



- e. PRA Map (along with photos & paper drawing)
- f. GIS based intervention map
- g. Treatment map ie proposed works on revenue map

**8.2 Documents of Agreements:**

- Proceedings of gram sabha for EPA approval
- Proceedings of gram sabha Resolution for committee constitution
- Documents related to PRA exercise
- Proceedings of gram sabha for DPR approval
- Proceedings of Panchayat Samiti General body for DPR approval
- Watershed Committee Registration certificate
- MoU – PIA – DWMA, PIA – WC(in case of NGO as PIA)

## 1 Introduction :-

Resource degradation has an adverse impact on human welfare. Enhancement of productivity in agriculture and sustainable maintenance of resources have already significantly reduced poverty in the country with does of appropriate policies. However, this has not been the case in many areas where resource degradation is taking place. Rural poverty is mostly associated with recurrent occurrences of drought. Poor maintenance and degradation of natural resources. In the recent past, several interventions were made to reduce poverty through drought proof technologies. Serveralpatners were involved in designing new methodologies to tackle the various constraints faced in the dry land areas. They included community based watershed management and innovative institutional arrangements to improve productivity and sustainability of the resource base in the degraded areas.

Watershed reduces poverty by generating employment and increasing agricultural productivity. It enhances the water table and the recharging level of ground water which ensures agricultural development. Simultaneously, enhanced recharging of water provides quality drinking water. Watershed development protects the environment through a forestation and increase the resilience of land and water resources.

### 1.1 Location :-

**Rajasthan** has become geographically the largest state in India acquiring almost 11% of the total Geographical area of India the geographical area of Rajasthan is 342239 square kilometer. Located at 23°30´ and 30° 11´ North latitude and 69° 29´ and 78° 17´ East

longitude. Adjacent to west and northwest to the boundaries of Pakistan, Rajasthan is surrounded by the states of Punjab, Haryana and Uttar Pradesh in north and north east, Uttar Pradesh and Madhya Pradesh, in its east and south east, and by the state of Gujarat in south west.

The **Bharatpur** district is situated between 76.1 to 78.5 latitude and 27.7 to 28.2 longitude. It is situated at the East portion of Rajasthan and 180 Km from Jaipur.

**Weir** block is situated 50 Kms from Bharatpur. In Weir Block IWMP Lakhanpur-I Project cover the seven gram panchayat area. These gram panchayat are Lakhanpur, Hathore, Ballbhghar, Mainapura, Gogara, Ghatri, & Sandle.

### **Location of project area:-**

IWMP-II Lakhanpur-I Project is located in WEIR Block, of BHARATPUR\_district. The project area is between the 76.1 to 78.5 latitude and 27.7 to 28.2 longitudes. It is at a distance of 10 to 20km from its Block head quarters and Kms from the district head quarters. There are 16 no. of habitations in the Project area and other details are .

There are 16 villages comes under these 7 gram panchayat villages are Kharra ,Godhra, Raypur ,Karavalee ,Govindpura ,Ballbhagar ,Targavan ,Majajpur ,Shahjadpura ,Khedli ,Brahaman ,Gadhe ,Brahaman, Mainapura, Gogara ,Sandhle, Dayapur & Nyaganv .

## **1.2 General features of watershed:-**

The Geological formation in the watershed area are represented by plain slope areas soil sandy loam. There are many dug wells in the watershed area which are drinking water is generally good for drinking purpose. Most of the precipitation falls in the month of July, August & September with very little in winter season. The intensity of rain fall is occasionally very high which causes erosion hazards. The watershed area is characterized as foiled porn east plane area . The temperature raises from first week of May to first week of June while the lowest temperature reported during month of December. Average annual rainfall of area is 650 mm. & Maximum intensity of rainfall is 212.5 mm per day on July12,2005 and max. Wind speed 21.4Km/hr on 20 May 2004. The Maximum Temperature goes up to 48 degree centi. & Minimum temp.4 degree centigrade. Max.Temp.49.0 degree centigrade on 22 June 2005 and Min. Temp.-0.5 degree centigrade on 24 Jan 2008 and 8Jan2008.

### General features of watershed

S.No.	Name of Project(as per GOI)	IWMP-II			
(a)	Name of Catchment				
(b)	Name of watershed area(local name)	LAKHANPUR-I			
©	Project Area	<b>5497</b>			
(d)	Net treatable Area	<b>5497</b>			
e)	Cost of Project	65964000			
f)	Cost/hectare	12000/ha.			
g)	Year of Sanction	2009-10			
h)	Watershed Code	08040601			
i)	No. of Gram Panchayats in project area	7			
j)	No. of villages in project area	16			
k)	Type of Project	Hilly/Desert/Other			
l)	Elevation (metres)				
m)	Major streams	Banganga			
n)	Slope range (%)				
	Macro/micro	Name of Gram Panchayat	Name of Villages Covered	Census code of villages	Area
	6/5	1 Hathori	1. Karawali	21/6/8/111	442
	4/6		2. Govindpura	21/6/8/118	169
		Total			611
	6/1	2 Gogaira	1. Gogaira (Ramnagar ,Shukku nagla)	21/6/8/144	320
		Total			320
	1/4	3 Sandli	1 Sandli	26/6/8/52	278
	1/5		2. Nayagoon	26/6/8/154	360

1/6		3. Dayapur	26/6/8/53	192
	Total			820
5/6	4 Ghatri	1.Targmwa	21/6/8/98	152
	Total			152
6/1	5 Mainapura	1.Mainapura	21/6/8/106	540
6/1		2. Gari Brahaman	21/6/8/108	99
6/1		3.Kherli Brahaman	21/6/8/107	136
5/6		4. Majajpur	21/6/8/109	169
6/4		5. Shahjadpura	21/6/8/103	150
	Total			1094
5/6	6. Ballbjghar	1. Ballbjghar (Nagala Jharla, Nagala Naya&dolt Nagala)	21/6/8/110	901
	Total			901
3/6	7. Lakhanpur	1. Kharra	21/6/8/145	720
3/5		2. Gotra	21/6/8/144	500
3/5		3. Raypur	21/6/8/114	369
	Total			1589
	Grand Total			<b>5497</b>

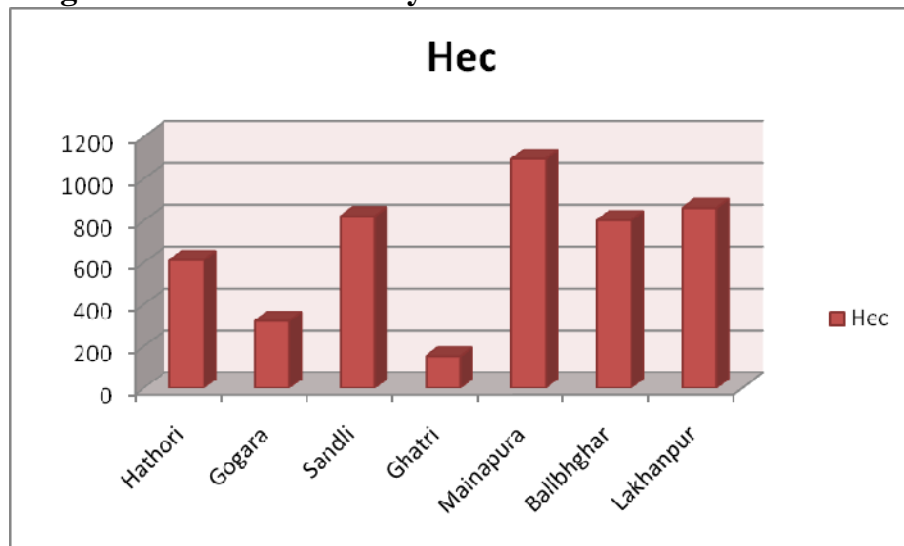
The watershed falls in Agro climatic Zone-3 B The soil texture is Sandy Loam. The average rainfall is 650cm . The temperatures in the area are in the range between 38 to48 centigrade during summer and 8 to 4 centigrade during winter. The major crops in the area are50% land is under cultivation 10% land fallow, 5% land is wasteland. 40% land is irrigated through

555 No of households are BPL(15% households) 738 are landless households(20% households) and 2375 household are small and marginal farmers(64.36%household) .Average land holding in the area is366.64ha. 6.64% area is single cropped area and 5.2% is double cropped. The main source of irrigation is Tube well. The average annual rainfall (5 years) in the area is 650 mm. The Major streams in the Watershed are Banganga. The major festivals in the village are Dav Baba Mela At present this village is having 20000 population with Communities like General, OBC, SC ST, and ST..

## Area covered by different Gram Panchayat

Macro No. 1,3,4,5&6	Hathori	Gogaira	Sandli	Ghatri	Mainapura	Ballbhghar	Lakhanpur
Area in ha	611	320	820	152	1094	901	1589

**Diagram - Area Covered by G.P.**



## Climatic and Hydrological information

1	Average Annual Rainfall(mm)	
	Year	Average Annual Rainfall(mm)
1	2001	465
2	2002	306
3	2003	759
4	2004	582
5	2005	654
6	2006	296
7	2007	456
8	2008	848
9	2009	626

10	2010	609		
2	<b>Average Monthly rainfall (last ten years)</b>			
	Month	Rainfall(mm)		
i)	June	76.50		
ii)	July	168.70		
iii)	August	139.70		
iv)	September	98.40		
3	<b>Maximum rainfall intensity (mm)</b>			
	Duration	rainfall intensity(mm)		
	i) 15 minute duration	26		
	ii) 30 minute duration	45		
	iii) 60 minute duration	60		
4	<b>Temperature (Degree C)</b>			
	Season	Max	Min	
	i) Summer Season	38.82	22.2	
	ii) Winter Season	24.65	8.47	
	iii) Rainy Season	34.75	23.77	
5	<b>Potential Evaporation Transpiration (PET) (mm/day)</b>			
	Season	PET		
	i) Summer	8.025		
	ii) Winter	2.05		
	iii) Rainy	4.925		
6	<b>Runoff</b>			
	i) Peak Rate (cum/hr)	19.16		
	ii) Total run off volume of rainy season (ha.m.)	2235		
	iii) Time of return of maximum flood	5 years	10 years	In-15 Year
	iv) Periodicity of Drought in village area			2 Year

### 1.3 Present status of land use & rain water storage :-

The entire area except gullies structure, habitations, road & tanks are used for agriculture purpose. There are two principals cropping seasons viz, Rabi & Kharif. The main crop is through Mustered wheat and Bajra but some other crop like , Arhar, Gram Moong, & Jawar are also grown in some area. Mixed cropping pattern is also common. The farmers there have water facility in their field adopting cash crops like Wheat & Mustered . However the un irrigated area are mostly single cropped.

In absence of good aquifer the yield of wells is very low, therefore the command of each well is also small. Most of the area is depended upon rainfall & Tube wells in some areas. Due to erratic behaviour of the rainfall and persistent **famine conditions**. The



cultivators are not in a position to invest on monitory inputs therefore, use of all improved varieties of seeds is rare.

In watershed area 572 ha.pastured land is available but condition of pastured land is very bad. About 20% land is under Saline encroachment& rest land in barren condition there is no vegetative cover on land. Some Farmers In watershed area horticulture crop is tradition of the area, this is due to lack of literacy & the irrigation facilities. Some farmers these have tube well, they are integrated in horticulture.

Rainfall in this area is erratic in nature and uneven is distribution . Most of the rainfall is not retained in the site (except some village ponds) and flow as run off in the existing drains and ultimately to river.

### 1.4 Soil Erosion : -

Due to be ration of slop / gradient, slow infiltration, lack of vegetative cover & occasionally very high intensity of rainfall & a heavy rain of occurs during mansoon which results causes sheet, rill, erosion & in some part gully formations.

