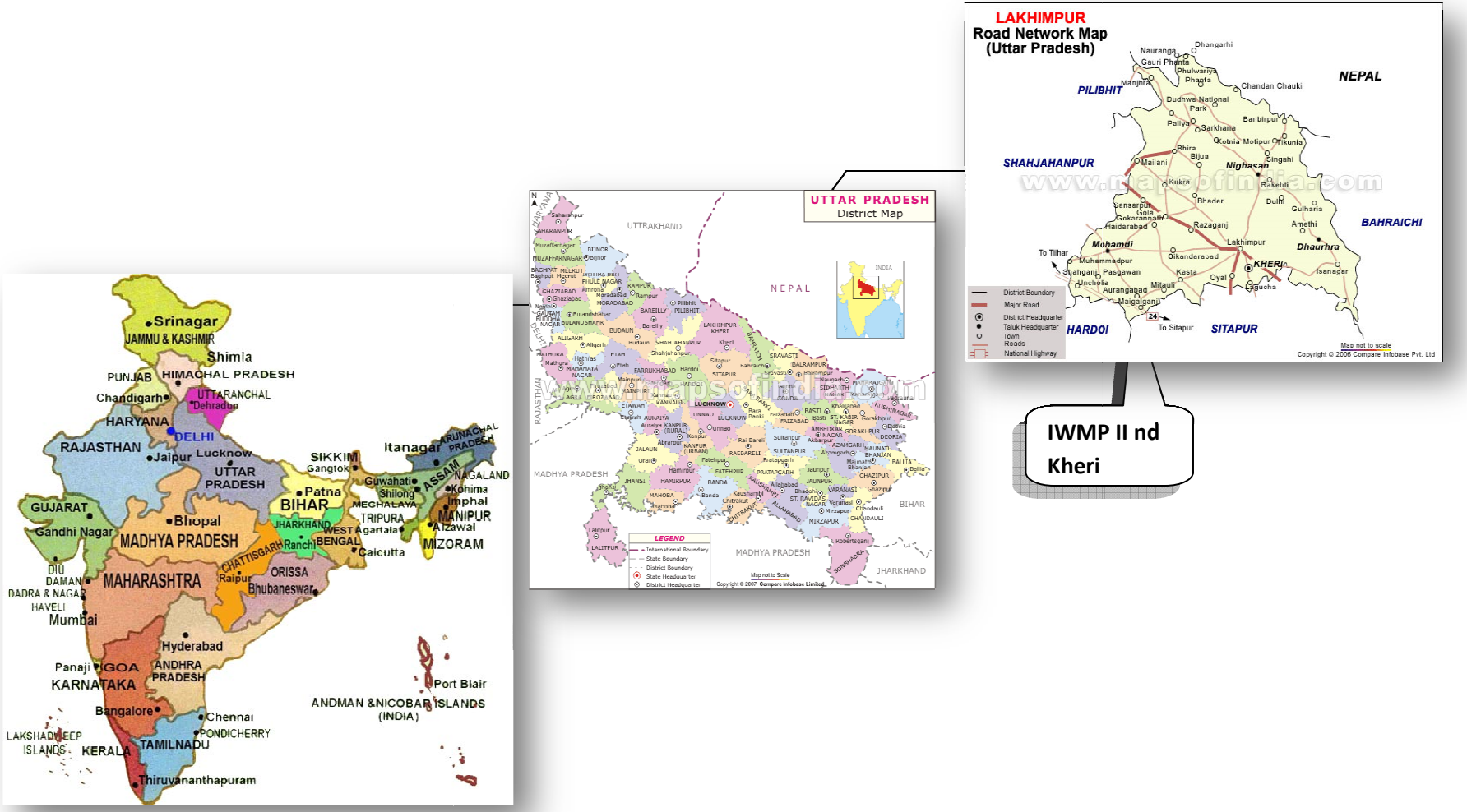
CHAPTER - 1

PROJECT BACKGROUND

Location Map



Project Background

KHERI (IWMP-1I) project is located in Lakhimpur Kheri District of Uttar Pradesh state. The project is a cluster of ONE micro-watershed 2B2E7C1b being their respective codes of Block PASGAWAN and MITAULI. The total project area of the watershed is about 1685 Ha, of which 1180 Ha has been undertaken to be treated under Integrated Watershed Management Programme (IWMP) starting year 2010-11.

The nearest town is MaigalGanj which is center place of the project area and is well connected by ***pucca*** road. The project area lies in Block Pasgawan and Mitauli. The watershed includes 16 villages .The livelihood of these people is primarily based on rainfed agriculture, animal husbandry, and wage labour. Due to prevalence of mild to steep slopes and presence of a number of drainage lines in the watershed, the drainage system is adequate. The watershed forms part of Gomati basin.

There is no back yard horticulture or commercial horticultural plantation in the villages except few scattered fruit plants. The agriculture fields of the village do not have any forest or horticultural plantation. At places, some isolated trees of ***mango*** can be seen, whose frequency is less than one tree per running length of 100 m.

Project Objectives

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

Land Feature

- *Location of Watershed*

(e.g. District name
  a. Gram Panchayat 1
    i. Village 1
    ii. Village 2….)

Lakhimpur Kheri

a. Sahupur
    i. Sahupur
    ii. Khairahana
b. Vallipur
    i. Katkorwa
    ii. Behara moti
    iii. Bardha
    iv. Barraiya
    v. Chattapur
    vi. Vallipur
c. Chauganpur

i. Chaugaanpur
ii. Bandhokhera

d. Harnaha
i. Harnaha

e. Parsehara
i. Parsehara
ii. Piparia khagai

f. Gurudeokhera
i. Chaukharia
ii. Dharmakhera

g. Alinagar
i. Alinagar

h. Kaimahara
i. Kaimahara

i. Pipariaziz

i.Pipariaziz

j. Kapasi

i. Kapasi

k. khurramnagar

i. Khurramnagar

Longitude: 27.6 to 28.6 (North) – Latitude: 80.34 to 81.30 (East)

(Relative Height difference (m): 0 to 10)

➢ *Agro-climatic zones, soil types, average rainfall, temperature, humidity and project locations*

Agro-climatic zone	Area (in Ha)	District	Projects	Major soil types		Average rainfall (in mm) (Last 5 years' avg)	Produce	
				Type	Area (in Ha)		Name	Area (in Ha)
Bhavar & Tarai Zone	1685	Lakhimpur Kheri	IWMP IInd Kheri	Sandy	1685	863	Paddy	480
							Jwar	60
							Wheat	710
							Sugar Cane	50

➢ *Village wise details of IWMP Watershed*

S.No.	Name of the project	Names of village	Names of Micro-watershed	Micro-watershed area (in Ha)	Proposed Cost (in Lacs)
1	***IWMP KHERI IInd***	1. Sahupur 2. Khairahana 3. Vallipur 4. Katkorwa 5. Behara moti 6. Bardha 7. Chauganpur 8. Pipariaziz 9. Kaimahara 10.Harnaha 11.Bandhukhera 12.Barraiya 13.Kotkarwa 14.Gurudeokhera 15.Chaukharia 16.Chattapur	**Sahupur 2B2E7C1b**	**1685.00**	**141.60**

		17.Pipariakhagai 18.Parsehara 19.Alinagar 20.Kapasi			

Need of Watershed Development Programme

Watershed Development Programme is prioritized on the basis of thirteen parameters namely Poverty Index, Percentage of SC/ST, Actual wages, Percentage of small and marginal farmers, Ground water status, Moisture Index, Area under rainfed agriculture, Drinking water situation in the area, Percentage of the degraded land, Productivity potential of the land, Continuity of another watershed that Has already developed/treated, Cluster approach for plain or for hilly terrain. Based on these thirteen parameters a composite ranking was given to IWMP IInd KHERI Watershed project as given in table .

Poverty Index of the project is above 20 %. Hence a score of 5 is allotted. The percentage of schedule castes in the village is more than 40 percent to the total population; hence a score of 10 was allotted. Rainfed agriculture forms the primary occupation of the village due to the fact that ground water strata is very low hence unfit for usage. More than 80 per cent of the farmers are small and marginal by nature and the actual wages earned by the labour is less than the minimum wages ,ground water strata is safe hence a composite rank of 5, 10 and 0 are allotted respectively.

Since the rainfall received is adequate, the moisture index is normal. Drinking water is problematic in the village. Majority of land is degraded due to inherent salinity. The soil is very permeable and production of the land can be significantly enriched with the availability of timely irrigation. IWMP IInd KHERI watershed falls in continuity with other watersheds

Cluster approach was followed taking into consideration but only one micro-watershed covering a total area of 1685 Ha.

