0.80/2*1.20	3.48	1078.8	41.22	44468.14	370.5678	Mansingh
MB16	2.98	386	140	5.0+0.80/2*1.20	3.48	487.2	41.22	20082.38	167.3532	Chandrasekhar, Manoj kumar etc.
MB17	17.04	1395, 1390, 1388, 1360, 1359	380	5.0+0.80/2*1.20	3.48	1322.4	41.22	54509.33	454.2444	Shivkumar, Foolchandra etc.
MB18	29.34	1192, 1193, 1260, 1264, 1270, 1271, 1272, 1273, 1274, 1282	850	5.0+0.80/2*1.20	3.48	2958	41.22	121928.8	1016.073	Banshi, Sahdev, Gopal singh etc,
MB19	18.99	1202, 1203, 1208, 1215, 1218, 1219, 1222, 1223, 1226, 1232	890	5.0+0.80/2*1.20	3.48	3097.2	41.22	127666.6	1063.888	Mevalal, Ramlal, Ramsaran etc.
Total	154.8		5920			20601.6		849198		

CD3	22.5	1777, 1776, 1779	70	13.0+2.0/2*2.20	16.5	1155	44.34	51212.7	426.7725	Kamlesh, Ramkumar singh etc.
CD4	5.25	1807, 1831	50	13.0+1.50/2*2.20	15.95	797.5	44.34	35361.15	294.6763	Devraj, Ramkumar etc.
CD5	6.24	1648	70	11.50+2.0/2*2.0	13.5	945	44.34	41901.3	349.1775	Kamlesh singh etc,
CD6	28.05	117, 109	80	13.0+2.0/2*2.20	16.5	1320	44.34	58528.8	487.74	Ramkumar, Santosh kumar etc.
CD7	27.98	135, 131	90	13.50+2.0/2*2.20	17.05	1534.5	44.34	68039.73	566.9978	Shivkumar etc.
CD8	26.84	1490, 1489, 1462	80	13.50+2.0/2*2.20	17.05	1364	44.34	60479.76	503.998	Ramgulam, Rajesh singh etc.
CD9	7.62	309, 323	70	13.0+2.0/2*2.20	16.5	1155	44.34	51212.7	426.7725	Ramraj etc.
CD10	29.09	1380	100	13.50+2.0/2*2.20	17.05	1705	44.34	75599.7	629.9975	Shivkumar
CD11	27.96	1159, 1138	90	13.50+2.0/2*2.20	17.05	1534.5	44.34	68039.73	566.9978	Ramdulari, Rajkisor etc.
CD12	7.37	1116, 1172	70	13.0+1.50/2*2.20	15.95	1116.5	44.34	49505.61	412.5468	Niranjan, Shivprasad
Total	188.9		770			12627		559881.2		
WHB1	46.46	1797, 474	90	15.0+2.0/2*3.0	25.5	2295	51.08	117228.6	976.905	Rajkumar, Indrapal etc.
WHB2	48.84	155, 156, 180	100	15.0+2.0/2*3.0	25.5	2550	51.08	130254	1085.45	Ramprasad, Naththuprasad etc.
Total	95.3		190			4845		247482.6		

Village- Ragoli, Block- Baberu Tehsil- Baberu Distt. Banda (2C1A7m2e)

Name of Work	Benefited area (ha)	Field No. / Khasara No.	Area of work Length	Width * Height	C.S. (Area)	Work Measurement	Rate	Total Cost (Rs.)	Manday Rs. 120/Labour	Name of Farmers
MB5	5.78	141	130	5.50+1.0/2*1.50	4.87	633.1	41.22	26096.38	217.4699	
MB6	14.26	221, 222	320	5.50+1.0/2*1.50	4.87	1558.4	41.22	64237.25	535.3104	
MB7	15.9	232, 233, 234, 237, 239	500	5.0+0.80/2*1.20	3.48	1740	41.22	71722.8	597.69	
MB10	9.8	305, 330, 331, 338	310	5.0+0.80/2*1.20	3.48	1078.8	41.22	44468.14	370.5678	