Project Area is effected by water erosion such that loss of soil fertility take place every year. Production depleting year by year. It is major problem of watershed

#### Other Development Schemes in the project area

S.No	Scheme	Name of the department	Key interventions under the Scheme	Targeted Beneficiaries	Provisions under the Scheme
1	MGNREGA	Panchayt Raj	NRM	SC,ST&BPL	
2	Agriculture Extantion	Agriculture dipp.	-	SC,ST&BPL	
3	Lupin	NGO	-	SC,ST&BPL	

#### Details of infrastructure in the project areas

Parameters		Status			
(i)	No. of villages connected to the main road by an all-weather road	12			
(ii)	No. of villages provided with electricity	14			
(iii)	No. of households without access to drinking water	2150			
(iv)	No. of educational institutions :	(P)	(S)	(HS)	(VI)
	Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	5	4	3	-

(v)	No. of villages with access to Primary Health Centre	8			
(vi)	No. of villages with access to Veterinary Dispensary	4			
(vii)	No. of villages with access to Post Office	4			
(viii)	No. of villages with access to Banks	2			
(ix)	No. of villages with access to Markets/ mandis	-			
(x)	No. of villages with access to Agro-industries	-			
(xi)	Total quantity of surplus milk				
(xii)	No. of milk collection centers (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	(U)	(S)	(PA)	(O)
		-	-	1	-
(xiii)	No. of villages with access to Anganwadi Centre	12			
(xiv)	Any other facilities with no. of villages (please specify)	--			
(xv)	Nearest KVK	-	-	-	-
(xvi)	cooperative society	-	-	-	-
(xvii)	NGOs	-	-	-	-
(xviii)	Credit institutions	-	-	-	-
	(i) Bank	-	-	-	-
	(ii) Cooperative Society	-	-	-	-
(xix)	Agro Service Centre's	-	-	-	-

#### **Institutional arrangements (SLNA,DWDU,PIA,WDT,WC,Secretary)**

#### **State level nodal agency (SLNA) :-**

As per guide line para no.- 4.4 state Govt.of Rajasthan constituted. State level Nodal agency (SLNA).chairman of SLNA is Additional chief Secretary (development) & member Secretary is Director watershed (CEO).

#### **SLNA**

Member secretary Post	:-	CEO
Designation & Address	:-	Director watershed development & Soil conservation
T elephone No.	:-	0141 - 2227189
Fax No.	:-	0141 - 2227858
E - mail	:-	dir_ wdsc @ dataone.in.

**DWDU Details**

<b>1</b>	<b>2</b>	<b>3</b>
<b>S.No</b>	<b>Particulars</b>	<b>Details of DWDU</b>
1.	PM ,DWDU	Mr. K.L. Meena (XEn. Bharatpur) Mr. M.K. Agrawal (AEn. Bharatpur)
2.	Address with contact no., website	Zila parsad (DRDA) Bharatpur Raj.
3.	Telephone	05644- 230303, Mo.- 9636776917
4.	Fax	
5.	E-mail	

**PIA particulars**

<b>1</b>	<b>2</b>	<b>3</b>
<b>S.No</b>	<b>Particulars</b>	<b>Details of PIA</b>
6.	Name of PIA	Mr. K.P. Meena
7.	Designation	AEn. watershed ,(P.S. Weir, Bharatpur)
8.	Address with contact no., website	Panchyat Sameti - Weir, Bharatpur
9.	Telephone	Mo. 9414794221
10	Fax	05645-272340
11	E-mail	

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**WDT Particulars:**

1	2	3	4	5	6	7	8
S.No	Name of WDT member	M /F	Age	Qualification	Experience in watershed (Yrs)	Description of professional training	Role/ Function
1	Mr.Anil Kumar ( WDT.Eng.)	M	32	Diploma	--	1.3Day IMTI Kota -2011	Eng. measures
2	Mr.Briendra Singh( WDT.Ag.)	M	36	B.Sc.Ag. DWSM 'O' label computer	3	1. 5Day IMTI Kota -2009 2. 3Day IMTI Kota -2010 3. 5Day RUDSETI Kota -2011 4. 6Day IMTI Kota -2011	Agri. Development
3	Mr.Shyamsunder ( WDT.Vet.)	M	30	2 year Diploma LSA	3	1. 5Day IMTI Kota -2009 2. 5Day jAIPUR -2011 3. 6 ay IMTI Kota -2011	Veterinary Development
4	Mrs. Babita ( WDT.s.s.)	F	27	B.A,MA	--	1 5Day RUDSETI Kota -2011 2. 5Day IMTI Kota -2011	Community Development

### Details of Watershed Committees (WC)

S.N	Name of WCs	Date of Gram Sabha for WC	Date of Registration as a Society (dd/mm/yyyy)	Designation	Name	M/F	SC/ST/OBC/General	Landless/MF/SF/ BF	Name/UG/S
1	Hathori			President	Dalgangi		OBC	MF	
				Secretary	Rakesh Tivari		General	SF	
				Member					
				1	Ramesvar	M	OBC	MF	
				2	Yashpal	M	OBC	MF	
				3	Dalgangi	M	OBC	MF	
				4	Keshla	F	OBC	SF	
				5	Mansingh	M	OBC	MF	
				6	Vishnu	M	OBC	MF	
				7	Parmasukh	M	Sc	MF	
				8	Vijay	M	SC	MF	
				9	Seema	F	SC	SF	
2.	Gogera			President	Mansingh	M	Gen.	BF	
				Secretary	Radheshyam	M	Gen.	MF	
				Member					
				1	Veerindra Singh	M	Gen.	MF	
				2	Bhauro Singh	F	Gen.	MF	
				3	Banau Singh	M	Gen.	SF	
				4	Anar Singh	M	Gen.	MF	
				5	Man Singh	M	Gen.	MF	
				6	Shyama	M	SC	MF	
				7	Rani	F	Gen.	SF	
				8	Pappu	M	SCI	MF	
				9	Prakash	M	General	MF	
				10	Shakuntla	F	General	MF	
3	Sandli			President	.Banshi Gurjar	M	OBC	MF	
				Secretary	Shivram/Ramshavroop Sharma	M	Gen.	MF	
				Member					
				1	Saroj/Pappu	F	SC	MF	

				2	Shiv ram/Ramshavroop Sharma	M	Gen.	MF	
				3	Mdan/lah	M	SC	MF	
				4	Chirmoli/Ram singh	M	OBC	SF	
				5	Mooti/Ltur	M	OBC	MF	
				6	Geeta//Chanda singh	F	OBC	MF	
				7	Bhure/Jagan	F	SC	SF	
				8	Lajja/Ramratn	F	SC	MF	
				9	Siya Ram/ShriGurjar	M	OBC	MF	
4.	Ghatri			President	Sarnam singh	M	OBC	BF	BA
				Secretary	Arun Singh	M	OBC	MF	BA
				Member					
				1	Rangi	M	OBC	MF	Saksa
				2	Sarnam	M	OBC	MF	
				3	Sher singh	M	SC	MF	
				4	Ghanshyam	M	OBC	SF	
				5	Pratap	M	OBC	MF	
				6	Mangti	M	OBC	MF	
				7	Sumitra	F	SC	MF	
				8	Maya	F	OBC	SF	
				9	Mamta	F	Gen.	MF	
5.	Ballbagarh			President	Ganeshee	M	OBC	MF	SEC.
				Secretary	Vijay singh	M	OBC	MF	BA
				Member					
				1	Ragunath	M	OBC	MF	
				2	Hari Singh	M	OBC	MF	
				3	Aatra Singh	M	OBC	MF	
				4	Dhappi	F	SC	SF	
				5	Mahesh	M	OBC	MF	

				6	Ganeshee	M	OBC	MF	
				7	Raghuveer	M	SC	MF	
				8	Santra	F	OBC	MF	
				9	Santa	F	OBC	MF	
6	Mainapura			President	Jaiy singh	M	ST	BF	BA
				Secretary	Roop singh	M	ST	MF	BA
				Member					
				1	Vijay singh	M	ST	MF	
				2	Manoj Sharma	M	GEN.	MF	
				3	Sirmohar	M	ST	MF	
				4	Shanty	F	SC	SF	
				5	Dakeli	F	GEN.	MF	
				6	Hariman	M	ST	MF	
				7	Jallo	F	SC	MF	
				8	Nihal singh	M	ST	MF	
				9	Bothan singh	M	ST	MF	
				10	Ram kumaar	M	ST	MF	
				11	Megha	M	ST	MF	
				12	Uday	M	ST	MF	
				13	Ramjevan	M	ST	MF	
				14	Jai singh	M	ST	BF	
7	Lakhanpur			President	Sugar Singh	OBC	M	MF	SEC.
				Secretary	Verendra singh	OBC	M	MF	BA
				Member					
				1	Prhlad	OBC	M	MF	
				2	Vivak	OBC	M	MF	
				3	Visnu	OBC	M	MF	
				4	Dhujje	OBC	M	MF	
				5	Vella devi	OBC	F	MF	
				6	Bhgbati	OBC	F	MF	
				7	Pinky	SC	F	MF	
				8	Rasham	SC	F	MF	
				9	Sugar	OBC	M	MF	
				10	Verandra	OBC	M	MF	

### **Problems and scope of improvement in the project area**

The socio economic conditions of the area can be improved through increased production which can be achieved through expansion in cultivated area and productivity enhancement. 409 ha land is arable wasteland and 310 ha is fallow can be brought under cultivation.

2198 ha is only irrigated and with efforts this can be increased to 3000. The productivity gap of major crops in the area as compared with district and with areas in the same agro climatic zones indicate potential to increase the productivity. The demonstration of improved package of practices, improved varieties, increased irrigation facilities and soil conservation measures under the project can bridge this gap. Due to small land holdings in the area focus of the project would be on diversification in agriculture (horticulture, vegetables, green houses, Agro forestry, fodder crops) and diversification in Livelihoods (Agriculture, Animal husbandry, self employment)

11000 Quintal fodder scarcity can be met out through Pasture development. Improved animal Husbandry practices can increase the productivity of livestock. 200 no of persons migrate due to job this migration can be checked through creation of employment opportunities in the project area through increase in production and diversification in agriculture and Livelihoods as mentioned above.

### **1.5.1 Occupation**

The Agriculture main occupation of the area which is mainly dependent on rains. Day by day rainfall is decreasing. Mostly farmers are cultivated single crop so villages are engaged about four months in a year in agriculture work and they have to migrate to city. However due to NREGA migration has been come down.



Mostly landless families survive through Labours class. In this area most of the youths are also addicted to Alcohol, Tobacco, Gutakas, Smoking. Due to these addiction their work efficiency has been decreased proposed works in watershed for occupation.

➤ **Scope of Improvement -**

Following works have been proposed through watershed program so that village community get regular employment after completion of period. During program every work will be done by uges group & they will get labour so that they will have get employment.

Farmers who have sufficient source of water in their field. They will gained for Horticulture plantation & Kitchen garden so that they can have extra income through cash crop along with agriculture crops.

Farmers who have no source or limited source of water in their fields Agro forestry plants will be provided to them of cost to raise there income.

Land less families have been identified according to their interest training will be provided. After training they will get revolving funds from watershed for self employment to raise the Socio economic condition.

Formation of self help group. Get them trained are linkage with banks for self employment.

Un encroachment of available pasture land and developed with the horticulture plantation such as Awala, Boor, Karonda through National Horticulture. It will create the income of Gram Panchayat.

## **1.5.2. Land**

➤ **Problem related to Land-**

1. Soil erosion due to excessive rainfall in short duration.
2. Reducing yield due to losses at top soil

➤ **Scope of Improvement -**

Bunding in field and construction of checkdams, wastweir for safe disposal of excessive water & to check the field erosion .

To motivate the farmers for organic manunnring & Vermi compose.

