

## CERTIFICATE

Certified that the undersigned have proposed the appropriate and need based activities required in the watershed project area with active participation of beneficiaries along with consultation of Watershed Committees (WCs). Approval of watershed project plan and DPR has been obtained from WC, Gram Sabha. The plan and DPR document of IWMP **BIKANER-44** project, at P.S.- **LUNKARANSAR** District **BIKANER** is technically sound, viable and appropriate for implementation during the period **2012-13 to 2016-17**.

We recommend that this plan be sanctioned and put to implementation.

Signature Chairman/	Signature Secretary WC	Signature WDT members	Signature Junior Engineer P.S.- Lunkaransar	Signature Assistant Engineer & PIA P.S.-Lunkaransar	Signature Project Manager,WCDC Distt.-Bikaner
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1. Engg.

2. Ag.

3. Vet.

4. Social

**GOVERNMENT OF RAJASTHAN  
RURAL DEVELOPMENT & PANCHAYATI RAJ DEPARTMENT  
(WATERSHED DEVELOPMENT & SOIL CONSERVATION)**



**NAME OF PROJECT: IWMP- BIKANER 44**  
**EFFECTIVE AREA OF PROJECT: 3720 HA.**  
**COST /HA - 15000.00**  
**COST OF PROJEC: 558LAC.**  
**BLOCK: LUNKARANSAR**  
**DISTRICT: BIKANER**

**PIA – ASSISTANT ENGINEER**  
**W.D. & S.C., P.S. - LUNKARANSAR**

**PROJECT MANAGER, WCDC**  
**W.D. & S.C., DISTRICT - BIKANER**

## **Detail of Project**

1. Name of Project : IWMP Bikaner-44
2. Sanction No. & date of Project : F18(I-51)WDSC/IWMP/2011-12/4800-5087/05.08.11
3. Macro & Micro Nos : Cluster
4. Deviation from Project Sanctioned :

Items	As per Project Sanctioned	As proposed in DPR
Project Area	3720 ha.	3720 ha.
Macro/Micro No	Cluster	Cluster
Name of Gram Panchayats	Hansera, Kujti, Dhirera	Hansera, Kujti, Dhirera
Name of Villages	Khari, Mehrana, Dhirera station, Hansera, Dulmera station	Khari, Mehrana, Dhirera station, Hansera, Dulmera station
Project Cost (Rs in Lakhs)	558 lakh	558 lakh

# DPR TEMPLATE

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• **CHAPTER – I**

**INTRODUCTION**

**Location:**

**IWMP Bikaner-44** Project is located in Lunkaransar Block, of Bikaner district. The project area is between the latitudes **28°29'29" -28°56'18" North** & longitudes **72°26'15"-73°15'26"East**. It is at a distance of 11 km from its Block head quarters and 53 Km from the district head quarters. There are 1471 no. of habitations in the Project area and other details are given below.

S. No.	Name of Project(as per GOI)	<b>BKN – 44(IWMP)</b>
(a)	Name of Catchment	<b>KHari, Dhirera Station, Hansera, Mehrana, Dulmera Station</b>
(b)	Name of watershed area(local name)	<b>BKN-44</b>
(c)	Gross Project Area	<b>3820 Ha</b>
(d)	Net treatable Area	<b>3720 Ha</b>
(e)	Cost of Project	<b>558 Lacs</b>
(f)	Cost/hectare	<b>15000 Rs.</b>
(g)	Year of Sanction	<b>2011-12</b>
(h)	Watershed Code	<b>Cluster</b>
(i)	No. of Gram Panchayats in project area	<b>3</b>
(j)	No. of villages in project area	<b>5</b>
(k)	Type of Project	<b>Desert</b>
(l)	Elevation (metres)	<b>-----</b>
(m)	Major streams	<b>Nil</b>
(n)	Slope range (%)	<b>0-3%</b>

**General features of watershed**

The watershed falls in Agroclimatic Zone -IC. The soil texture is sandy. The average rainfall is 31.74cm. The temperatures in the area are in the range between 28°-49° centigrade during summer and 2°-24° centigrade during winter. The major crops in the area are Guar, Bajra, Moth, mooj, til etc. 86.94% land is under cultivation 19.99% land fallow, 1.6% land is wasteland. 0.0% land is irrigated through cannel and tubewell.

235 No of households are BPL (17.32% households) 296 are landless households (21.54% households) and 433 household are small and marginal farmers (31.51%household). Average land holding in the area is 3.24ha. 100% area is single cropped area and 0.0% is double cropped.

The main source of irrigation is No exited. The average annual rainfall (5 years) in the area is 421.6 mm. The Major streams in the Watershed are Nil. The major festivals in the village are Holi, Eid, Deepwali & Rakshabandhan. At present this village is having 9618 populations with Communities like Jat, Rajput, Brahmaan, Meghwal, Kumbhar and Muslim.

### Climatic and Hydrological information

<b>1</b>	<b>Average Annual Rainfall(mm)</b>		
	Year	Average Annual Rainfall(mm)	
1	2003	283	
2	2004	103	
3	2005	342	
4	2006	207	
5	2007	348	
6	2008	387	
7	2009	383	
8	2010	783	
9	2011	574	
10	2012	475	
<b>2.</b>	<b>Average Monthly rainfall (last ten years)</b>		
	Month	Rainfall(mm)	
i)	June	46.10	
ii)	July	108.40	
iii)	August	85.80	
iv)	September	48.90	
<b>3.</b>	<b>Maximum rainfall intensity (mm)</b>		
	Duration	rainfall intensity(mm)	
	i) 15 minute duration	6.30	
	ii) 30 minute duration	12.60	
	iii) 60 minute duration	25.00	
<b>4.</b>	<b>Temperature (Degree C)</b>		
	Season	Max	Min
	i) Summer Season (May-June)	49	28
	ii) Winter Season (Dec- Jan.)	24	2
	iii) Rainy Season (July-August)	38.50	28.30
<b>5.</b>	<b>Potential Evaporation Transpiration (PET) (mm/day)</b>		
	Season	PET	
	i) Summer (May2012)	26.60	
	ii) Winter (June2012)	14.26	
	iii) Rainy (August2012)	29.70	
<b>6.</b>	<b>Runoff</b>		
	i) Peak Rate (cum/hr)	Nil	
	ii) Total run off volume of rainy season (ha.m.)	1.5mm	
	iii) Time of return of maximum flood	5 years	10 years
	iv)Periodicity of Drought in village area	1	3
			Occasionally