MB11	8.75	278, 282, 287, 298,	275	5.0+0.80/2*1.20	3.48	957	41.22	39447.54	328.7295	
MB14	3.17	26/1	100	5.0+0.80/2*1.20	3.48	348	41.22	14344.56	119.538	
MB15	6.35	73, 72, 59	200	5.0+0.80/2*1.20	3.48	696	41.22	28689.12	239.076	
MB16	13.68	8, 79, 78, 102	430	5.50+1.0/2*1.50	4.87	2094.1	41.22	86318.8	719.3234	
MB17	7.13	266	160	5.50+1.0/2*1.50	4.87	779.2	41.22	32118.62	267.6552	
Total	84.82		2425			9884.6		407443.2		
CD14	19.58	12, 3	70	11.50+2.0/2*2.0	13.5	945	44.34	41901.3	349.1775	
CD16	21.57	121, 123, 125	90	13.0+2.0/2*2.0	16.5	1485	44.34	65844.9	548.7075	
CD19	6.36	706, 707, 435	80	11.50+2.0/2*2.0	13.5	1080	44.34	47887.2	399.06	
CD20	6	187, 337	80	13.0+2.0/2*2.0	16.5	1320	44.34	58528.8	487.74	
CD25	7.38	105	100	11.0+1.50/2*2.0	12.5	1250	44.34	55425	461.875	
CD26	6.64	119, 118	90	11.0+1.50/2*2.0	12.5	1125	44.34	49882.5	415.6875	
CD27	4.86	29, 18	70	11.0+1.50/2*2.0	12.5	875	44.34	38797.5	323.3125	
CD28	4.13	68	60	11.0+1.50/2*2.0	12.5	750	44.34	33255	277.125	
CD29	17.9	282, 355	60	11.50+2.0/2*2.0	13.5	810	44.34	35915.4	299.295	
CD30	3.61	382	50	11.50+2.0/2*2.0	13.5	675	44.34	29929.5	249.4125	
Total	98.03		750			10315		457367.1		
WHB1	22.15	201, 134	90	13.0+2.0/2*2.50	18.75	1687.5	51.08	86197.5	718.3125	
MB8	8.98	1923, 1924	420	5.0+0.80/2*1.20	3.48	1461.6	41.22	60247.15	502.0596	
MB9	8.02	1897, 1896, 1895, 1882	377	5.0+0.80/2*1.20	3.48	1311.96	41.22	54078.99	450.6583	
Total	17		797			2773.56		114326.1		
CD4	20.56	205	60	10.0+1.50/2*2.0	11.5	690	44.34	30594.6	254.955	
CD5	23.53	185	60	13.0+2.0/2*2.0	16.5	990	44.34	43896.6	365.805	
CD6	5.38	269	70	11.50+2.0/2*2.0	13.5	945	44.34	41901.3	349.1775	
CD7	20.35	131	40	13.0+2.0/2*2.00	16.5	660	44.34	29264.4	243.87	
CD31	6.89	256, 242	60	13.0+2.0/2*2.00	16.5	990	44.34	43896.6	365.805	
CD32	5.29	349, 328	50	13.0+2.0/2*2.00	16.5	825	44.34	36580.5	304.8375	
Total	82		340			5100		226134		

