GOVERMENT OF RAJASTHAN

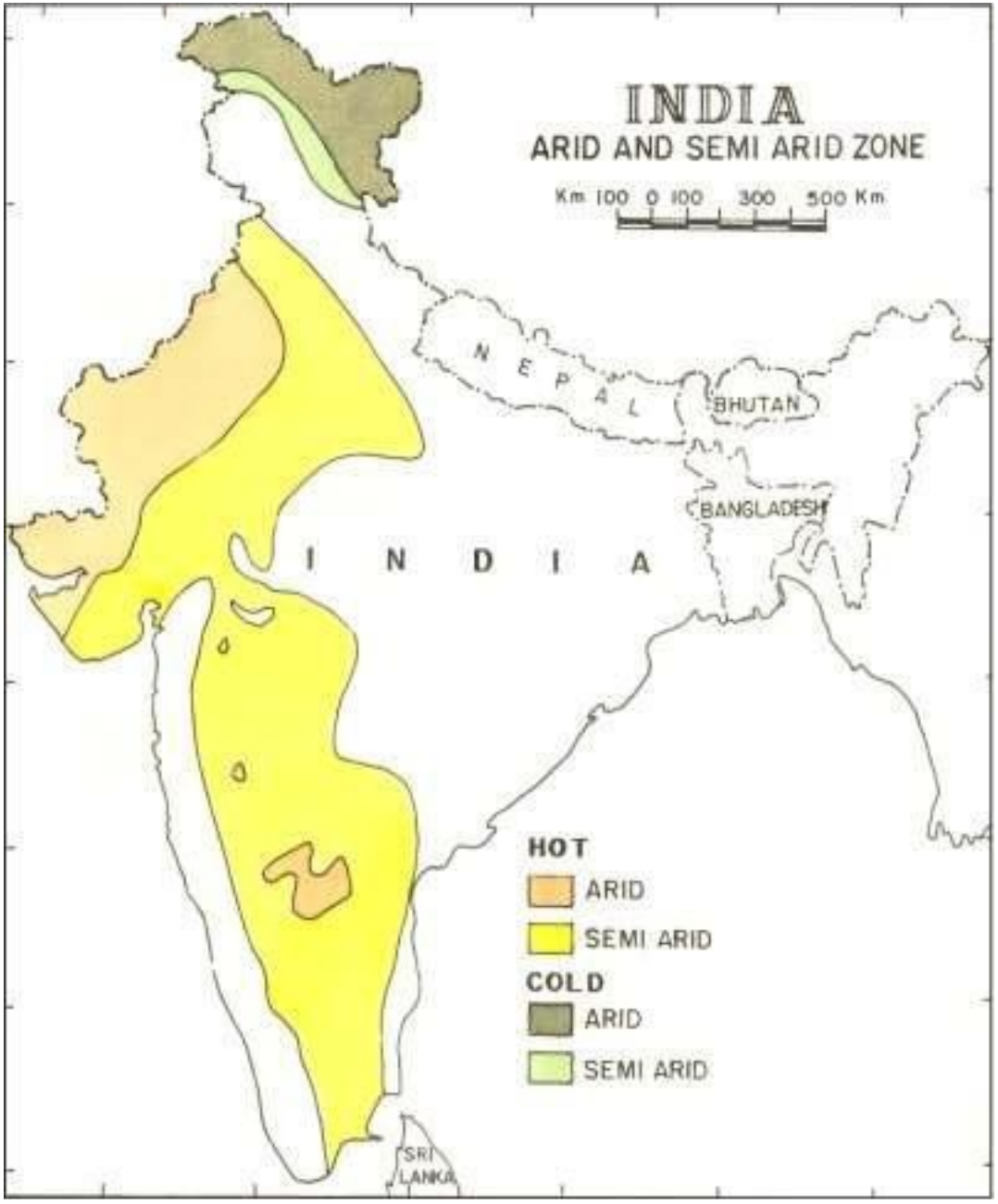
RURAL DEVELOPMENT & PANCHAYATI RAJ DEPARTMENT
Watershed Development & Soil Conservation Department
Rajasthan, Jaipur

DETAILED PROJECT REPORT INTEGRATED WATERSHED MANGEMENT PROGRAMME PALI (IWMP) – 2 / 2009-10,
SOJAT BLOCK

PROJECT COST : 591 LACS Area 3940 Ha

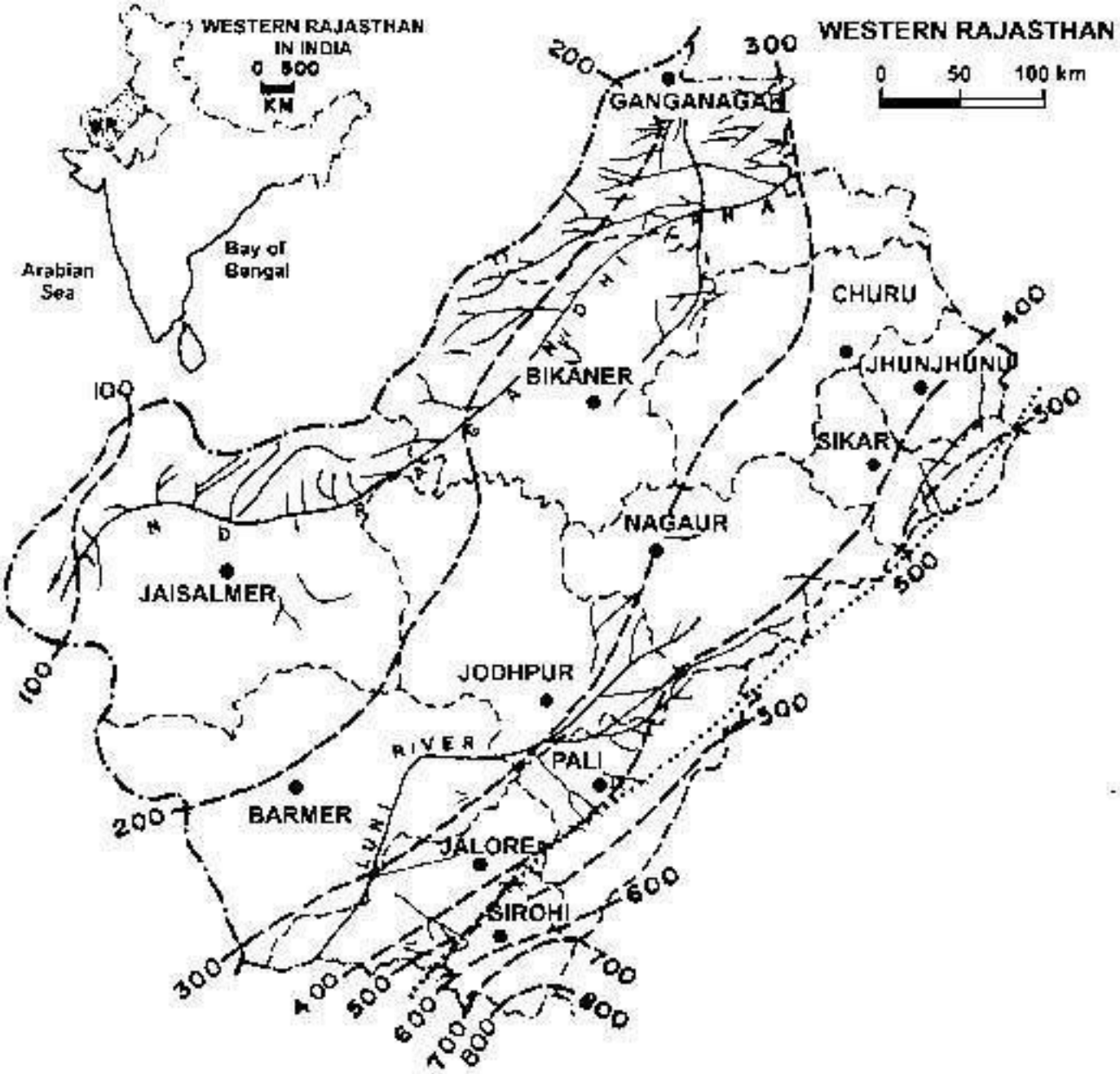
PROJECT IMPLEMENTING AGENCY
ASSISTANT ENGINEER,
PANCHAYAT SAMITI – SOJAT (PALI)

Distribution of Indian Arid Zone



Indian Arid Zone (38.7 m ha)

Hot Arid:	31.7 m ha
Rajasthan:	19.60 m ha
Gujarat:	6.22 m ha
Haryana & Punjab:	2.75 m ha
South Peninsula:	3.13 m ha
Cold Arid :	7.0 m ha
Jammu & Kashmir:	7.0 m ha



Mean annual rainfall, mm (– –), stream characteristics (—) and Eastern boundary (·····) of arid zone of Rajasthan


RAJAS11iAN
Ganganagar
Hanumangarh
Churu
Bikaner
Jhunjhunun
Sikar
Alwar
Bharatpur
Dausa
Nagaur
Jaisalmer
Jaipur
Jodhpur
Dhaulpur
Karauli
Tonk
Ajmer
Sawai Madhopur
Barmer
A
Bhilwara
Bundi
Pali
Baran
Rajsamand
Kota
Jalor
Chittaurgarh
Sirohi
Jhalawar
Udaipur
A - Ajmer
Dungarpur
Banswara

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Introduction Chapter :- 1

1.1 Project Back ground

Name of Project:- IWMP Pali - 2
Macro No:- 39, 38,
Micro No:- 1B, 2, 1A,

Table No 1.1.1 :- Project Background

	Degree	Minute		Degree	Minute
Latitude:-	26	12	To	26	14
Longitude:-	73	33	To	73	39

Total Project Area

Total Project area 5088 Ha is Proposed to be treated under Intrigated Watershed Management Programme

Location:-

Distance from watershed

Nearest town:-	Sojat	40 Km
Tehsil:-	Sojat	40 Km
District:-	Pali	40 Km

Social:-

Major cast:- Jat,Dewasi,Megawal,Rajput

The livelihood of these people is based on rainfed agriculture,daily labour in mining based industries,mining of lime stone & sheep rearing

Table No 1.1.2 :- Basic Project Information

So. No	Name of Project	Name of Gram Panchayat	Village Name	Census code	Tehsil	District	Area Proposed to be Treated	Total Project cost Lacs	PIA
1	IWMP II	Rajola Kalan	ajola Kalan	0820000302410700	Sojat	Pali	2090.00	313.50	Asst. Engg. WD&SC Sojat
		Lanera	Lanera	0820000302411000	Sojat	Pali	1850.00	277.50	
Total							3940.00	591.00	

Table No 1.1.3 :- Macro Micro Information

So. No	Name of Project	Name of gram panchayat	Village Name	Macro No	Micro no
1	IWMP II	Rajola Kalan	Rajola Kalan	39	1A, 1B

	Lanera	Lanera	38	1B, 2

Table No 1.1.4 :- Macro Micro Information Village Wise

S.N.	Macro N.	Micro N.	Area	Area Covered in villages				
				Rajola Kalan	Lanera			
1	39	1B	1970	1970	0			
2	38	1B, 2	1850	120	1970			
Total				2090	1970			

Digram :- 1.1.1 Micro Wise

Micro no.	Micro no.1B	Micro no.1B, 2	
Area	1970	1970	

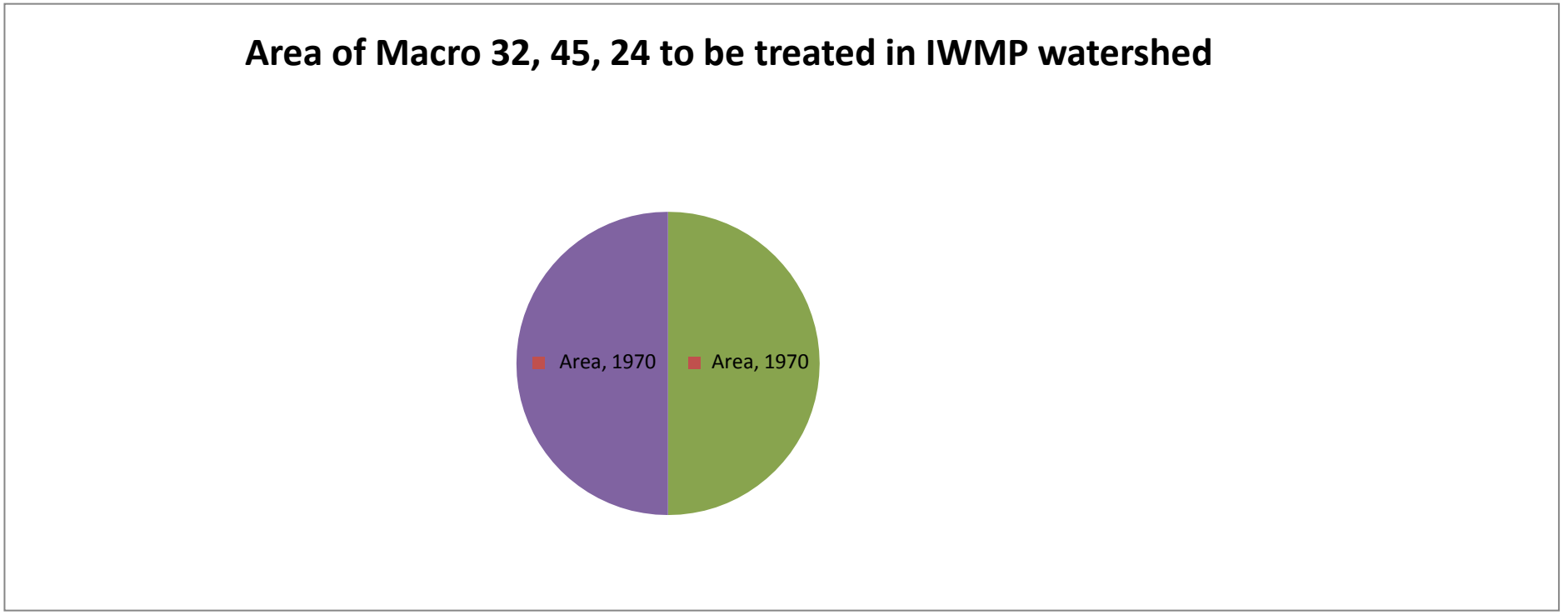


Table No 1.1.5 :- VillageRajora Kalan at a Glance

Division Name	Pali	**Parliamentary Constituency**	Pali	**Tehsil Name**	Sojat	**Gram Panchayat Name**	Rajola Kalan
District Name	Pali	**Assembly Constituency**	Sojat	**Block Name**	Sojat	**Patwar Circle Name**	Rajola Kalan
Village Census Code	0820000302410700	**Village Area (in Ha.)**	1548	**ILR Name**	Rajola Kallan	**Village Type**	Rural

Population			Child Population			Scheduled Caste			Scheduled Tribes		
Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
670	645	1315	105	96	201	200	193	393	0	0	0
Workers Population			Non-Workers Population								
Male	Female	Total	Male	Female	Total	No. of House Hold					
351	372	723	319	273	592	233					
Literates			Illiterates			Population			% Literacy		
Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
398	121	519	272	524	796	670	645	1315	59.4	18.76	39.47

Main Workers

Cultivation			Agriculture			House Hold			Others			Total Workers		
Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
57	0	57	27	5	32	5	0	5	52	2	54	141	7	148

Marginal Workers

Cultivation			Agriculture			House Hold			Others			Total Workers		
Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
140	203	343	59	157	216	3	4	7	8	1	9	210	365	575

Commercial Bank	Co-operative Commercial Bank	Agricultural Credit Societies	Non Agricultural Credit Societies	Other Credit Societies	Post Office	Telegraph Office	Post & Telegraph Office	Telephone Connections
0	1	1	0	0	1	0	0	1

	Tap	Well	Tank	Tubewell	Handpump	River	Canal	Lake	Spring	Other	Source Of Drinking Water During Summer			
	1	1	1	2	2	2	2	2	2	2	TW			
Income & Expenditure(in Rs. 00)	Total Income	Total Expenditure	Manufactured Item No. 1	Manufactured Item No. 2	Manufactured Item No. 3	Primary Schools	Middle Schools	Secondary Schools	Sr. Secondary Schools	Colleges	Industrial Schools	Training	Adult Literacy Class/Center	Other Educational Facilities
2	0	0	null	null	null	2	1	1	0	0	0	0	1	0

Cinema/Video Halls	Sports Club	Stadium / Auditorium	Paved Road	Mud Road	Foot Path	Navigable River	Navigable Canal	Navigable Water Way Other Than River Or Canal	Nearest Town	Distance From Nearest Town (in Km)
0	0	0	1	1	1	2	2	2	SOJAT	40

Allopathic Hospital	Ayurvedic Hospital	Unani Hospital	Homeopathic Hospital	Allopathic Dispensary	Unani Dispensary	Homeopathic Dispensary	Maternity Home	Child Welfare Center	Maternity & Child Welfare Center	Ayurvedic Dispensary
0	0	0	0	0	0	0	0	0	0	0