All the parameters taken together give a cumulative score of 87.50 to the watershed (reference Table below).

➢ *Weight-age of the project*

S.No.	Criteria & Ranges	In Project area	Scores
1	**Poverty index** (% of poor to population) • Above 80 % (10) • 80 to 50 % (7.5) • 50 to 20 % (5)	**More than 20 %**	5
2	**Percentage of SC/ ST population** • More than 40 % (10) • 20 to 40 % (5) • Less than 20 % (3)	**More than 40 %**	10
3	**Actual wages**	**Actual wages are significantly**	5

	• Actual wages are significantly lower than minimum wages (5) • Actual wages are equal to or higher than minimum wages (0)	**lower than minimum wages**	
4	**Percentage of small & marginal farmers** • More than 80 % (10) • 50 to 80 % (5) • Less than 50 % (3)	**small and marginal farmers are More than 80%**	10
5	**Ground water status** • Over exploited (5) • Critical (3) • Sub critical (2) • Safe (0)	**Ground water status is safe**	0
6	**Moisture index** • DPAP/ DDP Block: 66.7 & below (15) • DDP Block: 33.3 to 66.6 (10) • DPAP Block: 0 to 33.2 (0)	**Project Block Pasgawan is Non DPAP/ DDP Block**	0

	• Non DPAP/ DDP Block		
7	**Area under rain-fed agriculture** • More than 90 % (15) • 80 to 90 % (10) • 70 to 80% (5) • Below 70% (Reject)	**Area under rain-fed agriculture more than 90 %**	15
8	**Drinking water** • No source (10) • Problematic village(7.5) • Partially covered (5) • Fully covered(0)	**Villages of the project are Problematic villages**	7.5
9	**Degraded land** • High – above 20 % (15) • Medium – 10 to 20 %(10) • Low- less than 10 % of TGA (5)	**Degraded land is less than 20%**	10
10	**Productivity potential of the land**	**Productivity can be enhanced**	10

	• 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)	**with** **reasonable efforts in project area**	
11	**Contiguity to another watershed that Has already been developed/ treated** • Contiguous to previously treated watershed & contiguity within the micro-watersheds in the project (10) • Contiguity within the micro-watersheds in the project but non-contiguous to previously treated watershed (5) • Neither contiguous to previously treated watershed nor contiguity within the	**Contiguous to previously treated watershed & contiguity within the micro-watersheds in the project**	10

	micro-watersheds in the project (0)		
12	**Cluster approach in the plains (more than one contiguous micro-watersheds in the project)** • Above 6 micro-watersheds in cluster (15) • 4 to 6 micro-watersheds in cluster (10) • 2 to 4 micro-watersheds in cluster (5)	**A Cluster of eight micro-watersheds in the project**	05
13	**Cluster approach in the hills (more than one contiguous micro-watersheds in the project)** • Above 5 micro-watersheds in cluster (15) • 3 to 5 micro-watersheds in cluster (10) • 2 to 3 micro-watersheds in cluster (5)	**Not Applicable**	0
Total			**87.50**

CHAPTER - 2

PROJECT IMPLEMENTING AGENCY

PROJECT IMPLEMENTING AGENCY

The Project Implementing Agencies (PIA) is selected by an appropriate mechanism by State Level Nodal Agency (SLNA) for Integrated Watershed Management Programme (IWMP) in Uttar Pradesh. The PIAs are responsible for implementation of watershed project. These PIAs may include relevant line departments, autonomous organizations under State/ Central Governments, Government Institutes/ Research bodies, Intermediate Panchayats, Voluntary Organizations (VOs).The PIA for IWMP KHERI IInd. watershed Project is Bhoomi Sanrakshan Adhikari Bhoomi Vikas & Jal Sansadhan District Lakhimpur Kheri.

The organization and its objectives:

The Bhoomi Sanrakshan Adhikari, Bhoomi Vikas & Jal Sansadhan, District Lakhimpur Kheri is a district level PIA and was established on 2004-05 to oversee the smooth implementation of watershed projects in the district. Under supervision of DRDA Lakhimpur Kheri Bhoomi Sanrakshan Adhikari Bhoomi Vikas & Jal Sansadhan District Lakhimpur Kheri, has dedicated and experienced staff comprising one Bhoomi Sanrakshan Adhikari a technical expert and a multidisciplinary team of agriculture expert, community mobilization expert and Data Entry

Operator, civil / Agriculture engineer, surveyor, Draughtsman and accountant. The objectives of the PIA, Lakhimpur Kheri are supervising, planning, implementing, documenting and promoting watershed development projects and related developmental activities in the district as per guidelines.

At present 3 IWMP projects Have been sanctioned by Government of India for Lakhimpur Kheri district. The entry point activities of all the IWMP projects have been identified by the respective PIAs in the district.

Project Implementation Agency Data:

Name of project: IWMP Kheri IInd

Details of PIA:

Type of organization: State Govt. Office

Name of organization: Bhoomi Sanrakshan Adhikari, Bhoomi Vikas & Jal Sansadhan, District Lakhimpur Kheri.

➢ *Staff at PIA level*

.	Name	Age	Sex	Designation	Qualification	Experience
1	**Mr. Rajesh Kumar Chaturvedi**	51	M	Bhoomi Sanrakshan Adhikari	Agriculture engineer	30 Years
2	**Mr. Ashfaq Husain**	50	M	Jr. Engineer	Agriculture engineer	29 Years
3	**Mr. A.K. Shukla**	48	M	Jr. Engineer	Agriculture engineer	29 Years
4	**Mr. Durga Shankar Jaiswal**	51	M	Accountant	B.Com.	29 Years
5	**Mr. Shiv Baranlal Verma**	52	M	Accountant	B.Com.	29 Years

6	**Mr. Umesh Chandra Srivastava**	52	M	Accountant	B.Com.	29 Years
7	**Mr. Milap Singh Chaudhri**	53	M	Draught Man	Certificate	29 Years
8	**Mr. J.P. Singh**	54	M	S. Clerk	B.A.	29 Years
9	**Mr. R.P. Dwivedi**	55	M	S. Clerk	B.A.	29 Years
10	**Mr. O.P. Pandey**	51	M	Trasser	Intermediate	29 Years
11	**A.K. Prajapati**	35	M	Trasser	Intermediate	06Years
12	**Mrs. Anita Rani**	30	F	Trasser	Graduate	06Years
13	**Mr. A.B. Saroj**	55	M	Trasser	Intermediate	29 Years
14	**Mr. R.P. Awasthi**	54	M	Jiledar	Intermediate	29 Years
15	**Mr. R. N. Singh**	52	M	Work Supervisor	Graduate	30 Years
16	**Mr. V.K. Gupta**	50	M	Work Supervisor	Graduate	29 Years
17	**Mr. Guru Prasad**	51	M	Work Supervisor	Graduate	29 Years

18	**Mr. Babu Lal Pankaj**	50	M	Work Supervisor	Graduate	29 Years
19	**Mr. D.P. Mishra**	52	M	Work Supervisor	Graduate	29 Years
20	**Mr. R.P. Singh**	49	M	Work Supervisor	Graduate	29 Years
21	**Mr. R.T. Pandey**	53	M	Work Supervisor	M.Com.	29 Years
22	**Mr. U.N. Mishra**	48	M	Work Supervisor	Graduate	29 Years
23	**Mr. P.N. Mishra**	55	M	Work Supervisor	Graduate	29 Years
24	**Mr. B.L. Nirmal**	36	M	Work Supervisor	Post Graduate	9 Years
25	**Mr. Brij Kishore**	51	M	Work Supervisor	Graduate	29 Years
26	**Mr. Naval Kishore**	50	M	Work Supervisor	Graduate	29 Years
29	**Mr. S.R. Yadav**	54	M	Work Supervisor	Graduate	29 Years
30	**Mr. Lalji Sharma**	53	M	Fourth Class	-	
29	**Mr. R.C. Nigam**	50	M	Fourth Class	-	
30	**Mr. S. S. Yadava**	51	M	Fourth Class	-	

CHAPTER – 3

BASIC INFORMATION OF THE PROJECT AREA

Blocks, Villages, Micro-watersheds taken up for IWMP

1	No. of Blocks taken up for IWMP so far	**Mitauli**	**Pasgawan**
2	Total No. of Gram Panchayats	**81**	**94**
3	No. of Gram Panchayats taken up for IWMP so far	**08**	**03**
4	Total No. of Villages	**132**	**211**
5	No. of villages taken up for IWMP so far	**16**	**04**
6	Total no. of micro-watersheds	**26**	**37**
7	No. of micro-watersheds taken up so far for IWMP	**01**	

Land Use Pattern

The net geographical area of IWMP KHERI 1st watershed is about 7597.00 Ha. About 90% of land is under agriculture. Maximum area of the project is rain-fed; Productivity of crops is below than district average. About 30% of the total land is classified under wasteland of which 90 percent is cultivable and rest is uncultivable. Farmer's are not adopting latest techniques of agriculture hence production of crops is not up to the mark.