MB1	15	262, 302	320	5.50+1/2*1.50	4.87	1558.4	41.22	64237.25	535.3104	
MB2	10.03	259	200	5.50+1/2*1.50	4.87	974	41.22	40148.28	334.569	
MB3	9.03	252	180	5.50+1/2*1.50	4.87	876.6	41.22	36133.45	301.1121	
MB4	10	121	200	5.50+1/2*1.50	4.87	974	41.22	40148.28	334.569	
MB12	10.02	569, 593	200	5.50+1/2*1.50	4.87	974	41.22	40148.28	334.569	
MB13	10.52	292, 158, 162	230	5.50+1/2*1.50	4.87	1120.1	41.22	46170.52	384.7544	
	64.6		1330			6477.1		266986.1	2224.884	
CD1	5.4	34, 217	60	13.0+2.0/2*2.20	16.5	990	44.34	43896.6	365.805	
CD2	8.4	24, 228	80	13.0+2.0/2*2.50	18.75	1500	44.34	66510	554.25	
CD3	9.4	16, 366, 362	80	13.0+2.0/2*2.50	18.75	1500	44.34	66510	554.25	
CD8	3.1	463, 477,	40	11.0+1.50/2*2.0	12.5	500	44.34	22170	184.75	
CD9	21.3	450	70	11.50+2.0/2*2.0	13.5	945	44.34	41901.3	349.1775	
CD10	6.2	484, 490	60	13.0+2.0/2*2.20	16.5	990	44.34	43896.6	365.805	
CD11	23	488, 534, 533	80	13.0+2.0/2*2.20	16.5	1320	44.34	58528.8	487.74	
CD12	4.5	520, 503	60	11.0+1.80/2*2.0	12.8	768	44.34	34053.12	283.776	
CD13	4.5	512,	60	11.0+1.50/2*2.0	12.5	750	44.34	33255	277.125	
CD15	4.8	551, 552	60	11.0+1.80/2*2.0	12.8	768	44.34	34053.12	283.776	
CD17	23.2	627	100	11.50+2.0/2*2.0	13.5	1350	44.34	59859	498.825	
CD18	3.6	662, 663	50	10.0+1.50/2*2.0	11.5	575	44.34	25495.5	212.4625	
CD21	23.2	143, 151	60	11.50+2.0/2*2.0	13.5	810	44.34	35915.4	299.295	
CD22	3.2	311, 340	50	10.0+1.50/2*2.0	11.5	575	44.34	25495.5	212.4625	
CD23	4.3	328, 331	60	11.0+1.80/2*2.0	12.8	768	44.34	34053.12	283.776	
CD24	24.5	118, 305	80	13.0+2.0/2*2.20	16.5	1320	44.34	58528.8	487.74	
	172.6		1050			15429		684121.9		
WHB1	27.3	96, 42	100	13.0+2.0/2*2.50	18.75	1875	51.08	95775	798.125	
WHB2	23.5	353, 355	60	13.0+2.0/2*2.50	18.75	1125	51.08	57465	478.875	
	50.8		160			3000		153240		

ANNEXURE-II
LIVELIHOOD ACTION PLAN

Annual Action Plan for Livelihood (Physical & Financial)

Project - IWMP-XIII			PIA-Soil Conservation Unit, Rasstriya Jalagam, Banda						District-Banda		
S. No	Physical and financial targets	Unit	First Year 2011-12		Second Year 2012-13		Third Year 2013-14		Fourth Year 2014-15		Total Project
			Physical	Financial	Physical	Financial	Physical	Financial	Physical	Financial	Physical
	Livelihood activities through SHG's										0 0.00
	(1) Activity Goatary										0 0.00
	(a) No. of SHG's	No.	0	0.00	14	3.38	14	3.38	3	0.75	30 7.50
	(b) No. of members	No.	0	0.00	135	0.00	135	0.00	30	0.00	300 0.00
	(c) Estimated income per year	Rs.	0	0.00							0 0.00
	(2) Activity- Back Yard Poultry		0	0.00							0 0.00
	(a) No. of SHG's	No.	0	0.00	14	3.38	14	3.38	3	0.75	30 7.50
	(b) No. of members	No.	0	0.00	135	0.00	135	0.00	30	0.00	300 0.00
	(c) Estimated income per year	Rs.	0	0.00							0 0.00
	(3) Activity- Poultry , Broiler		0	0.00							0 0.00
	(a) No. of SHG's	No.	0	0.00	12	3.04	12	3.04	3	0.68	27 6.75
	(b) No. of members	No.	0	0.00	122	0.00	122	0.00	27	0.00	270 0.00
	(c) Estimated income per year	Rs.	0	0.00							0 0.00
	(4) Black Smithy										0 0.00
	(a) No. of SHG's	No.	0	0.00	10	2.59	10	2.59	2	0.58	23 5.75

(b) No. of members	No.	0	0.00	104	0.00	104	0.00	23	0.00	230	0.00
(c) Estimated income per year	Rs.	0	0.00		0.00	0	0.00	0	0.00	0	0.00
(5) Rope making										0	0.00
(a) No. of SHG's	No.	0	0.00	9	2.36	9	2.36	2	0.53	21	5.25
(b) No. of members	No.	0	0.00	95	0.00	95	0.00	21	0.00	210	0.00
(c) Estimated income per year	Rs.	0	0.00							0	0.00
(6) Tailoring										0	0.00
(a) No. of SHG's	No.	0	0.00	11	2.70	11	2.70	2	0.60	24	6.00
(b) No. of members	No.	0	0.00	108	0.00	108	0.00	24	0.00	240	0.00
(c) Estimated income per year	Rs.	0	0.00		0.00	0	0.00	0	0.00	0	0.00
(8) Vermi Composting										0	0.00
(a) No. of SHG's	No.	0	0.00	12	2.93	12	2.93	3	0.65	26	6.50
(b) No. of members	No.	0	0.00	117	0.00	117	0.00	26	0.00	260	0.00
(c) Estimated income per year	Rs.	0	0.00							0	0.00
(9) Food processing										0	0.00
(a) No. of SHG's	No.	0	0.00	13	3.15	13	3.15	3	0.70	28	7.00
(b) No. of members	No.	0	0.00	126	0.00	126	0.00	28	0.00	280	0.00
(c) Estimated income per year	Rs.	0	0.00							0	0.00
(13) Seed Bank										0	0.00
(a) No. of SHG's	No.	0	0.00	13	3.40	13	3.40	3	0.76	29	7.56
(b) No. of members	No.	0	0.00	131	0.00	131	0.00	29	0.00	290	0.00
(c) Estimated income per year	Rs.	0	0.00							0	0.00