	Health Center	Primary Health Center	Primary Health Sub Center	Family Welfare Center	T.B. Clinic	Nursing Home	Registered Private Medical Practitioners	Community Health Workers	Other Medical Facilities	Subsidised Medical Practitioners
	1	0	1	0	0	0	0	1	0	0

Forest(in Ha.)	Government Canal	Private Canal	Well (Without Electricity)	Well (With Electricity)	Tube-Well (Without Electricity)	Tube-Well (With Electricity)	Tank	River	Lake	Waterfall	Other
0	0	0	0	0	0	0	0	0	0	0	0

Total Irrigated Area	Middle Unirrigated Area	Culturable Waste	Area Not Available For Cultivation	Electricity For Domestic Use	Electricity For Agricultural Use	Electricity For Other Purpose	Electricity For All Purpose	Bus Services	Railway Services	Navigable Water Way including River, Canal
0	1325	132	91	1	0	0	0	1	0	0

Table No 1.1.6 :- Village Lanera at a Glance

Division Name	Pali	**Parliamentary Constituency**	Pali	**Tehsil Name**	Sojat	**Gram Panchayat Name**	Lanera
District Name	Pali	**Assembly Constituency**	Sojat	**Block Name**	Sojat	**Patwar Circle Name**	lanera
Village Census Code	0820000302411000	**Village Area (in Ha.)**	1345	**ILR Name**	Shivpura	**Village Type**	Rural

Population			Child Population			Scheduled Caste			Scheduled Tribes		
Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
822	781	1603	181	191	372	230	217	447	0	0	0
Workers Population			Non-Workers Population								
Male	Female	Total	Male	Female	Total	No. of House Hold					
417	265	682	405	516	921	230					
Literates			Illiterates			Population			% Literacy		
Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
425	95	520	397	686	1083	822	781	1603	51.7	12.16	32.44

Main Workers

Cultivation			Agriculture			House Hold			Others			Total Workers		
Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
263	214	477	2	0	2	1	0	1	139	28	167	405	242	647

Marginal Workers

Cultivation			Agriculture			House Hold			Others			Total Workers		
Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1	3	4	1	1	2	0	2	2	10	17	27	12	23	35

Commercial Bank	Co-operative Commercial Bank	Agricultural Credit Societies	Non Agricultural Credit Societies	Other Credit Societies	Post Office	Telegraph Office	Post & Telegraph Office	Telephone Connections
0	0	0	0	0	0	0	0	1

	Tap	Well	Tank	Tubewell	Handpump	River	Canal	Lake	Spring	Other	Source Of Drinking Water During Summer			
	1	2	2	2	2	2	2	2	2	2	T			
Income & Expenditure(in Rs. 00)	Total Income	Total Expenditure	Manufactured Item No. 1	Manufactured Item No. 2	Manufactured Item No. 3	Primary Schools	Middle Schools	Secondary Schools	Sr. Secondary Schools	Colleges	Industrial Schools	Training	Adult Literacy Class/Center	Other Educational Facilities
2	0	0	null	null	null	1	0	0	0	0	0	0	0	0

Cinema/Video Halls	Sports Club	Stadium / Auditorium		Paved Road	Mud Road	Foot Path	Navigable River	Navigable Canal	Navigable Water Way Other Than River Or Canal		Nearest Town	Distance From Nearest Town (in Km)
0	0	0		2	1	1	2	2	2		SOJAT	39
Allopathic Hospital	Ayurvedic Hospital	Unani Hospital	Homeopathic Hospital	Allopathic Dispensary		Unani Dispensary	Homeopathic Dispensary		Maternity Home	Child Welfare Center	Maternity & Child Welfare Center	Ayurvedic Dispensary
0	0	0	0	0		0	0		0	0	1	0
	Health Center	Primary Health Center	Primary Health Sub Center	Family Welfare Center	T.B. Clinic	Nursing Home	Registered Private Medical Practitioners		Community Health Workers	Other Medical Facilities	Subsidised Medical Practitioners	
	1	0	1	0	0	0	0		0	0	0	

Forest(in Ha.)	Government Canal	Private Canal	Well (Without Electricity)	Well (With Electricity)	Tube-Well (Without Electricity)	Tube-Well (With Electricity)	Tank	River	Lake	Waterfall	Other
0	0	0	0	0	0	0	0	0	0	0	0

Total Irrigated Area	Middle Unirrigated Area	Culturable Waste	Area Not Available For Cultivation	Electricity For Domestic Use	Electricity For Agricultural Use	Electricity For Other Purpose	Electricity For All Purpose	Bus Services	Railway Services	Navigable Water Way including River, Canal
0	1056	195	94	1	0	0	0	1	0	0

1.2 Institutional arrangements

1.2.1 State Leval Nodal Agency (SLNA) :-

As per guideline para no.- 4.4 State Govt.of Rajasthan constituted State Level Nodal Agency (SLNA). Chairman of SLNA is Aditional Chief Secretary (Development) & Member Secretary is Director Watershed (CEO).

SLNA

Member Secretary	Post :- CEO
Designation & Address :-	Director Watershed Development & Soil Conservation
Telephone No. :-	0141 - 2227189
Fax No. :-	0141 - 2227858
E - mail :-	dir_ wdsc @ dataone.in.

1.2.2 Dristict Watershed Development Unit (DWDU) :-

As per Guideline para no. 4.5 / 29 SLNA has appointed District Watershed Development Unit at District Level. Project Manager of DWDU is XEn (LR) Zila Parishad at District Level.

Details of DWDU

Designation & Address	Project Manager cum X.En (LR) Zilla Parishad Pali
(ii) Telephone	
(iii) Fax	
(iv) E-mail	dwdu.pali@gmail.com

1.2. Project Implementing Agency

Table No. 1.2.1 :- Detail of PIA

Names of project	IWMP II	
Details of PIA	Designation & Address	Asst. Engg. WD&SC Sojat
	(ii) Telephone	02960 222026
	(iii) Fax	
	(iv) E-mail	p.o.sojat

1.2.4 Watershed Development Team (WDT)

Table no. 1.2.2 Staff at PIA level

S.No.	Name	Age	Sex	Designation	Qualificatiion	Specilization	Job Assigned	Monthly Remuneration
1	Rajeev Dharwat	35	M	WDT Engg	Diploma Civil	Tachnical	Engg.	10000
2	Kalu Ram	27	M	WDT Ag	B.Sc. Ag.	Ag speclist	Ag.	8000
3	Sunil Asari	30	M	WDT Vet	2 year Diploma	Vet Sp	Animal Hus.	8000
4	Trilok Jeengar	35	M	WDT Social	MSw	Social Sciemtist	Social W.	10000

1.2.5 Watershed Committee (WC)

Total area of the watershed 5088 ha. Comprise of two Gram Panchayat namely Guguda and Shivpura.
Only three Watershed Committee is constituted because of two Gram panchyat

Table 1.2.3

Gram Panchayat	Date of Gram Sabha
Rajola	15.09.2010
Lanera	15.09.2010

Table 1.2.4: Detail of Watershed Committee

Name of the Districts	Name of projects	Name of WCs	Date of Registration as a Society (dd/mm/yyyy	Designation	Name	M/F	SC	ST	SF	MF	LF	Land less	UG	SHG	GP	Educational qualification
Pali	IWMP Pali 2	Rajola Kalan	15.09.2010	President	Sh. Dhannaram / Motaram	M			Y				Y			10th
				Vice President	Sh. Shivram / Hardev ram	M			Y				Y			5th
				Member	Sh. Kaluram / Sheraram	M			Y				Y			5th
				Member	Smt Champa / Ganesh ram	F			Y				Y			litrate
				Member	Sh. Govindram / Venaram	M			Y				Y			7th
				Member	Sh. Bastiram / Daglaram	M	Y		Y					Y		5th
				Member	Sh. Gopal Ram / Fojaram	M			Y					Y		litrate
				Member	Smt Sundari / Ramchandra	F			Y					Y		litrate
				Member	Smt. Rekha / Bansilal	F			Y			Y		Y		illitrate
				Member	Sh. Hariram / Israram	M			Y				Y			illitrate
				Govt. Nominee		M										B.E.(Ag)
				Secrectry	Sh. Durgaram	M	Y		Y							10th

Name of the Districts	Name of projects	Name of WCs	Date of Registration as a Society (dd/mm/yyyy	Designation	Name	M/F	SC	ST	SF	MF	LF	Land less	UG	SHG	GP	Educational qualification
Pali	IWMP Pali 2	Lanera	15.09.2010	President	Sh. Govindram / Shankarlal	M			Y				Y			10th
				Vice President	Sh. Shankar lal / Chunnilal	M			Y				Y			5th
				Member	Sh. Bhikaram / Manglaram	M			Y				Y			5th
				Member	Sh. Bhundaram / Khinyaram	M			Y				Y			litrate
				Member	Sh. Bhikaram / Bheraram	M	Y		Y				Y			7th
				Member	Smt Keli / Mallaram	F			Y					Y		5th
				Member	Smt Saroj / Karan singh	F			Y					Y		litrate
				Member	Sh. Sohan lal / Hemaram	M	Y		Y					Y		litrate
				Member	Sh. Bhimaram / Shankarlal	M			Y			Y		Y		illitrate
				Govt. Nominee		M										B.E.(Ag)
				Secrectry	Smt Lila Devi / Jagdish	F			Y							10th

1.2.6 Secretary Watershed Committees

1 Convening meeting of the Gram Sabha, Gram Panchayat, Watershed Committee for facilitating the Decision Making Processes in the context of Watershed Development Project.

2 Taking follow up action on all decisions.

3 Maintaining all the records of project activities and proceedings of the meetings of Gram Panchayat, WC, and other institutions for Watershed Development Project.

4 Ensuring payments and other financial transactions.

5 Signing the cheques jointly with the WDT nominee on behalf of the Watershed Committee.

1.3 Present Status of Land Use

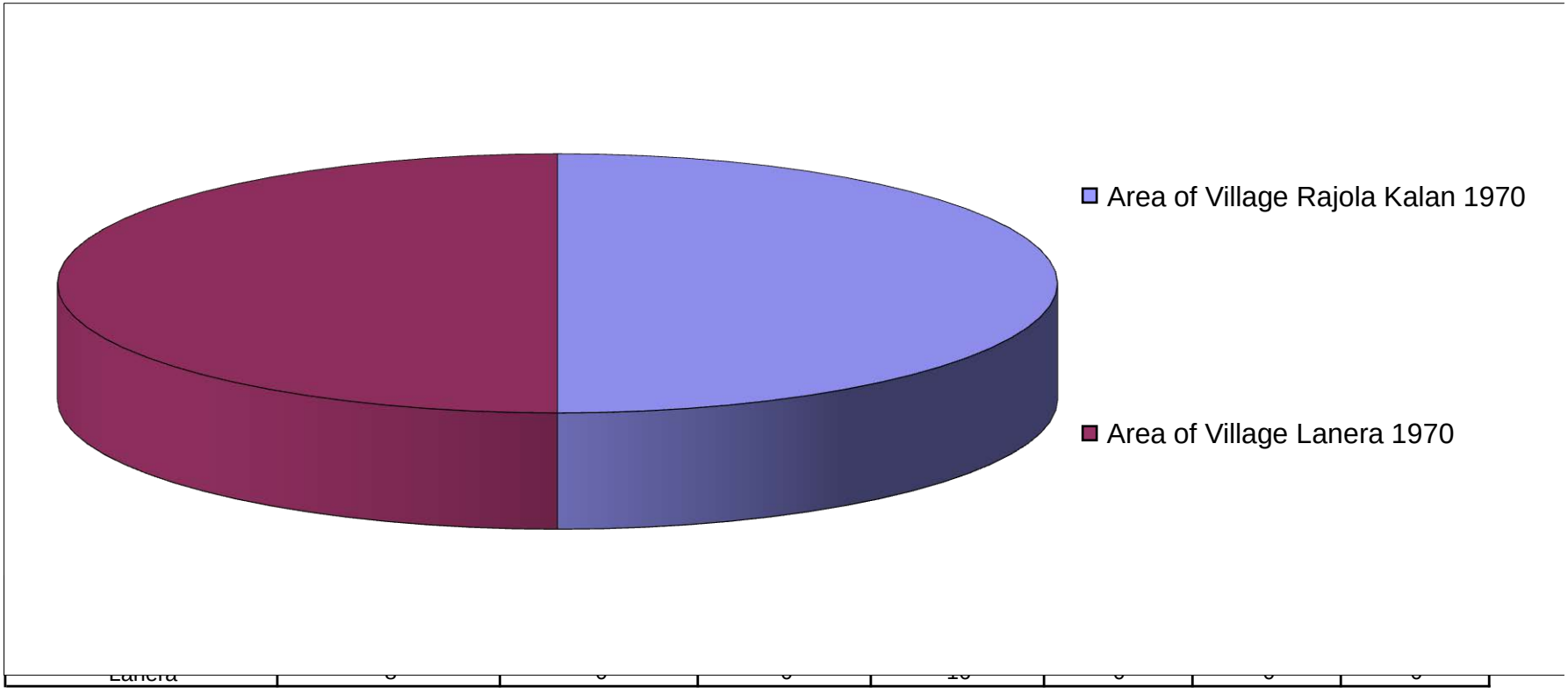
Table No 1.3.1 :- Present status of land use

Name of village	Macro no	Micro no	Arabel Land			Non arable land				total land
			Irrigated	UnIrrigated	fellow	Govt.	Panchayat land			
						DLT	Pasture	community land	Outhers	
			Ha.	Ha.	Ha.	Ha.	Ha.	Ha.	Ha.	Ha.
Rajola Kalan	39	1B	8	1747	0	27	25	110	53	1970.00
Lanera	38	1B, 2	13	1871	0	21	65	0	0	1970.00
Total			21	3618	0	48	90	110	53	3940.00

Table No 1.3.2 :- Area covered by different villages

Area Covered in village					
Rajola Kalan	Rajola Kalan	Lanera			
	1970	1970.00			

Digrame no :- 1.3.1 Area Covered in village



1.5 :- Erosion Status in Project Area

Project Area is affected by Water Erosion such that loss of soil fertility take place every year.
Production depleting year by year.
It is major problem of watershed

Table no.1.5.1 :- Erosion Status

Cause	Type of erosion	Area affected (ha)	Run off(mm/ year)	Average soil loss (Tonnes/ ha/ year)
Water erosion				
a	Sheet	1891.20	300	9456
b	Rill	1418.40	300	8510.4
c	Gully	630.40	300	4412.8
Sub-Total		3940.00	300	22379.2
Wind erosion		0.00	0	0
Total for project		3940.00	300	22379.2

1.6 Socio Economic Status :-

Economy of farmers of Project Area is based on cultivation. Due to Erosion & Scanity rainfall. Eonomic Condition of farmers are very poor.

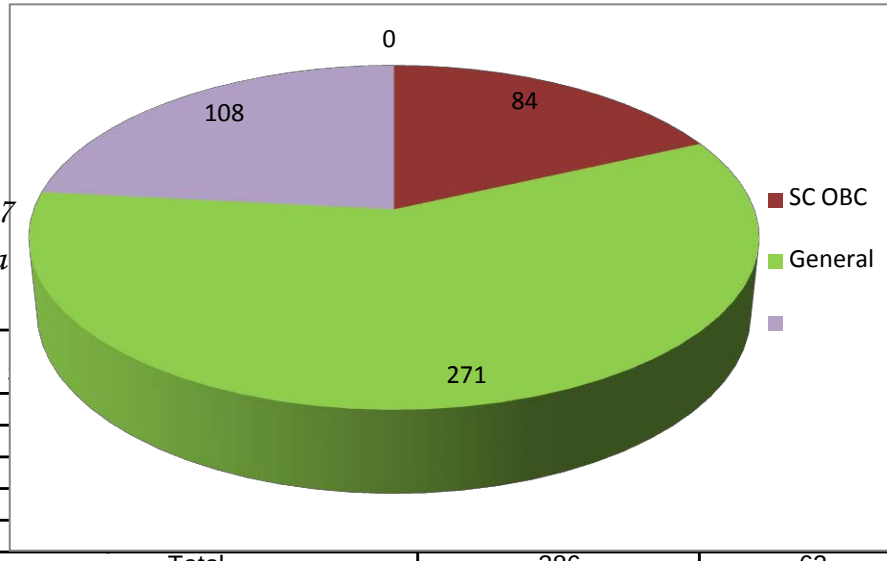
Table no. 1.6.1 Socio economic status

So.no	Name of village	SC		OBC		General		Total	
		No	Area	No	Area	No	Area	No	Area
1	Rajola Kallan	45	210	137	1245	51	635	233	2090
2	Lanera	39	185	134	1210	57	455	230	1850
Total		84	395	271	2455	108	1090	463	3940

There is three draughts year out of four year. Such that livelihood is basad on daily labour and working in mining industry.Which is very risky job. Base line survey of field show that farmers of irrigated land is better than the farmers of unirrigated land. Education status of villagers are very poor.