- *Details of the types of areas covered under the IWMP programme in the Project*

	Parameters	Values
1	Names of Project	**IWMP KHERI II**
2	Year of Sanction	**2010-11**

3	Project Duration		**2010 to 2015**
4	Area of the project		**1685.00**
5	Type of terrain (Hilly/Desert/Others)		**Others**
6	Project cost (Rs. In lakh)		**141.60**
7	Names of micro-watersheds with Code No. (as per DoLR's unique codification)		➢ **SAHUPUR 2B2E7C1b**
8	Cultivated & wasteland area of the project	Cultivated rainfed area	**1103**
		Cultivated irrigated area	**--**
		Uncultivated wasteland	**91**
9	Area details (in Ha) (falling within the	Private Agricultural Land	**1280**
		Forest Land	**2**

	project)	Community land	**--**
		Others (Please specify)	**--**
		Total area (in Ha)	**1685**

Details of the types of areas covered under the IWMP programme

S. No.	Parameters			Values
1	Area of the project (in Ha)			**1685**
2	Names of micro watersheds with Code Nos. (as per DoLR's unique codification)			➢ **SAHUPUR (2B2E7C1b)**
3	No. of Beneficiaries covered	Marginal Farmers		**897**
		Small Farmers		**451**
		Large Farmers		**152**
		Landless		**75**
		Total		**1575**
4	Identified DPAP/ DDP/ Blocks covered	DPAP	No. of Blocks	**--**
			Area	**--**

		DDP	No. of Blocks	--
			Area	--

Soil and Topography

IWMP KHERI's IInd watershed project falls under Bhavar and Tarai Agro-Climatic Zone. The soil is mainly sandy loam. The depth of soil is deep about 45 to 75 cm. The predominant texture of soil is sandy loam and the soil fertility is poor with low nitrogen, phosphorus. The topography of the area is moderate ranging from 0-10% slope. Approximately 20% area of the project is undulating. Some area of the project comes under water logging in rainy season.

➢ *Soil Classification*

S. No. of Watersheds	Soil Type	Total Extent (in Ha)	Based on depth (cm) (mention area in Ha)				
			Very Shallow (0.75)	Shallow (7.5-22.5)	Moderately Deep (22.5-45.00)	Deep (45.0-90.0)	Very Deep (>90)
1	Sandy Loam	1685	--	--	--	1685	--

Based on Slope (%) (mention area in Ha)				Erosion(mention area in Ha)			
Nearly Level(0.2)	Moderate slope(2-6)	Strong slope (6-15)	Steep (>15)	Water			Wind
				Sheet	Rill	Gully	
1276.00	324.00	85.00	--	1150.00	102.35	50.60	--

Climatic conditions

1	Year	**2010-11**
2	Rainfall (in mm)	**863**
3	Temperature (˚C)	**5.5 to 45.0**
4	Runoff	**70%**
5	Average Soil Loss (in tones/Ha/Year)	**20.0**

Flood and drought in the project areas of the district during last 5 years

Names of District	Names of project	Particulars	Villages	Periodicity		Not affected
				Annual	Any other (please specify)	
Lakhimpur Kheri	IWMP Kheri IInd	Flood	No. of villages	-	-	Not affected
			Name(s) of villages	-	-	Not affected
		Drought	No. of villages	-	-	Not affected
			Name(s) of villages	-	-	Not affected

Soil erosion in the project areas

Names of District	Names of Names of projects	Cause	Type of erosion	Area affected (Ha)	un off (mm/ year)	vera ge soil loss (Ton/ Ha/ year)
Lakhimpur Kheri	IWMP Kheri IInd	Water erosion			70%	20.00
		a	Sheet	1150.00		
		b	Rill	102.35		
		c	Gully	50.60		
		Sub-Total		1302.95		
		Wind erosion		-	NA	
Total for project				1302.95		

Land holding pattern in the project areas

S. No.	Names of District	Names of the project	Type of Farmer	No. of households	No. of BPL households	Land holding (Ha)		
						Irrigated	Rainfed	Total
1	Lakhimpur Kheri	IWMP Kheri IInd	Large farmer	152	-	-	380.00	380.00
			Small farmer	451	-	-	564.00	564.00
			Marginal farmer	897	448	-	236.00	236.00
			Landless person	75	75	-	-	-
			Sub-Total	**1575**	**523**	**-**	**1180.00**	**1180.00**

Common property resources of the project area

				Pvt. persons	**Govt.**	**PRI**	**Any other**	**Pvt. persons**	**Govt**	**PRI**	**Any other**
1	Lakhimpur Kheri	IWMP Kheri IInd	Wasteland/ degraded land	240.00	93.50	-	-	240.00	93.50	-	-
			Pastures	-	1.50	-	-	-	1.50	-	-
			Agricultural land	1316.53	-	-	-	843.00	-	-	-
			Orchards	-	-	-	-	-	-	-	-
			Village Woodlot	-	-	-	-	-	-	-	-
			Forest	-	2.00	-	-	-	2.00	-	-
			Village Ponds/	-	4.52	-	-	-	-	-	-

			Tanks									
			Community Buildings	-	2.20	-	-	-	-	-	-
			Weekly Markets	-	1.00	-	-	-	-	-	-
			Permanent markets	-	-	-	-	-	-	-	-
			Temples/Places of worship	0.75	-	-	-	-	-	-	-
			Others (Pl. specify)Road	-	23.00	-	-	-	-	-	-
	TOTAL			1557.28	127.72	-	-	1083.00	97.00	-	-

Land and Agriculture

Lack of surface water source and has limited the sufficient base for irrigation as well as for drinking purpose. The average land holding is about 0.09 Ha ranging from 1 to 4 Ha. Lack of irrigation source forces the majority of the farmers to migrate to ensure their livelihood. This affects directly the demographic profile of the village. The major crops cultivated by the farmers are Sugar Cane, Wheat and Paddy.

Some of the farmers take up rain-fed castor crop if rainfall is good. The land conservation measures such as earthen bunds and farm bunds in the area will help them to take up a *rabi* crop of mustard or cumin in the residual moisture.

➢ *Crops & Cropping Pattern*

			Rain Fed			
		Crop Sown	Area (Ha.)	Prod'on (Ton/Yr)	Prod'ty (Kg/Ha.)	Cost of cultón (Rs/Ha.)
1	Kharif	Paddy	480	263.44	1780	12560
		Jwar	60	28.06	610	3516
2	Rabi	Wheat	710	658.00	2350	16650
		Sugar Cane	50	3055.00	47000	79060

Irrigated				Total			
Area (Ha.)	Prod'on (Ton/Yr)	Prod'ty (Kgs/ac)	Cost of cultón (Rs/Ha)	Area (Ha.)	Prod'on (Ton/Yr)	Prod'ty (Kg/Ha.)	Cost of cultón (Rs/Ha.)
-	-	-	-	480	263.44	1780	12560
-	-	-	-	60	28.06	610	3516
-	-	-	-	710	658.00	2350	16650
-	-	-	-	50	3055.00	47000	79060

➢ *Crop Classification*

		Area (Ha.)
1	Single Crop	780.00
2	Double Crop	355.00
3	Multiple Crop	56.00

Livestock

The village has 144 cows, 295 buffaloes,61 bullocks, 350 goats. Majority of ***land less villagers*** depends on goat and sheep rearing for their livelihood. Cows and buffaloes are of local breed. Lack of rain and surface water has reduced the fodder and pasture availability for their animals. This leads to heavy migration to other parts of the state. Milk production is so low that there is no dairy cooperative in the project area.