Livelihood Option for Village Groups / Community

Input supplied to Interested Groups/ SHGs

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

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

ANNEXURE-III

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

Project - IWMP-XIII			PIA-Soil Conservation Unit, Rasstriya Jalagam, Banda						District-Banda			
S. No	Physical and financial targets	Unit	First Year 2011-12		Second Year 2012-13		Third Year 2013-14		Fourth Year 2014-15		Total Project	
			Physical	Financial	Physical	Financial	Physical	Financial	Physical	Financial	Physical	Financial
	Production system										0	0.00
	(1) Agriculture										0	0.00
	(a) Crop demonstration										0	0.00
	(1) No. of dem.	No.	0	0.00	269	11.29	269	11.29	60	2.51	598	25.09
	(2) Area	ha.			108		108		24		239	0.00
	(b) Seed Production		0								0	0.00
	(1) No. of dem.	No.	0	0.00	263	11.02	263	11.02	58	2.45	584	24.48
	(2) Area	ha.	0		105		105		23		234	0.00
	(2) Horticulture/ Agri-Horticulture		0								0	0.00
	(a) Area	ha.	0	0.00	2	4.13	2	4.13	0	0.92	4	9.18
	(b) No. of Plants	No.		0.00							0	0.00
	(4) Animal husbandry										0	0.00
	A. fodder production	No. of Units / Farmers	0	0.00	17	1.12	17	1.12	4	0.25	37	2.48
	B. Vaccination/Medication	No. of Animals			16	0.11	16	0.11	4	0.03	36	0.25
	C. Artificial Insemination	No. of Animals			16	0.08	16	0.08	4	0.02	36	0.17
	D. Natural Service.	He Buffalo			0	2.16	0	2.16	0	0.48	1	4.80

2. Estimates of Different Participatory Crop Trials

Pulses	Rabi			
Integrated Crop Management	Lentil			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	Narendra Masoor-1, DPL-15, L-4076, Pusa Vaibhav Late- IPL-81, K-75	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time	IIInd week of October			
		Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	50 kg / ha (F1,F2, Certified)	80	5000	2000.00
7. Use Weedicide	Pendimethalin 3.3 li/ha (Pre emergence)	465	1918	767.25
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	-			
ii) Rhizobium + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	94	37.50
iii) Trichoderma	1.50 kg /ha (Soil treatment)	136	255	102.00
12. Recommended dose of fertilizers				
25:60:30 NPK				
i) DAP*	130 kg	15	2438	975.00
ii) SSP*	375 kg	8	3750	1500.00
iii) Urea	In case of SSP 54 kg Urea applied	6	405	162.00
iv) MOP	50 kg	7	438	175.00
* Either one	40 kg /ha Sulphur added if SSP used			

13. IPM				
Spray of Neem Seed Kernal	10	30	375	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	155	62.00
Insecticides/Fungicides	If required One Dusting of Methyle Parathion powder			
	25 kg / ha	25	781	312.50
	Total (Less SSP)			4743.25
Integrated Crop Management	Chickpea			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	KGD-1168, KWR-108, Pusa-256, Pusa-367 Late- Udai	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time	1st week of October			
3. Required Seed	80 kg / ha (F1,F2, Certified)	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
7. Use Weedicide	Pendimethalin 3.3 li/ha (Pre emergence)	465	1918	767.25
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	-			
ii) Rhizobium + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	94	37.50
iii) Trichoderma	1.50 kg /ha (Soil treatment)	136	255	102.00
12. Recommended dose of fertilizers				
25:60:30 NPK				

