GOVERNMENT OF RAJASTHAN

DISTRICT WATERSHED DEVELOPMENT UNIT

ZILA PARISHAD - SIKAR

DETAILED PROJECT REPORT

SIKAR (IWMP-II)

(TIROKI BADI PROJECT)

SACTIONED YEAR 2009-10

PANCHAYAT SAMITI – LAXMANGARH

PROJECT AREA – 5010 Ha. PROJECT COST – 751.50 LAKH

SUBMITTED BY :- ASSISTANT ENGINEER (PIA)

PANCHAYAT SAMITI – LAXMANGARH(SIKAR)

DPR TEMPLATE

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g. Treatment map ie proposed works on revenue map

8.2 Documents of Agreements:

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

- **CHAPTER – I INTRODUCTION**

Location.

TIROKI BADI Project is located in **Laxmangarh** Block, of **Sikar** district. The project area is between the latitudes & longitudes. It is at a distance of **26** km from its Block head quarters and **74** Kms from the district head quarters. There are **9** no. of habitations in the Project area and other details are given below.

General features of watershed

S.No.	Name of Project(as per GOI)	IWMP
(a)	Name of Catchment	TIROKI BARI
(b)	Name of watershed area(local name)	TIROKI BARI
©	Project Area	5010
(d)	Net treatable Area	5010
e)	Cost of Project	751.5
f)	Cost/hectare	15000
g)	Year of Sanction	2009-10
h)	Watershed Code	SIKAR II
i)	No. of Gram Panchayats in project area	6
j)	No. of villages in project area	9
k)	Type of Project	Desert
l)	Elevation (metres)	-
m)	Major streams	-
n)	Slope range (%)	0 – 3

Macro/micro	Name of Gram Panchayat	Name of Villages Covered	Census code of villages	Area
	Tiroki Badi	Tiroki Badi, Tiroki Choti	01677900, 01677800	600 875
	Mangloona	Madhopura	01677700	400
	Sutod	Sutod, Dhani Kriparam	01678100 01678000	1455 20
	Ganeri	Dhani Ridmal	01667300	235
	Kumas Jagir	Jewali	01679000	1120

	Ghiraniya Bada	Manasi Godan, Dhani Mangal das	01679100 01679200	175 130

The watershed falls in Agroclimatic Zone **2A** . The soil texture is **Sandy** The average rainfall is 30 cm . The temperatures in the area are in the range between **20˚ - 48˚** centigrade during summer and **0˚ - 32˚** centigrade during winter. The major crops in the area are BAJRA , Chanwla, Guar, Moong, Gram. **59.13 %** land is under cultivation **93.17 %** land fallow, **6.83 %** land is wasteland. **2.61 %** land is irrigated through 818 H.

1930 No of households are BPL (8.03 % households) 40 are landless households (00 % households) and 8.30 household are small and marginal farmers (43 % household) . Average land holding in the area is 16.61 ha. 1.84 % area is single cropped area and Nill % is double cropped. The main source of irrigation is Wells. The average annual rainfall (5 years) in the area is 300 mm. The Major streams in the Watershed are. The major festivals in the village are Deepawali, Holi, Raksha Bandhan. At present this village is having **11,177** population with Communities like SC , ST, OBC and Minority.

Climatic and Hydrological information

1	**Average Annual Rainfall(mm)**		
	Year	Average Annual Rainfall(mm)	
1	2001	298	
2	2002	124	
3	2003	501	
4	2004	391	
5	2005	335	
6	2006	282	
7	2007	373	
8	2008	655	
9	2009	162	
10	2010	653	
2	**Average Monthly rainfall (last ten years)**		
	Month	Rainfall(mm)	
i)	June	118	
ii)	July	38	
iii)	August	43	
iv)	September	19	
3	**Maximum rainfall intensity (mm)**		
	Duration	rainfall intensity(mm)	
	i) 15 minute duration	37.5	
	ii) 30 minute duration	75	

	iii) 60 minute duration	150		
4	**Temperature (Degree C)**			
	Season		Max	Min
	i) Summer Season		48	18
	ii) Winter Season		36	0
	iii) Rainy Season		38	15
5	**Potential Evaporation Transpiration (PET) (mm/day)**			
	Season		PET	
	i) Summer		-	
	ii) Winter		-	
	iii) Rainy		-	
6	Runoff			
	i) Peak Rate (cum/hr)		-	
	ii) Total run off volume of rainy season (ha.m.)			
	iii) Time of return of maximum flood	5 years	10 years	In-Year
	iv)Periodicity of Drought in village area	-	-	-