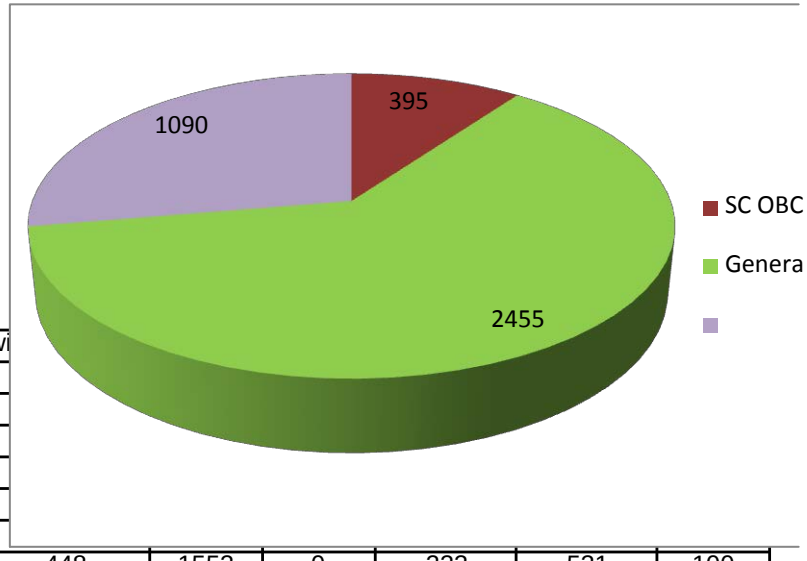
Digrame no :- 1.6.1 No. Household Cultivators

	SC	OBC	General
IWMP II	84	271	108



Digrame no :- 1.6.2 Total Area Cultivators

	SC	OBC	General
IWMP II	395	2455	1090



1.7

Ta

ce wi

Total	386	62	448	1553	0	233	531	100	

Environmental Constraints

- Low and Erratic Rainfall
- Intense Radiation
- High Wind Velocity
- Problamatic Soils & Water
- Sandy Soils with Poor Fertility
- Biotic Pressure
- Overgrazing
- Over-exploitation of Land and Water Resources
- Social taboos & unawareness

Natural Resources of Project Area

- Time Tested Water Harvesting Structures
- Pasture grasses/legumes
- Rich Mineral Endowments
- Common Property Resources
- Multi Purpose Trees/Shrubs
- Hardy and Productive Animals
- Ample Solar and Wind Energy

1.8 Problems

1 *Land Topography*

Maximum part of Project Area is having slope less than 3 percent. But due to proper conservation measures and erratic rainfall productivity of area is low.

2 *Lack of Awareness*

Farmers of project area are not aware about Govt. schemes & do not have knowledge about latest technique of farming, horticulture plantation,drip irrigation or any other water saving methods.

3 *Lack of Water Managment*

Farmers do not know how to harvest sarface runoff. They do not have much money to check runoff by making anicuts, earthen bunds and LSCD

4 *Poor Vegetation in Pasture Area*

There is not any managed pasture area, even there is a Govt. & community land in Dhanapa village. Such that farmers can not manage live stock for there daily need of milk

5 *Absence of Micro Enterprises*

There is not a single small scale industry to support livelyhood

6 *Lack of capacity building programmes.*

Farmers do not belive in latest technology because there is no demostration activities to improve there capacity or to manage thenselves with available sources in better way.

Chapter II

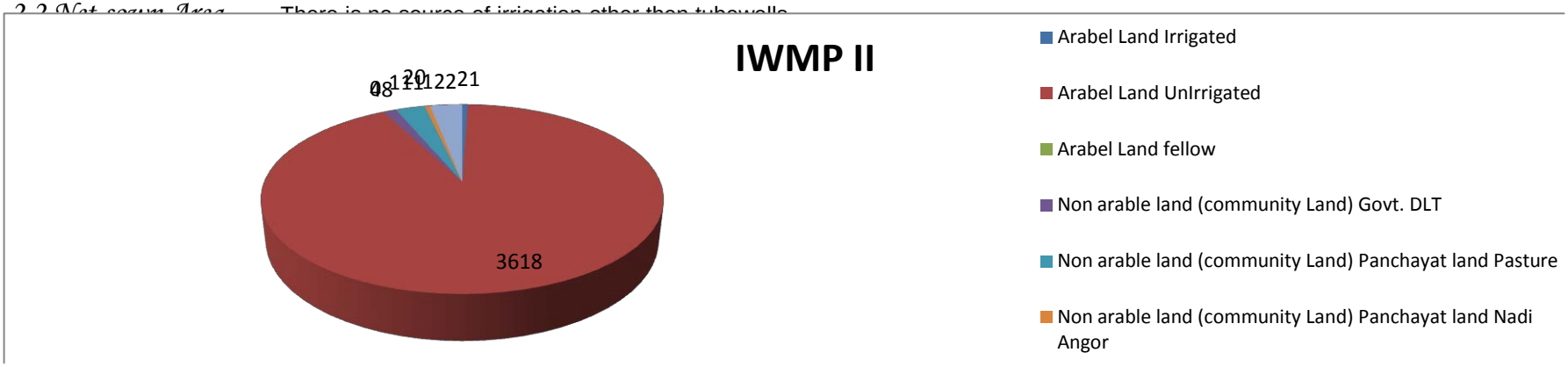
Part I: Basic Features of Project Area : -

Land use & land classification

	Arabel Land			Non arable land (community Land)			
				Govt.	Panchayat land		
	Irrigated	UnIrrigated	fellow	DLT	Pasture	Nadi Angor	Others
IWMP II	21	3618	0	48	111	20	122

Digrame no :- 2.1.1 0

2.2 Net sown Area There is no source of irrigation other than tubewells



2.3 Crop productivity

Table No 2.3.1 :- Crop Details (Kharif)

Village	Kharif (Mansoon)														
	Cotton			Bajara			Mung			Moth			Seasmum		
	Area Ha	Productions	Productivity	Area Ha	Productions	Productivity	Area Ha	Productions	Productivity	Area Ha	Productions	Productivity	Area Ha	Productions	Productivity
Rajola Kallan	5	2.03	405.00	439.00	206.33	470.00	386.00	79.13	205.00	211.00	29.75	141.00	421.00	87.15	207.00
Lanera	188	77.08	410.00	471.00	223.73	475.00	414.00	86.94	210.00	245.00	35.77	146.00	396.00	83.95	212.00
Total	193	79.11	815.00	910.00	430.06	945.00	800.00	166.07	415.00	456.00	65.52	287.00	817.00	171.10	419.00

Table No 2.3.2 :- Crop details (Rabi)

Village	Rabi (Winter)														
	Wheat			Gram			Musterd			Cumin					
	Area Ha	Productions	Productivity	Area Ha	Productions	Productivity	Area Ha	Productions	Productivity	Area Ha	Productions	Productivity	Area Ha	Productions	Productivity
Rajola Kallan	1	1.97	1970.00	2.00	1.21	606.00	0.00	0.00	1050.00	2.00	0.64	320.00	4.00	6.00	6.00
Lanera	2	3.95	1975.00	3.00	1.83	611.00	1.00	1.06	1055.00	4.00	1.29	322.00	0.00	0.00	0.00
Total	3	5.92	3945.00	5.00	3.04	1217.00	1.00	1.06	2105.00	6.00	1.93	642.00	4.00	6.00	6.00

Net sown Area in watershed

Crop wise Kharif Crops

Crop	Cotton	Bajara	Mung	Moth	Saesmum
Area	193	910.00	800.00	456.00	817.00

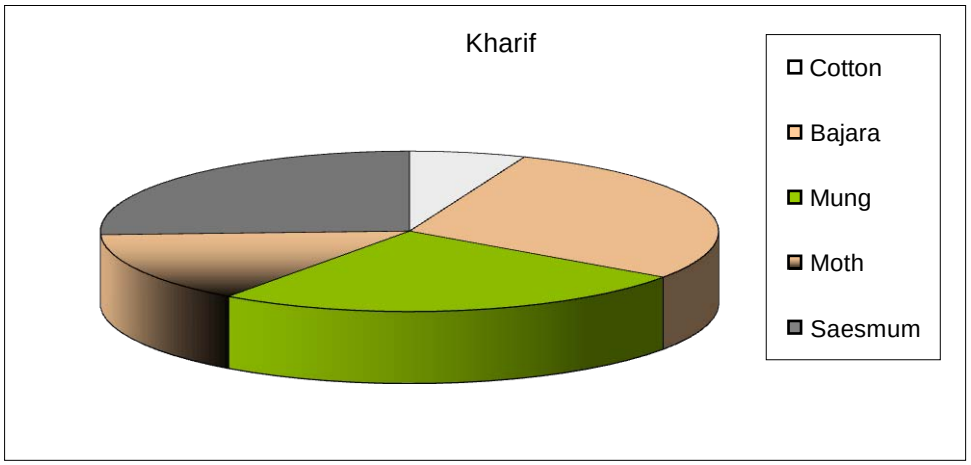
Digrame no :- 2.3.1 Kharif crops (Net sown Area)

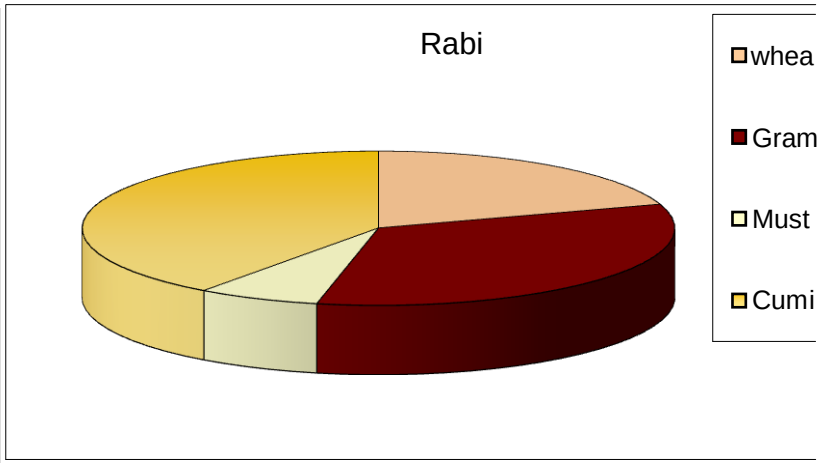
Crop wise Rabi crops

Crop	wheat	Gram	Musterd	Cumin
Area	3	5.00	1.00	6.00

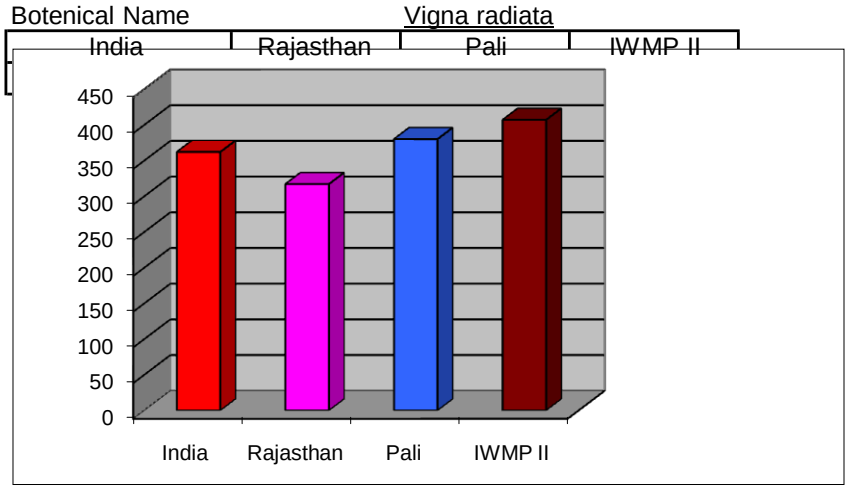
Digrame no :- 2.3.2 Rabi crops (Net sown Area)

2.4 Comparative Study of Agriculture Productivity for various crops

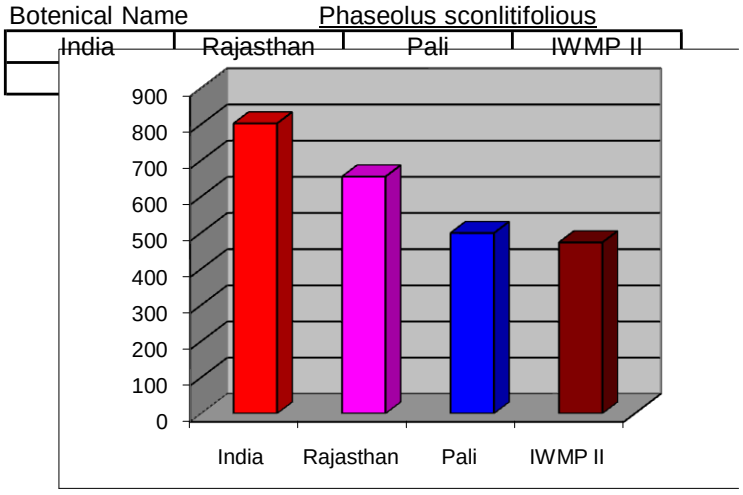




Mung Productivity (Kg/Ha)



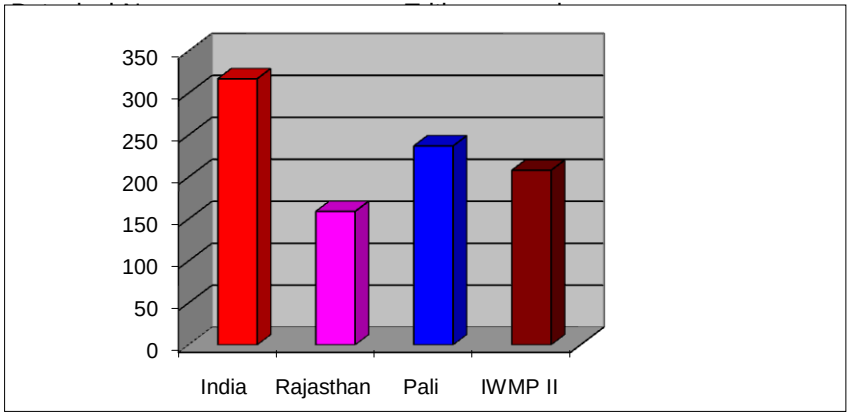
Moth Productivity (Kg/Ha)



Comparative Study of Agriculture Productivity for various crops

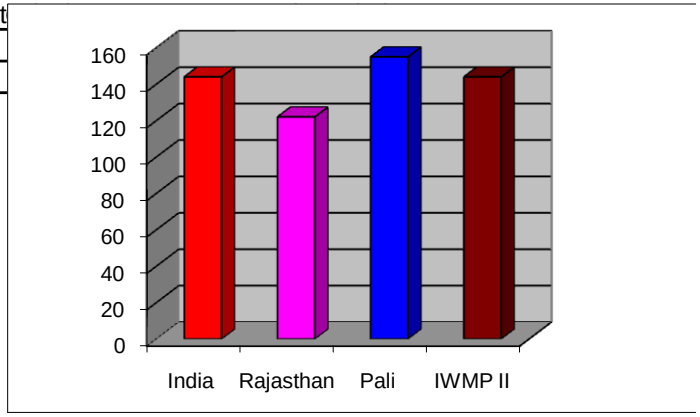
Digrame no :- 2.4.2 Agriculture status.