## **1.5.3 Problem related to Crop**

Loss production due to improper cultivation. Loss moisture contain in soil. Non practice of improved variety of seed.excessive use of chemical fertilizer. Unawareness of crop potation practices.

#### ➤ **Scope of Improvement -**

Trained the farmer for proper cultivation practices. Construction of farm ponds and bunding in their fields. Crop demonstration through improved variety of seeds. To trained farmer for organic farming & agro forestry, Kitchen gardening, along with agriculture.

#### **1.5.4. Livestock**

- Indigenous breeding.
- Lack of pasture development.
- Unawareness about health age.
- Uncontrolled Grazing.

#### ➤ **Scope of Improvement -**

- Improve breed by high breed program.
- To develop pasture land according to their demand.
- To organized animal camps regularly for health checkup.
- To provide them Gross Cutting Machine & Manger.
- To arrange the training for animal betlorment.

#### **1.5.5. Water**

Average rainfall of this block 763 mm Rainfall in irregular insufficient. There is no management to store rain water. Due to black cotton soil has low water holding capacity. So runoff water drained out side the area through Nalles & rivers. Most of the state time water bodies such as Talav, Anicuts have been enclosed by local people or it has been sited. Nobody can take care of there water bodies. There is no source of ground water table recharge in this area so water go down day by day.

Due to pressure of increasing population & increase agriculture products farmers used tube well drastically due to which water level go down and whole area comes under dark zone. Presently whole area from March to June every year faces the scarcity of drinking water. During there month water supplied through tankers for villages & animals. In entry point activities each gram sabha has proposed water related works.

#### ➤ **Proposed for solving problem -**

To P.R.A. with villages and survey the area proposed the water harvesting structures at appropriate place consent with local farmers. To planning for rain harvesting at areable & non areable lands.

#### **Main activities for water harvesting are as follows :-**

- Areable Land bunding with West weir farm ponds.
- Non areable land drugout ponds gabion structure.
- Drainage line Nalla bunding anicuts.

## 1.7 Project Objectives:-

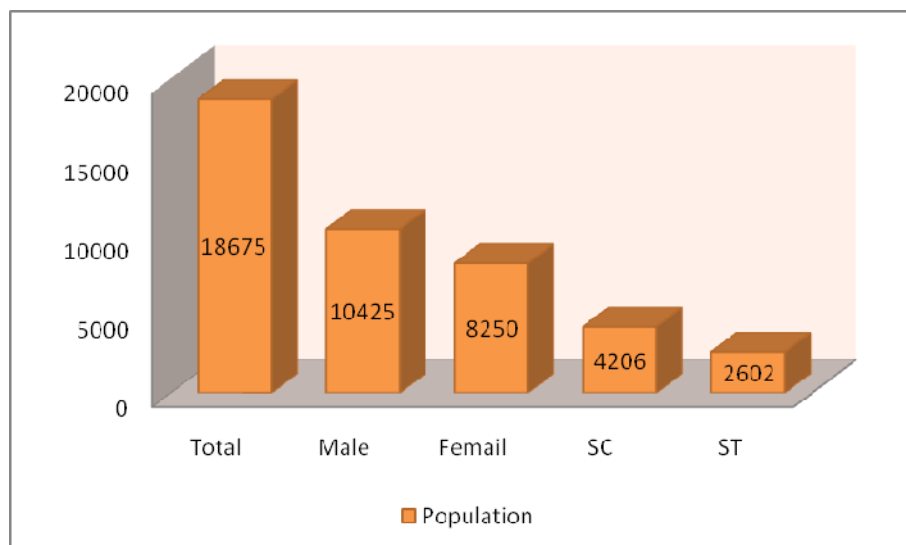
The objectives of the watershed development project will be :

- Conservation, development and sustainable management of natural resources including their use.
- Enhancement of agriculture productivity and production in sustainable manner.
- Restoration of ecological balance in the degraded and fragile rained eco-system by greening these areas through appropriate mix of trees and shrubs and grasses.
- Reduction in regional disparity between irrigated and rainfed areas.
- Creation of sustained employment opportunities for the rural community including the landless.

Table 2.1 Population & Household Details:

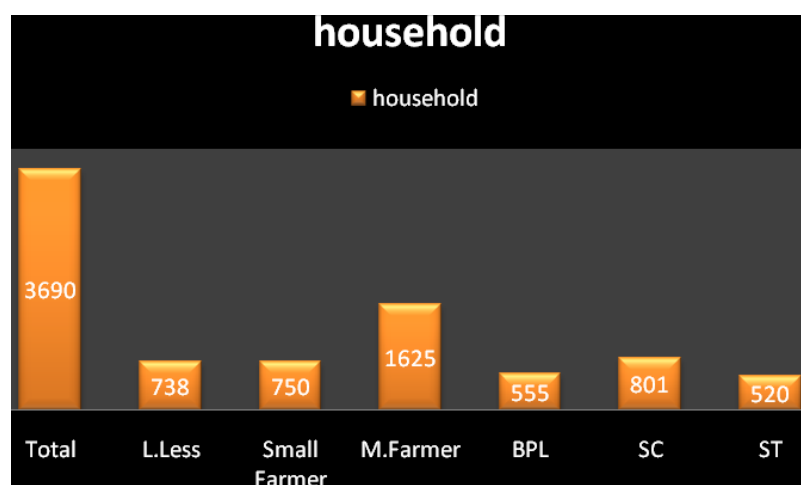
Total Population				
Male	Female	Total	SC	ST
10425	8250	18675	4206	2602

Diagram -Population Details



Household Details						
BPL household	L. Less	Small Farmer	M. Farmer	Total household	SC household	ST household
555	738	750	1625	3690	801	520

**Diagram -Household Details**



**Table 2.2 Development indicators**

S. No.	Development Indicators	State	Project Area
1	Per capita income (Rs.)	16260	8025
2	Poverty ratio	0.22	0.25
3	Literacy (%)	0.604	0.540
4	Sex Ratio	921	790
5	infant mortality rate		
6	maternal mortality ratio		

The table indicates poor socio economic conditions.

**Table 2.3 Land Use**

Land Use	Total area in Ha.				
	Private	Panchayat	Government	Community	Total
AgricultureLand	4572	--	-	-	4572
Temporary	100	-	-	-	100

fallow					
Permanent Fallow	210	-	-	-	210
Cultivated Rainfed	2274	-	-	-	2274
Cultivated irrigated	2198	-	-	-	2198
Net Sown Area	4472	-	-	-	4472
Net Area sown more than once	206	-	-	-	206
ForestLand		-	159		159
WasteLand	409	-	-	-	409
		-	-	50	50
Others		-	97	-	97
Total	5497	-	256	50	

The project area has 409 ha of cultivable wasteland. 210 ha of fallow land (total 310 ha) can be brought under cultivation if some irrigation source can be provided through Construction of WHS like Khadin, Tanka, Farm ponds etc. and also through demonstration of rainfed varieties of crops. Construction of WHS can also increase in area under irrigation which is only 40 %

2198 ha. (40 % of the project area) is under wastelands and can be brought under vegetative cover, with reasonable effort. Activities like Earthen check dams, Vegetative filter strip, V-ditches, staggered trenches, WHS (Johad) Afforestation of wastelands and Pasture development will be taken up on these lands

**Pasture development** the land use table shows that there is 570 hectare pasture land (3 %) This emphasizes the need for taking up pastureland development works through sowing of promising species of grasses and plantation

**Table 2.4 .a Agriculture and Horticulture status and fuel availability.**

1 S.No.	2 Season	3 Crop Sown	4			5			6	
			Rain fed			Irrigated			Total	
			Area (ha)	Production (Ton)	Productivity (kg/ha)	Area (ha)	Production (Ton)	Productivity (kg/ha)	Area (ha)	Production (Ton)
1	Kharif								650	1135
		Bajara	650	1135	73.77				2000	323
		Jwar	2000	323	64.6				600	70
		Gwar	600	70	4.20				600	70
		Other	30	18	600				30	18
2	Rabi									
		Wheat				419	1047.5	2500	419	1047.5
		Mustered				3466	24955	720	3466	24955
		Gram				42	29.4	700	42	29.4
3	Zaid	other				6	16.8	2800	6	16.8
		Banjul				14	140	10000	14	140
		Potato				15	150	10000	15	150
		Tomato				16	240	15000	16	240
	Total		3280	1546	742.57	3978	26578.7	41720	7858	28194.7

<b>Table 2.4.b Abstract of cropped Area(ha)</b>	
Area under Single crop	806
Area under Double crop	425
Area under Multiple crop	175

The farmers are using 86M32,kavari super boss---varieties of Bajra, whereas varieties like – payneir 86M86and 86M32-can increase the production.

#### **Crop Rotation:-**

Bajra	-	Wheat
Fallow	-	Mustered
Bajra	-	Gram
Moong	-	Gram
Bajra/Jwar	-	Wheat/Barly
Bajra/Jwar	-	Fallow

The table **2.4.b** shows that only 425ha is (4.2%) is double cropped area. Also the crop rotation shows that fallow lands are there. This indicates that there is scope for change in crop rotation in fields where there are fallow lands through Soil and Water conservation measures, crop demonstration and diversification in agriculture.

Soil and Water conservation measures besides putting fallow lands under cultivation can change the area under single cropping to double and multiple cropping.

#### **Table 2.4.c Productivity Gap Analysis (The table can also be given in bar chart form)**

<b>Name of the crop</b>	<b>Productivity kg/ha</b>				
	<b>India</b>	<b>Highest Average in Rajasthan</b>	<b>Highest Average of Agro climatic zone</b>	<b>District</b>	<b>Project Area</b>
Wheat	2619	2762		3422	2500
Musterd	1095	1185		1262	720
Gram	845	863		790	700
<i>Bajra</i>	<i>886</i>	<i>701</i>		<i>636</i>	<i>650</i>
<i>Total pulses</i>	<i>612</i>	<i>462</i>		<i>4811</i>	<i>350</i>

Analysis of the above table indicate that besides national gap there is wide gap in productivity within state and even within same agro climatic zones.

The reasons for this variation are

The farmers are using varieties Ganga kaveri, payoneer 86m32,86mof **Bajra**,Lok-1,Raj1482,3765 **Wheat**,in **Musterd** mostly use local varieties some farmeras use payoneer 19 & 21 in Gram varieties use mostly use local varieties whereas the recommended varieties like – **Bajra**:-payoneer 86m32, Guruand 86M86---**Wheat**:-Raj 3765,Raj 343 Lok-1----**Musterd**:-payoneer 19 & 21Bio 902.

- Lack of Availability of good quality seeds of desired crop and variety in adequate quantities and time to the farmers.
- Availability of water for cultivation(40% is irrigated table)

The productivity gap and reasons of it indicate potential to increase the productivity through crop demonstration .Crop demonstrations would be carried out on improved crops/ varieties, improved agronomic practices. INM, IPM, Mixed cropping, distribution of fodder seed mini kit. Demonstration of improved methods and economics of fodder crops cultivation and also distribution foundation seeds of Forage Crops for further multiplication, introduction of fodder crops in the existing crop rotations.

Table 2.5 Existing area under horticulture/Vegetables/Floriculture (ha)					
Activity	Area	Species	Varieties	Recommended varieties	Production
Horticulture	139	Citrus	Kagaji Aam	Kagaji Aam	
		Mango	Dashahari,	Kesar ,Bombe Green,Dashahari,Chosa	
		Papaya	Barbani	Pusa Nahna,Co- ,Surya,Barbani Red,Taivan	
		Guava	Ilahabadi Safeda	Ilahabadi Safeda,Lakhanau-42,L-49	
Vegetables	45	Tomato	Push Ruvee	Push Ruvee,Push Arly, Dwarf Arka, Glowal,	100 Qu.
		Brinjal	Pusa Kranti	Pusa Kranti,Pant Samrat,Ajad Kranti,Pusa Parpallong,Pusa Parpalcalsater	
		Pea	Arkil, Jawahar1	Arkil, Hara Bona,G.C195, Bonbila, P88	30Qu.