i) DAP*	130 kg	15	2438	975.00
ii) SSP*	375 kg	8	3750	1500.00
iii) Urea	In case of SSP 54 kg Urea applied	6	405	162.00
iv) MOP	50 kg	7	438	175.00
* Either one	40 kg /ha Sulphur added if SSP used			
13. IPM				
Spray of Neem Seed Kernal	10	30	375	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	155	62.00
NPV	250 LE /ha at the time pod formation	200	250	100.00
Insecticides/Fungicides	If required One Dusting of Methyle Parathion powder			
	25 kg / ha	25	781	312.50
	Total (Less SSP)			5443.25
Integrated Crop Management	Field Pea			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	KMPR-400, KPMR-522, Rachna, Shikha	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time	IInd week of October	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	100 kg / ha (F1,F2, Certified)	60	7500	3000.00
7. Use Weedicide	Pendimethalin 3.3 li/ha (Pre emergence)	465	1918	767.25

11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	-			
ii) Rhizobium + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	94	37.50
iii) Trichoderma	1.50 kg /ha (Soil treatment)	136	255	102.00
12. Recommended dose of fertilizers				
25:60:30 NPK				
i) DAP*	130 kg	15	2438	975.00
ii) SSP*	375 kg	8	3750	1500.00
iii) Urea	In case of SSP 54 kg Urea applied	6	405	162.00
iv) MOP	50 kg	7	438	175.00
* Either one	40 kg /ha Sulphur added if SSP used			
13. IPM				
Spray of Neem Seed Kernal	10	30	375	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	155	62.00
Insecticides/Fungicides	If required One Dusting of Methyle Parathion powder			
	25 kg / ha	25	781	312.50
	Total (Less SSP)			5743.25
Integrated Crop Management	Urd			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	Shekhar-2, Azad-1, PU-35, Narendra Urd-1	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		

2. Sowing Time	Last week of July			
		Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	16 kg / ha (F1,F2, Certified)	100	2000	800.00
7. Use Weedicide	Pendimethalin 3.3 li/ha (Pre emergence)	465	1918	767.25
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	-			
ii) Rhizobium + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	94	37.50
iii) Trichoderma	1.50 kg /ha (Soil treatment)	136	255	102.00
12. Recommended dose of fertilizers				
25:60:30 NPK				
i) DAP*	130 kg	15	2438	975.00
ii) SSP*	375 kg	8	3750	1500.00
iii) Urea	In case of SSP 54 kg Urea applied	6	405	162.00
iv) MOP	50 kg	7	438	175.00
* Either one	40 kg /ha Sulphur added if SSP used			
13. IPM				
Spray of Neem Seed Kernal	10	30	375	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	155	62.00
Insecticides/Fungicides	If required One Dusting of Methyle Parathion powder			
	25 kg / ha	25	781	312.50
	Total (Less SSP)			3543.25
Integrated Crop Management	Moong			
Area of Demonstration - 0.40				

ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	T.M-9937, Meha, Pant Moong-1,2 Late- Type-44, Samrat	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time	Last week of June			
3. Required Seed	16 kg / ha (F1,F2, Certified)	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
7. Use Weedicide	Pendimethalin 3.3 li/ha (Pre emergence)	465	1918	767.25
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	-			
ii) Rhizobium + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	94	37.50
iii) Trichoderma	1.50 kg /ha (Soil treatment)	136	255	102.00
12. Recommended dose of fertilizers				
25:60:30 NPK				
i) DAP*	130 kg	15	2438	975.00
ii) SSP*	375 kg	8	3750	1500.00
iii) Urea	In case of SSP 54 kg Urea applied	6	405	162.00
iv) MOP	50 kg	7	438	175.00
* Either one	40 kg /ha Sulphur added if SSP used			
13. IPM				
Spray of Neem Seed Kernal	10	30	375	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	155	62.00
NPV	250 LE /ha at the time pod	200	250	100.00