Wheat Productivity (Kg/Ha)



Gram Productivity (Kg/Ha)

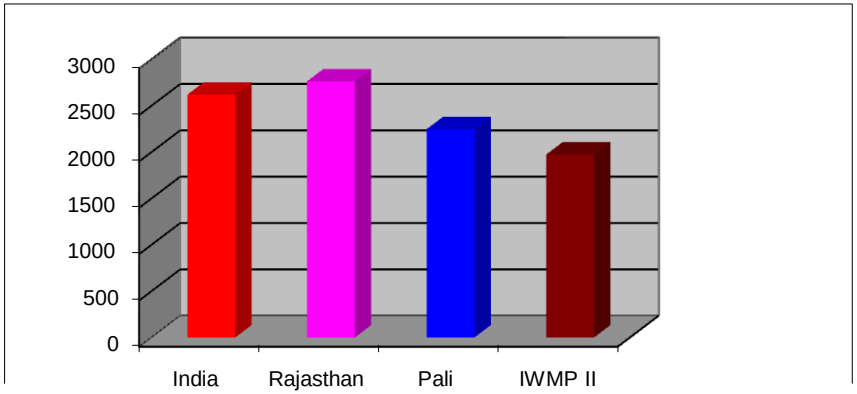
Bot



Sesamum Productivity (Kg/Ha)

Botenical Name Sesamum indicum

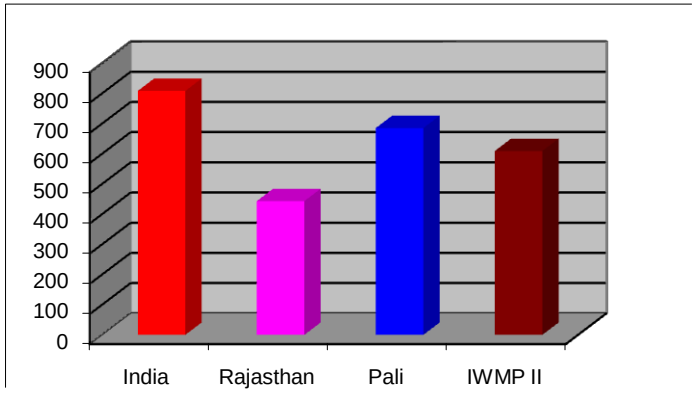
India	Rajasthan	Pali	IWMP II
310	149	238	210



Musterd Productivity (Kg/Ha)

Botenical Name Brassica compestries

India	Rajasthan	Pali	IWMP II
1177	1232	1145	1053

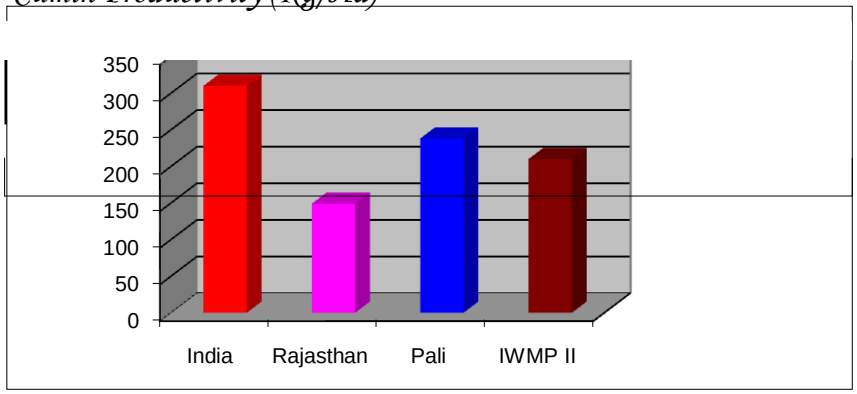


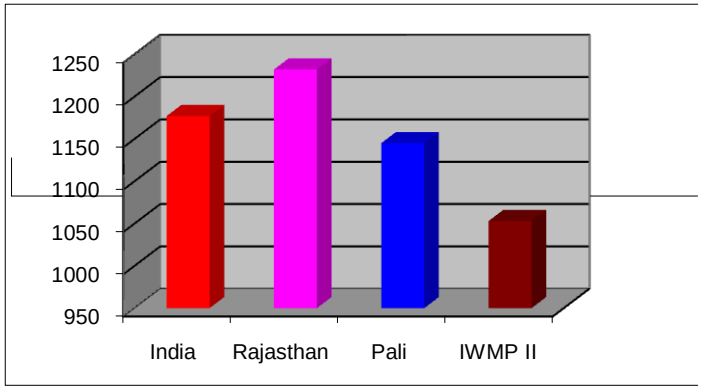
India Rajasthan Pali IWMP II

Comparative Study of Agriculture Productivity for various crops

Digrame no :- 2.4.3 Agriculture status.

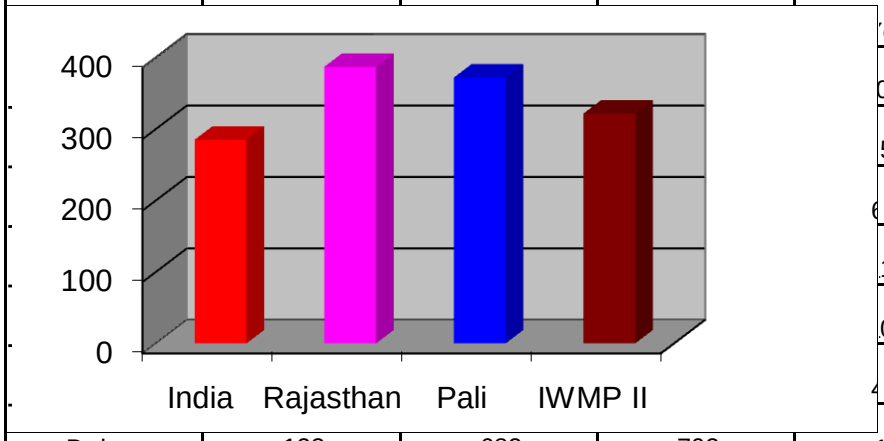
Cumin Productivity (Kg/Ha)



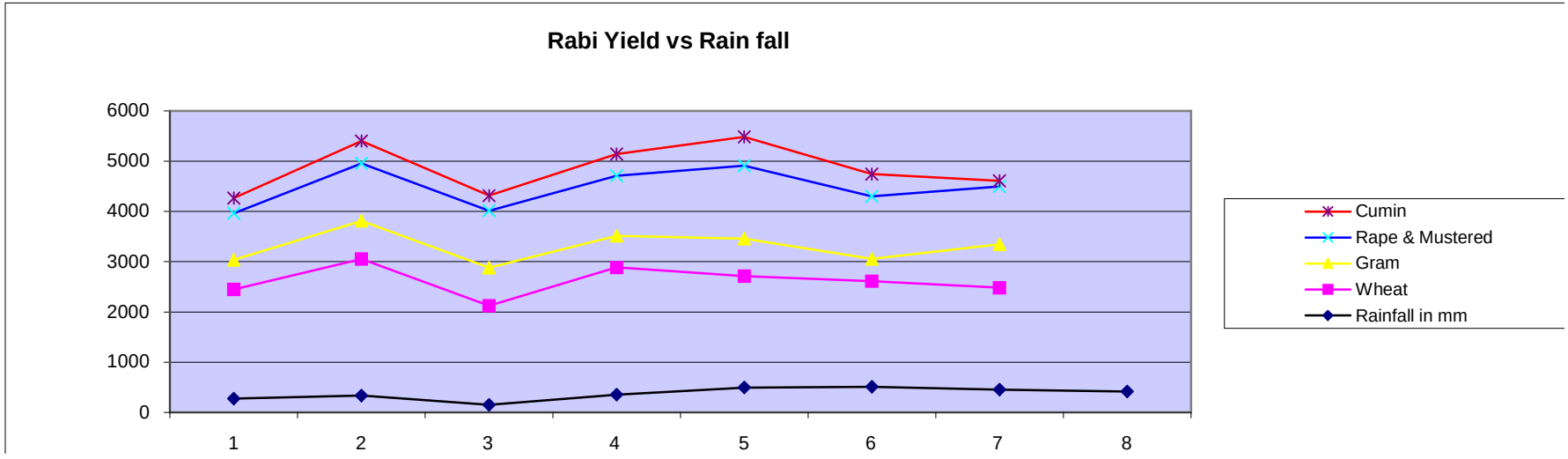


Comparative Study of Agriculture Productivity for various crops vs Rain Fall

Digrame no :- 2.4.4 Agriculture status.

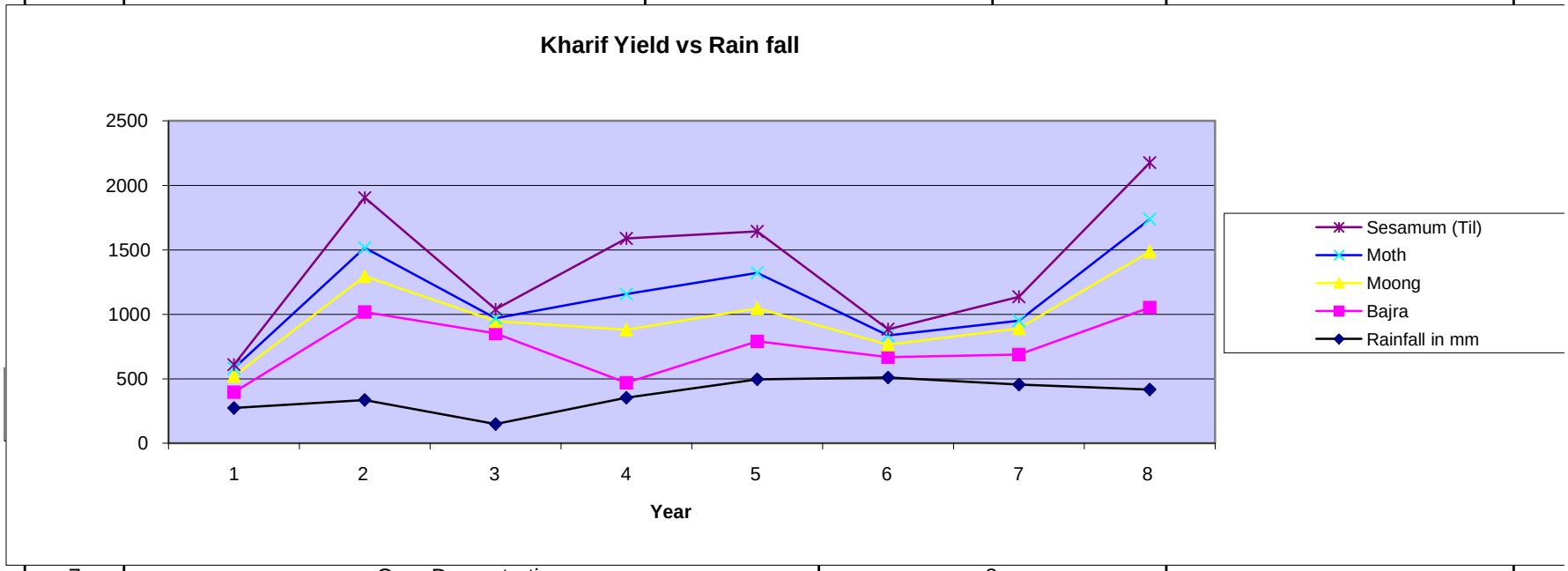


				eild	Yeild	Yeild	Yeild	Yeild
				03-04	2004-05	2005-06	2006-07	2007-08
				528	2213	2101	2023	0
				33	748	443	867	0
				195	1453	1243	1149	0
				067	287	291	524	0
				31	572	444	113	0
Bajra	123	682	702	116	295	158	233	637
Moong	125	277	96	412	255	97	203	432
Moth	60	222	24	276	276	72	60	251
Sesamum(Til)	28	388	68	432	322	48	185	439
Cotton	1529	1951	1400	2237	2651	2237	3135	0
Rainfall in mm	274	336	149	353	496	510	455	417
No of Ranniy Days	13	22	12	21	21	26	25	17
Highest Rainfall on single day	85	33	43	66	74	82	97	95


Rabi Yield vs Rain fall
6000
5000
4000
3000
2000
1000
0
1
2
3
4
5
6
7
8
Cumin
Rape & Mustered
Gram
Wheat
Rainfall in mm

Year

Tabel no. 2.5.2 Existing SHG



7	Crop Demostration	8	-

Tabel no. 2.5.4 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)
Rajola Kallan	68	150	Labour	100	Labour	0.25
Lanera	121	210	Labour	100	Labour	0.15

2.6 Horticulture status & fuel avilability :-

There is no project of horticulture had been started by agriculture deparment under Rastriya bagwani mission programme. In adjoining W/S of DDP scheme provide horticulture plant to farmers which are full filling there daily needs only. Such that economy or revenu earn is zero. Farmers are full filling there demand of fuel wood by Khejadi & Juli flora which is insufficient. Limeted fuel wood avalable in area. There is no plantation work done to provide fuel wood at lower cost.

Tabel no. 2.6.1 Horticulture & fuel avilability

Existing area under fuel-wood (ha)	Existing area under fodder (ha)
not avalable	no pasture maneged by villagers

2.7 Live Stock Status :-

In the IWMP IWMP II project, there are 441 cows, 524 buffalos, 908 goats, 1332 sheeps, 14 bullock & 5 other. Mainly cows & buffaloes are of local breeds like Nagouri & Murra respectively. Avalability of surface watar, fodder and pasture for these animals reducing day by day. Less noumber of animals surveive by eating crop reduces. No parnanent pasture is there. This leads to heavy migration of villagers for grazing sheeps rearing to out of state. Milk production is low in area. There is no dairy co-operative in project area. Not a singal liter of milk is avalable to sell out,out of project area. Insufficent production of milk leads poor health to children.

Tabel no. 2.7.1 Live stock status per day milk production

Village	Buffalo		Cow		Goat		Total milk	Sheep	Bullock	Other
	No.	Milk	No.	Milk	No.	Milk				
Rajola Kalla	492	1476	417	667.2	417	83.4	2226.6	1131	7	2
Lanera	32	96	24	38.4	24	4.8	139.2	201	7	3
Total	524	1572	441	705.6	441	88.2	2365.8	1332	14	5

2.9 NREGA Status :-

Tabel no. 2.9.1 NREGA Status

Sr. no.	Name of village	Total no.of job cards	Activity taken in plan 2011-12					
			Categary 4 -25		Nadi		Anicut	
			Total	Project area	Total	Project area	Total	Project area
1	Rajola Kallan		1	1	1	0	0	0
2	Lanera		1	1	1	0	0	0

This DPR proposed activity for categary 4 & Anicuts. We will like to convergence with NREGA to work in next year planings.

2.10 Development Indicators :-

1 Stop surface runoff flowing out side from watershed area.

2 Develope pasture land for villagers to full fill there need of fuel, fodder & stop migration.

3 Increase productivity per Ha.

4 Stablise livelihood supporting activities to support land less labours.

5 Divert croping patterns form traditional system to horticulture and modern agriculture practices.

6 Improve water use efficiency by drip & sprinkler irrigation

7 Provide potable water for drinking purpose.

8 Rise in water table at down stream side to the harvesting structure.

Part II - Technical Feature of Project Area

2.11 Revenue Maps :-

Revenue maps is based on scale 1 : 4000. Revenue records like khasra maps, khasra list has been collected . All records are available at PIA level. Ridge line & contour line has been marked by SRSAC.

2.12 Topo Maps / Maps with drainage line :-

Revenue maps traced on plastic sheets and scaned by SRSAC. SRSAC marked all topography, D.L.T. It has been atteched to DPR anuxure.

2.13 Hydro-Geological maps :-

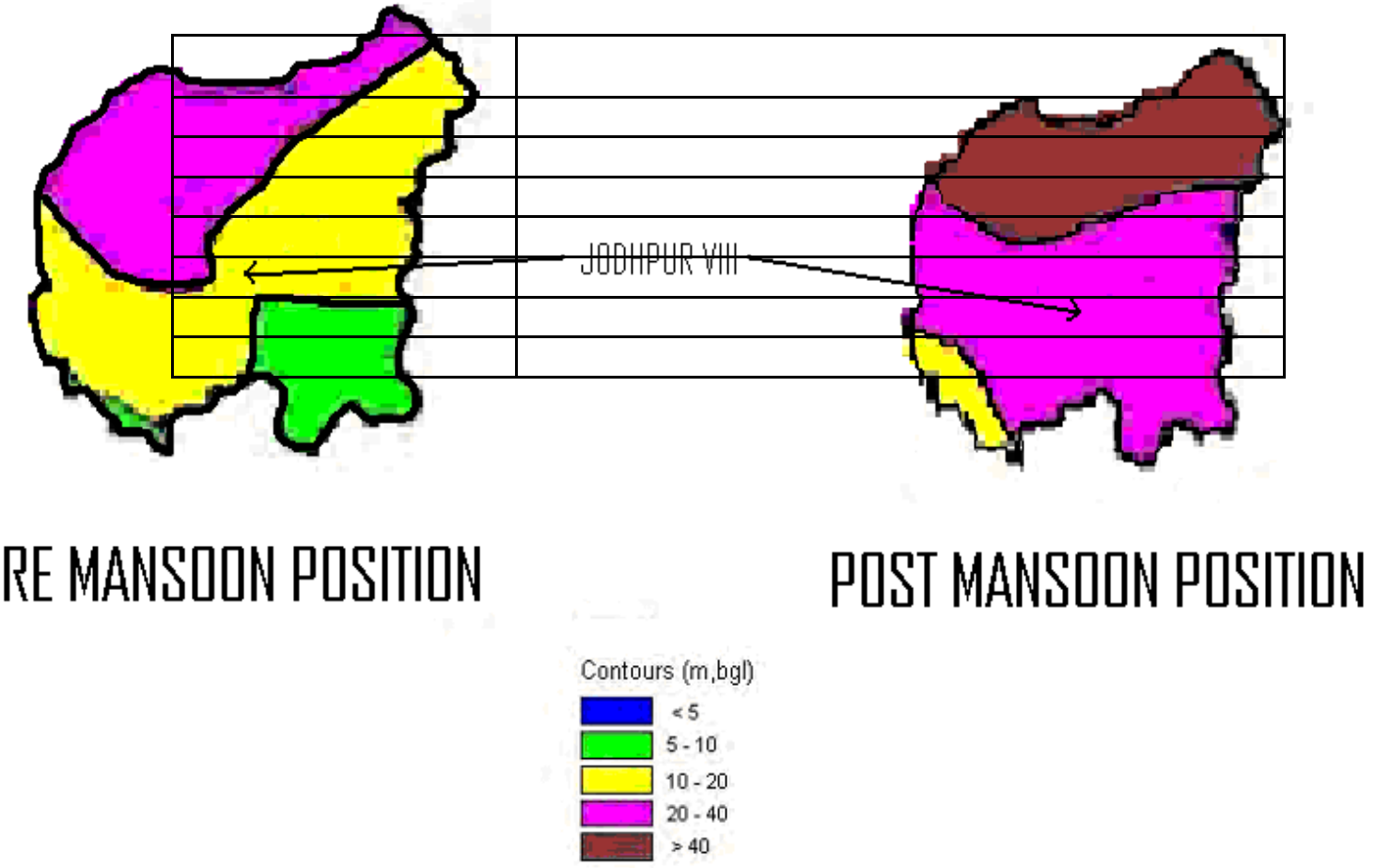
Prepared by SRSAC and enclosed with this report

2.14 Ground water status and prospect maps :-

Ground water status of the watershed is over-expolited and critical. As per hydrogeology of the watershed is Malani Rhyolite & Granites. The electrical conductanc is between 4000-6000 microohms/cm at 25 degree C. Depth of Ground Water level, Quality of Ground water, Nitrate Distribution and Fluoride Distribution is as per attached maps.