Details of infrastructure in the project areas

Parameters		Status			
(i)	No. of villages connected to the main road by an all-weather road	9			
(ii)	No. of villages provided with electricity	9			
(iii)	No. of households without access to drinking water	NO			
(iv)	No. of educational institutions :	(P)	(S)	(HS)	(VI)
	Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	2	3	No	No
(v)	No. of villages with access to Primary Health Centre	3			
(vi)	No. of villages with access to Veterinary Dispensary	1, Sutod			
(vii)	No. of villages with access to Post Office	2, Sutod, Tiroki Badi			
(viii)	No. of villages with access to Banks	No			
(ix)	No. of villages with access to Markets/ mandis	No			
(x)	No. of villages with access to Agro-industries	No			
(xi)	Total quantity of surplus milk	--			
(xii)	No. of milk collection centres	(U)	(S)	(PA)	(O)
	(e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	-	-	-	-
(xiii)	No. of villages with access to Anganwadi Centre	9			
(xiv)	Any other facilities with no. of villages (please specify)	--			
(xv)	Nearest KVK	Fatehpur Shekhawati, 56 KM			
(xvi)	cooperative society	-	-	-	-
(xvii)	NGOs	-	-	-	-
(xviii)	Credit institutions	-	-	-	-
	(i) Bank	-	-	-	-

	(ii) Cooperative Society	-	-	-	-
(xix)	Agro Service Centre's	-	-	-	-

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

DWDU Details

1	2	3
S.No	**Particulars**	**Details of DWDU**
1.	PM ,DWDU	Zila Parishad, Sikar
2.	Address with contact no., website	Zila Parishad, Sikar
3.	Telephone	01572-259248, 01572-270669
4.	Fax	01572-259527
5.	E-mail	dwdu.sikar@gmail.com

PIA particulars

1	2	3
S.No	**Particulars**	**Details of PIA**
6.	Name of PIA	Assistant Engineer PS Laxmangarh
7.	Designation	Assistant Engineer (Water Shed)
8.	Address with contact no., website	Panchayat Samiti, Laxmangarh, District - Sikar, Rajasthan
9.	Telephone	01573-222223
10	Fax	01573-222223
11	E-mail	bdo.sik.lax@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	Tara chand	M	36	M.Sc. (Ag.)	One Year	M.Sc.	All Agriculture activities
2	Santra Devi	F	34	M.A. (Soi.)	One Year		All Social Work
3	Vijay Pal Singh	M	28	LSA Two year Diploma	One Year	LSA	All Live Stock Activities

Details of Watershed Committees (WC)

S. N.	Name of WCs	Date of Gram Sabha for WC	Date of Registration as a Society (dd/mm/yyyy	Designation	Name	M/F	SC/ST/ OBC/General	Landless /MF/SF/ BF	Name of UG/SHG	Educational qualification
1	Tiroki Bari	01-12-09	217/ 10.12.10	President	Ummed Kanwar W/o Bhawani Singh	F	Gen.	BF	Arable land Consrvation	10th
				Secretary	Arjun ram S/o Lichman ram	M	OBC	BF	Secretary	10th
				Member	Chotu kanwar w/o kishor singh	M	OBC	MF	SHG	5th
				Member	Bali Devi w/o Rameshwar lal	F	SC	MF	SHG	Literate
				Member	Balbeer S/o Heera Ram	M	SC	SF	Animal husbandry	5th
				Member	Pratap Singh s/o Laduram	M	OBC	MF	US	3rd
				Member	Revat singh s/o Kalu singh	M	OBC	BF	SHG	4th
				Member	Bhawani singh s/o Jassu singh	M	OBC	MF	US	B.A.
				Member	Nanu singh s/o Hosiyar singh	M	OBC	MF	SHG	10th
				Member	Maal singh s/o Kam singh	M	OBC	MF	US	5th
				JEN	Ram chandra Choudhary Jen. Panchayat samiti Laxmangahr. Sikar	M	OBC		JEN PS Laxmangarh	B.E.(Agri)