Livestock Details

S. No.	Type of animal	Existing No.	Milk production)- if applicable	Milk quantity sold (Ltr/day)	Income generated per annum (in (ltr /day lakh)
1	Cows	144	252	132	4.82
2	Buffaloes	295	1032	810	35.47
3	Goat/	350	-	-	-
4	Ox	42	-	-	-
5	he Buffalo	61	-	-	-
6	Poultry	742	-	-	-
7	Piggery	85	-	-	-
8	Other animals (specify Poultry)	-	-	-	-

9	Fodder Availability Dry (Abundant/Sufficient/Scarce)	Sufficient	-	-	-
10	Green (Abundant/Sufficient/Scarce)	Scarce	-	-	-
11	Fuel wood Availability (Abundant/Sufficient/Scarce	Scarce	-	-	-

Migration

S. No.	No. of person 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 (in Rs.)
1	140	90	Unemployment & For better employment	50 to 400	Labour	Rs.200 per day

➢ *Infrastructure Facilities*

S. No.	*Infrastructure type*	*No./Quantity*	*Status(Description)*
1	**Educational Institutions**		
	• Anganwadi	07	In Working
	• Primary School	11	Sufficient
	• Secondary School	03	Not Sufficient
	• Govt. Collage	--	--
	• Vocational Institution	--	--
2	**Service Institutions**		
	• Bank	00	Sufficient
	• Post Office	07	Sufficient
	• Primary Health Care Centre	00	Not Sufficient
	• Veterinary Centre	00	Not Sufficient

	• Market/Shandies	05	Not Sufficient
3	**No. of Bore wells/pump sets** (Functional)	112	Working well
4	**No. of milk collection centres** (union/society/pvt. Agency/others)	01	Insufficient
5	**Total Quantity of surplus milk**	NA	
6	**Road connectivity** (to main road by an all weather road) (Yes/No)	Yes	
7	**Bus facility** (Yes/No)	NO	
8	**No. Households Provided Electricity**	72	Insufficient
9	**Others** (Specify----------)		
10	**No. Households with access to drinking water**	--	
11	**Access to Agro Industries** (Yes/No)	No	
12	**Any other facilities** (Specify-----)		

➢ *Agriculture Implements*

S. No.	Implementation	Numbers
1	Tractor	**34**
2	Sprayers-manual/power	**52**
3	Cultivators/Harrows	**35**
4	Seed Drill	**03**

➢ *Details of Existing Livelihood for Poor*

S. No.	Name of activity	No. of beneficiaries					Pre-project average income per HH (in Rs.)
		SC	ST	Others	Total	Women	
1	Dairy	11	--	81	92	15	5000.00per year
2	Piggery	08	--	--	08	03	6000.00per year
3	Poultry	04		15	19	11	4050. 00per year
4	Goat	17		21	38	22	3000.00per year
5	Black smith	--		04	04	00	6000.00per year
6	Carpenter	00		05	05	--	8000.00per year
7	Barber	--		06	06	01	7000.00per year

8	Washer man	06		00	06	03	8000.00per year
9	Tailoring	05		06	11	04	4050. 00per year
10	Masonry work	09		11	20	--	10000. 00per year
11	Fisheries	08		15	23	00	4050. 00per year

Climatic & Hydrological Features

S.No.	Parameters	Values
1	Average Rain Fall in mm	**863**
2	Agro climatic Zone	**Bhavar and Tarai Zone**
3	Major Streams	**Gomati**
4	Average temperature in Centigrade (Max-Min)	**43 - 5.0**
5	Average Annual Run off (mm/yr)	**432**
6	Average Annual Soil Loss (Ton/Ac/Yr)	**20**
7	Flood affected details (No. of times occurred in last 5 years) (Specify months & years of flood occurrence)	**N.A**
8	Drought Affected details (No. of times occurred in last 5 years) (Specify years of drought occurrence)	**N.A.**

9	Present Ground Water Table Status	**40m**

Agro-climatic zones, soil types, average rainfall, temperature, humidity and project locations

Agro-climatic zone	Area (in Ha)	District	Projects	Major soil types		Average rainfall (in mm) (Last 5 years' avg)	Produce	
				Type	Area (in Ha)		Name	Area (in Ha)
Bhavar & Tarai Zone	1685	Lakhimpur Kheri	IWMP IInd Kheri	Sandy	1685	863	Paddy	480
							Jwar	60
							Wheat	710
							Sugar Cane	50

Irrigation Facilities

- *Irrigation Source - I*

Sources	Status	Numbers
Open Wells	Functional	01
	Not Functional	06
Bore Wells	Functional	112
	Not Functional	04

- *Agro-climatic zones, soil types, average rainfall, temperature, humidity project locations*

Agro-climatic zone	Area (in Ha)	District	Projects	Major soil types		Average rainfall (in mm) (Last 5 years' avg)	Produce	
				Type	Area (in Ha)		Name	Area (in Ha)
Bhavar & Tarai Zone	1685	Lakhimpur Kheri	IWMP IInd Kheri	Sandy	1685	863	Paddy	480
							Jwar	60
							Wheat	710
							Sugar Cane	50

➢ *Availability of Drinking Water*

S.No.	Item	Unit	Quantity
1	Drinking water requirement	Ltrs/day	40.00
2	Present availability of drinking water	Ltrs/day	30.00
3	No. of drinking water sources available	Nos	215
	a) No. functional	Nos	210
	b) No. requires repairs	Nos	05
	c) No. defunct	Nos	--
4	Short fall if any	Ltrs/day	10.00
5	No. of families getting drinking water from outside the micro watershed area	Nos	--
6	Requirement of new drinking water sources (if any)	Nos	One Hand pump per 40 HH

Status of Water Table

S.No	Name of village	Source (open/bore well)	Date of recording	depth of water table from ground level (in m)	Source located at (ridge/middle/ valley)	Remarks
1	ALINAGAR	Bore Well	08-02-2011	10.00	RIDGE	
2	PARSEHARA	Bore Well	07-02-2011	9.80	MIDDLE	
3	VALLIPUR	Bore Well	06-02-2011	9.90	MIDDLE	
4	CHAUGANPUR	Bore Well	04-02-2011	10.00	MIDDLE	
5	GURUDEOKHERA	Bore Well	09-02-2011	10.10	RIDGE	
6	HARNAHA	Bore Well	08-02-2011	9.70	VALLEY	
7	KAIMAHARA	Bore Well	07-02-2011	9.80	VALLEY	
8	KAPASI	Bore Well	08-02-2011	10.00	RIDGE	

9	SAHUPUR	Bore Well	07-02-2011	9.80	MIDDLE	
10	KHURRAMNAGAR	Bore Well	06-02-2011	9.90	MIDDLE	
11	PIPARIAZIZ	Bore Well	04-02-2011	10.00	MIDDLE	

Irrigation Source - II

S. No.	Type of the Source	Nos.	Area (in Ha)
1	M.I. tanks	-	-
2	Open wells	-	-
3	Bore wells	112	225
4	Canal irrigation	-	-
5	Natural Spring Head	-	-

CHAPTER – 4

WATERSHED ACTIVITIES

WATERSHED ACTIVITIES

Watershed management as a strategy has been adopted by Govt. of India especially in the rainfed regions of semi arid tropics , these regions are characterized by low and undependable rain low soil fertility, poor infrastructure development, low litracy and high incidence of migration . Several studies have indentified that there is a dire need of a systmetic and scientific approach to deal with watershed devp. The common guide lines generate a fresh and flexible frame work for the next generation watershed development.

SCIENTIFIC PLANNING

1. **Cluster Approach**

   This envisages a broader vision of Geo-hidrological unit which involves treating a cluster of micro-watersheds.The IWMP-II Project consists of only one micro-watersheds namely 2B2E7C1b as their respective code. This project in continuation with other watershed projects this gives an element of continuation of the progamme .

2. **Base line survey**

   To access the impact of any watershed development programme a detailed base line survey has to be conducted. This acts a benchmark for any intervention during and post implementation of any development programme. A detailed baseline survey was undertaken which involve household census survey,Bio physical survey and village lavel data collection from village lavel Govt. worker.

3.**Participatory Rural Appraisal [PRA]**

Creating accountability of the stake holders towards the programme.This has created an emphasis to include all the stakeholder communities and their and local indigenous technological knowledge while planning for any activity.