2.1

Tabel



2.16

It has

Total a

Tabel

Total	

2.17 Run off tapped in existing structure

According to Base line survey of field only three structure fullfilled in last 10 years such that remaining structure do not require waste weir. So nadi no 10 nadi no 3 & Nadi no 6 considered on basis of time of concentration.

Tabel no. 2.17.1 Net runoff tapped

Village	Name of Existing Structure	No.	Storage Capacity in Cum
Rajola Kallan	Nadi	6	66348
Rajola Kallan	Khadin	2	22116
Rajola Kallan	Tanka	6	120
Lanera	Nadi	8	88464
Lanera	Tanka	16	320
Total runoff tapped			**177368**

Excess Runoff Available = 1410402 **-** 177368 = **1233034** **Cum**

Problem demand and scope for comprehensive area development

2.20 NRM (Natural Resource Managment) :-

As it is clear from the above Calculation that 1610689 Cum is excess runoff which goes waste every year resulting in soil erosion and low productivity. This excess water will be trapped by constructing Earthen Bunds, Anicut, Khadins and Tanka's which will result in increase in moisture and water availablity in the project area thus increaseing producitity of Natura Resources available in the project area.

2.21 Agriculture and horticulture productivity gap analysis :-

Farmers of area using tradional methods for croping and therefore productivity is below averege. They are not using drip & sprinkalar irrigation facility to save water. Use of chemical fertilizer for production is also increasing the cost of Production. Therefore sprinklar & drip irrigation facility will be introduced by convergence with Agriculture extention dept. Compost Pit will be construted by the project fund so that lesser use of Chemical fertilizer will be done by the farmers. Soil Testing will be done and Soil Health Card will be provided to all the farmer of the Project Area. Newsletter published by State Agriculture Department will be subscribed for 1 year to all the farmers of Project Area, this will help farmers to remain updated to latest technology in the field of Agriculture.

2.22 Livestock Productivity Gap Analysis;-

Seasonal Health check up will be conducted of all the Animals of Proejct Area. To enhance the productivity of the Animals techniques like Artificail Inseminization will be used. Fodder Trough will be provided to almost every farmers so that Animals can get clean fodder. Pasture land in tune of 1 to 2 ha is available in continutiy in the project area. On such land Silvi Pasture activity will be done by fencing it by barbed wire. This will help in protecting the pasture from *Rojda*

2.23 Livelihood & micro interprises :-

To overall development of area project connects farmers for various activities to earn money in there free time or regularly. This activity fullfill there regular need as well as earn money by working in microinterprises.

CHAPTER – III
WATERSHED ACTIVITIES

3.1 Preparatory phase activities:

The main objective of the preparatory phase is to create appropriate mechanism for adoption of participatory approach with the help of watershed development team. To establish the credibility of WDT team and to create a rapport with the villagers the entry point activities have been executed.

3.1.1 Entry point Activities :

To find the urgent need of the local communities, the Gram Sabhas have been conducted at each Gram Panchayat. So that different works could be identified according to their need. The main theme of Entry Point Activities is to establish credibility of the Watershed Development Team and create a rapport with the village community. After identifying the different works in Gram Sabhas, the following works were executed:

S.No.	Name of the Work	Cost (Rs in lakhs)
1	Nadi	04.57 lacs
2	Tanka	03.50 Lacs
3	Diversion Channel	03.57 lacs
4	Solar Light	07.50 Lacs
5	Talab Feeder	02.70 lacs

3.1.2 Base Line Survey :

To access the impact of any watershed development programme a detailed baseline 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 involved household survey. Household survey includes a detailed questionnaire which was been filled by visiting each and every household in the village. This gave in the details of the demographic profile of the village, the literacy percentage, SC/ST population, number of BPL household, cattle population, various schemes running and their benefits

3.1.3. Capacity Building :

Capacity building is an important aspect for the successful implementation of watershed development programmes. The relevant training programme will be organized for all the functionaries involved in water shed development. It will be ensured at every level that a majority of the members of SHGs/UGs would be given basic training involving skill up gradation and orientation on the technical and organizational aspects.. Besides training on application on Remote Sensing Technology for generating database for watershed development will be included in the training programme. It has been finalized that the training will be organized by WDT members with the help of local officials of the technical departments. SHGs&UGs would also be taken for visits to Research St ations, demonstration of successful technologies that are relevant to them.

For participatory approach, water shed committee, user groups and self help groups have been formed at each gram panchayat level. During the phase, the watershed development team (4 members) which is also constituted and engaged in the project earlier will facilitate. The capacity building of these different stakeholders on institutional and work related aspects are important part of the project.

3.1.4. PRA Exercise:

Participatory Rural Appraisal (PRA) is one of the most important exercises in Watershed Development projects before preparation pf Action Plan.. The village wise, ward wise PRA have been conducted with the help of WDT member For village separate maps have been prepared, showing all special features such as nallas, pasture land, roads, dhani's etc. The works have been identified according to beneficiaries need.

3.2. Watershed Development Works

With the help of WDT, on the basis of the information generated from the bench mark survey of the watershed area and detailed PRA exercise, the detailed watershed development plan for each Gram Panchayat have been prepared. Watershed treatment/ development plan have been prepared for all the arable and non arable land including degraded lands, government and community lands and private lands.

3.2.1. Conservation measures for arable lands :

The main problem of the area is the low and erratic rainfall. The conservation measures ment to reduce or prevent sheet erosion. The important principles to be kept in view while planning measures for proper conservation of water are increasing the time of concentration and thereby allowing more runoff water to be absorbed, intercepting the long slope into short ones and protection against damage and to excessive runoff. Bunding is the most effective and widely practiced field measures for controlling or preventing erosion. In broader way it can be defined as series of mechanical barriers to reduce the slope percentage.

a. Earthen Bund: Earthen bunds are constructed along the field boundrys in such a way that they are across the slope of the land and are very much along the contours. For the area having slope less than 6 percent and flatter lands with scanty /erratic rainfall earthen bund is practiced to intercept the runoff by embankment whose ends may be closed or open to conserve moisture as well as to reduce the soil erosion. AS per past experience the contour bund can be adopted on all types of relatively permeable soils except the clayey or deep blank cotton soils. The main criterion for spacing of bunds is to intercept the water before it reaches the erosive velocity. The most important factor of it is slope, cropping pattern, soil and conservation practice adopted. While planning of contour bund few things, which is considered: area is bifurcated according to slope, if distance between two bund is more than additional bund is provided in between them, lateral bunds/ hooking is done by extended up to the submerged length at both ends and vertical interval is adjusted according to field boundaries.

b. Waste weirs: In order to protect the earthen bund from breaching and the standing crop from damage, masonry outlet structures which can drain away excess water, are constructed where every required.

c. Gully control structure : In arable lands, where small rills/ gullies have been formed, then the earthen bunds are constructed at regular intervals.

d. Tanka: Round Tanka will be constructed on the arable land with pucca aagor. This will be very usefull to harvest rain water, which will be use for drinking purpose. Horticulture Plants will also be given the owner of the tanka to plant them near this tanka. Some tanka on Non Arable land will also be constructed with or without plantation as per condition.

3.2.2. Conservation measures for non arable lands:

The area which is unsuited to cultivation for agricultural crops and limits their use largely to pasture, forest requires the conservation measures. These waste lands have a great potential for producing fodder, fuel, fiber etc. To protect these lands from further degradation suitable soil and water conservation measures supplemented with proper afforestation is required. Small pathchs of pasture land (area between 1 to 2 ha) is taken for this purpose because no big piece of land was continuously available in the project area.

a. Contour trenches: Contour trenches will be excavated along a uniform level across of the slope of the land. Bunds are constructed downstream along the trenches with material taken out of them. The main objective is to create more favorable moisture condition. The contour trenches break the velocity of runoff. Plants are put in the trench along the berm.

b. Barbed Wire Fencing: In the watershed area, the available pasture land will be protected by barbed wire fencing. The land available for pasture development is so small, that is why Dicth cum Bund fencing is avoided at the same time graging by Neel Gay, Sheeps and Goat require a proper fencing.

c. Pasture development : To mitigate the fodder requirement, 5-7 number of pasture development having size of 1 to 2 ha is proposed. The encroachment is the main problem of pasture development. The pasture land will be developed by fencing the area by barbed wire. Plants and Grass will be sown in the pasture area.

d. Tanka: Round Tanka will be constructed on the arable land with pucca aagor. This will be very usefull to harvest rain water, which will be use for drinking purpose.

3.2.3. Drainage line treatment :

The drainage line treatment is very important part of the project.

a. Concrete and masonry check Dam: In some places where vegetative measures and simple practice alone are inadequate to handle the concentration of water, permanent masonry structures structure are provided. In the project area these permanent masonry gully control structures will be provided.

b Water harvesting structures Anicuts: One big anicut will be constructed in the project area subject to no objection certificate given by the irrigation department.

3.3. Production System and Micro Enterprises :

3.3.1. Production measures for arable :

To get the more benefit from agriculture crop, it is very important to decrease the cost of cultivation and increase the production. To decrease the cost of cultivation, it is necessary to use complete available land for cultivation, use of latest implements so that time and cost is reduced. Good agriculture management by taking more than one crop in a year can also increase the production. Optimum quantity of fertilizer, insecticides and pesticides should be us ed. The reduction of chemical fertilizer will also increase the production.

For increasing production of crop, water management also plays an important role. The water should be used according to its quality and also crop should be irrigated according to need/ requirement. The practice of Drip and Sprinkler irrigation will lead to optimum utilization of water.

In the State and Centre Sector schemes, for improvement in production level of different crops and minimize cost of cultivation, various schemes are organized by Agriculture/ Horticulture Department. Farmers will be linked with the schemes of these department.

The activities done under this head from project fund are:

a. **Crop Demostration**: Crop Demostration will be conducted as per the local choice of the farmers.
b. **Soil Health Card**: Samples of soil will be collected from every field of the project area and get tested from the laboratory of Agriculture Department.
c. **Newsletter**: All the farmers of project area will be provided free subscription of Newsletter Published by State Argiculture Department for one year.

3.3.2. Production measures for non arable lands :

In government pasture land is developed by fencing the area by barbed wire and constructing the trenches. In between the trenches grasses are grown and on downstream side of the trenches the forestry/ fuel plants are grown.

The fuel plants on the bunds of the private lands are also with the consultation of the owner, so that cultivators can also get the fuel for his use. Similarly on the bunds the grasses are also grown so the beneficiaries can have the fodder for the livestock.

3.3.3 Live Stock Production Measures:

a. Animal Health Camps: Animal Health Camp will be orgaised every year in the project area. This will improve overall health of the animals of project area.
b. Artifical Insemination: Artifical Insemination will be done to improve the breed of th animals in the project area.
c. Castration: Local people will be encouraged to adopt the castration to impove the quality of their animals.
d. Vaccination: Vaccinaiton of all animals will be done in the Health Camps organized in the project area.
e. Fodder Vessels: All the Cattles owners of the project area will be provided with the vessels for fodders serving.

3.3.4. Livelihood activities particularly for asset less person:

In the project area according to the interest and need livelihood activities will be followed. In individual livelihood activity training of masson, motchi, carpentry, tailoring, bike repairing etc work will be taken up so that their lives could be improved. The training programme of computer hardware/ software, mobile repairing work will also be planned according to the interest and education level of the educated young generation, so that with the seasonal agriculture income of their family, they can supplement the income during non agriculture season.

In every village of the project area, the self help groups of land less persons have also been formed. These groups will be trained according the their interest on different activities like Tailoring, Tomato Sauce Preparation, Honey Bee Production, Compost Pit, Pottery, manihari, kashidakra, masroom production etc, so that their livelihood can be increased. The groups will be trained on agriculture based activities like compost pit, vermi compost, pasture development etc according to their interest, so that they can prepare the product and can use on their own need and cat sell surplus. At the time of PRA, the people of the area have been acquainted with livestock based activities like milk collection booth, dairy, poultry etc.

Table 3.4.1 Proposed Development Plan / Convergence plan of Project

(A)			Preparatory Phase activityties capacity building training & EPA														
			WC 1					WC 2					Total				
Activity	Unit	Unit Cost	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
ADMINISTRATIVE COST	10%	-	1	29.55	29.550	0	0	1	29.55	29.550	0	0	2	59.1	59.1	0	0
MONETERING	1%	-	1	2.955	2.955	0	0	1	2.955	2.955	0	0	2	5.91	5.91	0	0
EVALUATION	1%	-	1	2.955	2.955	0	0	1	2.955	2.955	0	0	2	5.91	5.91	0	0
ENTRY POINT ACTIVITY	4%	-	1	11.82	11.820	0	0	1	11.82	11.820	0	0	2	23.64	23.64	0	0
TRAININGS & CAPACITY BUILDING	5%	-	15	14.775	14.775	0	0	15	14.775	14.775	0	0	30	29.55	29.55	0	0
DETAILED PROJECT REPORT	1%	-	1	2.955	2.955	0	0	1	2.955	2.955	0	0	2	5.91	5.91	0	0
TOTAL A				**65.010**	**65.010**	**0.000**	**0.000**		**65.010**	**65.010**	**0.000**	**0.000**		**130**	**130.02**	**0**	**0**
W/S WORK PHASE (Natural resource management (60%)																	
Earthen Bund up to 1 ha & 1% Slope	No.	85000	45	38.07	38.070	0	3.81	75	34.380	34.380	38.25	3.44	120.24	110.70	72.450	38.25	7.25
Earthen Bund up to 3 ha & 1% Slope	No.	127000	20	25.40	25.400	0	2.54	11	13.970	13.970	0	1.4	31	39.37	39.37	0	3.94
Earthen Bund up to 5 ha & 1% Slope	No.	171000	7	3.42	3.420	8.55	0.34	8	13.680	13.680	0	1.37	15	25.65	17.1	8.55	1.71
Earthen Bund up to 10 ha & 1% Slope	No.	192000	0	0.00	0.000	0	0	0	0.000	0.000	0	0	0	0.00	0	0	0
Earthen Bund up to 1 ha & 1% to 3% Slope	No.	78000	2	1.56	1.560	0	0.16	9	7.020	7.020	0	0.7	11	8.58	8.58	0	0.86
Earthen Bund up to 3 ha & 1% to 3% Slope	No.	107000	0	0.00	0.000	0	0	6	6.420	6.420	0	0.64	6	6.42	6.42	0	0.64
Earthen Bund up to 5 ha & 1% to 3% Slope	No.	143000	0	0.00	0.000	0	0	5	0.000	0.000	7.15	0	5	7.15	0	7.15	0
Earthen Bund up to 10 ha & 1% to 3% Slope	No.	170000	0	0.00	0.000	0	0	1	1.700	1.700	0	0.17	1	1.70	1.7	0	0.17

Earthen Bund up to 1 ha & 3% to 5% Slope	No.	54000	2	1.08	1.080	0	0.11	2	1.080	1.080	0	0.11	4	2.16	2.16	0	0.22
Earthen Bund up to 3 ha & 3% to 5% Slope	No.	85000	4	3.40	3.400	0	0.34	2	1.700	1.700	0	0.17	6	5.10	5.1	0	0.51
Earthen Bund up to 5 ha & 3% to 5% Slope	No.	92000	10	9.20	9.200	0	0.92	0	0.000	0.000	0	0	10	9.20	9.2	0	0.92
Tanka 25000 lit Capacity	No.	129000	87	67.08	67.080	45.15	6.71	85	51.600	51.600	58.05	5.16	172	221.88	118.68	103.2	11.87
Tanka 35000 lit Capacity	No.	142000	15	0.00	0.000	21.3	0	30	7.100	7.100	35.5	0.71	45	63.90	7.1	56.8	0.71
Manary structure Type 1	No.	240000	0	0.00	0.000	0	0	1	2.400	2.400	0	0.24	1	2.40	2.4	0	0.24
Manary structure Type 2	No.	301000	2	6.02	6.020	0	0.6	2	6.020	6.020	0	0.6	4	12.04	12.04	0	1.2
Manary structure Type 3	No.	355000	0	0.00	0.000	0	0	1	3.550	3.550	0	0.36	1	3.55	3.55	0	0.36
Manary structure Type 4	No.	461000	2	9.22	9.220	0	0.92	3	13.830	13.830	0	1.38	5	23.05	23.05	0	2.3
Pasture Development 1 ha	No.	128500	0	0.00	0.000	0	0	0	0.000	0.000	0	0	0	0.00	0	0	0
Pasture Development 2 ha	No.	257000	0	0.00	0.000	0	0	0	0.000	0.000	0	0	0	0.00	0	0	0
Pasture Development 3 ha	No.	386000	0	0.00	0.000	0	0	0	0.000	0.000	0	0	0	0.00	0	0	0
Pasture Development 10 ha	No.	1285000	1	12.85	12.850	0	1.29	1	12.850	12.850	0	1.29	2	25.70	25.7	0	2.58
TOTAL B				**177.300**	**177.300**	**75.00**	**17.740**		**177.300**	**177.300**	**138.95**	**17.740**		**568.6**	**354.6**	**213.95**	**35.480**
LIVELIHOOD ACTIVIVITIES FOR ASSET LESS PERSON																	
TOOLKIT, TRAINING & REVOLVING FUND OF SHG				8.68	8.675	0	0	0	6.875	6.875	0	0	0	15.55	15.55	0	0
LIVESTOCK MANAGEMENT																	
Animal Health Camp	No.	10000	30	3.00	2.10	0.00	0.90	30	3.00	2.10	0.00	0.90	60	6.00	4.20	0.00	1.80
Artificial Insemination	No.	50	4000	2.00	1.40	0.00	0.60	4010	2.01	1.41	1.00	0.60	8010	4.01	2.81	0.00	1.20
Animal Fodder Feed Vessel	No.	1000	371	3.71	2.60	0.00	1.11	628	6.28	4.40	2.00	1.88	999	9.99	7.00	0.00	2.99