## 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.	MNREGA	Panchayatiraj	Employment	1871	100days
2.	JSY	Medical & Health	Decrease the MMR	182	Rs 1700/Woman
3.	SGSY	Panchayatiraj	SHG Development	273	Micro Enterprises
4.	NRHM	Health Dept.	Health improvement	11350	Toilet subsidy, Free Dot kit for TB Patient & All type of medicines

## Details of infrastructure in the project areas:-

Parameters		Status			
(i)	No. of villages connected to the main road by an all-weather road	5			
(ii)	No. of villages provided with electricity	5			
(iii)	No. of households without access to drinking water	70			
(iv)	No. of educational institutions :	(P)	(S)	(HS)	(VI)
	Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	6	2	3	Nil
(v)	No. of villages with access to Primary Health Centre	5			
(vi)	No. of villages with access to Veterinary Dispensary	5			
(vii)	No. of villages with access to Post Office	5			
(viii)	No. of villages with access to Banks	5			
(ix)	No. of villages with access to Markets/ mandis	Nil			
(x)	No. of villages with access to Agro-industries	Nil			
(xi)	Total quantity of surplus milk	5261900Ltr.			
(xii)	No. of milk collection centres	(U)	(S)	(PA)	(O)
	(e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	8	4	4	-
(xiii)	No. of villages with access to Anganwadi Centre	6			
(xiv)	Any other facilities with no. of villages (please specify)	Nil			
(xv)	Nearest KVK	BIKANER			
(xvi)	cooperative society	LUNKARANSAR			
(xvii)	NGOs	Urmul Seva Sansthan, Swami keswanand yuvamandal sansthan			
(xviii)	Credit institutions				
	(i) Bank	SBBJ LUNKARANSAR			
	(ii) Cooperative Society	LUNKARANSAR			
(xix)	Agro Service Centre's	KVK BIKANER, ATC LUNKARNSAR			



**Institutional arrangements (SLNA,WCDC,PIA,WDT,WC, Secretary)****WCDC Details**

1	2	3
S.No	Particulars	Details of WCDC
1.	PM ,WCDC	Sh. Ashok Sexana
2.	Address with contact no., website	Executive Engineer. (L.R.), ZP BIKANER
3.	Telephone	0151-2200695
4.	Fax	0151-2200695
5.	E-mail	pmwcdcbikaner@yahoo.in

**PIA particulars**

1	2	3
S.No	Particulars	Details of PIA
1.	Name of PIA	Sh. Shivilal Verma
2.	Designation	Assistant Engineer
3.	Address with contact no., website	Panchayat Samiti Lunkaransar
4.	Telephone	01528-271037
5.	Fax	01528-271037
6.	E-mail	aenpslks@gmail.com

**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. Omprakash Jat	M	22	Dip.(civil)	5 Month	-	Engg.
2	Mr. Kedar Mund	M	24	B.Sc. (Ag.)	5 Month	-	Agriculture
3	Mr. Vikash Delu	M	20	LSA (Dip.)	5 Month	-	Vet nary
4	Mrs. Anita Godara	F	25	M.A. M.Fil Net(Soc.)	5 Month	-	Social Science

### Details of Watershed Committees (WC)

S. N.	Name of WCs	Date of Gram Sabha for WC	Designation	Name	M/F	SC/ST/OB C/General	Landless/ MF/SF/ BF	Name of UG/SHG	Educational qualification
1.	DHIRERA	13-04-13	President	Sh. Ajit Singh Jayani	M	OBC	BF	UG	M.B.A.
			Secretary	Sh. Gangaram Meghwal	M	SC	BF	UG	M.A
			Member	Sh. Manaram Jat	M	OBC	MF	UG	Educate
				Sh. Baluram Jat	M	OBC	MF	UG	Educate
				Sh. Purnaram Jat	M	OBC	MF	UG	Educate
				Sh. Maniram Jat	M	OBC	SF	UG	Educate
				Mrs. Lali Devi	F	OBC	LL	SHG	Educate
				Mrs. Sunder Devi	F	SC	SF	SHG	Uneducate
				Sh. Arjun Singh	M	Gen	MF	UG	Educate
				Sh. Bajrang Das	M	SC	SF	UG	Educate
				Sh. Laxmanram	M	SC	SF	UG	Educate
				Sh. Mohanram	M	OBC	SF	UG	Educate
				Mrs. Jasoda Devi	F	Gen	SF	SHG	Educate
				Sh. Omprakash	M	Gen	SF	UG	Educate
				Mrs. Santi Devi	F	OBC	SF	SHG	Educate
				Sh. Sunder lal	M	OBC	SF	UG	Educate
				Mrs. Radha Devi	F	Gen	SF	SHG	Educate
	Mrs. Kisturi Devi	F	OBC	MF	SHG	Educate			