	formation			
Insecticides/Fungicides	If required One Dusting of Methyle Paratheon powder			
	25 kg / ha	25	781	312.50
	Total (Less SSP)			3643.25
Integrated Crop Management	Arhar			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	Paras, UPAS-120, Type-21, Pusa-992 (Wilt rest.) Late- Bahar, Narendra Arhar-1, Azad	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time	Late- Month July Early Last Week of June	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	20 kg / ha (F1,F2, Certified)	120	3000	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	94	37.50
iii) Trichoderma	1.50 kg /ha (Soil treatment)	136	255	102.00
12. Recommended dose of fertilizers				
15:45:20 NPK				
i) DAP*	100 kg	15	2438	750.00

ii) SSP*	250 kg	8	3750	1000.00
iii) Urea	In case of SSP 54 kg Urea applied	6	405	162.00
iv) MOP	50 kg	7	438	175.00
* Either one	30 kg /ha Sulphur added if SSP used			
13. IPM				
Spray of Neem Seed Kernal	10	30	375	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	155	62.00
Insecticides/Fungicides	If required One Dusting of Methyle Parathion powder		0	
	25 kg / ha	25	781	312.50
	Total			2951.00
Integrated Crop Management	Linseed			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	Sweta, Subhra, Garima, Shekhar, Parwati Late- Laxmi-27, Padmini	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time	Mid October	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	30 kg / ha (F1,F2, Certified)	75	2813	1125.00
7. Use Weedicide	-	-	-	-
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	94	37.50
ii) Rhizobium + PSB	-	-	-	-

iii) Trichoderma	-	-	-	-
12. Recommended dose of fertilizers				
50:40:40 NPK				
i) DAP*	125 kg	15	2344	937.50
ii) SSP*	275 kg	8	2750	1100.00
iii) Urea	50 kg	6	375	150.00
iv) MOP	50 kg	7	438	175.00
* Either one	30 kg /ha Sulphur added if SSP used			
13. IPM				
Spray of Neem Seed Kernal	10	30	375	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	155	62.00
Insecticides/Fungicides	If required One Dusting of Methyle Parathion powder		0	
	25 kg / ha	25	781	312.50
	Total (Less SSP)			2949.50
Integrated Crop Management	Mustard			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	Varuna, Kranti, Rohini, Vaibhav, Pusa Bold Late-Ashirvad, Vardan	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time	October first week	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	6 kg / ha (F1,F2, Certified)	150	1125	450.00

7. Use Weedicide	-	-	-	-
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	94	37.50
ii) Rhizobium + PSB	-	-	-	-
iii) Trichoderma	-	-	-	-
12. Recommended dose of fertilizers				
60:50:30 NPK				
i) DAP*	180 kg	15	3375	1350.00
ii) SSP*	275 kg	8	2750	1100.00
iii) Urea	75 kg	6	563	225.00
iv) MOP	50 kg	7	438	175.00
* Either one	30 kg /ha Sulphur added if SSP used			
13. IPM				
Spray of Neem Seed Kernal	10	30	375	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	155	62.00
Insecticides/Fungicides	If required One Dusting of Methyle Parathion powder			
	25 kg / ha	25	781	312.50
	Total (Less SSP)			2762.00
Integrated Crop Management	Toriya			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	Type-9, PT-303, PT-30	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of		

	Late-Bhawani	Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time		Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
	First Fortnight of September			
3. Required Seed	4 kg / ha (F1,F2, Certified)	200	1000	400.00
7. Use Weedicide	-	-	-	-
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	94	37.50
ii) Rhizobium + PSB	-	-	-	-
iii) Trichoderma	-	-	-	-
12. Recommended dose of fertilizers				
50:30:30 NPK				
i) DAP*	125 kg	15	2344	937.50
ii) SSP*	275 kg	8	2750	1100.00
iii) Urea	50 kg	6	375	150.00
iv) MOP	50 kg	7	438	175.00
* Either one	30 kg /ha Sulphur added if SSP used			
13. IPM				
Spray of Neem Seed Kernal	10	30	375	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	155	62.00
Insecticides/Fungicides	If required One Dusting of Methyle Parathion powder		0	
	25 kg / ha	25	781	312.50
	Total (Less SSP)			2224.50
Integrated Crop Management	Til (Sesamum)			
Area of Demonstration - 0.40				

ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	Type-4,12,13,78, Shekhar	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
	Late- Pragati, Tarun			
2. Sowing Time		Rate(Rs/kg/ Pkt)		Demonstration Cost (Rs)
	June last week to July 15			
3. Required Seed	4 kg / ha (F1,F2, Certified)	150	750	300.00
7. Use Weedicide	-	-	-	-
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	94	37.50
ii) Rhizobium + PSB	-	-	-	-
iii) Trichoderma	-	-	-	-
12. Recommended dose of fertilizers				
30:15:25 NPK				
i) DAP*	80 kg	15	1500	600.00
ii) SSP*	225 kg	8	2250	900.00
iii) Urea	30 kg	6	225	90.00
iv) MOP	40 kg	7	350	140.00
* Either one	30 kg /ha Sulphur added if SSP used			
13. IPM				
Spray of Neem Seed Kernal	10	30	375	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	155	62.00

Insecticides/Fungicides	If required One Dusting of Methyle Parathion powder			
	25 kg / ha	25	781	312.50
	Total (Less SSP)			1692.00
Integrated Crop Management	Wheat			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	UP-2338,WH-542,PBW-343,502,550,K-9006,307	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time	Mid October to first week of Nov	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	100 kg / ha (F1,F2, Certified)	25	3125	1250.00
7. Use Weedicide	Total - at 28 to 32 at after sowing	950	1188	475.00
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	94	37.50
ii) Rhizobium + PSB	-	-	-	-
iii) Trichoderma	1.50 kg /ha (Soil treatment)	136	255	102.00
12. Recommended dose of fertilizers				
120:60:40 NPK				
i) DAP*	325 kg	15	6094	2437.50
ii) SSP*	-	-	0	0.00
iii) Urea	100 kg	6	750	300.00
iv) MOP	80 kg	7	700	280.00

v) Zinc	30 kg /ha	25	938	375.00
13. IPM				
Spray of Neem Seed Kernal	10	30	375	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	155	62.00
Insecticides/Fungicides	If required One Dusting of Methyle Paratheon powder		0	
	25 kg / ha	25	781	312.50
	Total (Less SSP)			5781.50
Integrated Crop Management	Maize			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	Hyb. Duccan-103, 105, Sankul-Dhawal, Shakti-1, Popcorn- Amber, V.L. Amber, Perl popcorn	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time	15 Oct. to 15 Nov.	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	22 kg / ha (F1,F2, Certified)	60	1650	660.00
4. Seed Treatment	Thirum & 25 ml Chloropiryphose	60	75	30.00
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	94	37.50
ii) Rhizobium + PSB	-	-	-	-
iii) Trichoderma	1.50 kg /ha (Soil treatment)	136	255	102.00
12. Recommended dose of				

fertilizers				
100:60:40 NPK				
i) DAP*	265 kg	15	4969	1987.50
ii) SSP*	-	-	0	0.00
iii) Urea	80 kg	6	600	240.00
iv) MOP	50 kg	7	438	175.00
v) Zinc	-	-	0	0.00
13. IPM				
Spray of Neem Seed Kernal	10	30	375	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	155	62.00
Insecticides/Fungicides	If required One Dusting of Methyle Parathion powder		0	
	25 kg / ha	25	781	312.50
	Total (Less SSP)			3756.50
Integrated Crop Management	Maize			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	Hybrid- Ganga-11, Sartaj, Prakash, Pusa Hybrid Maize5, Composite-Prabhat, Navjyoti, Pusa Composite-2, Naveen	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		
2. Sowing Time	Mid June	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	20 kg / ha (F1,F2, Certified)	40	1000	400.00
4. Seed Treatment	Thirum & 25 ml Chloropiryphose	60	75	30.00

11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	94	37.50
ii) Rhizobium + PSB	-	-	-	-
iii) Trichoderma	1.50 kg /ha (Soil treatment)	136	255	102.00
12. Recommended dose of fertilizers				
100:60:40 NPK				
i) DAP*	265 kg	15	4969	1987.50
ii) SSP*	-	-	0	0.00
iii) Urea	80 kg	6	600	240.00
iv) MOP	50 kg	7	438	175.00
v) Zinc	-	-	0	0.00
13. IPM				
Spray of Neem Seed Kernal	10	30	375	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	155	62.00
Insecticides/Fungicides	If required One Dusting of Methyle Parathion powder		0	
	25 kg / ha	25	781	312.50
	Total (Less SSP)			3496.50
Integrated Crop Management	Sorghum			
Area of Demonstration - 0.40 ha				
Detail of Demonstration	Intervention / Technology Adopted	Organizations for obtaining Seed		
1. Name of Varieties	CSV-13, 15, 1616, Bundela. CSH-16	C. S. A. University of Ag. & Technology, Kanpur, Indian Institute of Pulse Research, Kalyanpur Kanpur. IARI, Pusa New Delhi		