PRODUCTION SYSTEM & MICROENTERPRISES																	
Crop Demo. Kharif	No.	1664	400	6.66	4.66	0.00	2.00	500	8.32	5.82	0.00	2.50	900	14.98	10.48	0.00	4.50
Crop Demo Rabi	No.	2454	400	9.82	6.87	0.00	2.95	250	6.14	4.30	0.00	1.84	650	15.96	11.17	0.00	4.79
Soil Testing	No.	70	506	0.35	0.25	0.00	0.10	1200	0.84	0.59	0.00	0.25	1706	1.19	0.84	0.00	0.35
Compost Pit	No.	800	831	6.65	4.66	0.00	1.99	700	5.60	3.92	0.00	1.68	1531	12.25	8.58	0.00	3.67
Horticulture Plantation	No.	990	1740	17.23	12.06	0.00	5.17	1846	18.28	12.80	0.00	5.48	3586	35.51	24.86	0.00	10.65
Agro Forestry or Horticlyure plantation backyard	No.	150	1000	1.50	1.05	0.00	0.45	2003	3.00	2.10	0.00	0.90	3003	4.50	3.15	0.00	1.35
Newsletter Subscription	No.	18	35	0.006	0.004	0.00	0.00	200	0.036	0.025	0.00	0.01	235	0.04	0.03	0.00	0.01
TOTAL C	**-**	**-**	**-**	**59.601**	**44.329**	**0**	**15.272**		**60.381**	**44.34**	**3**	**16.041**	**-**	**120**	**88.67**	**0**	**31.31**
CONSOLIDATED PHASE	3%	-	1	8.87	8.865	0	0	1	8.86	8.86	0	0	2	17.73	17.725	0	0
GRAND TOTAL	**-**	**-**	**-**	**310.78**	**295.50**	**75.00**	**33.01**		**311.55**	**295.51**	**141.95**	**33.78**	**-**	**836.3**	**591.01**	**213.95**	**66.79**

Table 3.4.2 Activity wise Total Abstract of Cost

		Unit Cost	Quantity	Total Cost	Cost from project fund	Convergence Fund	Beneficiary Contribution*
ADMINISTRATIVE COST	10%	-	2	59.100	59.100	0.000	0.000
MONETERING	1%	-	2	5.910	5.910	0.000	0.000
EVALUATION	1%	-	2	5.910	5.910	0.000	0.000
ENTRY POINT ACTIVITY	4%	-	2	23.640	23.640	0.000	0.000
TRAININGS & CAPACITY BUILDING	5%	-	30	29.550	29.550	0.000	0.000
DETAILED PROJECT REPORT	1%	-	2	5.910	5.910	0.000	0.000
TOTAL A			0	130.020	130.020	0.000	0.000
W/S WORK PHASE (Natural resource management (60%)							
Earthen Bund / Structure	No.	85000	209	216.03	162.08	53.95	16.22
Tanka / Farm Pond	No.	129000	217	285.78	125.78	160.00	12.58
Masonary structure	No.	240000	11	41.04	41.04	0.00	4.10
Pasture Development	No.	128500	2	26.00	26.00	0.00	3.00
TOTAL B			0	568.55	354.60	213.95	35.48
LIVELIHOOD ACTIVIVITIES FOR ASSET LESS PERSON							
TOOLKIT, TRAINING & REVOLVING FUND OF SHG			0	15.55	15.55	0.00	0.00
LIVESTOCK MANAGEMENT							
LIVESTOCK MANAGEMENT	No.	9069.40	20	20.00	14.01	5.99	
PRODUCTION SYSTEM & MICROENTERPRISES							
PRODUCTION SYSTEM & MICROENTERPRISES	No.	11611	84.432	84.43	59.11	25.32	
TOTAL C	-	-	-	119.98	88.67	31.31	
CONSOLIDATED PHASE	3%	-	2	17.73	17.73	0.00	0.00
GRAND TOTAL	-	-	-	867.59	591.01	276.58	35.48

* Tentative and will vary during execution according to beneficiary

Table 3.4.3 Yearwise planning of Project Activity for Village Rajola Kalan

Name of the W. C.	**Rajola Kalan**		**Macro/Micro**	39/1B	**Geographical Area**		Ha
Village Name	Rajola Kalan		**Scheme**	IWMP	**Effective Area**	1970	Ha
Block	Sojat		**Date of Sanction**	30.01.2009	**Total Arable land**		Ha
District.	Pali		**Date of Appoval of the work plan**	15.09.2010	**1. Irrigated**	8	Ha
Village Covered	1	NO.			**2. Unirrigated**	1747	Ha
Project outlay	295.5	LAC	**No. of SHG's formed**	3	**Total Nonarable land**		Ha
Total Area	1970.00	Hactare	**No. of UG's formed**	7	**1. Pasture**	25	Ha
No. of WC's formed	1				**2. Govt. / waste /OTHER LAND**	190	Ha

YEARWISE WORK PLAN OF WATERSHED COMMITTEE

S. N.	NAME OF ACTIVITY	TARGET			2010-11 FIRST YEAR		2011-12 SECOND YEAR		2012-13 THIRD YEAR		2013-14 FOURTH YEAR		2014-15 FIFTH YEAR		TOTAL	
		QTY.	RATE	AMOUNT	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN
I.	**ADMINISTRATIVE COST**	**10%**	**29.55**													
1	WDT MANDEYA & OFFICE EXP OF PIA			14.775												**14.775**
2	W C SEC MANDEYA & OFFICE EXP OF WC			14.775												**14.775**
	SUB TOTAL			**29.550**		**0.000**		**0.000**		**0.000**		**0.000**		**0.000**		**29.550**
II	**MONETERING**	**1%**	**2.955**	2.955												**2.955**
III	**EVALUATION**	**1%**	**2.955**	2.955												**2.955**
TOTAL				**35.460**		**0.000**		**0.000**		**0.000**		**0.000**		**0.000**		**35.460**
	W/S PREPARATORY PHASE															
IV	**ENTRY POINT ACTIVITY**	**4%**	**11.820**	11.820												
1	Nadi	2		4.570											**1**	**4.570**
2	Tanka	5	70000	3.500											**0**	**3.500**
3	Solar Light		25000	3.750											**0**	**3.750**
TOTAL				**11.820**		**0.000**		**0.000**		**0.000**		**0.000**		**0.000**		**11.820**
V	**TRAININGS & CAPACITY BUILDING**	**5%**	**14.775**													
1	**USERS GROUP**															
(i)	KHARIF	5		1.500											**5**	**1.500**
(ii)	RABI	5		2.275											**5**	**2.275**
(iii)	HORTICULTURE	5		3.000											**5**	**3.000**

S. N.	NAME OF ACTIVITY	TARGET			2010-11 FIRST YEAR		2011-12 SECOND YEAR		2012-13 THIRD YEAR		2013-14 FOURTH YEAR		2014-15 FIFTH YEAR		TOTAL	
		QTY.	RATE	AMOUNT	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN
(iv)	PASTURE DEVLOPMENT	4		3.000											**4**	**3.000**
2	OTHERS TRAINING & CO	21		5.000											**21**	**5.000**
TOTAL				**14.775**		**0.000**		**0.000**		**0.000**	**0**	**0.000**	**0**	**0.000**	**40**	**14.775**
VI	**DETAILED PROJECT REPORT**	**1%**	**2.955**	**2.955**	**1**	**2.955**		**0.000**		**0.000**		**0.000**		**0.000**		**2.955**
TOTAL			**3**	**2.955**	**1**	**2.955**		**0.000**		**0.000**		**0.000**		**0.000**	**1**	**2.955**
	TOTAL			**29.550**		**2.955**		**0.000**		**0.000**		**0.000**		**0.000**		**29.550**
	W/S WORK PHASE															
VII	**NRM**	**60%**	**177.300**	**0.000**												
(i)	Earthen Bund up to 1 ha & 1% Slope	45	85000	38.070	4	3.807	13	11.421	13	11.421	9	7.614	4	3.807	**45**	**38.070**
	Earthen Bund up to 3 ha & 1% Slope	20	127000	25.400	2	2.540	6	7.620	6	7.620	4	5.080	2	2.540	**20**	**25.400**
	Earthen Bund up to 5 ha & 1% Slope	2	171000	3.420	0	0.342	1	1.026	1	1.026	0	0.684	0	0.342	**2**	**3.420**
	Earthen Bund up to 10 ha & 1% Slope	0	192000	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
	Earthen Bund up to 1 ha & 1% to 3% Slope	2	78000	1.560	0	0.156	1	0.468	1	0.468	0	0.312	0	0.156	**2**	**1.560**
	Earthen Bund up to 3 ha & 1% to 3% Slope	0	107000	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
	Earthen Bund up to 5 ha & 1% to 3% Slope	0	143000	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
	Earthen Bund up to 10 ha & 1% to 3% Slope	0	170000	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
	Earthen Bund up to 1 ha & 3% to 5% Slope	2	54000	1.080	0	0.000	1	0.540	1	0.540	0	0.000	0	0.000	**2**	**1.080**
	Earthen Bund up to 3 ha & 3% to 5% Slope	4	85000	3.400	0	0.340	1	1.020	1	1.020	1	0.680	0	0.340	**4**	**3.400**
	Earthen Bund up to 5 ha & 3% to 5% Slope	10	92000	9.200	1	0.920	3	2.760	3	2.760	2	1.840	1	0.920	**10**	**9.200**
(ii)	Tanka 25000 lit Capacity	52	129000	67.080	10	12.900	15	19.350	15	19.350	5	6.450	7	9.030	**52**	**67.080**
(iii)	Tanka 35000 lit Capacity	0	142000	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
(iv)	Manary structure Type 1	0	240000	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
(v)	Manary structure Type 2	2	301000	6.020	0	0.000	1	3.010	0	0.000	1	3.010	0	0.000	**2**	**6.020**
(vi)	Manary structure Type 3	0	355000	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
(vii)	Manary structure Type 4	2	461000	9.220	0	0.922	1	2.766	1	2.766	0	1.844	0	0.922	**2**	**9.220**

S. N.	NAME OF ACTIVITY	TARGET			2010-11 FIRST YEAR		2011-12 SECOND YEAR		2012-13 THIRD YEAR		2013-14 FOURTH YEAR		2014-15 FIFTH YEAR		TOTAL	
		QTY.	RATE	AMOUNT	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN
(viii)	Pasture Development 1 ha	0	128500	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
(ix)	Pasture Development 2 ha	0	257000	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
(x)	Pasture Development 3 ha	0	386000	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
(xi)	Pasture Development 10 ha	1	1285000	12.850	0	0.000	0	3.855	0	3.855	0	2.570	0	2.570	**1**	**12.850**
TOTAL		**213**		**177.300**	**6**	**6.875**	**22**	**22.860**	**93**	**21.352**	**56**	**14.307**	**37**	**7.872**	**213**	**177.300**
VIII	**LIVELIHOOD ACTIVIVITIES FOR ASSET LESS PERSON**		**14.775**													
1	TOOLKIT, TRAINING & REVOLVING FUND OF SHG			8.675												**8.675**
2	**LIVESTOCK MANAGEMENT**			0.000												
(ix)	Animal Health Camp	30	7000	2.100	6	0.420	6	0.420	6	0.420	6	0.420	6	0.420	**30**	**2.100**
(xi)	Artificial Insemination	4000	35	1.400	800	0.280	800	0.280	800	0.280	800	0.280	800	0.280	**4000**	**1.400**
(xii)	Animal Fodder Feed Vessel	371	700	2.600	70	0.490	70	0.490	70	0.490	80	0.560	81	0.570	**371**	**2.600**
TOTAL				**14.775**		**1.190**		**1.190**		**1.190**		**1.260**		**1.270**	**4401**	**14.775**
IX	**PRODUCTION SYSTEM & MICROENTERPRISES**		**29.550**													
1	Crop Demo. Kharif	400	1165	4.660	80	0.932	80	0.932	80	0.932	80	0.932	80	0.932	**400**	**4.660**
2	Crop Demo Rabi	400	1718	6.872	80	1.374	80	1.374	80	1.374	80	1.374	80	1.374	**400**	**6.872**
3	Soil Testing	506	49	0.248	250	0.123	256	0.125							**506**	**0.248**
4	Compost Pit	831	560	4.654	100	0.560	200	1.120	200	1.120	200	1.120	131	0.734	**831**	**4.654**
5	Horticulture Plantation	1740	693	12.061	350	2.426	350	2.426	350	2.426	350	2.426	340	2.358	**1740**	**12.060**
6	Agro Forestry or Horticlyure plantation backyard	1000	105	1.050	200	0.210	400	0.420	300	0.315	100	0.105		0.000	**1000**	**1.050**
7	Newsletter Subscription	35	13	0.005	35	0.006		0.000		0.000		0.000		0.000	**35**	**0.006**
TOTAL		**4912**		**29.550**		**5.630**		**6.397**		**6.167**		**5.957**		**5.398**	**4877**	**29.550**
X	**CONSOLIDATED PHASE**	**3%**	**8.865**	**8.865**								**5.319**		**3.546**		**8.865**
	GRAND TOTAL			**295.500**		**48.97**		**56.60**		**57.20**		**56.31**		**41.27**		**295.500**

Table 3.4.4 Yearwise planning of Project Activity for Village Lanera

Name of the W. C.	**Lanera**		**Macro/Micro**	38/1B,2, 39/1B	**Geographical Area**		Ha
Village Name	Lanera		**Scheme**	IWMP	**Effective Area**	1970	Ha
Block	Sojat		**Date of Sanction**	30.01.2009	**Total Arable land**		Ha
District.	Pali		**Date of Appoval of the work plan**	15.09.2010	**1. Irrigated**	13	Ha
Village Covered	1	NO.			**2. Unirrigated**	1871	Ha
Project outlay	295.5	LAC	**No. of SHG's formed**	3	**Total Nonarable land**		Ha
Total Area	1970.00	Hactare	**No. of UG's formed**	7	**1. Pasture**	86	Ha
No. of WC's formed	1				**2. Govt. / waste /OTHER LAND**	0	Ha

YEARWISE WORK PLAN OF WATERSHED COMMITTEE

S. N.	NAME OF ACTIVITY	TARGET			2010-11 FIRST YEAR		2011-12 SECOND YEAR		2012-13 THIRD YEAR		2013-14 FOURTH YEAR		2014-15 FIFTH YEAR		TOTAL	
		QTY.	RATE	AMOUNT	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN
I.	**ADMINISTRATIVE COST**	**10%**	**29.55**													
1	WDT MANDEYA & OFFICE EXP OF PIA			14.775												**14.775**
2	W C SEC MANDEYA & OFFICE EXP OF WC			14.775												**14.775**
	SUB TOTAL			**29.550**												**29.550**
II	**MONETERING**	**1%**	**2.955**	2.955												**2.955**
III	**EVALUATION**	**1%**	**2.955**	2.955												**2.955**
TOTAL				**35.460**		**0.000**		**0.000**		**0.000**		**0.000**		**0.000**		**35.460**
	W/S PREPARATORY PHASE															
IV	**ENTRY POINT ACTIVITY**	**4%**	**11.820**	11.820												
1	Talab Feeder	1	270000	2.700											**0**	**2.700**
2	Diversion Channel	2	130000	5.370											**0**	**5.370**
3	Solar Light	15	25000	3.750											**0**	**3.750**
TOTAL				**11.820**		**0.000**		**0.000**		**0.000**		**0.000**		**0.000**		**11.820**
V	**TRAININGS & CAPACITY BUILDING**	**5%**	**14.775**													
1	**USERS GROUP**															
(i)	KHARIF	50		2.500											**50**	**2.500**
(ii)	RABI	50		2.400											**50**	**2.400**
(iii)	HORTICULTURE	50		2.000											**50**	**2.000**