Floriculture	-	-	-	-	-
Medicinal Plants	-	-	-	-	-

**Table 2.6 Land holding Pattern in project area**

Type of Farmer	Total Households	Land holding (ha) irrigation source wise			Land holding (ha) Social group wise				
		Irrigated (source)	Rainfed	Total	General	SC	ST	OBC	BPL
(i) Large farmer	450	4800	5039	9839	255.69	44.04	104.84	281.76	-
(ii) Small farmer	750	2000	2040	4040	69.32	59.45	132.67	511.44	-
(iii) Marginal farmer	1625	2033	2200	4233	63.69	69.75	34.26	360.52	-
(iv) Landless person	738	-	-	-	140	374	44	180	738
(V) No. of BPL households	555	-	-	-	221	150	34	200	555
<b>Total</b>	2930	8833	9279	18112	255.69	697.24	349.79	1533.72	1293

81% land holdings belong to small and marginal farmers who own 5.67% of total cultivated area. Horticulture/vegetables could be more economical to Small and marginal farmers with irrigation source. For large farmers with no irrigation facility Horticulture/vegetables will be promoted in a part of land with farm pond/Tanka construction.

The following activities will be more beneficial for small land holdings and for diversification and income for large farmers

**Horticulture plantation, Crops, floriculture:** As discussed earlier . Horticulture/vegetables could be more economical to Small and marginal farmers with irrigation source. Also the project area has good potential for medicinal & aromatic crops like Sonamukhi, Isabgol, Ashwagandha, Khus, Mehandi , Tulsee & Shofe etc.

**Agro forestry plantation:** To increase the income of farmers and also for shelter belt plantation as wind velocity is high in the project area.

**Setting of Vermi Compost Units** - Keeping in view the side effect of residues of chemicals and fertilizers on human health the emphasis would be on cultivation of organic produce through motivating farmers and providing assistance for production of organic input, vermi compost.

**Production and distribution of quality seed** – There is need to ensure that good quality seed is available for cultivators for which adequate seed production would be initiated in watershed areas with the assistance of private sector and agriculture department technologies

**Sprinklers and pipelines** for efficient water management practices emphasis on demonstration of sprinklers with adequate financial support and convergence/private partnership.

**Establishment of Green House** - For growing off season vegetables seedlings and other horticultural crops under controlled atmospheric conditions of green house.

**Establishment of nurseries:** Most of the planting material is procured from other parts of the State/ country. The procurement of planting material from distant places causes damage to the planting material and often results in untimely supply. Hence nursery development activity in area.

**Innovative hi-tech/ export oriented activities:** innovative hi-tech/ export oriented projects like mushroom cultivation, floriculture, etc which are in negligible existence at present, can be implemented by individual farmers / private companies.

**Drip irrigation** Drip irrigation will be promoted in all horticulture plantations, vegetables, green houses and in nurseries for rational use of irrigation higher yields and quality produce.

**Table 2.7 Livestock Status - animals/milk production / average yield.**

S.No	Description of animals	Population in No.	Yield(milk/mutton/ Wool)	Equ. cow units	Dry matter requirement per year (7Kg per animal.)	Total requirement in M.T.
1	Cows					
	Indigenous	373	663		2611	
	Hybrid	124	220		868	
2	Buffaloes	2648	685		18536	
3	Goat	1200	300	population /2	8400	
4	Sheep	1448	385	population /2	10136	
5	Camel	35			245	
6	Poultry	-		NA		
7	Piggery	-		NA		
	Total	6326	3136		44282	

In spite of the large number of livestock, production is less hence increase in productivity across all species, is a major challenge. To reduce production of unproductive cattle and improve the productivity by improving the breeds by breeding management following activities will be taken up

- Castration
- Artificial insemination
- Distribution of superior Breeding bulls for use in Cattle and Buffalo
- Breeding distribution crossbred rams

Besides breedimprovement other animal husbandry practices like better health,hygiene and feeding practices can increase productivity of livestock. Hence Activities like Animal health camps ,Urea-Molasses treatment demonstration ,demonstration of improved methods of conservation and utilization of Forage crops are proposed.

**Table 2.8 Existing area under fodder (ha)**

S.No	Item	Unit	Area/Quantity
1	Existing Cultivable area under Fodder	Ha40	
2	Production of Green fodder	Tonns/year	77.40
3	Production of Dry fodder	Tonns/ Year	2047
4	Area under Pastures	Ha	-
5	Production of fodder	Tonns/year	2124.40
6	Existing area under Fuel wood	Ha	-
7	Supplementary feed	Kgs/ day	1500
8	Silage Pits	No	-
9	Availability of fodder	quintals	2124.40
10	Deficiency/excess of fodder	quintals	44282-2124=42158 requirement

The table above shows there is fodderdeficiency (Requirement is 42158-and availability 2124-) To minimize the large and expanding gap between feed and fodder resource availability and demand there is need for

- Increase in area under fodder crops
- Increase in productivity of fodder crops
- Development of pastures
- And reduction in large number of livestock production through replacement by few but productive animals

**Table 2.9 Agriculture implements**

1	2	3
S. No	Implements	Nos.
1	Tractor	84
2	Sprayers-manual/ power	10
3	Cultivators/Harrows	84
4	Seed drill	70
5	Any Other	10

**Farm mechanization and seed banks:**As discussed earlier 81% land holdings belong to small and marginal farmers who own only 45.67% of total cultivated area so owning of big farm implements by individual farmers is not economical so SHG would be promoted to buy farm implements and rent to farmer.

**Table 2.10 NREGA Status - No. of Card Holder,activities taken so far,employment status.**

Sr. no.	Name of village	Total No .of job cards	Employment Status	Activity taken up so far
1	Kharra	514	NA	NA
2	Godhra	802	NA	NA
3	Raypur	558	NA	NA
4	Karavalee	863	NA	NA
5	Govindpura	-	NA	NA
6	Ballbhagar	1049	NA	NA
7	Targavan	551	NA	NA
8	Majajpur		NA	NA
9	Shahjadpura	213	NA	NA
10	Khedli Brahaman	-	NA	NA
11	Gadhe Brahaman	714	NA	NA
12	Mainapura	1255	NA	NA
13	Gogara	1119	NA	NA
14	Sandhle	1057	NA	NA

15	Dayapur	-	NA	NA
16	Nyaganv	607	NA	NA

### 2.10.1 Development Indicators :-

- Stop surface runoff flowing out side from watershed area.
- Develop pasture land for villagers to full fill there need of fuel, fodder & stop migration.
- Increase productivity per Ha.
- Stables livelihood supporting activities to support land less labors.
- Divert cropping patterns form traditional system to horticulture and modern agriculture practices.
- Improve water use efficiency by drip & sprinkler irrigation
- Provide potable water for drinking purpose.
- Rise in water table at down stream side to the harvesting structure.

**Table 2.11 Migration Details**

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)
Kharra	30	90	Due to unemployed	250 to 500	Majduree &contractor	675000
Godhra	60	100	Due to unemployed	250 to 500	Majduree &contractor	1500000
Raypur	50	90	Due to unemployed	250 to 500	Majduree &contractor	1125000
Karavalee	30	180	Due to unemployed	250 to 500	Majduree &contractor	1350000
Govindpura	30	90	Due to unemployed	250 to 500	Majduree &contractor	675000
Ballbhagar	40	100	Due to unemployed	250 to 500	Majduree &contractor	1000000
Targavan	40	90	Due to unemployed	250 to 500	Majduree &contractor	900000
Majajpur	25	100	Due to unemployed	250 to 500	Majduree &contractor	625000
Shahjadpura	24	90	Due to unemployed	250 to 500	Majduree &contractor	540000
Khedli Brahaman	8	180	Due to unemployed	250 to 500	Majduree &contractor	360000
Gadhe Brahaman	11	90	Due to unemployed	250 to 500	Majduree &contractor	247500
Mainapura	75	100	Due to unemployed	250 to 500	Majduree &contractor	1875000
Gogara	34	60	Due to unemployed	250 to 500	Majduree &contractor	510000

Sandhle	40	80	Due to unemployed	250 to 500	Majduree & contactor	800000
Dayapur	23	90	Due to unemployed	250 to 500	Majduree & contactor	517500
Nyaganv	25	110	Due to unemployed	250 to 500	Majduree & contactor	687500

The migration can be check by creation of employment opportunities, enhancing farm level economy, increases the income of the people engaged in animal husbandry by dairy, poultry and marketing and value addition. (As discussed earlier) and diversification in livelihoods .

The existing livelihoods Village are given below

<b>Table 2.12 (a) Major activities (On Farm)</b>		
Name of activity	No of House holds	Average annual income from the
Cultivators	3890	8025/capita
Dairying	2850	2400/ capita
Poultry	-	-
Piggery	-	-
Landless Agri. Labourers	738	1800/capita

Name of activity	Households/individuals	Average annual income from the
Artisans	-	
Carpenter	30	10000/capita
Blacksmith	5	10000/capita
Leather Craft	-	-
Porter	25	9000/capita
Mason	-	
Others specify (Cycle Repair ,STD,Craft etc)	28	11000/capita

The efforts for increase in income through off farm activities will be made under livelihood component through assistance to SHG or individuals

**Table 2.13( a ) Status of Existing SHG**

S.No	village	Name of SHG	Memb ers	Activity involved	Monthly income	Fund available	Assistance available	Source of assistance	Training received
1	Kharra	Laxmi	10	Agri	-	-	-	-	-
2	Godhra	Chatana payal	10	Dairyin g	-	-	-	-	-
3	Raypur	Jgrati	10	Agri	-	-	-	-	-
4	Karavalee	Dinkar Surbhi	10	Agri	-	-	-	-	-
5	Govindpura	Bhabna	10	Agri	-	-	-	-	-
6	Ballbhagar	Pooja Lajja Mamta Arti Payal	10	Agri	-	-	-	-	-
7	Targavan	Anjali Rekha chhavee	10	Agri	-	-	-	-	-
8	Majajpur	Pooja	10	Dairyin g	-	-	-	-	-
9	Shahjadpura	Aradhan a Disha	10	Agri	-	-	-	-	-
10	Khedli Brahaman	Pawan Akash	10	Dairyin g	-	-	-	-	-
11	Gadhe Brahaman	-	10	Agri	-	-	-	-	-
12	Mainapura	Poonam	10	Agri	-	-	-	-	-



		Anupam Laxmi							
13	Gogara	Arti Ganesh Pratiksha Nisha Akash	10	Dairyin g	-	-	-	-	-
14	Sandhle	Asha Amby Chanda Shvtree baifooly	10	Agri	-	-	-	-	-
15	Dayapur	Amit	10	Agri	-	-	-	-	-
16	Nyaganv	Anupam Prabhata Mamta dipesh	10	Agri	-	-	-	-	-

The table indicates existence of number of groups in the area also these need to be strengthened through trainings and financial assistance

## II. Technical Features

**Table 2.14 Ground Water**

S.No	Source	No.	Functional depth	Dry	Area irrigated	Water availability(days)
i)	Dug wells	215	75	215	-	
ii)	Shallow tube wells	188	80	108	-	-
iii)	Pumping sets	25	200	20	10	180
iv)	Deep Tube Wells	208	350	200	2000	250
	Total	636		543	2010	430