2. Sowing Time				
	June last to July first week	Rate(Rs/kg/ Pkt)	Cost per ha (Rs)	Demonstration Cost (Rs)
3. Required Seed	12 kg / ha (F1,F2, Certified)	40	600	240.00
4. Seed Treatment	Thirum & 25 ml Chloropiryphose	60	75	30.00
11. Bio Fertilizers/Bio-agents				
i) Azatobactor + PSB	5 Pkt + 5 Pkt = 10 Pkt @ Rs	7.5	94	37.50
ii) Rhizobium + PSB	-	-	-	-
iii) Trichoderma	1.50 kg /ha (Soil treatment)	136	255	102.00
12. Recommended dose of fertilizers				
80:40:20 NPK				
i) DAP*	280 kg	15	5250	2100.00
ii) SSP*	-	-	0	0.00
iii) Urea	100 kg	6	750	300.00
iv) MOP	80 kg	7	700	280.00
v) Zinc	-	-	0	0.00
13. IPM				
Spray of Neem Seed Kernal	10	30	375	150.00
Mataka Khad	15 lit/kg Gobar+Neemleaf+water+Desi cow urine+2 kg Molasis mix & Deco	2	155	62.00
Insecticides/Fungicides	If required One Dusting of Methyle Parathion powder			
	25 kg / ha	25	781	312.50
	Total (Less SSP)			3614.00

Details of Demonstration under Agriculture Production System

Project- IWMP-XVI

S. N o.	No. of Far mers	Crop	Variety	Ar ea (ha)	Tota l cost of dem on. (Rs.)	Benefic iary Contri butio n (Rs.)	Sha re of Proj ect fun d (Rs.)	Prop. date of sowing	Exp. Crop maturi ty date	Prop. Crop cutting Date	Productivity (Q/ha)		Total Seed	Expected Seed Exchange		Rem arks
											Exist ing	Expe cted		No of Far mers	Quan tity (Qtl.)	
	Khar if															
1	240	Urd	Shekhar-2, Azad-1/ PU-35/19	48. 00	1.70 1	0.060	1.64 1	Last June to Mid July	Mid Septe mber	25-Sep	3.48	5.6	268.8	1792	107.5 2	
						0.221	1.48 0									
2	200	Sorgh um	Bundela, CSV-15, 13	40. 00	1.44 6	0.051	1.39 5	Last June to Mid July	Mid Septe mber	25-Sep	4.2	6.2	248	2067	206.6 7	
						0.188	1.25 8									
3	240	Arhar	Paras, UPAS-120	48. 00	1.41 6	0.050	1.36 7	Last June- July	Oct (UPA S)	30-Sep	5.34	7.6	364.8	1459	291.8 4	
						0.184	1.23 2		March (Paras)	25-Mar						
4	200	Til	Pragati, Shekhar	40. 00	0.67 7	0.024	0.65 3	15-Jul	Septe mber	30-Sep	1.8	3.6	144	3600	108.0 0	
	Rabi					0.088	0.58 9									

1	400	Lentil	DPL-15, K-75	80. 00	3.79 5	0.133	3.66 2	15-Oct	Feb	5-Feb	4.9	6.5	520	867	433.3 3	
						0.493	3.30 1									
2	320	Chick pea	KDG- 1168, KWR-108	64. 00	3.48 4	0.122	3.36 2	15-30 October	Las Feb to Mid March	2-10 March	5.62	8.5	544	680	476.0 0	
						0.453	3.03 1									
3	320	Field Pea	KPMR- 400, 522	64. 00	3.67 6	0.129	3.54 7	October	March	5-Mar	6.2	9.5	608	760	570.0 0	
						0.478	3.19 8									
4	240	Linse ed	Parwati, Padmini	48. 00	1.41 6	0.050	1.36 6	October	Feb- March	27 Feb to 5 March	Mixe d	5.6	268.8	1075	215.0 4	
						0.184	1.23 2									
5	200	Must ard	Maya, Kranti	40. 00	1.10 48	0.039	1.06 6	October	Feb	15-120 Feb	Mixe d	4.8	192	3840	153.6 0	
						0.144	0.96 1									
	Total					3.088	34.3 40									

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

MAPS