3. Use Of GIS and Remote sensing for planning

Use of various high science tools has been promoted at various stages of watershed development.

a. Priorityzation

b. Planning

c. Hydrological modeling

Details of Scientific Planning and inputs in IWMP Project

S.No.	Scientific criteria/ inputs used	Whether Scientific criteria was used
1	[A] Planning	
	Cluster approach	Yes
	Whether technical back stopping for the project has been arranged? If yes mention name of the Institute.	-
	1. Base line survey	Yes
	Hydro-geological survey	Yes
	Contour mapping	Yes
	Participatory Net Planning	Yes
	Remote Sensing Data	Yes
	Ridge to valley Treatment	Yes
	Online I.T. connectivity between	
	1 PIA and DRDA cell	Yes
	2 DRDA and SLNA	Yes
	3 SLNA and DOLR	Yes
	Availibility of GIS Layers	
	1 Cadastral Map	Yes
	2 Village Boundaries	Yes
	3 Drainage Map	Yes

	4 Soil Map	Yes
	5 Land Use	Yes
	6 Ground water status	-
	7 Watershed Boundaries	Yes
2	[B] Inputs	
	1 Bio- pesticides	-
	2 Organic manures	Yes
	3 Vermi compost	Yes
	4 Bio-Fertilizer	Yes
	5 Water saving devices	Yes
	6 Mechanized Tools/Implements	Yes
	7 Bio-fencing	Yes
	8 Nutrient budgeting	-
	9 Automatic waterlevel recorders& sediment samplers	-

Village Level Institutions

➢ *Details of Watershed Committee (WC) in IWMP 2ND KHERI*

S.No	Names of the District	Names of projects	Names of WCs	Date of Registration as a Society (dd/mm/ yyyy)	Designation	Name	Father's Name	Sex (M/ F)	Category	Remark
1	Lakhimpur Kheri	IWMP **2nd** Kheri	Sahupur	Under progress	President	Mr. Chotelal	Mr. Kedar	M	SC	
					Secretary	Mr. Ghanshyam	Mr. Prakash	M	BC	
					Member	Mrs. Geetadevi	Mr. Harihar Singh	F	OC	SHG
					Member	Mrs. Suman Lata	Mr. Parasuram	F	BC	SHG
					Member	Mr. Bhagwandeen	Mr. Sumer	M	SC	LL
					Member	Mr. Murali	Mr. Bhannu	M	SC	LL
					Member	Mr. Amrik Singh	Mr. Santosh Singh	M	OC	
					Member	Mr. Mahrndra Singh	Mr. Kartar Singh	M	OC	
					Member	Mr. Ramsanehi	Mr. Sri Pal	M	OC	
					Member	Mrs. Mr. Kamana Devi	Mr. Ramesh Kumar	F	BC	
					Member	Mrs Lalani Devi	Mr. Ram Lautan	F	BC	

Details of Self Help Groups (SHGs) in the project areas

S. No.	Names of the District	Names of project	Total no. of registered SHGs				No. of members				No. of SC/ST in each category			No. of BPL in each category		
			With only Men	With only Women	With both	Total	Categories	M	F	Total	M	F	Total	M	F	Total
1	Lakhimpur Kheri	**Sahupur**	--	--	1	1	Landless	--	1	1	--	1	1	--	1	1
							SF	7	--	7	3	--	3	7	--	7
							MF	--	--	--	--	--	--	--	--	--
							LF	--	--	--	--	--	--	--	--	--
Total				--	01	01		07	01	08	03	01	04	07	01	08
2	Lakhimpur Kheri	**Vallipur**	--	--	1	1	Landless	--	02	02	02	--	02	01	01	02
							SF	8	--	08	04	--	04	--	--	--
							MF	--	--	--	--	--	--	--	--	--
							LF	--	--	--	--	--	--	--	--	--
Total					01	01		08	02	10	06		04	01	01	02
3	Lakhimpur Kheri	**Chaugan pur**	--	--	1	1	Landless	--	1	1	1	1	2	01		01
							SF	9	--	9	4		4	02		02
							MF	--	--	--	--	--	--	--	--	--
							LF	--	--	--	--	--	--	--	--	--
Total					01	01		09	01	10	05	01	06	03		03
4	Lakhimpur Kheri	**Harnaha**	--	--	1	1	Landless	02		02	02	01	03		01	01
							SF	05	03	08				04		04

							MF	--	--	--	--	--	--	--	--	--
							LF	--	--	--	--	--	--	--	--	--
Total					01	01		07	03	10	02	01	03	04	01	05
5	Lakhimpur Kheri	**Khurram nagar**	--	--	1	1	Landless	3	1	4	3	1	4	3	1	4
							SF	5	1	6	3	1	4	4	1	5
							MF	--	--	--	--	--	--	--	--	--
							LF	--	--	--	--	--	--	--	--	--
Total					01	01		08	02	10	06	02	08	07	02	09
6	Lakhimpur Kheri	**Gurudeo khera**	--	--	1	1	Landless	2	2	4	2	2	4	2	2	4
							SF	4	2	6	2	2	4	3	2	5
							MF	--	--	--	--	--	--	--	--	--
							LF	--	--	--	--	--	--	--	--	--
	Total		--	--	01	01		06	04	10	04	04	08	05	04	09
7	Lakhimpur Kheri Kaimahara		--	--	1	1	Landless	3	1	4	3	1	4	3	1	4
							SF	5	1	6	3	1	4	4	1	5
							MF	--	--	--	--	--	--	--	--	--
							LF	--	--	--	--	--	--	--	--	--
Total					01	01		08	02	10	06	02	08	07	02	09
8	Lakhimpur Kheri		--	--	1	1	Landless	2	2	4	2	2	4	2	2	4
							SF	4	2	6	2	2	4	3	2	5
							MF	--	--	--	--	--	--	--	--	--
							LF	--	--	--	--	--	--	--	--	--
Total				--	01	01		06	04	10	04	04	08	05	04	09

Details of UGs

S. No.	Names of Districts	No. of Projects	Total no. of UGs				No. of members				No. of SC/ST in each category			No. of BPL in each category		
			Men	Women	Both	Total	Categories	M	F	Total	M	F	Total	M	F	Total
1	Lakhimpur Kheri	07	32	03	00	35	Landless	20	03	23	16	03	19	18	02	20
							SF	245	08	253	62	02	64	82	06	88
							MF	63	00	63	02	--	02	--	--	--
							LF	16	00	16	--	--	--	--	--	--
Total								344	11	355	80	05	85	100	08	108

(M – Male, F – Female)

➢ *Problem Typology of the Watershed*

S.No.	Problem Area	Problem Analysis	Proposed intervention to overcome problems
1	Soil Conservation (slope, erosion, soil loss, rainfall, productivity etc	Due to 0 to 10% slope, **Sheet** & **Reel** Erosion takes place in huge area by which heavy quantity of soil loss occurs in project area some time due to heavy rainfall soil erosion increases. Fertilizer and productive soil transfer in other area with runoff creates low productivity in the project area.	To protect the land from water erosion length of field should be reduced by soil conservation practices. In which C.B, M.B, P.B and vegetative covers are major intervention to overcome problems.
2	Water conservation (water budget, ground water norms, productivity	Due to moderate slope and heavy rainfall 70% of rainwater runoff in rivers and nalla which decreases moisture content in the soil hence farmers require more irrigation	By Renovation. Restoration and Repairing of water body structure and constructing Water Harvesting bunds the irrigation water requirements can minimize.

		water and water budget goes in deficit. Productivity decreases and cost of cultivation increases.	
3	Crop coverage (80% of w/s area should be with canopy)	Crop coverage area of the project is 60 to 70% in **Rabi** and **Kharif** season	By giving intensive training about cropping pattern, irrigation methods, tillage operation and Treatment of wasteland overcome problems. Hence crop coverage area of the project increases.
4	Agriculture productivity (crop wise compare with dist. Average)	District Project Area Kg/Ha Kg/Ha Kharif Paddy 2246 1780 Jwar 1058 610 Rabi Wheat 2766 2350 Sugar Cane 56752 47000 Agriculture productivity of project area is less than average Agriculture productivity of the District	By giving intensive training about cropping pattern, irrigation method, tillage operation advance agriculture, to insure availability of good seeds, fertilizer and manures as well as crop loan.

5	Livestock Productivity	Average milk productivity of cows & Buffaloes is 1.75 kg/day in project area where is District Average milk Productivity is much higher 3.75 kg/day.	By introducing better hybrid quality live stocks, By managing good & nutritional value fodder for cattle intensive training for balance food, prevention from local disease and immunization. Pasture development
6	Existing livelihood activities for asset less person	Dairy, embroidery, tailoring,	Dairy development work in project area. Goat and poultry development activity will be introduced
7	Community based Organizations & Social Capital Base	Only two Milk collection center working in project area	Milk collection centre unit established in every gram Panchayat
8	Capacity Building (participation, awareness of watershed community	Peoples of project area have very little awareness about Community Organizations, maintenance of development work.	By intensive training for Capacity Building, awareness participation. By intensive training intervention to overcome problems

➢ *Gap analysis of the House Hold*

S.No.	Gap area	Identified gap	Opportunities	Support Required
1	Agriculture	Average production of project area is lower than average production of the district.	Soil & soil health is good for better production, moisture, agricultural inputs, man power is also available in project area.	• Intensive training about latest knowledge of agriculture technology • Availability of good foundation seed, balance use of fertilizers by adopting soil testing, irrigation method which prevent soil erosion as well as water. • Use of manures, barmy compost, integrated waste management programme, need of timely sowing & irrigation are support required in project area.
2	Livestock	Milk production in the project area is significantly very low. Condition of livestock can improve and this creates extra income for land less people as well as other formers.	Atmosphere of project area is suitable for milky animals, pasture and green fodder is also available water required for animals are sufficient quantity.	• By introducing hybrid variety animals which give more milk and short kidding duration. • Balance food , protein full fodder , timely immunization is required in project area