**Table 2.15 Availability of drinking water**

S.No	Name Of The Village	Drinking water requirement Ltrs/day	Present availability of drinking water Ltrs/day	No. of drinking water sources available	No. functional	No. requires repairs	No. defunct
1	Kharra	6400	4500	5	3	2	2
2	Godhra	23400	19000	6	4	2	2
3	Raypur	19800	15000	5	3	2	2
4	Karavalee	6400	4000	5	3	2	2

5	Govindpura	12600	10500	4	2	2	2
6	Ballbhagar	43200	35000	6	3	3	3
7	Targavan	24300	20000	6	3	3	3
8	Majajpur	19800	16000	5	3	2	2
9	Shahjadpura	10800	8000	6	3	3	3
10	Khedlibrahman	6300	5000	3	2	1	1
11	Gadhe Brahaman	9000	7500	3	2	1	1
12	Mainapura	64800	50000	8	5	3	3
13	Gogara	24300	20000	6	3	3	3
14	Sandhle	23400	19000	5	3	2	2
15	Dayapur	9900	75000	4	2	2	2
16	Nyaganv	24300	19000	4	2	2	2

**Table 2.16 Water Use efficiency**

Name of major crop	Area (Hectare)			
	through water saving devices(Drip/Sprinklers)	through water conserving agronomic practices <sup>#</sup>	Any other (pl. specify)	Total
Bjara	500	500	-	1000
Wheat	1200	800	-	2000
Musterd	3000	1000	-	4000
Gram	15	10	-	25

- The tables above indicate need for judicious use of available Water.
- Encouraging optimum use of water through installation of sprinklers on every operational wells

**Table 2.17 Slope details.**

Slope of Watershed		
S.No.	Slope percentage	Area in hectares
1	0 to 3%	4077
2	3 to 8%	1320
3	8 to 25%	-
4	> 25%	-

As most of the area has slope less than 3% construction of contour bunds can solve the problem of water erosion in agriculture fields and protect washing of top soil and manures/fertilisers

**Table 2.18 Water Budgeting**

**Table 2.18a )Total available runoff(cum) use Stranges table**

Area	Type of Catchment	Yield of runoff from catchment per ha.(cum.)use Stranges table	Total Runoff
	Total		

**Table 2.18b)Details of already stored runoff(Surface Water structures**

S.No.	Name	No.	Storage Capacity(cum)	Area irrigated (ha)
i)	Major Irrigation Project	-	-	-
ii)	Medium Irrigation Project	-	-	-
iii)	Form Ponds/Tanks	11	-	-
iv)	Anicuts	18	-	-
	Total	29		

**Table 2.18c)Balance available runoff (cum)**

Total run off	Net tapped Runoff	Balance Run off	Available for Harvesting (0.75*
1	2	3	4
<b>Total of Table 2.22a</b>	<b>Table 2.22b</b>	(2-1)	0.75*3

The water budgeting indicates potential for water harvesting in the area

**Table 2.19 Soil details**

A	Soil Profile	
S.No.	Major Soil Classes	Area in hectares
1	Sandy Loam	4000
2	Loam	1397
B	Soil Depth :	
	Depth (Cms.)	Area in hectares
1	0.00 to 7.50	4077
2	7.50 to 45.00	1320
3	> 45.00	-

C	Soil fertility Status	Kg/ha	Recommended
	N	0.35	
	P	22.38	
	K	111	
	Micronutrients	PPM	
	Zink	1.14ppm	
	Fe	0.38ppm	
	Cu	0.86ppm	
	Mn	12.7ppm	

The analysis of table shows need to improve and maintain soil fertility. Soil health card to every farmer every crop season will be provided, which will include the recommendation for Application micro nutrient and fertilizers

**Table 2.20 Erosion details**

Erosion status in project Area					
Cause	Type of erosion	Area affected (ha)	Run off(mm/ year)	Average soil loss (Tonnes/ ha/ year)	
Water erosion					
a	Sheet	1690	930	67.5	
b	Rill	2117	990	84.24	
c	Gully	1690	740	78.8	
Sub-Total		5497			
Wind erosion		Na			
<b>Total for project</b>		5497		<b>230.54</b>	

The need is:

- To check land degradation
- To reduce excessive biotic pressure by containing the number and increase of livestock
- To check cultivation on sloping lands without adequate precautions of soil and water conservation measures
- To discourage cultivation along susceptible nallah beds
- To check Faulty agriculture techniques
- To check Uncontrolled grazing and developed cattle tracks
- To check Deforestation of steep slopes
- To check erosive velocity of runoff, store Runoff, to arrest silt carried by runoff and to recharge Ground Water structures life Earthen check dams, gully plugs, Bank Stabilisation, Loose stone check Dams, Gabions, Earthen embankment (Nadi) and Anicuts would be taken up.

## CHAPTER - III

**Proposed Development Plan:** The Activities are indicative addition /deletion in activities will be as per local conditions

### A) Preparatory phase activities CapacityBuilding Trainingsand EPA

The IEC activities like Kalajathas, Group meetings, door to door campaign, slogans and wall writings etc. were carried out in all the habitations of 10 Micro Watershed. A series of meetings were conducted with GP members, community and discussed about the implementation of IWMP programme. User groups were also formed.

Grama Sabhas were conducted for approval of EPA (Village), for selecting the watershed committee and approval of DPR.

S.no	Name of the Gram Panchayat	Date on which Grama Sabha approved EPA
1	Gogara	12-03-2010
2	Mainapura	13-03-2010
3	Lakhanpur	16-03-2010
4	Ballbhar	18-03-2010
5	Ghatari	18-03-2010
6	Hathodi	19-03-2010
7	Sandhali	20-03-2010

1	4	5	6	7	8	9	10	11
S. No.	Names of village	Amount earmarked for EPA	Entry Point Activities planned	Estimated cost	Expenditure incurred	Balance	Expected outcome	Actual outcome
1	Kherra	345600	<i>Water Tank (GLR)</i>  <i>SOLAR LIGHT</i>	224000  125000	195200  121045	29355	<i>Villages are Happy &amp; Trust to Our Project Activities</i>	<i>Villages are Happy &amp; Trust to Our Project Activities</i>
2	Gothra	240000	<i>Water Tank (GLR)</i>  <i>SOLAR LIGHT</i>	209000  25000	196793  24209	18998	<i>Villages are Happy &amp; Trust to Our Project Activities</i>	<i>Villages are Happy &amp; Trust to Our Project Activities</i>
3	Raipur	177120	<i>Water Tank (GLR)</i>	156554	93970	83150	<i>Villages are Happy &amp; Trust to Our Project Activities</i>	<i>Villages are Happy &amp; Trust to Our Project Activities</i>

4	Karavali	212160	Water Tank (GLR)	211000	204300	1160	Villages are Happy & Trust to Our Project Activities	Villages are Happy & Trust to Our Project Activities
5	Govindpura	81120	Water Tank (GLR)	81000	80995	125	Villages are Happy & Trust to Our Project Activities	Villages are Happy & Trust to Our Project Activities
6	Balabhagard	384480	Water Tank (GLR) SOLAR LIGHT	328000 50000	300204 48418	35858	Villages are Happy & Trust to Our Project Activities	Villages are Happy & Trust to Our Project Activities
7	Taragava	72960	Water Tank (GLR)	72100	71905	1055	Villages are Happy & Trust to Our Project Activities	Villages are Happy & Trust to Our Project Activities
8	Majajpur	81120	SOLAR LIGHT	75000	72627	8493	Villages are Happy & Trust to Our Project Activities	Villages are Happy & Trust to Our Project Activities
9	Sahajadpura	72000	SOLAR LIGHT	75000	72627	627	Villages are Happy & Trust to Our Project Activities	Villages are Happy & Trust to Our Project Activities
10	Kedli mbrahaman	65280	SOLAR LIGHT	50000	48418	16862	Villages are Happy & Trust to Our Project Activities	Villages are Happy & Trust to Our Project Activities
11	Gadi brahaman	47520	SOLAR LIGHT	50000	48418	898	Villages are Happy & Trust to Our Project Activities	Villages are Happy & Trust to Our Project Activities
12	Mainapura	259200	Water Tank (GLR) ANIMALWATER HUT SOLAR LIGHT	105000 150000	100490 45254	13456 1	Villages are Happy & Trust to Our Project Activities	Villages are Happy & Trust to Our Project Activities
13	Gogera	153600	SOLAR LIGHT	75000	72627	13704	Villages are	Villages

			<i>Water Tank (GLR) ANIMALWATER HUT</i>	106000	67269		<i>Happy &amp; Trust to Our Project Activities</i>	<i>are Happy &amp; Trust to Our Project Activities</i>
14	Sedali	133440	<i>Water Tank (GLR)</i>	103000	99350	34090	<i>Villages are Happy &amp; Trust to Our Project Activities</i>	<i>Villages are Happy &amp; Trust to Our Project Activities</i>
15	Dayapur	92160	<i>ANIMALWATER HUT Water Tank (GLR)</i>	91537	91495	665	<i>Villages are Happy &amp; Trust to Our Project Activities</i>	<i>Villages are Happy &amp; Trust to Our Project Activities</i>
16	Naya gaon	172800	<i>Water Tank (GLR)</i>	105000	98725	74075	<i>Villages are Happy &amp; Trust to Our Project Activities</i>	<i>Villages are Happy &amp; Trust to Our Project Activities</i>
<b>Total</b>		2590560		2467191	2254339	329521		

The PRA exercise was carried out in all the villages on the dates shown below:

<b>S.no</b>	<b>Name of the village/Habitation</b>	<b>Date on which PRA conducted</b>
1	Kharra	23/03/2011&24/3/2011
2	Godhra	23/03/2011&24/3/2011
3	Raypur	23/03/2011&24/3/2011
4	Karavalee	25/3/2011&26/3/2011
5	Govindpura	25/3/2011&26/3/2011
6	Ballbhagar	26/3/2011&27/3/2011
7	Targavan	28/3/2011&29/3/2011
8	Majajpur	30/3/2011&31/3/2011
9	Shahjadpura	30/3/2011&31/3/2011
10	Khedli brahaman	30/3/2011&31/3/2011
11	gadhe brahaman	30/3/2011&31/3/2011
12	Mainapura	30/3/2011&31/3/2011
13	Gogara	30/3/2011&31/3/2011
14	Sandhle	28/3/2011&29/3/2011
15	Dayapur	28/3/2011&29/3/2011
16	Nyaganv	28/3/2011&29/3/2011

Transact walk were carried out involving the community for Social mapping, Resource mapping. Detailed discussions and deliberations with all the primary stakeholders were carried out.

Socio-economic survey was carried out during 150(dates) period covering all the households and primary data on demography, Land holdings, Employment status, Community activities etc. was collected as mentioned in chapter 2.

State remote sensing department was assigned the work of preparing various thematic layers

S.No	Name of Village	Chape Cutter	Manger	Storage tank	Agri Inst.
1	Kharra	4	16	15	6
2	Godhra	8	15	10	4
3	Raypur	11	13	10	4
4	Karavalee	13	12	13	4
5	Govindpura	13	23	30	7
6	Ballbhagar	9	18	25	5
7	Targavan	10	20	30	6
8	Majajpur	10	11	26	10
9	Shahjadpura	3	23	25	4
10	Khedli Brahaman	7	12	19	6
11	Gadhe Brahaman	10	10	15	4
12	Mainapura	13	23	30	7
13	Gogara	9	18	25	5
14	Sandhle	10	20	30	6
15	Dayapur	10	11	26	10
16	Nyaganv	13	23	30	7
17	<b>Total</b>	153	268	359	95



using Cartosat-1 and LISS-3 imageries for **Creation**, development and management of geo-spatial database depicting present conditions of land (terrain), water and vegetation with respect to watershed under different ownerships at village level

Various thematic layers provided by SRSAC are :

- Delineation of Macro/Micro watershed boundaries.
- Digitised Khasara maps of the villages falling in project area.
- Network of Drainage lines, existing water bodies, falling in the project area.
- Base maps (transport network, village/boundaries, and settlements).
- Land Use / Land cover map.
- Contours at 1 meter interval, slope map

Based on GIS thematic layers, Field visits , PRA and analysis of benchmark data (as discussed in chapter 2) final Treatment plan on revenue map for implementation has been framed. Thus each intervention identified has been marked on revenue map (map enclosed in DPR as annexure-). The GIS based intervention map, PRA based intervention map are annexed as-.