S. N.	Name of WCs	Date of Gram Sabha for WC	Designation	Name	M/F	SC/ST/OB C/General	Landless/ MF/SF/ BF	Name of UG/SHG	Educational qualification
2.	HANSERA	25-01-2012	President	Sh. Kishanaram Ji mund	M	OBC	BF	UG	Educate
			Secretary	Sh. Ganesharam kadia	M	SC	BF	UG	M.A., B.Ed.
			Member	Sh. Hukmaram jat	M	OBC	BF	UG	Educate
				Sh. Tulcharam jat	M	OBC	MF	UG	Educate
				Sh. Tulcharam Nai	M	OBC	MF	UG	Educate
				Sh. Hetaram Acharay	M	Gen	BF	UG	Educate
				Mrs. Santi Devi	F	Gen	BF	SHG	Educate
				Mrs. Raja Devi	F	OBC	BF	SHG	Educate
				Mrs. Kalawati Devi	F	Gen	MF	SHG	Educate
				Sh. Tulcharam Kumhar	M	OBC	MF	UG	Educate
				Mrs. Jeetun Devi	F	OBC	MF	SHG	Educate
				Sh. Prakash Jat	M	OBC	BF	UG	Educate
				Sh. Dannath Jat	M	OBC	BF	UG	Educate
				Sh. Laluram Nayak	M	SC	BF	UG	Educate
				Sh. Jagdish Swami	M	Gen	MF	UG	Educate
				Sh. Kanaram Jat	M	OBC	BF	UG	Educate
				Mrs. Balveer Kaur	F	Gen	MF	SHG	Educate
				Sh. Harikishan Modi	M	OBC	BF	UG	Educate
				Sarfath Khan	M	OBC	MF	UG	Educate
				Mrs. Chananna Devi	F	OBC	SF	SHG	UnEducate

S. N.	Name of WCs	Date of Gram Sabha for WC	Designation	Name	M/F	SC/ST/OB C/General	Landless/ MF/SF/ BF	Name of UG/SHG	Educational qualification
3.	KHARI	04-05-12	President	Sh. Jaynarayan Ji mund	M	OBC	BF	UG	Educate
			Secretary	Sh. Sharwan ji mund	M	SC	BF	UG	M.A., B.Ed.
			Member	Sh. Sitaram Jat	M	OBC	BF	UG	Educate
				Sh. Rameswarram Jat	M	OBC	MF	UG	Educate
				Sh. Kojdas Beragi	M	OBC	MF	UG	Educate
				Sh. Mohanram Jat	M	Gen	BF	UG	Educate
				Mrs. Jetti Devi	F	Gen	BF	SHG	Educate
				Mrs. Kosalya Devi	F	OBC	BF	SHG	Educate
				Sh. Birbalram Jat	M	Gen	MF	UG	Educate
				Mrs. Jasoda Devi	F	OBC	MF	SHG	Educate
				Mrs. Susila Devi	F	OBC	MF	SHG	Educate
				Mrs. Mohani Devi	F	OBC	BF	SHG	Educate
				Sh. Chataram Meghwal	M	OBC	BF	UG	Educate
				Sh. Shivilal Jat	M	SC	BF	UG	Educate
				Sh. Narayanram Jat	M	Gen	MF	UG	Educate
				Mrs. Pushpa Devi	F	OBC	BF	SHG	Educate
				Sh. Sahiram Jat	M	Gen	MF	UG	Educate
				Sh. Maluaram Jat	M	OBC	BF	UG	Educate
	Sh. Hariram jat	M	OBC	MF	UG	Educate			

## **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. 59.53 ha land is arable wasteland and 424.82 ha is fallow can be brought under cultivation.

There is no irrigated area in the watershed and with efforts this can be increased to 5%. 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 desert area focus of the project would be to collect the rainwater and diversification in agriculture (horticulture, vegetables, green houses and Agro forestry and fodder crops) and diversification in Livelihoods (Agriculture, Animal husbandry, self employment).

477Quintal fodder scarcity can be met out through Pasture development. Improved animal Husbandry practices can increase the productivity of livestock. 5-10% no of persons migrate due to drought and scarcity of fodder. This migration can be checked through creation of employment opportunities and pasture development in the project area through increase in production and diversification in agriculture and Livelihoods as mentioned above.

- There is heavy erosion due to wind and sand dunes are shifted from one place to another.
- There is small rainfall in the area therefore no excess water for drinking and irrigation.
- There is low fertility of the land due to sandy soil and low water holding capacity.
- There is no sufficient fodder for animals as compare to animal population.

## Base Line Survey Format for IWMP MIS website

Project Name

Total Geographical Area of Project (Lakh Hectares)

### **Treatable Area**

Wasteland (Lakh Hectares)	0.0005933	Rainfed Agricultural Land (Lakh Hectares)	0.0263431
Total Cropped Area (Lakh Hectares)	0.0315116	Net Sown Area (Lakh Hactares)	0.0289916
Total no. of Water Storage Structure	11	Total no. of Water Extracting Units	Nil
Total storage capacity of water storage structures (cubic meters)	2000	11x2000	22000

### **No. of Household**

SC	233	ST	0
Others (OBC)	810	General	331
Total Population of the project Area	9618	No. of Household of Landless people	296
Total no. of BPL Household	235		
No. of person-days of Seasonal Migration	77400	No. of Marginal Farmer's Household	677

### **Depth of Ground Water (meters) below Ground level**

Pre- monsoon	91	Post-monsoon	90
No. of person-days of Seasonal Migration	77400		

## CHAPTER – II Socio economic Features, Problems and Scope

**Table 2.1 Population & Household Details:**

Total Population					
Male	Female	Total	SC	ST	OBC
4926	4692	9618	1631	0	5670

Household Details							
BPL household	Land Less	Marginal Farmer	Small Farmer	Middle Farmer	Total household	SC household	ST household
235	296	142	291	386	1374	233	0

**Table 2.2 Development indicators**

S. No.	Development Indicators	State	Project Area
1	Per capita income (Rs.)	16260	15900
2	Poverty ratio	0.22	0.27
3	Literacy (%)	60-64%	49%
4	Sex Ratio	921	952
5	infant mortality rate	4	5-6
6	Maternal mortality ratio	2	2

The above table indicates (**poor, average, good**) socio economic conditions.