3	Livelihoods (Enterprises	About 70% households came under the medium , poor and very poor categories respect ably their Livelihood depend up on agriculture wages	They have additional income through processing industries and subsidiary occupation s like dairy , poultry and goat forming etc.	• Landless and other former of project area need extra income for better life. • By intensive training and by making self help groups encourage people for dairy work, poultry and goat forming etc.
4	Capacity Building	Participation of stakeholders at all levels for effective implementation of projects is not very effective. Farmers of project area are not aware about community work and repairing ,maintaining of their field bunds , water body structures etc.	Participation of people for common beneficiary work in project area will encourage to protect their common property Fodder development and Management, Afforestation, Dairy Development and Management, Income Generation Activities like Food Processing & Post Harvest management practices	• Capacity Building is the process of assisting the group or individuals to identify and address issues and gain the insights, knowledge. • By organizing training for all groups like watershed committee, watershed development team, user groups and self help groups.
5	Natural Resources (Land, Water, Vegetation, Energy etc)	People of project area are not fully utilizing the potential of Natural Resources.	Natural Resources are available in project area	• Alternative Land Use Plan • Scientific technique of Soil and Moisture conservation • Improved and Scientific agriculture practices • Use of Meteorological Information

Entry point activities (EPA)

District	Names of projects	Amount earmarked for EPA	EPAs planned	Estimated cost	Expenditure incurred	Balance	Expected outcome	Actual outcome
Lakhimpur Kheri	ALINAGAR PARSEHARA VALLIPUR CHAUGANPUR GURUDEOKHERA HARNAHA KAIMAHARA PIPARIAZIZ KAPASI SAHUPUR KHURRAMNAGAR	5.664	Well repairing Drainage lining	5.66	--	--	Drinking water availability Removal of excess water	--

- *Activities related to livelihoods by Self Help Groups (SHGs) in the project areas (Contd.)*

S. No.	Names of Villages	Total Assistance planned for the SHG (Amount in Lakh Rs.)				Total Annual Income to be generated	Total Annual Saving to be done
		Loan from revolving fund	Training	Material	Others		
1	ALINAGAR	0.50	0.18	0.06	--	0.23	0.023
2	PARSEHARA	0.50	0.18	0.06		0.23	0.023
3	VALLIPUR	0.50	0.18	0.06	--	0.22	0.022
4	CHAUGANPUR	0.50	0.18	0.06		0.23	0.023
5	GURUDEOKHERA	0.50	0.18	0.06	--	0.28	0.028
6	HARNAHA	0.50	0.18	0.06		0.23	0.023
7	KAIMAHARA	0.50	0.18	0.06	--	0.22	0.022
8	PIPARIAZIZ	0.50	0.18	0.06		0.23	0.023
9	KAPASI	0.50	0.18	0.06	--	0.26	0.026
10	SAHUPUR	0.50	0.18	0.06		0.23	0.023
11	KHURRAMNAGAR	0.50	0.18	0.06	--	0.27	0.027
Total		5.50	1.98	0.66	--	1.97	0.197

➢ *Details of Engineering Structures in Watershed Works*

S.No.	Name of Villages	Name of Structures	Type of Treatment (Ridge Area (R)/ Drainage Line (D)/ Land Dev. (L))	Type of Land			Executing Agency (UG/SHG/ Others)	Targets					
				Private	Community	Others		No. of units (no./cu.m./rmt)	Estimated Cost (in lakh Rs.)				Expected month & year
									M	W	O	T	
1	ALINAGAR PARSEHARA VALLIPUR CHAUGANPUR GURUDEO KHERA HARNAHA KAIMAHARA PIPARIAZIZ KAPASI SAHUPUR KHURRAMNAGAR	Staggered Trenching	--	--	--	--	--	--	--	--	--	--	--
		Contour Bunding	R	Private			UG	9.14	1.00	8.14	--	9.14	03/2013
		Graded Bunding	--	--	--	--	--	--	--	--	--	--	03/2013
		Bench terracing	--	--	--	--	--	--	--	--	--	--	03/2013
		Earthen Checks	L	Private	Community		UG	35.12	4.00	31.12	--	35.12	03/2013
		Brushwood Checks	--	--	--	--	--	--	--	--	--	--	03/2013
		Gully Plug	--	--	--	--	--	--	--	--	--	--	03/2013
		Loose Boulder Checks	--	--	--	--	--	--	--	--	--	--	03/2013
		Gabion Structures	--	--	--	--	--	--	--	--	--	--	03/2013
		Underground Dykes	--	--	--	--	--	--	--	--	--	--	03/2013
		Field Bunds	--	--	--	--	--	--	--	--	--	--	03/2013

➢ *Allied / other Activities*

S.No.	Name of Villages	Name of Activity	Type of land			Executing Agency UG/ SHG/ Others	Targets	
			Private	Community	Others		Estimated Cost (in Lakh Rs.)	Expected month & year of completion
1	ALINAGAR PARSEHARA VALLIPUR CHAUGANPUR GURUDEOKHERA HARNAHA KAIMAHARA PIPARIAZIZ KAPASI SAHUPUR KHURRAMNAGAR	Crop Demonstration	Private	--	--	UG	2.40	03/2013
		Sericulture	--	--	--	--	--	--
		Bee Keeping	--	--	--	--	--	--
		Backyard Poultry	--	--	--	--	--	--
		Small ruminants	--	--	--	--	--	--
		Other Livestock	--	--	--	--	--	--
		Fisheries	--	Community	--	UG	2.00	03/13
		Non-Conventional Energy Saving Devices (Bio-Fuel)	--	--	--	--	--	--
		Energy Conservation Measures	--	--	--	--	--	--
		Others	--	--	--	--	--	--

➢ *Activities related to Surface water resources in the project areas*

(All financial figures in lakh Rs.)

S.No	Name of Villages	Type of structures	Pre-project			Proposed target										Expected month & year of completion
						Augmentation/ repair of existing recharging structures				Construction of new recharging structures				Total target		
			No.	Area irrigated (Ha)	Storage capacity	No.	Area to be irrigated (Ha)		Estimated cost	No.	Area to be irrigated (Ha)		Estimated cost	Area to be irrigated (Ha)		Estimated cost	
1	ALINAGAR PARSEHARA VALLIPUR CHAUGANPUR GURUDEOKHERA HARNAHA KAIMAHARA PIPARIAZIZ KAPASI SAHUPUR KHURRAMNAGAR	Open Well	--	--	--	--	--		--	--	--		--	--		--	--
		Bore Well	--	--	--	--	--		--	--	--		--	--		--	--
		Percolation Tank	--	--	--	--	--		--	--	--	--	--	-	-	--	--

➢ *Activities executed by the User-Groups in the Projects*

S. No.	Names of Villages	Major Activities of the UGs - Targets				No. of UGs involved	Estimated Costs (in Rs.)	Amount of WDF to be collected (in Rs.)
		Structure/ Activity proposed			Expected month & year if completion (mm/yyyy)			
		Type	No.	Treatment (in Ha)				
1	ALINAGAR	Soil Conservation	--	9.50	03/2015	6	0.28	0.015
		Water Conservation	2	1.00	03/2014	3	0.63	0.030
		Afforestation	--	0.10	03/2015	4	0.12	0.006
2	PARSEHARA	Soil Conservation	--	35.00	03/2015	1	2.10	0.010
		Water Conservation	1	21.00	03/2014	1	1.26	0.07
		Afforestation	--	.035	03/2015	1	0.40	0.02
3	VALLIPUR	Soil Conservation	--	85.00	03/2015	2	5.11	0.26
		Water Conservation	2	126.00	03/2014	1	7.47	0.38
		Afforestation	--	2.60	03/2015	1	1.41	0.07
4	CHAUGANPUR	Soil Conservation	--	37.00	03/2015	7	2.25	0.11