### 3.6 Agricultur Land Activity :-

#### 3.6.1 Table Farmers demanding Chapecutter / Manger /Grasskit / Agriculture Instrument

##### List of Farmers required Agricultural Instrument :-

1 Gram –Kharra

Gram Panchayat –Lakhanpur

Sr.No	Name of Farmer	Caste	Name of Instrument	Nos.
1	Prhlad	OBC	Spryer, Duster	2
2	Vivak	OBC	Spryer, Duster	2
3	Visnu	OBC	Spryer, Duster	2
4	Dhuje	OBC	Spryer, Duster	2
5	Vella devi	OBC	Spryer, Duster	2
6	Bhgbati	OBC	Spryer, Duster	2
7	Pinky	SC	Spryer, Duster	2

8	Rasham	SC	Spryer, Duster	2
9	Sugar	OBC	Spryer	1
10	Verandra	OBC	Spryer	1
11				1

**3 Gram - Raypur**

**Gram Panchayat –Lakhanpur**

Sr.No	Name of Farmer	Caste	Name of Instrument	Nos.
1	Ram Bharosi /Kade	OBC	Spryer, Duster	2
2	Nivas /Kade	OBC	Spryer, Duster	2
3	Dharm /Bhuri	OBC	Spryer, Duster	2
4	Yad Raam /Bhuri	OBC	Spryer, Duster	2
5	Hari Singh /Baansi	OBC	Spryer, Duster	2
6	Raam Khiladi /Bansi	OBC	Spryer, Duster	2
7	Maan Singh	OBC	Spryer, Duster	2
8	Karatar /	OBC	Spryer, Duster	2
9	Ramesh /	OBC	Spryer, Duster Thresher	1
10	Ghan Shyam /	OBC	Spryer, Duster Thresher	1
11				

**4Gram -  
Karavalee**

**Gram Panchayat –Hathori**

Sr.No	Name of Farmer	Caste	Name of Instrument	Nos.
1	Girraj /	OBC	Spryer, Duster	2
2	Mayavati /	OBC	Spryer, Duster	2
3	Rajendra /	OBC	Spryer	1
4	Govind /	OBC	Spryer	1
5	Dya /	OBC	Spryer	1
6	Banny /	OBC	Spryer	1
7	Rajaram /	OBC	Spryer	1
8	Rajndra /	OBC	Spryer, Duster	2
9	Vijay /	OBC	Thresher	1

10				
11				

**5Gram -  
Govindpura**

**Gram Panchayat –Hathori**

<b>Sr.No</b>	<b>Name of Farmer</b>	<b>Caste</b>	<b>Name of Instrument</b>	<b>Nos.</b>
1	Ramesvar	OBC	Spryer, Duster	2
2	Yashpal	OBC	Spryer, Duster	2
3	Dalgange	OBC	Spryer, Duster	2
4	Keshla	OBC	Spryer, Duster	2
5	Mansingh	OBC	Spryer, Duster	2
6	Vishnu	OBC	Spryer, Duster	2
7	Parmasukh	OBC	Spryer, Duster	2
8	Vijan	OBC	Spryer, Duster	2
9	Seema	OBC	Spryer, Duster	2
10				
11				

**6Gram -  
Ballbhagar**

**Gram Panchayat - Ballbhagar**

<b>Sr.No</b>	<b>Name of Farmer</b>	<b>Caste</b>	<b>Name of Instrument</b>	<b>Nos.</b>
1	Badree	OBC	Spryer, Duster	2
2	Hari Singh	OBC	Spryer, Duster	2
3	Chatra Singh	OBC	Spryer, Duster	2
4	Chatra Singh	OBC	Spryer, Duster	2
5	Mahesh	OBC	Spryer, Duster	2
6	Ganeshee	OBC	Spryer, Duster	2
7	Raghuveer	OBC	Spryer, Duster	2
8	Santra	OBC	Spryer, Duster	2
9	Santa	OBC	Thresher	1
10	Thalee	OBC	Thresher	1
11				

**7Gram**  
Targavan

**Gram Panchayat –Ghatri**

<b>Sr.No</b>	<b>Name of Farmer</b>	<b>Caste</b>	<b>Name of Instrument</b>	<b>Nos.</b>
1	Range	OBC	Spryer, Duster	2
2	Sarnam	OBC	Spryer, Duster	2
3	Uadal	OBC	Spryer, Duster	2
4	Ramlal	OBC	Spryer, Duster	2
5	Yadram	OBC	Spryer, Duster	2
6	Vanam Singh	OBC	Spryer, Duster	2
7	Kashmeera	OBC	Spryer, Duster	2
8	Munee	OBC	Spryer, Duster	2
9	Dropadee	OBC	Thresher	1
10				
11				

**12Gram -**  
Mainapura

**Gram Panchayat - Mainapura**

<b>Sr.No</b>	<b>Name of Farmer</b>	<b>Caste</b>	<b>Name of Instrument</b>	<b>Nos.</b>
1	Vijay singh	ST	Spryer, Duster	2
2	Manoj Sharma	ST	Spryer, Duster	2
3	Sirmohar	ST	Spryer, Duster	2
4	Shanty	ST	Spryer, Duster	2
5	Dakeli	ST	Spryer, Duster	2
6	Hariman	ST	Spryer, Duster	2
7	Jallo	ST	Spryer, Duster	2
8	Nihal singh	ST	Spryer, Duster	2
9	Bothan singh	ST	Thresher	1

**13Gram -**  
Gogara

**Gram Panchayat - Gogara**

<b>Sr.No</b>	<b>Name of Farmer</b>	<b>Caste</b>	<b>Name of Instrument</b>	<b>Nos.</b>
1	Veerindra Singh	Genral	Spryer, Duster	2

2	Bhauro Singh	Genral	Spryer, Duster	2
3	Banau Singh	Genral	Spryer, Duster	2
4	Anar Singh	Genral	Spryer, Duster	2
5	Man Singh	Genral	Spryer, Duster	2
6	Shyam	Genral	Spryer, Duster	2
7	Rani	Genral	Spryer, Duster	2
8	Pappu	Genral	Spryer, Duster	2
9	Prakash	Genral	Thresher	1
10	Shakuntla	Genral	Thresher	1
11				1

**14Gram -**  
Sandhle

**Gram Panchayat - Sandhle**

<b>Sr.No</b>	<b>Name of Farmer</b>	<b>Caste</b>	<b>Name of Instrument</b>	<b>Nos.</b>
1	Saroj/Pappu	OBC	Spryer, Duster	2
2	Shiv ram/Ramshavroop Sharma	OBC	Spryer, Duster	2
3	Mdan/lah	OBC	Spryer, Duster	2
4	Chirmoli/Ram singh	OBC	Spryer, Duster	2
5	Mooti/Ltur	OBC	Spryer, Duster	2
6	Geeta//Chanda singh	OBC	Spryer, Duster	2
7	Bhure/Jagan	OBC	Spryer, Duster	2
8	Lajja/Ramratn	OBC	Spryer, Duster	2
9	Siya Ram/ShriGurjar	OBC	Thresher	1
10				
11				

## List of Farmers for Breed Development

### Breed Development

	<b>Buffalo Bull</b>	<b>Bull (PAADA)</b>	<b>Goat</b>
<b>1</b>	<b>Gram-Targva</b>		
	Devendra /sundar shing	<b>PAADA</b>	
	Maharaj shing /bhagvat shing	<b>PAADA</b>	
<b>2</b>	<b>Gram-Ballvghar</b>		
	Ganeshee/madan	<b>PAADA</b>	
	Gyaseeya /prabhu	<b>PAADA</b>	
<b>3</b>	<b>Gram –Sandli</b>		
	Hansram /shivlal	<b>PAADA</b>	
	Pooran shing /juhan shing	<b>PAADA</b>	
<b>4</b>	<b>Gram –Lakhnpur</b>		
	Babulal /naval shing	<b>PAADA</b>	
	Ninnu /gujarmal	<b>PAADA</b>	
<b>5</b>	<b>Gram –Hathori</b>		
	Munshi /sirmauhar	<b>PAADA</b>	
	Ghanshyam /heeralal	<b>PAADA</b>	
<b>6</b>	<b>Gram –Mainapura</b>		
	Babulal /ramkishan	<b>PAADA</b>	
	Lakhan shing /kajaudi ram	<b>PAADA</b>	
<b>7</b>	<b>Gram –Gogara</b>		
	Hari /sona bijendra /ramdev	<b>PAADA</b>	

### Proposed Development Plan

(A)	Preparatory phase activities capacity building trainings & EPA																	
Activity	Unit	Unit Cost	GP1& GP2					TOTAL					Total					
			Quantity	Total Cost	Cost from Project Fund	Convergence Fund	Beneficiary Contribution	Quantity	Total Cost	Cost from Project Fund	Convergence Fund	Beneficiary Contribution	Quantity	Total Cost	Cost from Project Fund	Convergence Fund	Beneficiary Contribution	
Admn.					10%			65.96	65.96									
Monitoring					1%			6.60	6.60									
Evaluation					1%			6.60	6.60									
EPA						4%		26.39	26.39		0					0		
I & CB						5%		32.98	32.98									
DPR	1%							6.59	6.59									
<b>Total (A)</b>								<b>145.20</b>	<b>145.20</b>									
(B)	Natural resource management (60%)																	
<b>Conservation measures for arable land(private land)</b>							5-10% towards WDF			/		5-10% towards WDF				5-10% towards WDF		
Earthen Bund								29.70	29.70									
Tanka								-										
Khet talai								-										
Bank Stabilisation/ Peripheral Bunds								84.00	84.00	53	13.97							
<b>Conservation measures for non arable land</b>																		
Pasture Development							0	-		0						0		
V - ditch							0	-		0						0		
Water Harvesting Structure							0	178.32	178.32	108						0		
Afforestation								-										

<b>Drainage line treatment</b>							0				0					0	
MMS							0		-		0					0	
LSCD							0		-		0					0	
WHS/Anicut									103.74	103.74	112						
Gully Plugs(ECD)									-								
Ground water recharge Structure									-								
<b>Total (B)</b>									395.76	395.76	273	13.97					
<b>(C)</b>	<b>Production System and micro enterprise(15%)</b>																
<b>Production measures for arable land</b>																	
Horticulture plantation									35.0	35.0		8.75					
Sprinklers and Drip irrigation									6.25	6.25		1.56					
Floriculture									0.50	0.50		0.12					
Vegetables									2.00	2.00		0.50					
LandReca.									7.25	7.25		1.25					
Vermi compost							20-40% towards project cost		6.50	6.50	20-40% towards project cost	1.62				20-40% towards project cost	
Crop Demonstration									22.50	22.50		5.62					
<b>Micro Enterprise</b>																	
Dairy																	
v. camp									5.60	5.60							
Breed imp.									0.80	0.80							
SHG									12.50	12.50							
<b>Total (C)</b>									98.90	98.90		19.42					
<b>(D)</b>																	
<b>Consolidation</b>									19.86	19.86							19.79
<b>Grand Total</b>									659.64	659.64		33.39					