**Table 2.3 (a) Land Use**

Land Use	Total area in Ha.				
	Private	Panchayat	Government	Community	Total
Agriculture Land	3494.14	-----	130.17	-----	3624.31
Temporary fallow	454.23	-----	16.92	-----	471.15
Permanent Fallow	244.58	-----	9.11	-----	253.69
Cultivated Rainfed	2795.32	-----	104.14	-----	2899.46
Cultivated irrigated	-----	-----	-----	-----	-----
Net Sown Area	2795.32	-----	104.14	-----	2899.46
Net Area sown more than once	-----	-----	-----	-----	-----
Forest Land	-----	-----	-----	-----	-----
Waste Land	-----	-----	59.33	-----	59.33
Pastures	-----	137.36	-----	-----	137.36
Others	-----	-----	-----	-----	-----
<b>Total</b>	<b>3494.14</b>	<b>137.36</b>	<b>189.5</b>	<b>-----</b>	<b>3820</b>

The project area has 59.53 ha of cultivable wasteland. 424.82 ha of fallow land (total 698.81 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 0.0% 59.33ha. (1.55 of the project area) is under wastelands and can be brought under vegetative cover, with reasonable effort. Activities like 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 137.36 hectare pasture land. This emphasizes the need for taking up pastureland development works through sowing of promising species of grasses and plantation.



**Table 2.3 (b)**

Cropping Status												
S.No	Season	Crop sown	Rain fed				Irrigated				Total	
			Varieties	Area (ha)	Production (Ton)	Productivity (kg/ha)	Varieties	Area (ha)	Production (Ton)	Productivity (kg/ha)	Area (ha)	Production (Ton)
1.	Kharif	Gaur	Local	2146	450.66	210	-	-	-	-	2146	450.66
		Bajra	Local	196	46.06	235	-	-	-	-	196	46.06
		Moth	Sathi	557	114.18	205	-	-	-	-	557	114.18
2.	Rabi	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-
3.	Zaid	-	-	-	-	-	-	-	-	-	-	-
		-	-	-	-	-	-	-	-	-	-	-
	<b>Total</b>			<b>2899</b>	<b>610.90</b>		-	-	-	-	<b>2899</b>	<b>610.90</b>

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

Table 2.4.b Abstract of cropped Area(ha)	
Area under Single crop	2899.46
Area under Double crop	Nil
Area under Multiple crop	Nil

**\*\*Write for each crop:** The farmers are using Local varieties of Bajra, whereas varieties like HHB-67 can increase the production.

**Crop Rotation\*\*** will vary from project to project

Guar	-	Fallow
Bajra	-	Fallow
Moong	-	Fallow
Til	-	Fallow
Moth	-	Fallow
Watermelon	-	Fallow

The table 2.4 shows that only 0.0 ha is (0.0%) 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)**

Name of the crop	Productivity kg/ha				
	India	Highest Average in Rajasthan	Highest Average of Agro climatic zone	District	Project Area
Gaur	300-350	230	250	240	210
Moth	270-300	225	350	230	205
BAJRA	450-510	450	300	240	235

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 Local varieties of Bajra whereas the recommended varieties like HHB-67 provide 480 kg/ha yield.
- The farmers are using Local varieties of Moth whereas the recommended varieties like RMO-40 provide 450 kg/ha yield.
- The farmers are using Local varieties of Gaur whereas the recommended varieties like RGC-936 provide 460 kg/ha yield.
- 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 (0.0% is irrigated table 2.3(b)).

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	0.5	Ber	Desi	Gola Ber	80-100 kg/plant
		Anowla	Desi	Banarsi	50-100 kg/plant
		Lamon	Desi	Kagji	40-50 kg/plant
Vegetables	Nil	Tometo	Desi	Pusa Gorav	200-500 Qt/ha
		Brinjal	Desi	Pusa round	200-400 Qt/ha
Floriculture	Nil				
Medicinal Plants	Nil	Sonamukhi	Desi	-	8-10 Qt/ha

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

Type of Farmer	Total House holds	Land holding (ha) irrigation source wise			Land holding (ha) Social group wise			
		Irrigated (source)	Rainfed	Total	General	SC	ST	OBC
(i) Large farmer	259	-	1756.44	1756.44	593.90	360.60	-	854.94
(ii) Middle farmer	386	-	1158.50	1158.50	277.40	220.20	-	660.90
(ii) Small farmer	291	-	465.60	465.60	112.40	260.70	-	92.50
(iii) Marginal farmer	142	-	113.6	113.6	24.60	58.20	-	30.80
(iv) Landless person	296	-	-	-	-	-	-	-
(V) No. of BPL households	235	-	423.2	423.2	152.80	208.20	-	62..20

41.76% land holdings belong to small and marginal farmers who own 81.88% 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, Medicinal and Aromatic 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 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 can be promoted in the 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.
			Milk (Ltr)	Mutton (kg)	Wool (kg)			
1	Cows							
	Indigenous	7000	6300000	-	-	7000	17885000	17885.00
	Crossbreed	-	-	-	-	-	-	-
2	Buffaloes	1000	1200000	-	-	1500	3832500	3823.5
3	Goat	4200	17000	3500		population /2	5365500	5365.5
4	Sheep	3900		19500	1345	population /2	4982250	4982.25
5	Camel	321	-	-	-	642	1640310	1640.31
6	Poultry	-	-	-	-	NA	-	-
7	Piggery	-	-	-	-	NA	-	-
	<b>Total</b>	<b>16421</b>	<b>7517000</b>	<b>23000</b>	<b>1345</b>	<b>9412</b>	<b>33750560</b>	<b>33750.56</b>