		Water Conservation	1	62.00	03/2014	2	11.60	0.60
		Afforestation	--	2.12	03/2015	3	0.83	0.04
5	HARNAHA	**Soil Conservation**	--	16.00	03/2015	2	0.98	0.05
		Water Conservation	--	--	--	-	--	-
		Afforestation	--	0.90	03/2015	4	0.35	0.016
6	Gurudeokhera	**Soil Conservation**	--	10.50	03/2015	1	0.63	0.03
		Water Conservation	--	15.00	--	-	0.90	0.045
		Afforestation	--	0.96	03/2015	2	0.40	0.02
7	KAIMAHARA	**Soil Conservation**	--	45.00	03/2015	2	2.66	0.14
		Water Conservation	1	47.00	03/2014	1	9.50	0.50
		Afforestation	--	1.80	03/2015	4	0.59	0.03
8	PIPARIAZIZ	**Soil Conservation**	--	3.25	03/2015	5	0.20	0.01
		Water Conservation	-	--	--	--	--	--
		Afforestation	--	--	--	--	--	--
9	KAPASI	**Soil Conservation**	--	10.50	--	--	0.63	0.03
		Water Conservation	--	22.50	--	--	1.35	0.07
		Afforestation	--	0.05	--	--	0.08	0.004
10	SAHUPUR	**Soil Conservation**	--	43.00	--	--	2.60	0.13
		Water Conservation	--	84.50	--	--	12.45	0.63
		Afforestation	--	1.45	--	--	0.56	0.03

11	KHURRAMNAGAR	**Soil Conservation**		27.00	--	--	1.60	0.08
		Water Conservation		25.00	--	--	1.50	0.08
		Afforestation		2.00	--	--	69.00	0.035

Capacity Building

List of approved Training Institutes[@] for Capacity Building

S. No.	State	Name of the Training Institute	Full Address with contact no., website & e-mail	Name & Designation of the Head of Institute	Type of Institute[#]	Area(s) of specialization	Accreditation details
1	Uttar Pradesh (Lakhimpur Kheri)	District training centre Kheri	Bhansriya Railway crossing, Devkali Road Lakhimpur Kheri	Principal	Training centre	Self Help Group And Social Mobilization	-
2	Uttar Pradesh	Din Dayal Upadhyay training center Bakshi Ka Talab, Lucknow	Bakshi Ka Talab, Lucknow	Director General	Training center	Watershed Development , SHG,	-
3	Uttar Pradesh	C.S.W.C. Research and Training Institute Chaleser, Agra	Chaleser, AGRA	Director	Research and Training Institute	Watershed Development , SHG,	-

➢ *Capacity Building activities*

S. No.	State	Project Stakeholders	Total no. of persons	No. of persons trained so far	No. of persons to be trained during current financial year	No. of persons trained during current financial year	Sources of funding for training		Funds utilized	
							DoLR	Any other (pl. specify)	DoLR	Any other (pl. specify)
1	Uttar Pradesh	SLNA	--	--	--	--	DoLR	--	--	--
		DRDA/ZP cell	--	-	--	--	DoLR	--	--	--
		PIAs	30	03	26	03	DoLR	Departmental	--	--
		WDTs	05	03	--	03	DoLR	--	--	--
		UGs	355	--	180	--	DoLR	--	--	--
		SHGs	58	--	18	--	DoLR	--	--	--
		WCs	11	--	158	--	DoLR	--	--	--
		GPs	--	--	--	--	DoLR	--	--	--
		Community	3000		3000	--	--	--	--	--
		Others (Pl. specify)	--	--	--	--	--	--	--	--

➢ *Details of Project Fund accounts of DRDA & Watershed committees*

	DRDA PROJECT Account Details					WC Account Details					
S. No	Name of the Bank & Branch where Project account Has been open	Date of opening the account in Bank	Account No.	Account Type	Name & Designation of Authorized Persons who operate the Account	Name of the WC	Name of the Bank & Branch where Project account Has been open	Date of opening the account in Bank	Account No.	Account Type	Name & Designation of Authorized Persons who operate the Account
1	CENTRAL BANK Lakhimpur Kheri	22-01-2011	3104230152&310422899 4	Saving	Mr.M.P.Arya C.D.O. Mr.U.R. Yadava	SAHUPUR	OBC Lakhimpur Kheri	-	-	Saving	Mr.U.N.MishraWDT MEMBER& Mr. Ghanshyam SECRETORY.

➢ *Information, Education & Communication (IEC) activities*

S.No.	State	Activity	Executing agency	Estimated expenditure (Rs.)	Expenditure incurred (Rs.)	Outcome (may quantify , wherever possible)
1	Uttar Pradesh	Information & Communication	P.I.A./ BSNL	45000	Communication Between WC, WDT And District Level	Better Monitoring

Watershed Development Team (WDT) (Details)

S. No.	Names of Districts	Names of projects	Names of WDT members	Sex (M/F)	Age	Qualification	Experience	Role
1	Lakhimpur Kheri	IWMP Kheri IIrd	Rajesh Kumar Chaturvedi	M	51	Agriculture engineer	30 Years	Team Leader
			Mo.Asfaq Husain	M	51	Agriculture engineer	30 Years	Technical Expert
			Anil Kumar Shukla	M	49	Agriculture engineer	28 Years	Technical Expert
			Babulal Nirmal	M	35	Post Graduate in Agriculture	5 Years	Agriculture Expert
			Anita Rani	F	30	Graduate in Sociology	5 Years	Social Mobilization Expert

Chapter – 5

BUDGETING

DPR Plan Abstract

The collection of all the relevant data and information is important for preparation of the planning document. Following this problem analysis of the watershed area is undertaken detailing the extent of the problem and number affected by it. The possible options and solutions are also deliberated. Focus group discussions would help in this process.

Participatory Net Planning format helps in identifying the interventions that needs to be implemented at field level. The consolidation of Net Planning formats would result in a detailed perspective plan for the watershed area with year wise and activity wise summaries. This in turn is consolidated into a DPR Plan Abstract. The Detail Plan Report with all the necessary annexure, maps and other documents is submitted for approval.

BUDGET AT A GLANCE

BUDGET COMPONENT	COST REQUIREMENT
NET PROJECT COST	141.60
-Administrative cost	14.060
-Monitoring	1.416
-Evaluation	1.416
PREPARATORY PHASE	
-Entry Point Activities	5.664
-Institution &Capacity Building	7.080
-Detail Project Report	1.416
WATERSHED WORK PHASE	
-Watershed Development Works	70.800
-Livelihood Activities for the asset less Persons	14.160
-Production System &Micro Enterprises	18.408
COSOLIDATION PHASE	7.080
TOTAL	**141.60**

YEARWISE PHASING FROM 2010-11 TO 2014-15

S.No.	Component	1 Year		2nd Year		3rd Year		4th Year		5th Year		Total	
		Phy (No.)	Fin (Rs.)	Phy (No.)	Fin (Rs.)	Phy (No.)	Fin (Rs.)	Phy (No.)	Fin (Rs.)	Phy (No.)	Fin (Rs.)	Phy (No.)	Fin (Rs.)
1	Entry Point Activities (4%)	--	5.664	--	--	--	--	--	--	--	--	--	5.664
2	Institution & Capacity Building (5%)	--	1.416	--	2.832	--	2.124	--	0.708	--	--	--	7.080
3	Productivity Enhancement (13%)	--	--	--	0.284	--	9.628	--	8.496	--	--	--	18.408
4	Livelihoods for Asset less (10%)	--	--	--	0.424	--	7.080	--	6.656	--	--	--	14.160
5	Natural Resource Management (50%)	--	--	212	12.744	548	32.852	372	22.372	48	2.832	1180	70.800
6	Consolidation Phase (5%)	--	--	--	-	--	--	--	--	--	7.080	--	7.080
7	Administration (10%)	--	--	--	2.832	--	4.248	--	3.540	--	3.540	--	14.160
8	Monitoring (1%)	--	--	--	0.284	--	0.354	--	0.424	--	0.354	--	1.416
9	Evaluation (1%)	--	--	--	0.424	--	0.354	--	0.284	--	0.354	--	1.416
10	DPR Prep.(1%)	--	1.416	--	-	--		--		--		--	1.416
	Total	--	8.496	212	19.824	548	56.642	372	42.480	48	14.160	1180	141.600

WATERSHED # SAHUPUR

- *Activities related to Soil & water resources in the project areas (all financial figures in lakhRs.)*

S.No.	Name of Village	Area (in Ha)	Contour Bund		Water Harvesting Bund		Marginal Bund		Pond		Afforestation		Total cost
			Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
1	ALINAGAR	17.23	4.70	0.28	10.50	0.63	00	00	00	00	0.10	0.12	1.03
2	PARSEHARA	62.71	9.40	0.56	21.00	1.26	25.67	1.54	00	00	0.35	0.40	3.76
3	VALLIPUR	233.37	44.38	2.66	126.17	7.47	40.60	2.45	00	00	2.60	1.41	13.99
4	CHAUGANPUR	244.51	14.04	0.84	60.00	3.60	23.34	1.40	2	8.00	2.12	0.83	14.67
5	GURUDEOKHERA	32.05	4.70	0.28	15.00	0.90	5.80	0.35	00	00	0.96	0.40	1.93
6	HARNAHA	31.97	4.70	0.28	00	00	11.50	0.70	00	00	1.00	0.35	1.33
7	KAIMAHARA	207.52	9.34	0.56	45.00	2.70	35.00	2.10	2	6.50	1.80	0.59	12.45
8	PIPARIAZIZ	3.39	3.34	0.20	00	00	00	00	00	00	00	00	0.20
9	KAPASI	33.94	4.70	0.28	22.50	1.35	5.84	0.35	00	00	0.05	0.08	2.04
10	SAHUPUR	249.95	14.04	0.84	82.50	4.95	29.04	1.75	2	7.50	1.45	0.56	15.60
11	KHURRAMNAGAR	63.37	9.34	0.56	25.00	1.50	17.50	1.05	00	00	2.00	0.69	3.80
	TOTAL	**1180.00**	**122.68**	**7.34**	**407.67**	**24.36**	**194.29**	**11.69**	**6**	**22.00**	**12.43**	**5.43**	**70.80**