2	Manglo ona	02-12-09	371/ 23.03.11	President	Chotu ram s/o Hanumanaram	M	OBC	BF	Arable land Consrvation	10th
				Secretary	Rajesh Devi W/o Bhanwar lal	F	OBC	BF	Secretary	BA
				Member	Ballu ram s/o Chimana ram	M		MF	US	5th
				Member	Gora devi w/o Mohan lal	F	OBC	MF	SHG	5th
				Member	Bhanwari devi w/o Ramawatar nayak	F	SC	MF	SHG	Literate
				Member	Ramawatar s/o Nand lal	M		SF	Animal husbandry	5th
				Member	Sukhdeva ram s/o Birdaram	M		MF	US	3rd
				Member	Rameshwar s/o Kaluram	M		BF	SHG	4th
				Member	Narayan ram s/o Baksha ram	M		MF	US	B.A.
				Member	Mohan lal s/o Ishwar ram	M		MF	SHG	10th
				AEN	Banwari lal regar, PS Laxmangarh	M	SC		AEN PS Laxmangarh	BE (Agri)

3	Jevali	02-12-09	216 / 10.12.10	President	Sanwar mal s/o Magha ram	M	OBC	BF	Arable land Consrvation	10th
				Secretary	Ikbal khan s/o Ismail Khan	M	Min.	BF	Secretary	10th
				Member	Rameshwar s/o Magha ram	M	OBC	MF	US	5th
				Member	Hanmana ram s/o Ghasi ram	M	SC	MF	SHG	5th
				Member	Taramani Devi w/o Jagdish	F	SC	MF	SHG	Literate
				Member	Parmeshawari Devi w/o Gopal	F	OBC	SF	Animal husbandry	5th
				Member	Magha ram s/o Surja ram	M	OBC	MF	US	3rd
				Member	Kayam khan s/o Bhure khan	M	Min.	BF	SHG	4th
				Member	Radheshyam s/o Mahadeva ram	M	OBC	MF	US	B.A.
				Member	Suresh s/o Chunaram	M	OBC	MF	SHG	10th
				AEN	Ram chandra Choudhary Jen. Panchayat samiti Laxmangahr. Sikar	M	OBC		JEN PS Laxmangarh	BE (Agri)

4	Sutod	01-12-09	215/ 10.12.10	President	Mahaveer singh s/o Madan	M	OBC	BF	Arable land Consrvation	10th
				Secretary	Savita devi w/o Sanjay kumar	F	OBC	BF	Secretary	BA
				Member	Sanwar mal s/o Asha ram	M	OBC		US	Literate
				Member	Bhanwari devi w/o Keshar dev	F	OBC	MF	SHG	5th
				Member	Kanaram s/o Kishana ram	M	OBC	MF	US	Literate
				Member	Hardeva ram s/o Bhuraram	M	SC	SF	Animal husbandry	8th
				Member	Kamla devi w/o Banwari lal	F	SC	MF	SHG	Literate
				Member	Mula ram s/o Panna ram	M	OBC	BF	US	4th
				Member	Sharwan s/o Kana ram	M	OBC	MF	US	B.A.
				Member	Rameshwar lal s/o Pannaram	M	OBC	MF	SHG	10th
				JEN	Ram chandra Choudhary Jen. Panchayat samiti Laxmangahr. Sikar	M	OBC	MF	JEN PS Laxmangarh	BE(Agri)