In spite of the large number of livestock, production is less hence increase in productivity across all species, is a major challenge. To enhance production of unproductive cattle and improve the productivity following activities will be taken up:-

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	Ha	Nil
2	Production of Green fodder	Tonns/year	Nil
3	Production of Dry fodder	Tonns/ Year	12578.9
4	Area under Pastures	Ha	149.2
5	Production of fodder	Tonns/year	447.6
6	Existing area under Fuel wood	Ha	663
7	Supplementary feed	Kgs/ day	549
8	Silage Pits	No	Nil
9	Availability of fodder	Tonns	13026.5
10	Deficiency/excess of fodder	Tonns	20724.06

The table above shows there is fodder deficiency (Requirement is 33750.56 and availability 13026.5)

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**

S. No	Implements	Nos.
1	Tractor	60
2	Sprayers-manual/ power	14
3	Cultivators/Harrows	24/57
4	Seed drill	20
5	Any Other	10

**Farm mechanization and seed banks:** As discussed earlier 579.20 ha land holdings belong to small and marginal farmers who own only 16.57% 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	KHARI	700	691	MNREGA Employment
2	DHIRERA ST.	250	229	MNREGA Employment
3	MEHRANA	62	51	MNREGA Employment
4	HANSERA	525	493	MNREGA Employment
5	DULMERA ST.	280	265	MNREGA Employment
	<b>Total</b>	<b>1817</b>	<b>1729</b>	

**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)
KHARI	62	180	Unemployment & animal grazing	200	Labour & animal grazing	6.74
DHIRERA ST.	39	180	Unemployment & animal grazing	200	Labour & animal grazing	3.41
MEHRANA	23	180	Unemployment & animal grazing	200	Labour & animal grazing	2.25
HANSERA	63	180	Unemployment & animal grazing	200	Labour & animal grazing	6.78
DULMERA ST.	19	180	Unemployment & animal grazing	200	Labour & animal grazing	1.98

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 activities are given below

<b>Table 2.12 (a) Major activities (On Farm)</b>		
Name of activity	No of House holds	Average annual income (Lakh)
Cultivators	324	194.40
Dairying	127	76.20
Poultry	Nil	-
Piggery	Nil	-
Goatry	84	36.00
Landless Agri. Labourers	18	16.20
Others	146	87.60
<b>Table 2.12(b) Major activities (Off Farm)</b>		
Name of activity	Households/individuals	Average annual income (Lakh)
Artisans	Nil	Nil
Carpenter	47	24.60
Blacksmith	8	4.2
Leather Craft	00	00.00
Porter	82	57.40
Mason	90	114.23
Others specify (Cycle Repair ,STD,Craft etc)	8	9.6
Others	Nil	Nil

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	Name of SHG	Members	Activity involved	Monthly income	Fund available	Assistance available	Source of assistance	Training received
1.	Jay Bhawani	10	Saving	100	24000	Yes	PS LKS	Nil
2.	Pragati	12	Saving	100	4747	Yes	PS LKS	Nil
3.	Jay Ma Bhawani	10	Saving	50	80000	Yes	PS LKS	Nil
4.	Baba Ramdev	11	Saving	100	7700	Yes	PS LKS	Nil
5.	Imla	10	Saving	10	7100	Yes	PS LKS	Nil
6.	Lichama	13	Saving	20	260	Yes	PS LKS	Nil
7.	Mahila SHG	15	Saving	25	7320	Yes	PS LKS	Nil
8.	Mata Ji	10	Saving	100	-	Yes	PS LKS	Nil
9.	Kanya	10	Saving	100	-	Yes	PS LKS	Nil

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	Nil	-	-	-	-
ii)	Shallow tube wells	10	250-300	-	-	250-300
iii)	Pumping sets	3	-	-	-	300-320
iv)	Deep Tube Wells	9	300-900	-	-	200-250
	<b>Total</b>	<b>22</b>		-	-	

**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.	KHARI	11236	12300	5	5	Nil	Nil
2.	DHIRERA ST.	7304	10000	4	4	Nil	Nil
3.	MEHRANA	4060	5400	2	2	Nil	Nil
4.	HANSERA	15496	7000	3	3	Nil	Nil
5.	DULMERA ST.	8520	5500	2	2	Nil	Nil
	<b>Total</b>	<b>46616</b>	<b>40200</b>	<b>16</b>	<b>16</b>		

**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
Nil	Nil	Nil	Nil	Nil

- 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%	3720
2	3 to 8%	Na
3	8 to 25%	Na
4	> 25%	Na

**Table 2.18 Soil details**

Soil Profile			
S.No.	Major Soil Classes	Area in hectares	
1	Sandy	3720	
2			
Soil Depth :			
B	Depth (Cms.)	Area in hectares	
1	0.00 to 7.50	-	
2	7.50 to 45.00	-	
3	> 45.00	3720	
C	Soil fertility Status	Kg/ha	Recommended
	N (Low)	17-18	25-30
	P (Medium)	25.4	35-40
	K (Sufficient)	170-180	150-200
	Micronutrients	PPM	-
	Zn	30	50 ppm
	Fe	28	50 ppm
	Mn	56	50 ppm
	Cu	14	50 ppm