S. N.	NAME OF ACTIVITY	TARGET			2010-11 FIRST YEAR		2011-12 SECOND YEAR		2012-13 THIRD YEAR		2013-14 FOURTH YEAR		2014-15 FIFTH YEAR		TOTAL	
		QTY.	RATE	AMOUNT	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN
(iv)	PASTURE DEVLOPMENT	40		2.000											**40**	**2.000**
2	OTHERS TRAINING & CO	232		5.875											**232**	**5.875**
TOTAL				**14.775**		**0.000**		**0.000**		**0.000**	**0**	**0.000**	**0**	**0.000**	**422**	**14.775**
VI	**DETAILED PROJECT REPORT**	**1%**	**2.955**	**2.955**	**1**	**2.955**		**0.000**		**0.000**		**0.000**		**0.000**		**2.955**
TOTAL			**3**	**2.955**	**1**	**2.955**		**0.000**		**0.000**		**0.000**		**0.000**	**1**	**2.955**
	TOTAL			**29.550**		**2.955**		**0.000**		**0.000**		**0.000**		**0.000**		**29.550**
	W/S WORK PHASE															
VII	**NRM**	**60%**	**177.300**	**0.000**												
(i)	Earthen Bund up to 1 ha & 1% Slope	40	85000	34.380	4	3.438	12	10.314	12	10.314	8	6.876	4	3.438	**40**	**34.380**
	Earthen Bund up to 3 ha & 1% Slope	11	127000	13.970	1	1.397	3	4.191	3	4.191	2	2.794	1	1.397	**11**	**13.970**
	Earthen Bund up to 5 ha & 1% Slope	8	171000	13.680	1	1.368	2	4.104	2	4.104	2	2.736	1	1.368	**8**	**13.680**
	Earthen Bund up to 10 ha & 1% Slope	0	192000	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
	Earthen Bund up to 1 ha & 1% to 3% Slope	9	78000	7.020	1	0.702	3	2.106	3	2.106	2	1.404	1	0.702	**9**	**7.020**
	Earthen Bund up to 3 ha & 1% to 3% Slope	6	107000	6.420	1	0.642	2	1.926	2	1.926	1	1.284	1	0.642	**6**	**6.420**
	Earthen Bund up to 5 ha & 1% to 3% Slope	0	143000	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
	Earthen Bund up to 10 ha & 1% to 3% Slope	1	170000	1.700	0	0.170	0	0.510	0	0.510	0	0.340	0	0.170	**1**	**1.700**
	Earthen Bund up to 1 ha & 3% to 5% Slope	2	54000	1.080	0	0.108	1	0.324	1	0.324	0	0.216	0	0.108	**2**	**1.080**
	Earthen Bund up to 3 ha & 3% to 5% Slope	2	85000	1.700	0	0.170	1	0.510	1	0.510	0	0.340	0	0.170	**2**	**1.700**
	Earthen Bund up to 5 ha & 3% to 5% Slope	0	92000	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
(ii)	Tanka 25000 lit Capacity	40	129000	51.600	5	6.450	15	19.350	15	19.350	5	6.450	0	0.000	**40**	**51.600**
(iii)	Tanka 35000 lit Capacity	5	142000	7.100	1	1.420	2	2.840	2	2.840	0	0.000	0	0.000	**5**	**7.100**
(iv)	Manary structure Type 1	1	240000	2.400	0	0.000	0	0.000	1	2.400	0	0.000	0	0.000	**1**	**2.400**
(v)	Manary structure Type 2	2	301000	6.020	0	0.000	1	3.010	1	3.010	0	0.000	0	0.000	**2**	**6.020**
(vi)	Manary structure Type 3	1	355000	3.550	0	0.000	1	3.550	0	0.000	0	0.000	0	0.000	**1**	**3.550**
(vii)	Manary structure Type 4	3	461000	13.830	0	0.000	1	4.610	1	4.610	1	4.610	0	0.000	**3**	**13.830**

S. N.	NAME OF ACTIVITY	TARGET			2010-11 FIRST YEAR		2011-12 SECOND YEAR		2012-13 THIRD YEAR		2013-14 FOURTH YEAR		2014-15 FIFTH YEAR		TOTAL	
		QTY.	RATE	AMOUNT	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN
(viii)	Pasture Development 1 ha	0	128500	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
(ix)	Pasture Development 2 ha	0	257000	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
(x)	Pasture Development 3 ha	0	386000	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
(xi)	Pasture Development 10 ha	1	1285000	12.850	0	0.000	0	3.855	0	3.855	0	2.570	0	2.570	**1**	**12.850**
TOTAL		**213**		**177.300**	**6**	**6.875**	**22**	**22.860**	**93**	**21.352**	**56**	**14.307**	**37**	**7.872**	**213**	**177.300**
VIII	**LIVELIHOOD ACTIVIVITIES FOR ASSET LESS PERSON**		**14.775**													
1	TOOLKIT, TRAINING & REVOLVING FUND OF SHG			6.875											**0**	**6.875**
2	**LIVESTOCK MANAGEMENT**			0.000												
(ix)	Animal Health Camp	30	7000	2.100	4	0.280	10	0.700	10	0.700	4	0.280	2	0.140	**30**	**2.100**
(xi)	Artificial Insemination	4010	35	1.404	1000	0.350	1000	0.350	1000	0.350	500	0.175	510	0.179	**4010**	**1.404**
(xii)	Animal Fodder Feed Vessel	628	700	4.396	100	0.700	100	0.700	150	1.050	150	1.050	128	0.896	**628**	**4.396**
TOTAL				**14.775**		**1.330**		**1.750**		**2.100**		**1.505**		**1.215**	**4668**	**14.775**
IX	**PRODUCTION SYSTEM & MICROENTERPRISES**		**29.550**													
1	Crop Demo. Kharif	500	1165	5.825	100	1.165	100	1.165	100	1.165	100	1.165	100	1.165	**500**	**5.825**
2	Crop Demo Rabi	250	1718	4.295	50	0.859	50	0.859	50	0.859	50	0.859	50	0.859	**250**	**4.295**
3	Soil Testing	1200	49	0.588	600	0.294	600	0.294							**1200**	**0.588**
4	Compost Pit	700	560	3.920	150	0.840	150	0.840	150	0.840	150	0.840	100	0.560	**700**	**3.920**
5	Horticulture Plantation	1846	693	12.793	500	3.465	500	3.465	500	3.465	346	2.398		0.000	**1846**	**12.793**
6	Agro Forestry or Horticlyure plantation backyard	2003	105	2.103	250	0.263	750	0.788	750	0.788	254	0.267		0.000	**2004**	**2.104**
7	Newsletter Subscription	200	13	0.026	100	0.013	100	0.013		0.000		0.000		0.000	**200**	**0.026**
TOTAL		**6699**		**29.550**		**6.899**		**7.424**		**7.117**		**5.528**		**2.584**	**6500**	**29.551**
X	**CONSOLIDATED PHASE**	**3%**	**8.865**	**8.865**								**5.319**		**3.546**		**8.865**
	GRAND TOTAL			**295.500**		**48.97**		**56.60**		**57.20**		**56.31**		**41.27**		**295.500**

Table 3.4.5 Yearwise planning of Project Activity for Watershed Jodhpur Pali II

Name of the W. C.	**Gaguda**		**Macro/Micro**		**Geographical Area**		Ha
Project	IWMP I		**Scheme**	IWMP	**Effective Area**	3940	Ha
Block	Sojat		**Date of Sanction**		**Total Arable land**		Ha
District.	Pali		**Date of Appoval of the work plan**	28.03.2011	**1. Irrigated**	21	Ha
Village Covered	3	NO.			**2. Unirrigated**	3618	Ha
Project outlay	591	LAC	**No. of SHG's formed**	9	**Total Nonarable land**		Ha
Total Area	3940.00	Hactare	**No. of UG's formed**	21	**1. Pasture**	111	Ha
No. of WC's formed	1				**2. Govt. / waste /OTHER LAND**	190	Ha

YEARWISE WORK PLAN OF WATERSHED COMMITTEE

S. N.	NAME OF ACTIVITY	TARGET			2010-11 FIRST YEAR		2011-12 SECOND YEAR		2012-13 THIRD YEAR		2013-14 FOURTH YEAR		2014-15 FIFTH YEAR		TOTAL	
		QTY.	RATE	AMOUNT	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN
I.	**ADMINISTRATIVE COST**	**10%**	**59.1**													
1	WDT MANDEYA & OFFICE EXP OF PIA			29.550												**29.550**
2	W C SEC MANDEYA & OFFICE EXP OF WC			29.550												**29.550**
	SUB TOTAL			**59.100**		**0.000**		**0.000**		**0.000**		**0.000**		**0.000**		**59.100**
II	**MONETERING**	**1%**	**5.910**	5.910												**5.910**
III	**EVALUATION**	**1%**	**5.910**	5.910												**5.910**
TOTAL				**70.920**		**0.000**		**0.000**		**0.000**		**0.000**		**0.000**		**70.920**
	W/S PREPARATORY PHASE															
IV	**ENTRY POINT ACTIVITY**	**4%**	**23.640**	23.640												
1	Tanka cum Water Hut	3	175000.0	7.27											**0**	**7.270**
2	Roofwater Harvesting R G E Gram	7	89000.0	8.87											**0**	**8.870**
3	Solar Light	15		7.50												**7.500**
TOTAL				**23.640**		**0.000**		**0.000**		**0.000**		**0.000**		**0.000**		**23.640**
V	**TRAININGS & CAPACITY BUILDING**	**5%**	**29.550**													
1	**USERS GROUP**															
(i)	KHARIF	55		4.000											**55**	**4.000**
(ii)	RABI	55		4.675											**55**	**4.675**

S. N.	NAME OF ACTIVITY	TARGET			2010-11 FIRST YEAR		2011-12 SECOND YEAR		2012-13 THIRD YEAR		2013-14 FOURTH YEAR		2014-15 FIFTH YEAR		TOTAL	
		QTY.	RATE	AMOUNT	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN
(iii)	HORTICULTURE	55		5.000											**55**	**5.000**
(iv)	PASTURE DEVLOPMENT	44		5.000											**44**	**5.000**
2	OTHERS TRAINING & CO	253		10.875											**253**	**10.875**
TOTAL				**29.550**		**0.000**		**0.000**		**0.000**	**0**	**0.000**	**0**	**0.000**	**462**	**29.550**
VI	**DETAILED PROJECT REPORT**	**1%**	**5.910**	**5.910**	**1**	**5.910**		**0.000**		**0.000**		**0.000**		**0.000**		**5.910**
TOTAL			**6**	**5.910**	**1**	**5.910**		**0.000**		**0.000**		**0.000**		**0.000**	**1**	**5.910**
	TOTAL			**59.100**		**5.910**		**0.000**		**0.000**		**0.000**		**0.000**		**59.100**
	W/S WORK PHASE															
VII	**NRM**	**60%**	**354.600**	**0.000**												
(i)	Earthen Bund up to 1 ha & 1% Slope	85	85000	72.450	9	7.245	26	21.735	26	21.735	17	14.490	9	7.245	**85**	**72.450**
	Earthen Bund up to 3 ha & 1% Slope	31	127000	39.370	3	3.937	9	11.811	9	11.811	6	7.874	3	3.937	**31**	**39.370**
	Earthen Bund up to 5 ha & 1% Slope	10	171000	17.100	1	1.710	3	5.130	3	5.130	2	3.420	1	1.710	**10**	**17.100**
	Earthen Bund up to 10 ha & 1% Slope	0	192000	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
	Earthen Bund up to 1 ha & 1% to 3% Slope	11	78000	8.580	1	0.858	3	2.574	3	2.574	2	1.716	1	0.858	**11**	**8.580**
	Earthen Bund up to 3 ha & 1% to 3% Slope	6	107000	6.420	1	0.642	2	1.926	2	1.926	1	1.284	1	0.642	**6**	**6.420**
	Earthen Bund up to 5 ha & 1% to 3% Slope	0	143000	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
	Earthen Bund up to 10 ha & 1% to 3% Slope	1	170000	1.700	0	0.170	0	0.510	0	0.510	0	0.340	0	0.170	**1**	**1.700**
	Earthen Bund up to 1 ha & 3% to 5% Slope	4	54000	2.160	0	0.108	2	0.864	2	0.864	0	0.216	0	0.108	**4**	**2.160**
	Earthen Bund up to 3 ha & 3% to 5% Slope	6	85000	5.100	1	0.510	2	1.530	2	1.530	1	1.020	1	0.510	**6**	**5.100**
	Earthen Bund up to 5 ha & 3% to 5% Slope	10	92000	9.200	1	0.920	3	2.760	3	2.760	2	1.840	1	0.920	**10**	**9.200**
(ii)	Tanka 25000 lit Capacity	92	129000	118.680	15	19.350	30	38.700	30	38.700	10	12.900	7	9.030	**92**	**118.680**
(iii)	Tanka 35000 lit Capacity	5	142000	7.100	1	1.420	2	2.840	2	2.840	0	0.000	0	0.000	**5**	**7.100**
(iv)	Manary structure Type 1	1	240000	2.400	0	0.000	0	0.000	1	2.400	0	0.000	0	0.000	**1**	**2.400**
(v)	Manary structure Type 2	4	301000	12.040	0	0.000	2	6.020	1	3.010	1	3.010	0	0.000	**4**	**12.040**
(vi)	Manary structure Type 3	1	355000	3.550	0	0.000	1	3.550	0	0.000	0	0.000	0	0.000	**1**	**3.550**

S. N.	NAME OF ACTIVITY	TARGET			2010-11 FIRST YEAR		2011-12 SECOND YEAR		2012-13 THIRD YEAR		2013-14 FOURTH YEAR		2014-15 FIFTH YEAR		TOTAL	
		QTY.	RATE	AMOUNT	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN	PHY	FIN
(vii)	Manary structure Type 4	5	461000	23.050	0	0.922	2	7.376	2	7.376	1	6.454	0	0.922	**5**	**23.050**
(viii)	Pasture Development 1 ha	0	128500	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
(ix)	Pasture Development 2 ha	0	257000	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
(x)	Pasture Development 3 ha	0	386000	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	**0**	**0.000**
(xi)	Pasture Development 10 ha	2	1285000	25.700	0	0.000	1	7.710	1	7.710	0	5.140	0	5.140	**2**	**25.700**
TOTAL		**213**		**354.600**	**6**	**6.875**	**22**	**22.860**	**93**	**21.352**	**56**	**14.307**	**37**	**7.872**	**213**	**354.600**
VIII	**LIVELIHOOD ACTIVIVITIES FOR ASSET LESS PERSON**		**29.550**													
1	TOOLKIT, TRAINING & REVOLVING FUND OF SHG			15.550												**15.550**
2	**LIVESTOCK MANAGEMENT**															
(ix)	Animal Health Camp	60	7000	4.200	10	0.700	16	1.120	16	1.120	10	0.700	8	0.560	**60**	**4.200**
(xi)	Artificial Insemination	8010	35	2.804	1800	0.630	1800	0.630	1800	0.630	1300	0.455	1310	0.459	**8010**	**2.804**
(xii)	Animal Fodder Feed Vessel	999	700	6.996	170	1.190	170	1.190	220	1.540	230	1.610	209	1.466	**999**	**6.996**
TOTAL				**29.550**		**2.520**		**2.940**		**3.290**		**2.765**		**2.484**	**9069**	**29.549**
IX	**PRODUCTION SYSTEM & MICROENTERPRISES**		**59.100**													
1	Crop Demo. Kharif	900	1165	10.485	180	2.097	180	2.097	180	2.097	180	2.097	180	2.097	**900**	**10.485**
	Crop Demo Rabi	650	1718	11.167	130	2.233	130	2.233	130	2.233	130	2.233	130	2.233	**650**	**11.167**
	Soil Testing	1706	49	0.836	850	0.417	856	0.419	0	0.000	0	0.000	0	0.000	**1706**	**0.836**
	Compost Pit	1531	560	8.574	250	1.400	350	1.960	350	1.960	350	1.960	231	1.294	**1531**	**8.574**
2	Horticulture Plantation	3586	693	24.854	850	5.891	850	5.891	850	5.891	696	4.823	340	2.358	**3586**	**24.853**
3	Agro Forestry or Horticlyure plantation backyard	3003	105	3.153	450	0.473	1150	1.208	1050	1.103	354	0.372	0	0.000	**3004**	**3.154**
4	Newsletter Subscription	235	13	0.031	135	0.019	100	0.013	0	0.000	0	0.000	0	0.000	**235**	**0.032**
TOTAL		**11611**		**59.100**		**12.529**		**13.821**		**13.283**		**11.485**		**7.982**	**11377**	**59.101**
X	**CONSOLIDATED PHASE**	**3%**	**17.730**	**17.730**								**10.638**		**7.092**		**17.730**
	GRAND TOTAL			**591.000**		**48.97**		**56.60**		**57.20**		**56.31**		**41.27**		**591.000**

CHAPTER IV
Budgeting

The first step in budgeting is dividing the cost of the project into various component s as detailed in the common guidelines and done accordingly in table no. 4.1.1 It helps us in further identifying activities under different components and allocate appropriate funds.