**CHAPTER - I V**

**Activity wise Total Abstract of cost**

**A- NRM**

Activity	Unit	Quantity	Unit cost	Total cost	Cost from Project Fund	Convergence Fund	Beneficiary Contribution *
CVH	Ha.	600	.14	84.00	84.00		5.88
EARTHENBUND	15m	30	.27	8.10	8.10		0.56
	20m	60	.36	21.60	21.60		1.51
	25m	53	.39	20.67	20.67		1.44
	30m	44	.77	33.88	33.88	53	2.54
	35m	27	1.01	27.27	27.27		2.04
				.			
WHS/Anicut	WHS40M	15	1.83	27.45	27.45		
	WHS70M	22	1.31	28.82	28.82	108	
	WHS60M	27	1.49	40.23	40.23		
ANICUT	20m	13 Nos	7.98	103.74	103.74	112	
PASTURE DEV.	Ha	-	-	-		-	NIL
FARM POND	No	-	-	-		-	NIL
TOTAL				395.76	395.76	273	13.97

## B Production System and micro enterprise(15%)

Activity	Unit	Quantity	Unit cost	Total cost	Cost from Project Fund	Convergence Fund	Beneficiary Contribution*
Horticulture	0.5Ha.	70	0.50	35.00	35.00	-	8.75
Vermi compost	No	25	0.26	6.5	6.50	-	1.62
Crop Demonstration	0.25Ha.	1500	0.15	22.50	22.50	-	5.62
Spinklers and Drip irrigation	No	25	0.25	6.25	6.25	-	1.56
Floriculture	0.25Ha	20	0.025	0.50	0.50	-	0.12
Vage Kit	No	400	0.005	2.0	2.00	-	0,5
Land Reclamation	Ha	500	0.01	5.00	5.00	-	1.25
Dairy						-	-
Veterinary Camp	No	70	0.08	5.60	5.60	-	-
Breed imprivment	no	8	0.10	0.80	0.80		-
Fodder dev.	0.25Ha.	300	0.075	2.25	2.25		-
H.H.Act/Revolving Fund to SHG Etc	No	50	0.25	12.50	12.50		-
<b>Total</b>				<b>98.90</b>	<b>98.90</b>		<b>19.42</b>

\*Tentative and will vary during execution according to beneficiary

**Promotion of organic manure (Vermi Compost) IWMP-II Lkhanpur-I:-**

**Gram - Gram –Gogara  
Gram Panchayat Gogara**

S. No.	Name of Cultivator	Fathers Name	Caste	Size 20x3x1	Cost		
					Total Cost	Subsidy from agri Dept.	Subsidy from WS
1	Man Singh\	Mula Singh	Rajput				
2	Prakash/	Bhagvat	Rajput				
3	Dalveer	/ Mula Singh	Rajput				
4	Rajendra/	Valjee Singh	Rajput				
5	Bain Singh/	Sugreev	Rajput				
6	Karan Singh /	Ram Singh	Rajput				
7	Rajendra/	Ramsvrup	Rajput				
8	Pappu/	Ramsvrup	Rajput				

**Gram –Ballbhghar  
Gram Panchayat– Ballbhghar**

S. No.	Name of Cultivator	Fathers Name	Caste	Size 20x3x1	Cost		
					Total Cost	Subsidy from agri Dept.	Subsidy from WS
1	Ganeshi /	Madan	Sani				
2	Prem Singh /	Madan	Sani				
3	Jal Singh /	Nagina	Sani				

4	Rameswer /	Gujaramal	Sani				
5	Ramdayal /	Mohar Singh	Sani				
6	Ramkhiladi /	Mohar Singh	Sani				
7	Pooran /	Genda	Sani				
8	Yadram /	Ramswrup	Sani				

**Gram –Govindpura  
&karavali**

*Gram Panchayat Hathori*

S. No.	Name of Cultivator	Fathers Name	Caste	Size 20x3x1	Cost		
					Total Cost	Subsidy from agri Dept.	Subsidy from WS
1	Dal Gangi /	Sirmor	Gurjar				
2	Mansingh /	Devan Singh	Gurjar				
3	Vijaysingh /	Ramprasad	Gurjar				
4	Hansram /	Sirmor	Gurjar				
5	Sumitra /	Heera Lal	Gurjar				
6	Jagdish /	Heera Lal	Sharma				
7	Madan /	Ramroop Sharma	Sharma				
8	Vijay /	Jivan Singh	Sharma				

**Gram –Raypur**

Gram Panchayat Lakhanpu

S. No.	Name of Cultivator	Fathers Name	Caste	Size 20x3x1	Cost		
					Total Cost	Subsidy from agri Dept.	Subsidy from WS
1	Ram Bharosi /Kade	Kade	Gurjar				
2	Nivas /Kade	Kade	Gurjar				
3	Dharm /Bhuri	Bhuri	Gurjar				
4	Yad Raam /Bhuri	Bhuri	Gurjar				
5	Hari Singh /Baansi	Baansi	Gurjar				
6	Raam Khiladi /Bansi	Bansi	Gurjar				
7	Maan Singh		Gurjar				
8	Karatar /	Jaysiram	Gurjar				

**Gram –Kherra**

Gram Panchayat Lkanpur

S. No.	Name of Cultivator	Fathers Name	Caste	Size 20x3x1	Cost		
					Total Cost	Subsidy from agri Dept.	Subsidy from WS
1	Harbhan /	Pday	Gurjar				
2	Ratan /	Kamal	Gurjar				
3	Pyare Singh /	Gokula	Gurjar				
4	Parsuram /	Dayali	Gurjar				
5	Hari Singh /	Vanni	Gurjar				
6	Nihal /	Raam Chand	Gurjar				
7	Maharaajaa Singh /	Raguvir	Gurjar				
8	Atar /	Vanni	Gurjar				

**Gram –Sandli**

**Gram Panchayat Sandli**

S. No.	Name of Cultivator	Fathers Name	Caste	Size 20x3x1	Cost		
					Total Cost	Subsidy from agri Dept.	Subsidy from WS
1	Saroj/	Pappu	Sani				
2	Shiv Ram/ Sharma	/Ramshavroop Sharma	Sani				
3	Mdan/	Lah	Sani				
4	Chirmoli/	/Ram Singh	Sani				
5	Mooti/Ltur	Mooti/Ltur	Sani				
6	Geeta//	Chanda Singh	Sani				
7	Bhure/	/Jagan	Sani				
8	Lajja/	/Ramratn	Sani				

**Plantation of Orchard in Watershed IWMP-II Lkhanpur-I**

**Gram –Gogara**

**Gram Panchayat Gogara**

Sr. No	Name Of Cultivator	Father Name	Type Of Plant	Area (Ha)	Drip	Total Cost	
						Subsidy From Agri Dept.	Subsidy From Ws
1	Man Singh\	Mula Singh	Citrus	0.3	Drip		
	Prakash/	Bhagvat	Citrus	0.3	Drip		
3	Dalveer	/ Mula Singh	Citrus	0.3			

4	Rajendra/	Valjee Singh	Citrus	0.3	
5	Bain Singh/	Sugreev	Citrus	0.3	
6	Karan Singh /	Ram Singh	Citrus	0.3	
7	Rajendra/	Ramsvrup	Citrus	0.3	
8	Pappu/	Ramsvrup	Citrus	0.3	
9	Saroj/	Surajmal	Citrus	0.3	
10	Logshri	/ Mul Singh	Citrus	0.3	
11	Dham /R Singh	Shanka	Citrus	0.3	
12			Citrus	0.3	

### Gram –Ballbhghar

#### Gram Panchayat– Ballbhghar

Sr. No	Name Of Cultivator	Father Name	Type Of Plant	Area (Ha)	Drip
1	Ganeshi /	Madan	Citrus	0.3	Drip
2	Prem Singh /	Madan	Citrus	0.3	Drip
3	Jal Singh /	Nagina	Citrus	0.3	
4	Rameswer /	Gujaramal	Citrus	0.3	
5	Ramdayal /	Mohar Singh	Citrus	0.3	
6	Ramkhiladi /	Mohar Singh	Citrus	0.3	
7	Pooran /	Genda	Citrus	0.3	
8	Yadram /	Ramswrup	Citrus	0.3	
9	Lajjaram /	Ramkishan	Citrus	0.3	
10	Devhans /	Gujarmal	Citrus	0.3	
11	Nihal /	Gujarmal	Citrus	0.3	
12	Bhavar Singh /	Rampal	Citrus	0.3	

13	Ramesh /	Dharev	Citrus	0.3	
14	Cajori /	Vasanvaa	Citrus	0.3	
15	Natthy	/Mul Chand	Citrus	0.3	
16	Vadas /	Vala	Citrus	0.3	
17	Bhahari Lal /	Manfool	Citrus	0.3	
18	Gangadhar /	Mooli	Citrus	0.3	
19	Ramdhan /	Sonpal	Citrus	0.3	
20	Moti /	Sonpal	Citrus	0.3	
21	Nandu /	Rampal	Citrus	0.3	
22	Madan /	Deera	Citrus	0.3	
23	Gyasa /	Pooja	Citrus	0.3	
24	Rambharoshi /	Nagina	Citrus	0.3	
25	Sookha /	Bhodu	Citrus	0.3	
26	Majji /	Muggad	Citrus	0.3	

**Gram –Govindpura  
&karavali**

**Gram Panchayat Hathori**

Sr. No	Name Of Cultivator	Father Name	Type Of Plant	Area (Ha)	Drip
1	Dal Gangi /	Sirmor	Citrus	0.3	Drip
2	Mansingh /	Devan Singh	Citrus	0.3	Drip
3	Vijaysingh /	Ramprasad	Citrus	0.3	
4	Hansram /	Sirmor	Citrus	0.3	
5	Sumitra /	Heera Lal	Citrus	0.3	
6	Jagdish /	Heera Lal	Citrus	0.3	
7	Madan /	Ramroop Sharma	Citrus	0.3	
8	Vijay /	Jivan Singh	Citrus	0.3	
9	Rajndra /	Duarika Sharma	Citrus	0.3	



10	Girraj /	Lohare Sharama	Citrus	0.3	
11	Mayavati /	Ramswarup	Citrus	0.3	
12	Rajendra /	Jivan	Citrus	0.3	
13	Govind /	Jivan	Citrus	0.3	
14	Dya /	Nihal Singh	Citrus	0.3	
15	Banny /	Umed	Citrus	0.3	
16	Rajaram /	Sirmor	Citrus	0.3	
17			Citrus	0.3	
18	Pooran /	Moti Lal	Citrus	0.3	
19	Seeya /	Rattan	Citrus	0.3	
20	Mades /	Ramchand	Citrus	0.3	
21	Beekanti	/Bhadur	Citrus	0.3	
22	Roshan /	Rameswar	Citrus	0.3	
23	Kanhaeya /	Lohare	Citrus	0.3	
24	Sampati	/Pralad	Citrus	0.3	

**Gram –Raypur****Gram Panchayat Lakhnapu**

<b>Sr. No</b>	<b>Name Of Cultivator</b>	<b>Father Name</b>	<b>Type Of Plant</b>	<b>Area (Ha)</b>	<b>Drip</b>
1	Ram Bharosi /Kade	Kade	Citrus	0.3	Drip
2	Nivas /Kade	Kade	Citrus	0.3	
3	Dharm /Bhuri	Bhuri	Citrus	0.3	
4	Yad Raam /Bhuri	Bhuri	Citrus	0.3	
5	Hari Singh /Baansi	Baansi	Citrus	0.3	
6	Raam Khiladi /Bansi	Bansi	Gauva	0.3	
7	Maan Singh		Citrus	0.3	
8	Karatar /	Jaysiram	Citrus	0.3	
9	Ramesh /	Vishan	Citrus	0.3	
10	Ghan Shyam /	Navala	Citrus	0.3	
11	Bhagmal	/Tikam	Citrus	0.3	
12	Handu /	Mohan Singh	Citrus	0.3	