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	Nil	-	-	Nil
b	Rill	-	-	-	-
c	Gully	-	-	-	-
Sub-Total		-	-	-	
Wind erosion Siltation/suspension		3720		150-180	
<b>Total for project</b>		<b>3720</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
- **(For delineated watershed projects)** To check erosive velocity of runoff, store Runoff, to arrest silt carried by runoff and to recharge Ground Water structures like Earthen check dams, gully plugs, Bank Stabilisation, Loose stone check Dams, Gabions, Earthen embankment (Nadi) and Anicuts would be taken up.
- **For Flat lands & cluster projects appropriate intervention shall be mentioned.**

## CHAPTER - III Proposed Development Plan:

The Activities are indicative addition /deletion in activities will be as per local conditions

### A) Preparatory phase activities Capacity Building Trainings and 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 Khari, Mehrana, Dhirera Station, Dulmera Station, Hansera 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	KUJTI(KAHRI)	17-08-2012
2	HANSERA	25-01-2012
3	DHIRERA	18-04-2013

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	KUJTI(KAHRI)	7.29 lacs	2	7.29 lacs	6.10 lacs	1.19 lacs	Drinking water facility	Drinking water facility
2	HANSERA	6.00 lacs	4	6.00 lacs	2.35 lacs	3.65 lacs	Drinking water facility	Drinking water facility
3	DULMERA St.	2.10 lacs	2	2.10 lacs	0.00 lacs	2.10 lacs	Drinking water facility	-
4	DHIRERA St.	3.33 lacs	2	3.33 lacs	0.00 lacs	3.33 lacs	Drinking water facility	-
5	MEHRANA	3.60 lacs	4	3.60 lacs	0.00 lacs	3.60 lacs	Drinking water facility	-

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

S.no	Name of the village/Habitation	Date on which PRA conducted
1	KAHRI	09-01-2013 to 13-01-2013
2	HANSERA, DULMERA STATION	14-01-2013 to 21-01-2013
3	DHIRERA STATION, MEHRANA	15-02-2013 to 21-02-2013

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 07-12-2012 to 25-03-2013(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.

## CAPACITY BUILDING

**Table- List of approved Training Institutes<sup>@</sup> for Capacity Building in the project area**

1	2	3	4	5	6	7	8
S. No.	Name of Stakeholders	Name of the Training Institute	Full Address with contact no., website & e-mail	Name & Designation of the Head of Institute	Type of Institute <sup>#</sup>	Area(s) of speciali- zation <sup>\$</sup>	Accredita- tion details
1	PIAs	1. IGPRS	Jaipur	Coordinator	Rural Development	Rural Development	DPR Preparation
		2. CTAE	Udaipur	Dean	Engg.	Engg.	Protocol
2	WDTs	1. IGPRS	Jaipur	Coordinator	Rural Development	Rural Development	DPR Preparation
		2. CTAE	Udaipur	Dean	Engg.	Engg.	Protocol
		3. KVK & RAU/ATC	Bikaner/Lunk aransar	senior sci./Dean/major sci.	Agri. Soil and water conservation	Agri. Soil and water conservation	Agri. activity
3	UGs	1. KVK & RAU/ATC	Bikaner/Lunk aransar	senior sci./Dean/major sci.	Agri. Soil and water conservation	Agri. Soil and water conservation	Agri./livelihood activity
		2. NABRAD	Jodhpur	Manager of bank	SHG Development	SHG Development	Life improvement & livelihood
4	SHGs	1. KVK & RAU/ATC	Bikaner/Lunk aransar	senior sci./Dean/major sci.	Agri. Soil and water conservation	Agri. Soil and water conservation	Agri./livelihood activity
		2. NABRAD	Jodhpur	Manager of bank	SHG Development	SHG Development	Life improvement & livelihood
5	WCs	1. PIA	Lunkaransar	AEn.	Record Keeping & register maintain	Record Keeping & Register maintain	Watershed activity
6	GPs	1. PIA	Lunkaransar	AEn.	Supervision & maintain	Supervision & maintain	Watershed activity
7	Community	1. PIA/NGO	Lunkaransar	AEn./ NGO Trainers	W/S related activity	W/S related activity	Life improvement & livelihood
8	PM/SLNA	1. DWU	Bikaner	XLR (XEn.)	Supervision & Evolution	Supervision & Evolution	Watershed activity
		2. SRAC	Jodhpur	Coordinator	Thematic map formation	Thematic map formation	Watershed activity

**Table- Capacity Building activities in the project (PHYSICAL & FINANCIAL) \*4% OF TOTAL PROJECT COST.**

1	2	3	5						6						7					
S. No.	Project Stakeholders	Total no. of persons	No. of persons to be trained during project period						No. of Training to be organized during project period						No. of person days to be trained during project period					
			I year	II year	III year	IV year	V year	Total	I year	II year	III year	IV year	V year	Total	I year	II year	III year	IV year	V year	Total
1	PIAs	97	24	22	21	16	14	97	8	8	7	7	6	36	28	28	26	24	24	130
2	WDTs	146	35	34	30	25	22	146	9	9	9	9	9	45	94	94	94	94	94	470
3	UGs	73	18	18	14	12	12	73	4	4	3	3	2	16	594	594	592	590	586	2956
4	SHGs	82	24	24	12	12	10	82	10	10	9	9	8	46	552	552	551	551	550	2756
5	WCs	59	15	12	12	10	10	59	4	4	4	4	4	20	435	435	435	435	435	2175
6	GPs	24	6	5	5	4	4	24	1	1	1	1	1	5	16	16	16	16	16	80
7	Community	75	19	18	13	13	12	75	8	8	8	8	8	40	385	385	385	385	385	1925
8	EXPOSURE TOUR (INTER STATE)	200	100	100	-	-	-	200	1	1	-	-	-	2	600	600	-	-	-	1200
9	EXPOSURE TOUR (INTRA STATE)	50	-	50	-	-	-	50	-	1	-	-	-	1	-	750	-	-	-	750
10	PM/SLNA	56	21	20	15	-	-	56	7	7	6	-	-	20	31	31	30	-	-	92