Table 4.1.1 Fund outlay of whole Project

Instalment	Agency	Adm	Monitoring	Evaluation	EPA	I&CB	DPR	Watershed Work	Livelihoods Production system & Micro Enterprise	Consolidation	Total
	SLNA		0.30	1.77		1.18					**3.25**
	WCDC		0.59			2.95					**3.54**
	PIA	5.91	0.30		23.64	13.60	5.91		11.82		**61.18**
	WC	5.91						44.33			**50.24**
1st (20%)	**TOTAL**	**11.82**	**1.18**	**1.77**	**23.64**	**17.73**	**5.91**	**44.33**	**11.82**	**0.00**	**118.21**
	SLNA		0.44	2.07		0.59					**3.10**
	WCDC		1.18			1.48					**2.66**
	PIA	15.96	0.74			6.80			59.09		**82.59**
	WC	15.96						191.20			**207.16**
Iind (50%)	**TOTAL**	**31.91**	**2.36**	**2.07**	**0.00**	**8.87**	**0.00**	**191.20**	**59.09**	**0.00**	**295.51**
	SLNA		0.45	2.07						0.59	**3.11**
	WCDC		1.19			0.89				0.59	**2.67**
	PIA	7.69	0.74			2.07			17.74	1.18	**29.42**
	WC	7.69						119.07		15.36	**142.12**
IIIrd (30%)	**TOTAL**	**15.37**	**2.37**	**2.07**	**0.00**	**2.95**	**0.00**	**119.07**	**17.74**	**17.73**	**177.32**
	SLNA		1.19	5.91		1.77				0.59	**9.46**
	WCDC		2.96			5.32				0.59	**8.87**
	PIA	29.56	1.78		23.64	22.47	5.91		88.65	1.18	**173.19**
	WC	29.56						354.60		15.36	**399.52**
Total (100%)	**TOTAL**	**59.10**	**5.91**	**5.91**	**23.64**	**29.55**	**5.91**	**354.60**	**88.65**	**17.73**	**591.00**

Table 4.1.2 Fund outlay for village Rajola Kalan

Instalment	Agency	Adm	Monitoring	Evaluation	EPA	I&CB	DPR	Watershed Work	Livelihoods Production system & Micro Enterprise	Consolidation	Total
	SLNA		0.15	0.89		0.59					**1.63**
	WCDC		0.30			1.48					**1.78**
	PIA	2.96	0.15		11.82	6.80	2.96		5.91		**30.60**
	WC	2.96						22.16			**25.12**
1st (20%)	**TOTAL**	**5.91**	**0.59**	**0.89**	**11.82**	**8.87**	**2.96**	**22.16**	**5.91**	**0.00**	**59.13**
	SLNA		0.22	1.04		0.30					**1.56**
	WCDC		0.59			0.74					**1.33**
	PIA	7.98	0.37			3.40			29.55		**41.30**
	WC	7.98						95.60			**103.58**
Iind (50%)	**TOTAL**	**15.96**	**1.18**	**1.04**	**0.00**	**4.43**	**0.00**	**95.60**	**29.55**	**0.00**	**147.77**
	SLNA		0.22	1.03						0.29	**1.54**
	WCDC		0.60			0.44				0.29	**1.33**
	PIA	3.84	0.37			1.04			8.87	0.59	**14.71**
	WC	3.84						59.54		7.69	**71.07**
IIIrd (30%)	**TOTAL**	**7.68**	**1.19**	**1.03**	**0.00**	**1.48**	**0.00**	**59.54**	**8.87**	**8.87**	**88.65**
	SLNA		0.59	2.96		0.89				0.29	**4.73**
	WCDC		1.49			2.66				0.29	**4.44**
	PIA	14.78	0.89		11.82	11.24	2.96		44.33	0.59	**86.61**
	WC	14.78						177.30		7.69	**199.77**
Total (100%)	**TOTAL**	**29.55**	**2.96**	**2.96**	**11.82**	**14.78**	**2.96**	**177.30**	**44.33**	**8.87**	**295.50**

Table 4.1.3 Fund outlay for the village Lanera

Instalment	Agency	Adm	Monitoring	Evaluation	EPA	I&CB	DPR	Watershed Work	Livelihoods Production system & Micro Enterprise	Consolidation	Total
	SLNA		0.15	0.89		0.59					**1.63**
	WCDC		0.30			1.48					**1.78**
	PIA	2.96	0.15		11.82	6.80	2.96		5.91		**30.60**
	WC	2.96						22.16			**25.12**
1st (20%)	**TOTAL**	**5.91**	**0.59**	**0.89**	**11.82**	**8.87**	**2.96**	**22.16**	**5.91**	**0.00**	**59.13**
	SLNA		0.22	1.04		0.30					**1.56**
	WCDC		0.59			0.74					**1.33**
	PIA	7.98	0.37			3.40			29.55		**41.30**
	WC	7.98						95.60			**103.58**
Iind (50%)	**TOTAL**	**15.96**	**1.18**	**1.04**	**0.00**	**4.43**	**0.00**	**95.60**	**29.55**	**0.00**	**147.77**
	SLNA		0.22	1.03						0.29	**1.54**
	WCDC		0.60			0.44				0.29	**1.33**
	PIA	3.84	0.37			1.04			8.87	0.59	**14.71**
	WC	3.84						59.54		7.69	**71.07**
IIIrd (30%)	**TOTAL**	**7.68**	**1.19**	**1.03**	**0.00**	**1.48**	**0.00**	**59.54**	**8.87**	**8.87**	**88.65**
	SLNA		0.59	2.96		0.89				0.29	**4.73**
	WCDC		1.49			2.66				0.29	**4.44**
	PIA	14.78	0.89		11.82	11.24	2.96		44.33	0.59	**86.61**
	WC	14.78						177.30		7.69	**199.77**
Total (100%)	**TOTAL**	**29.55**	**2.96**	**2.96**	**11.82**	**14.78**	**2.96**	**177.30**	**44.33**	**8.87**	**295.50**

CHAPTER - V
EXPECTED OUTCOMES

5.1.1 Employment

Employment has always been a problem in the village. The principal occupations of the people are dry land agriculture, animal husbandry and casual labour work. However, rain fall being very limited and erratic, agriculture suffers, i.e. at best they can take only a single crop, which keeps them partially engaged for about 4 months. Lack of fodder makes animal husbandry very difficult too. So, animal husbandry does not keep them engaged full time. Thus the people mainly depend upon casual labour, either in the village itself or outside it.

The project plans for creation of both wage employment and self employment opportunities. Wage employment would be created by engaging people in watershed physical works like construction of earthen bunds, farm bunds, village pond, plantation, etc. Self employment would be created by providing the people with cash support in the form of direct livelihood activities like agriculture, animal husbandry and enterprise development.

5.1.2.Migration

Low rainfall results in very little fodder availability in the locality. The relatively well off farmers bring fodder from Mehsana (approximately 500kms away) collectively; but the resource poor cannot afford it. On account of agriculture and animal husbandry providing only part time employment for some part of the year, the people migrate for a better half of the year for wage labour. Employment opportunities in the local area as mentioned above will ensure lessening seasonal migration from the area.

S.No.	Name of Village	No of Persons Migrating		No. of Days per year of Migrating	
		Pre project	Post Project	Pre project	Post Project
1	Rajora Kalan	68	5	150	25
2	Lanera	121	1	210	57

5.1.3 Ground water table

Rainfall has been scanty but demand for ground water has been increasing all the time. The ground water table thus has depleted over the years. Presently it stands at 250 to 400 ft as per house hold survey. Proper water harvesting structures and conservation work would go a long way in increasing water table depth from 250 to 400 ft in the pre-project level to 50-75 ft in the post project period.

5.1.4 Drinking water

The village depend for their drinking water on village pond, public supply etc. The quality of this water is not good and at the same time availabitiy is also not round the year. 60 Tankas will be made by project fund and many more will be made by convergence with schemes like NREGS during the project period thus increasing the availabity of good quality drinking water.

5.1.5 Crops

Agriculture primarily depends upon water; but this is what is lacking in the project area. The surface water is scanty due to low rainfall and ground water has gone deep.
All this can change with the integrated land and water management during the watershed project. The planned earthen bunds would preserve moisture in the soil. This will help in additional area coming under cultivation and increasing productivity too. The farmers can take more than one season of crops.

Name of Crop	Present Yield (Av of last 8 years)	Expected Yield in Post Project Phase
Wheat	2717	2989
Gram	759	835
Mustered	1140	1254
Taramira	622	684
Cumin	447	492
Bajra	682	750
Moong	277	305
Moth	222	244
Sesamum(Til)	388	427
Cotton	1951	2146

5.1.6 Horticulture

All the tanka constructed under the project outlay will be provided by atleat 50 horticulture plants. This will increase 3000 horticulture plant in the post project phase. Convergence will be done with Horticutlure department wihich will also increase horticulture plants in the project area, thus increasing the income of the project benificiery.

5.1.7 Livestock

The village has quite a good of livestock population. These include cows, bullocks, buffaloes and goats. The interventions like provision of AI. And other such related activities would spur up the dairy development in the village. It is expected that the post project period would see a substantial increase in livestock population and yield from them. It is expected that milk productin will increase by 10 to 15 percent.

5.1.8 Livelihood

The average income of person undertaking livelihood intervention under project activity will increase by 25 percent.

CHAPTER -VI
QUALITY AND SUSTAINABILITY ISSUES

6.1 Plans for Monitoring and Evaluation+

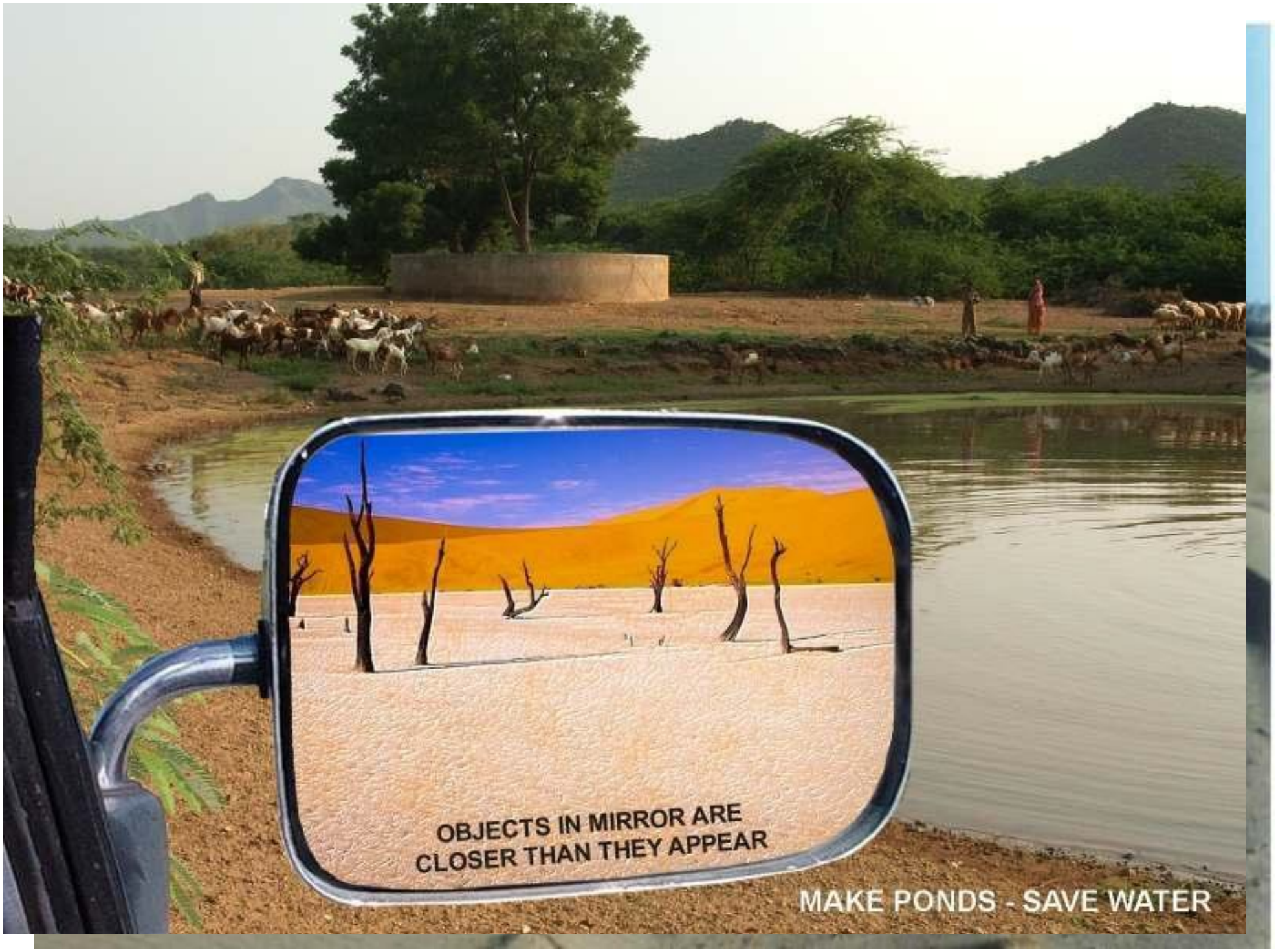
The project will be monitored by the Department System in which Monthly Progress Report, Quarterly Progress Report will be submitted to chech the pase of the project. Project will be closely monitored and evaluated by Panchyat Raj Institutes by Social Audits. Contribution of WDF wil also ensure quality of work executed.

6.2 Plans For Project management:

The Project management of any watershed programme is very important. It mainly depends upon the community organisation and the village level institutes. Watershed committee and various user group have been formulated for post project operation and maintenance of assets created during project period. Major emphasis will be on equity and sustainable benefit of the project even after implementation stage. A proper link-up will be built during project period with various institutes and capacity building organisation. They will act as a major kingpin during post implementation for scaling up the successful experience during project.

6.3 Watershed Development Fund:

The major source of financial assistance after post implementation period is watershed Development Fund. It will be contribut ed by the farmers of the project area who are directly benefited by the project.


OBJECTS IN MIRROR ARE
CLOSER THAN THEY APPEAR
MAKE PONDS - SAVE WATER

–: कार्य करवाने हेतु आवेदन :–

श्रीमान अध्यक्ष
जलग्रहण समिति
.....

विषयः– जलग्रहण परियोजना ..... के तहत कार्य करवाने हेतु।

महोदय,

1. मेरा खेत जलग्रहण परियोजना ..... में आता है जिसका खसरा सं.....है में ..... कार्य करवाना चाहता हूॅ।
2. मै सामान्य/एस.सी/एस.टी./बीपीएल वर्ग का काष्तकार हूॅ।
3. मै नियमानुसार अषंदान की राषि ..... नकद/श्रम/सामग्री के रूप में जमा करवाने के लिए तैयार हूॅ।
4. मेरे खेत में इससे पूर्व सरकार की किसी भी योजना से कोई कार्य नहीं करवाया गया है।
5. इस कार्य को करवाने के लिए आवष्यकतानुसार मेरे खेत से मिट्टी आदि उपयोग की जा सकती है।
6. कार्य पूर्ण होने के पष्चात् इस कार्य का पूर्ण रखरखाव करने की जिम्मेदारी मेरी होगीं।
7. टॉके के पास.....फलदार पौधें लगाने के लिए तैयार हूॅ तथा इन पौधों के लिए मै नियमानुसार.....प्रतिषत हिस्सा राषि देने को तैयार हूॅ। इन पोधों की समूर्ण देखरेख करने को तैयार हूॅ।

हस्ताक्षरः–
काष्तकार का नामः–
पताः–

कार्यालय जलग्रहण कमेटी ..... जलग्रहण परियोजना ..... (आईडब्ल्यूएमपी 2009–10)

क्रमांक दिनांकः–

–: कार्य पूर्णता एवं परिसम्पति हस्तातरण प्रमाण पत्रः–

1. यह प्रमाणित किया जाता है कि श्री..... पुत्र श्री.....के खेत खसरा नं..... पर जलग्रहण परियोजना .... के तहत करवाया गया कार्य .....पूर्ण हो गया है।
2. इस कार्य पर कुल राषि रू..... का व्यय किया गया।
3. इस कार्य के पेटे श्री..... ने कुल राषि रू ..... अषंदान के रूप में नकद/श्रम/सामग्री के रूप में दिए जा जलग्रहण विकास कोष में जमा करवा दिए गए है।
4. यह कार्य श्री..... को हस्तांतरित किया जाता है। अब से इस कार्य के रखरखाव की सम्पूर्ण जिम्मेदारी इनकी होगी।

हस्ताक्षर
कार्य हस्तांरतण करने वाला
(अध्यक्ष/सचिव जलग्रहण कमेटी)

हस्ताक्षार
कार्य का हस्तारतण प्राप्त करने वाला
(काष्तकार श्री.....)

प्रमाणितकर्ता

सरंपच ग्राम
पंचायत
.....