**Gram –Khahra**

Gram Panchayat Lkanpur

<b>Sr. No</b>	<b>Name Of Cultivator</b>	<b>Father Name</b>	<b>Type Of Plant</b>	<b>Area (Ha)</b>	<b>Drip</b>
1	Harbhan /	Pday	Citrus	0.3	Drip
2	Ratan /	Kamal	Citrus	0.3	
3	Pyare Singh /	Gokula	Citrus	0.3	
4	Parsuram /	Dayali	Citrus	0.3	
5	Hari Singh /	Vanni	Citrus	0.3	
6	Nihal /	Raam Chand	Citrus	0.3	
7	Maharaajaa Singh /	Raguvir	Citrus	0.3	
8	Atar /	Vanni	Citrus	0.3	
9					
10					

**CHAPTER – V**

**Annual Action Plan:**The project period can vary from 4 to 7 years and accordingly the table given below be prepared. Also the activities mentioned below are indicative and can vary from project to project. Also this if PIA feels necessary to make it GP Wise it can add pages.  
**Through Project Fund**

(A)	Preparatory phase activities capacity building trainings & EPA																			
Activity	Unit	Quantity	Unit Cost	Total cost	1st year		2nd year		3rd year		4th year		5th year		6th year		7th year		Total	
					Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Admn.			10.00	65.96	1.00	6.60	2.00	13.20	2.00	13.20	1.00	13.20	2.00	13.20	1.00	6.56	-	-	10	65.96
Monitoring			1.00	6.60	0.10	0.66	0.20	1.32	0.20	1.32	0.20	1.32	0.20	1.32	0.10	0.66	-	-	1	6.60
Evaluation			1.00	6.60	0.00	0.00	0.30	1.98	0.00	0.00	0.35	2.30	0.00	0.00	0.35	2.32	-	-	1	6.60
EPA			4.00	26.39	4.00	26.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	4	26.39
I & CB			5.00	32.98	1.50	9.90	1.50	9.90	0.50	3.30	1.00	6.60	0.00	0.00	0.50	3.28	-	-	5	32.98
DPR			1.00	6.59	0.50	3.30	0.50	3.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	-	1	6.59
<b>Total (A)</b>			<b>22.00</b>	<b>145.12</b>	<b>7.10</b>	<b>46.85</b>	<b>4.50</b>	<b>29.69</b>	<b>2.70</b>	<b>17.82</b>	<b>1.95</b>	<b>23.42</b>	<b>2.20</b>	<b>14.52</b>	<b>1.95</b>	<b>12.82</b>	<b>-</b>	<b>-</b>	<b>22</b>	<b>145.12</b>
<b>(B)</b>	<b>Natural resource management(60%)</b>																			
<b>Conservation measures for arable land</b>																				
CVH	Ha.	600	0.14	84					200	28.00	250	35.00	150	21					600	84.00
Earthen Bund 15m		30	0.27	8.10					10	2.70	12	3.24	8	2.16					30	8.10
20m	Nos	60	0.36	21.60					20	7.20	25	9.00	15	5.40					60	21.60
WW 3m	No																			
5m	No																			
<b>Conservation measures for non arable land</b>																				
Pasture Development																				
V – dich																				
Water Harvesting Structure-25M	NOS	53	0.39	20.67					18	7.02	25	9.75	10	3.90					53	20.67
-30M	NOS	44	0.77	33.88					12	9.24	15	11.55	17	9					44	33.88
-35M	NOS	27	1.01	27.27					8	8.08	11	11.11	8	8.08					27	27.27

Afforestation																			
<b>Drainage line treatment</b>																			
WHS I 40M	No	15	1.83	27.45				5	9.15	7	12.81	3	5.49					15	27.45
II 70m	No	22	1.31	28.82				7	9.17	8	10.48	7	9.17					22	28.82
III 60m	No	27	1.49	40.23				8	11.9	11	16.39	8	11.9					27	40.23
LSCD																			
WHS/ANICUT 20M	NO	13	7.98	103.74				4	31.92	5	39.90	4	31.92					13	103.74
Gully Plugs(ECD)																			
Ground water recharge Structure																			
<b>Total (B)</b>				<b>395.76</b>					124.38		159.23		112.15						

### C Production System And Micro Enterprise 15%

Activity	no	Unit cost	Total cost	Yearwise												6th year	
				1st year		2nd year		3rd year		4th year		5th year		Phy	Fin		
				Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin		
<b>Production measures for arable land</b>																	
1	Only Horticulture	70	0.50	35.00					30	15.00	20	10.00	10	5.0	10	5.0	
2	Vermi compost	25	0.26	6.5					10	2.6	10	2.60	5	1.30	-		
3	Crop Demostration	1500	0.015	22.50					500	7.50	500	7.50	250	3.75	250	3.75	
	Spinklers and Drip irrigation	25	0.25	6.25					10	2.50	10	2.50	5	1.25			
4	Floriculture	20	0.025	0.50					8	0.20	8	0.20	4	0.10			
5	Vage Kit	400	0.005	2.0					150	0.75	150	0.75	100	0.50			
6	Land Reclamation	500	0.01	5.00					200	2.00	200	2.00	100	1.00			
7	Dairy																
8	Veterinary Camp	70	0.08	5.60					18	1.44	18	1.44	18	1.44	16	1.28	
9	Brid imprivment	8	0.10	0.80					4	0.40	2	0.20	2	0.20			
10	Fodder dev.	300	0.0075	2.25					100	0.75	100	0.75	50	0.375	50	0.375	
11	H.H.Act/Revolving Fund to SHG Etc	50	0.25	12.50					20	5.00	15	3.75	10	2.50	5	1.25	
Total (A)				98.90					38.04			31.79		17.41		11.6	
<b>(D) Consolidation</b>			3%	19.86												3%	
<b>Grand Total</b>				659.64		46.85	29.69		180.24			214.44		144.08		44.34	
<b>% Targets</b>						NA	NA		NA		NA		NA		NA	NA	

**Annual Action Plan (Through Convergence)**

<b>(A) Preparatory phase activities capacity building trainings &amp; EPA</b>																					
Activity	Unit	Quantity	Unit Cost	Total cost	1st year		2nd year		3rd year		4th year		5th year		6th year		7th year		Total		
					Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy
Admn.																				10%	
Monitoring																				1%	
Evaluation																				1%	
EPA						4%														4%	
I & CB																				5%	
DPR						1%														1%	
<b>Total (A)</b>																					
<b>(B) Natural resource management(60%)</b>																					
<b>Conservation measures for arable land</b>																					
Earhen Bund	nos	52	1.01	53					31	33	21	20								52	53
Tanka																					
Khet talai																					
Watweir 3m / Farmpond	No No																				
<b>Conservation measures for non arable land</b>																					
Pasture Development	Ha																				
V – dich																					
sWater Harvesting Structure																					
Afforestation																					
<b>Drainage line treatment</b>																					
MMS 35M																					
ANICUT	NO	14	7.98	112					8	64	6	48								14	112
WHS 60m	No	72	1.49	108					40	60	32	58								72	108
Gully Plugs(ECD)																					

Ground water recharge Structure																						
<b>Total (B)</b>																						273
<b>(C)</b>	<b>Production System and micro enterprise(15%)</b>																					
	<b>Production measures for arable land</b>																					
Horticulture plantation																						
Sprinklers and Drip irrigation																						
Floriculture																						
Vermi compost																						
Crop Demonstration																						
	<b>Micro Enterprise</b>																					
<b>Total (C)</b>																						
<b>(D) Consolidation</b>																						
<b>Grand Total</b>																						19.79
<b>% Targets</b>							NA		NA		NA		NA		NA		NA		NA		NA	3%



**CHAPTER – VI EXPECTED OUT COMES**

1	2	3	4	5	6
S. No.	Item	Unit of measurement	Pre-project Status	Expected Post-project Status	Remarks
1	Status of water table (Depth to Ground water level)	Meters	100 to 130	80 to 100	
2	Ground water structures repaired/ rejuvenated	No.	Nil	5	
3	Quality of drinking water	Description	good	good	
4	Availability of drinking water	Description			
5	Change in irrigated Area	Ha	8833	10050	
6	Change in cropping/ land use pattern	Description			
7	Area under agricultural crop	Ha			
	I Area under single crop	Ha	1208	1500	
	li Area under double crop	Ha	950	1150	
	lii Area under multiple crop	Ha	350	600	
8	Change in cultivated Area	Ha	18112	221000	
9 yield of major crops of area	Yield of Bajra	q/ha	6.5	7.5	
	Yield of Wheat	q/ha	25.0	28.0	
	Yield of Gram	q/ha	7.0	9.0	
	Yield of Mustard	q/ha	7.2	10.0	
10 production of major crops of area	Production of Bajra	Ton	1387.7	1500.0	
	Production of Wheat	Ton	2047.5	2500.0	
	Production of Gram	Ton	29.4	32.5	
	Production of Mustard	Ton	4655.52	5500	
11	Area under vegetation	Ha	45	60	
12	Area under horticulture	Ha	139	300	
13	Area under fuel	Ha	-	100	
14	Area under Fodder	Ha	-	100	
15	Fodder production	Q	2124	40000	
16	Milk production	Litres/day		18450	
17	SHGs Active	No.	10	60	
18	No. of livelihoods	No.	150	325	

19	Income	Rs.in lac.	6578	9000	
20	Migration	No.	555	160	
21	SHG Federations formed	No.	-	1	

### **Critical Assumption**

- No severe droughts/ unexpected floods/ natural disasters
- Adequate funds are allocated for the same and released on time.
- There is no significant pest/ disease attack, and if so, then it will have been contained before irreversible damage is done.
- Adverse market conditions do not persist long.
- Sound macro-economic and growth conditions continue and the benefits are widely distributed particularly in the rural areas.
- Facilitating agencies and resource providers have the required competent staff so that timely and appropriate technical advice and services are provided to farmers whenever required.
- The Capacity Building Plan is implemented, monitored and modified to address evolving needs and feedback from participants.
- The execution of the Women's Empowerment Pedagogy is regularly monitored by the District and State level Implementing Agencies

### **Means of Verification of indicators**

- Baseline surveys like household income ,expenditure, health and nutrition etc at the beginning, mid-term and end of the project period
- Annual participatory assessment by communities during project period.
- Regular project monitoring reports prepared by project monitoring teams/ agencies.
- Membership and other Records, Minutes of Meetings maintained by the SHGs, WCs/ Individual beneficiaries/project-related village and local bodies/PRIs.
- External review missions
- Data maintained by Government department (Revenue, Agriculture, Groundwater, Irrigation, Animal Husbandry)

## **CHAPTER VIITECHNICAL DESIGNS AND ESTIMATES**

Technical designs and estimates for proposed activities.

For Estimates GKN of the districts should be used. For Production System activities, rates of Agriculture/Horticulture/Animal Husbandry should be used.

## CHAPTER - VIII Enclosures -

- h. Location –District, block, village, watershed location map
- i. Map of Lakhanpur-I IWMP Project (Watershed Boundary demarcation in cadastral & Topo Sheet)
- j. PRA Map (along with photos & paper drawing)
- k. Treatment map (Indicate proposed works)
- l. Cadastral Map on watershed boundary
- m. Information on Soils, Soil fertility, Land capability, Soil chemical problems like salinity, alkalinity
- n. Land Use Land Cover map
- o. Information on existing water harvesting structures & well inventory along with GPS co-ordinates.
- p. High resolution, latest Remote Sensing Satellite data

### **Documents of Agreements:**

Proceedings of gram sabha for EPA approval

Proceedings of gram sabha Resolution for committee constitution

Proceedings of gram sabha for DPR approval

DPR approval by district

Watershed Committee Registration certificate

MoU – PIA – DWMA, PIA – WC(in case of NGO as PIA)