7	सफलता की कहानीयों की वीडियोग्राफी / फोटोग्राफी / लघुफिल्म एवं कृषको से साक्षरातकार / वार्ता ।	PIA	0.15	0.05	0.05	0.05			0.15	
8	निबन्ध व वाद-विवाद प्रतियोगिता	PIA								
9	रेडियों / दूरदर्शन पर वार्ता व विज्ञापन	PIA								
10	सांस्कृतिक त्यौहार / मेले आदि के अवसर पर प्रदर्शनी	PIA	0.10	0.04	0.03	0.03			0.10	
11	नुक्कड़ नाटक	PIA								
12	कटपुतली प्रदर्शन	PIA								
13	रात्रि गोष्ठी	PIA	0.20	0.07	0.07	0.06			0.20	
14	भू संरक्षण सप्ताह	PIA								
15	चेतना रैली	PIA								
16	जलग्रहण विकास का संदेश देने वाले सांस्कृतिक कार्यक्रम	PIA								
17	कृषक दिवस का आयोजन एवं क्षेत्र भ्रमण दिवस का आयोजन इत्यादि	PIA								
18	कुल		1.00	0.36	0.33	0.31			1.00	

State Remote Sensing Application Centre was assigned the work of preparing various thematic layers 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 (**in delineated watershed projects**)

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 -----.

## **B)Livelihood Action Plan (LAP):**

An awareness programme has been undertaken at Gram Sabha for communication & sensitization of the target beneficiaries. Livelihood Action Plan is a pre requisite for availing the funds under the livelihood component. LAP has been prepared by the PIA in consultation with WDT, WC & the members of SHG,SC/ST, women, landless/ assetless households. Details of funds available & their utilisation is as under :

(i) Total project cost Rs. 558.00Lacs.

(ii) Funds available under livelihood component is 9% of total project cost= Rs. 50.22Lacs.

(a) Seed money for SHGs as revolving fund = Rs. 30.132 Lacs.

(minimum 60% of livelihood component)

-- No. Of SHG to be formed 121 Nos.

--- No of persons (members) in SHGs 1452 Nos.

(b) Seed money for enterprising individuals = Rs. 5.022Lacs

(maximum 10% of livelihood component)

-- No of persons identified as enterprising individuals 8Nos.



<b>Proposed Activities (On Farm)*</b>		
Name of activity*	No of SHGs	Revolving fund
Fisheries	-	-
Dairying	48	12.00
Poultry	5	1.25
Piggery	-	-
Goatry	26	6.50
Bee keeping	-	-
Sericulture	-	-
Nursery	-	-
Maize dehusker	-	-
Dal mill	-	-
Oil mill	-	-
Others (specify)	-	-
<b>Total</b>	<b>79</b>	<b>19.75</b>

<b>Proposed Major activities (Off Farm)**</b>		
Name of activity*	No of SHGs	Revolving fund
Artisans	-	-
Carpenter	5	1.25
Blacksmith	1	0.25
Leather Craft	-	-
Porter	10	2.50
Mason	9	2.25
Eco tourism	-	-
Agro processing	-	-
Candle making	-	-
Dona Pattal	-	-
Sewing / Knitting	12	3.00
Tea Stall	1	0.25
General Store	2	0.50

Mobile repair	1	0.25
Mechanic / Misc. shop	1	0.25
Others (specify)	-	-
<b>Total</b>	<b>42</b>	<b>10.50</b>

List of persons & Proposed Activities. ( 10% of (9%))

S. No.	Name of gram panchyat	Activity Proposed	Name of Person	Category SC /ST /Others	Project fund Revolving	Contribution
1	Kujati	Dairy	Rewantram	Other	0.25 lac	
			Pana devi	Other	0.25 lac	
			Sunder devi	Other	0.25 lac	
		Flour Mill	Savitri devi	Other	0.25 lac	
			Sarwan mund	Other	0.25 lac	
2	Hansera	Dairy	Richpal	Other	0.25 lac	
			Chhaganlal	Other	0.25 lac	
			Jetharam	Other	0.25 lac	
			Prakash	Other	0.25 lac	
		Flour Mill	Muli devi	Other	0.25 lac	
			Sukhi devi	Other	0.25 lac	
3	Dhirera st.	Dairy	Ramnarayan jyani	Other	0.25 lac	
			Kisturi devi	Other	0.25 lac	
		Pillar constrution	Omprakash jyani	Other	0.25 lac	
			Mangilal	Other	0.25 lac	
			Rekharam	Other	0.25 lac	
4			5 Persons to be identified	All	1.022 lacs	
			<b>TOTAL</b>		5.022 lacs	

(c) Funds for Enterprising SHG/Federations of SHG  
(Maximum 30 % of livelihood activities)= Rs. 15.066Lacs

The funding for major livelihood activities will enable the enterprising SHGs/SHG federation to avail a composite loan for undertaking major livelihood activities or to upscale activities as recommended by the WC & approved by WCDC in consultation with line departments.