CHAPTER -6

EXPECTED OUTCOMES

Expected Project Outcomes

Expected Employment Related Outcomes

- *Employment Generation*

S.No.	Names of Villages	Wage Employment										Self Employment				
		No. of Man Days					No. of Beneficiaries					No. of Beneficiaries				
		SC	ST	Others	Women	Total	SC	ST	Others	Women	Total	SC	ST	Others	Women	Total
1 2 3 4 5 6 7 8 9 10 11	ALINAGAR PARSEHARA VALLIPUR CHAUGANPUR GURUDEOKHERA HARNAHA KAIMAHARA PIPARIAZIZ KAPASI SAHUPUR KHURRAMNAGAR	**30960**	**--**	**26710**	**6250**	**63920**	**1422**	**--**	**1224**	**218**	**2864**	**38**	**--**	**12**	**20**	**70**

➢ *Details of seasonal migration from Project Area:* ***Pre-project Status***

S.No.	Names of Villages	No. of Persons Migrating	No. of days/year of migration	Major reason(s) for migration	For reduced migration identify major activities of IWMP responsible		Expected reduction in no. of persons migrating
					Structures	Livelihoods	
1	ALINAGAR PARSEHARA VALLIPUR CHAUGANPUR GURUDEOKHERA HARNAHA KAIMAHARA PIPARIAZIZ KAPASI SAHUPUR KHURRAMNAGAR	90	90	Unemployment & For Better Employment	Treatment of Degraded Land	Dairy Development	40

➢ *Details of Rights conferred in the CPRs of the project area*

S.No.	Names of Villages	Particulars of CPR	If agreement signed		Expected No. of Beneficiary families			
			Date of Signing agreement	Nature of Right	SC	ST	Others	Total
1	ALINAGAR PARSEHARA VALLIPUR CHAUGANPUR GURUDEOKHERA HARNAHA KAIMAHARA PIPARIAZIZ KAPASI SAHUPUR KHURRAMNAGAR	Afforestation	--	Right to Collect Firewood for Domestic Purpose	35	--	25	60
		Pond	--	Right to Fishing	15	--	10	25

Water Related Outcomes

➢ *Details of Avg. Ground Water table depth in the project area (in m)*

S.No.	Names of Villages	Sources	Pre-project Level	Expected Post-project level	Remarks
1	ALINAGAR PARSEHARA VALLIPUR CHAUGANPUR GURUDEOKHERA HARNAHA KAIMAHARA PIPARIAZIZ KAPASI SAHUPUR KHURRAMNAGAR	Open Wells	10	9.50	--
		Bore Wells	10.10	9.50	--
		Others	--	--	--

➢ *Status of Drinking Water*

S.No.	Names of Villages	Availability of Drinking Water (no. of months in a year)		Quality of Drinking Water		Comments
		Pre-project	Expected Post-project	Pre-project	Expected Post-project	
1	ALINAGAR PARSEHARA VALLIPUR CHAUGANPUR GURUDEOKHERA HARNAHA KAIMAHARA PIPARIAZIZ KAPASI SAHUPUR KHURRAMNAGAR	10	12	Good	Very Good	--

Vegetation/Crop related outcomes

- *Details of Kharif crop area & yield in the project area*

S.No.	Names of Villages	Name of Crops	Pre-project						Expected Post-project					
			Area (in Ha)		Average Yield (Quintal per Ha)		Total Production (Quintal)		Area (in Ha)		Average Yield (Quintal per Ha)		Total Production (Quintal)	
			Irri.	Rf.	Irri.	Rf.	Irri.	Rf.	Irri.	Rf.	Irri.	Rf.	Irri.	Rf.
1	ALINAGAR PARSEHARA VALLIPUR CHAUGANPUR GURUDEOKHERA HARNAHA KAIMAHARA PIPARIAZIZ KAPASI SAHUPUR KHURRAMNAGAR	Paddy	--	480	--	17.80	--	8544.00	--	582	--	21.80	--	12687.60
		Jowar	--	60	--	6.10	--	366.00	--	60	--	6.50	--	390.00

Details of Rabi crop area & yield in the project area

S.No.	Names of Villages	Name of Crops	Pre-project						Expected Post-project					
			Area (in Ha)		Average Yield (Quintal per Ha)		Total Production (Quintal)		Area (in Ha)		Average Yield (Quintal per Ha)		Total Production (Quintal)	
			Irri.	Rf.	Irri.	Rf.	Irri.	Rf.	Irri.	Rf.	Irri.	Rf.	Irri.	Rf.
1	ALINAGAR PARSEHARA VALLIPUR CHAUGANPUR GURUDEOKHERA HARNAHA KAIMAHARA PIPARIAZIZ KAPASI SAHUPUR KHURRAMNAGAR	Wheat	--	710	--	23.50	--	16685	--	900	--	25.50	--	22950
		Sugar Cane	--	50	--	470	--	31500	--	75	--	530	--	39750
Total			--	760	--	493.50	--	48185	--	3750	--	555.50	--	62700

➢ *Details of Zaid /any other seasonal crop area & yield in the project area*

S.No.	Names of Villages	Name of Crops	Pre-project						Expected Post-project					
			Area (in Ha)		Average Yield (Quintal per Ha)		Total Production (Quintal)		Area (in Ha)		Average Yield (Quintal per Ha)		Total Production (Quintal)	
			Irri.	Rf.	Irri.	Rf.	Irri.	Rf.	Irri.	Rf.	Irri.	Rf.	Irri.	Rf.
1	ALINAGAR PARSEHARA VALLIPUR CHAUGANPUR GURUDEOKHERA HARNAHA KAIMAHARA PIPARIAZIZ KAPASI SAHUPUR KHURRAMNAGAR	Vegetables	--	--	--	--	--	--	--	20	--	15.00	--	300
Total			--	--	--	--	--	--	--	20	--	15.00	--	300

➢ *Increase/Decrease in the area under* ***Horticulture***

S.No.	Names of Villages	Names of horticulture crop	Existing are under horticulture (in Ha)	Expected Achievement	
				Area under horticulture proposed to be covered through IWMP	Change in the area under horticulture
1	ALINAGAR PARSEHARA VALLIPUR CHAUGANPUR GURUDEOKHERA HARNAHA KAIMAHARA PIPARIAZIZ KAPASI SAHUPUR KHURRAMNAGAR	Guava	00	4.00	4.00 (Increase)
		Mango	0.2	4.00	3.80 (Increase)

➢ *Increase/Decrease in the area under* ***Fodder***

S.No.	Names of Villages	Existing are under Fodder (in Ha)	Expected Achievement through IWMP (in Ha)
1	ALINAGAR PARSEHARA VALLIPUR CHAUGANPUR GURUDEOKHERA HARNAHA KAIMAHARA PIPARIAZIZ KAPASI SAHUPUR KHURRAMNAGAR	18.00	40.00

CHAPTER – 7

QUALITY AND SUSTAINABILITY ISSUES

QUALITY AND SUSTAINABILITY ISSUES

PLANS FOR MONITORING AND EVALUATION

A component of the web based GIS system is the mobile based monitoring and Evaluation

System which will help the ground staff alias WDT to transmit information from the ground level to the central server. Also any other Officer of the project can obtain information regarding project development area on mobile phone. During the work phase any progress in the treatment area is reported to the server by WDT.

PLANS FOR PROJECT MANAGEMENT

The Project management is mainly depend on the community organization and village lavel institute. WC and UG trained so for project operation and maintenance of assets created during project period.They will act as a major kingpin for post implementation for scaling up the successful experience during project period.

WATERSHED DEVELOPMENT FUND

This fund is created by beneficiary of project area as well as by user charges for proper maintinence of assets in project area.

USER CHARGES

The secretory of watershed committee shall maintain the records and collect user charges according designated rules by User Groups.

CHAPTER- 8

MAPS