Details of enterprising SHG/federation is given below :

S.No.	Name of SHG/ SHG federation	Project Name	Project Cost in lacs	Grant in aid 50% of project cost or 2 lacs whichever is less	Bank loan
1.	Jay Bhawani	Dairy	5.00	2.00	3.00
2.	Pragati	Dairy	5.00	2.00	3.00
3.	Jay Ma Bhawani	Dairy	5.00	2.00	3.00
4.	Baba Ramdev	Dairy	5.00	2.00	3.00
5.	Imla	Poultry	5.00	2.00	3.00
6.	Lichama	Poultry	5.00	2.00	3.00
7.	Mahila SHG	Goatry	5.00	1.533	3.467
8.	Mata Ji	Goatry	5.00	1.533	3.467
		<b>TOTAL</b>	40.00	15.066	24.934

\* Details of project activities can be prepared in coming years after formation of SHG federation or as the case may be.

### **C) Production Plan:**

An awareness programme has been undertaken at Gram Sabha for communication & sensitization of the target beneficiaries. Production System & micro enterprises Action Plan is prerequisite for availing the funds under the Production System & micro enterprises component. Production plan has been prepared by the PIA in consultation with WDT, WC & the members of Users Group. Details of funds available & their utilisation is as under :

(iii) Total project cost Rs. 558.00Lacs.

(iv) Funds available under Production System & Micro enterprises component is 10% of total project cost= Rs. 55.80 Lac.

Proposed Activities for production system & Micro enterprises

	Name of activity*	No. of house holds	Cost of activity (lac)	WDF
<b>A</b>	<b>Production System</b>			
1	Fisheries	-	-	-
2	Dairying	-	-	-
3	Poultry	-	-	-
4	Piggery	-	-	-
5	Goatry	-	-	-
6	Bee keeping	-	-	-
7	Sericulture	-	-	-
8	Bio fuel , Medicinal plantation	40	2.00	-
<b>B</b>	<b>Others</b>			
<b>1</b>	<b>Crop Demonstration</b>			
A	Integrated Nutrient Management	-	-	-
B	Integrated PestManagement	-	-	-
C	Distribution of seed / Mini kit of HYV	800	16.00	-
2	Introduction of Innovative Agril Activities	-	-	-
3	Distribution of Seed cum ferti drill	13	7.21	-
4	Distribution of other Agricultural & plant protection equipment	345	3.53	-
5	Fodder production	100	1.00	-
6	Agro forestry	-	-	-
7	Agro Horticulture	-	-	-
8	Floriculture	-	-	-

9	Vegetable cultivation	1000	4.00	-
10	Organic farming (Green Manuring, Vermicompost, Nadep Compost)	21	3.15	-
11	Green House	-	-	-
12	Shed net	-	-	-
13	Nursery	-	-	-
	Others (specify)	-	-	-
<b>C</b>	<b>Microenterprises</b>			
1	Agro processing	-	-	-
2	Value Addition	-	-	-
3	Fruit preservation (Chatni, Achar, Murabba, Jam, Jelly, Etc.)	31	7.75	-
4	Flour Mill	-	-	-
5	Dal mill	-	-	-
6	Oil mill	-	-	-
7	Maize dehusker	-	-	-
<b>8</b>	<b>Para Vetnery services</b>			
A	Bull distribution	4	2.08	-
B	Castration	-	-	-
C	Demo. Urea Molasis	-	-	-
9	Manger	200	4.00	-
10	Animal Shed	16	3.16	-
	Animal health camp	8	1.92	-
	<b>G. Total</b>		<b>55.80</b>	

## **Awareness Programme**

-Slogan Wall Painting,

Scientific Animal Husbandry Practices ; Seminars / Debates / Pamphlet distribution/ Stickers/ Chetana Rally

Broadcasting / Telecasting Film Show

Visit- intra/ inter/ out of State/ Abroad

Fortnightly Meetings with Livestock keeper to discuss and decide all breedable females to be covered.

## **Creation Of Disease Free Zone: Livestock's health coverage**

Establishment of Pashudhan Seva Kendra (PSK) (Convergence with peer department)

Deworming to reduce worm load and enhance disease resistance. (Convergence with peer department)

Distribution of mineral mixture. (Convergence with peer department)

Free of Cost Vaccination in IWMP area Livestock for H.S., B.Q., F.M.D., PPR, ETV and Sheep Pox.

Ensure Hygienic measures to check Zoonosis.(DAH/ IWMP)

## **Construction of Animal Sheds with Manger and Portable Manger With accessories**

### **Provision of Cattle Water Troughs.**

### **Infertility Management: To ensure Livestock's Productivity**

Expansion of AI Coverage/ reduction in no.of infertile females.

PCPD+ COMBAT INFERTILITY+ CAMPS INFERTILITY RLDB+ CAMPS INFERTILITY SC COMPONENT

Breed Improvement: To ensure Livestock's Productivity enhancement

A.I. (Convergence with peer department)

Incentive based Mass Castration at Door Step of Scrub Bulls to Check ND Recycling.

Registration of bulls (Convergence with peer department)

Bull / Buck Distribution for NS-Gir, Murrah And Sirohi /Jamunapari Breed Bulls/ Bucks Should Be Distributed For 3yrs 6 (3 In Each Iwmp Area, Where Ever A.I. Facility Is Not Available Round's O Clock. On 100% Subsidized Rate To WC.

Financial Incentive to the Inseminator for Calf Borns.

Convergence with peer Department/DAH/Agriculture/ATMA/ Board/ Trust/ Goseva

An Assistance to control Malnutrition: Protein Supplementation

Feed & fodder production enhancement.

**ANNUAL ACTION PLAN:** PIA will prepare annual action plan in the month of January indicating outgoing liabilities as well as new projects which they wish to take during next financial years & will submit to PM(WCDC). These plans will be placed for approval at P.S. (Standing Committee of Production and Agriculture) & Z.P. (Standing Committee of Production) level every year. While preparing Annual Action Plan (AAP) if rates of labour or material in DPR increased or decreased changed rates will be applicable for preparing AAP & the effect of same can be met by converging the remaining works with other schemes.