5	Ganeri	03-12-09	306 / 23.03.11	President	Kurda ram s/o Jamna ram	M	OBC	BF	Arable land Consrvation	10th
				Secretary	Jagdish prasad s/o Muknaram	M	OBC	BF	Secretary	BA
				Member	Jivan ram s/o Govind ram	M	OBC		US	Literate
				Member	Kana ram s/o Pokhar ram	M	OBC	MF	SHG	5th
				Member	Kanaram s/o Lachha ram	M	SC	MF	SHG	Literate
				Member	Surja ram s/o Bega ram	M	SC	SF	Animal husbandry	5th
				Member	Banwari lal s/o Bholuram	M	SC	MF	SHG	Literate
				Member	Jagdish s/o Balu ram	M	SC	BF	US	4th
				Member	Sohan singh s/o Manidan	M	SC	MF	US	B.A.
				Member	Bhanwar lal s/o Ganpat ram	M	SC	MF	SHG	10th
				JEN	Ram chandra Choudhary Jen. Panchayat samiti Laxmangahr. Sikar	M	OBC	MF	JEN PS Laxmangarh	BE(Agri)

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. ha land is arable wasteland and ha is fallow can be brought under cultivation.

818 ha is only irrigated and with efforts this can be increased to **1063** . The productivity gap of major crops in the area as compared with district and with areas in the same agro climatic zones indicate potential to increase the productivity. The demonstration of improved package of

practices, improved varieties, increased irrigation facilities and soil conservation measures under the project can bridge this gap. Due to small land holdings in the area focus of the project would be on diversification in agriculture (horticulture, vegetables, Agro forestry, fodder crops)and diversification in Livelihoods(Agriculture, Animal husbandry, self employment)

96080 Quintal fodder scarcity can be met out through Pasture development .Improved animal Husbandry practices can increase the productivity of livestock. **645** no of persons migrate due to **645** this migration can be checked through creation of employment opportunities in the project area through increase in production and diversification in agriculture and Livelihoods as mentioned above.

CHAPTER – II

2.1 DEMOGRAPHY DETAILS AND HOUSEHOLD DETAILS:

Population & Household Details:

Sr.No	Village	Male	Female	Total	SC	ST
1	Tiroki Badi	1183	1171	2354	400	-
2	Tiroki Choti	844	774	1618	314	-
3	Madhopura	304	300	604	15	-
4	Sutod	1070	1076	2146	430	-
5	Dhani Kriparam	546	513	1059	225	-
6	Dhani Ridmal	304	301	605	200	-
7	Jevali	912	932	1844	175	-
8	Dhani Mangaldas	222	265	487	85	10
9	Manasi Godan	176	203	379	2	-

BPL HOUSEHOLD DETAIL

Sr.No	Village	SC	ST	OBC	OTHER	TOTAL
1	Tiroki Badi	12	-	2	50	64
2	Tiroki Choti	21	-	11	1	33
3	Madhopura		-	2	-	2
4	Sutod	11	-	4	6	21
5	Dhani Kriparam	7	-	6	2	15

6	Dhani Ridmal	6	-		1	7
7	Jevali	6	-	6	6	18
8	Dhani Mangaldas	-	-	-	-	-
9	Manasi Godan	-	-	3	-	3

NOTE :- BPL Household List Attached with

MARGINAL FARMER HOUSEHOLD DETAILS

Sr.No	Village	SC	ST	OBC	OTHER	TOTAL
1	Tiroki Badi	39	5	24	122	190
2	Tiroki Choti	12	-	37	-	49
3	Madhopura	3	-	40	-	43
4	Sutod	89	-	30	16	135
5	Dhani Kriparam	18	-	6	3	27
6	Jevali	15	-	33	12	60
7	Dhani Ridmal	7	-	3	1	11
8	Manasi Godan	8	-	23	3	34
9	Dhani Mangaldas	7	-	-	-	7
		198	**5**	**196**	**157**	**556**

Small Farmer Household Details

S.R.	Village	SC	ST	OBC	OTHER	TOTAL
1	Tiroki Badi	19	-	8	41	68
2	Tiroki Choti	5	-	26	3	34
3	Madhopura		-	21	-	21
4	Sutod	18	-	39	19	76
5	Dhani Kriparam		-	5	1	6
6	Jevali	15	-	66	53	134
7	Dhani Mangaldas		-	5	5	10
8	Manasi Godan	6	1	2	3	12
9	Dhani Ridmal	6	-	5	1	12
	Total	**69**	**-**	**177**	**126**	**372**

Big Farmer Household Details						
S.R.	Village	SC	ST	OBC	OTHER	TOTAL
1	Tiroki Badi	20	-	140	494	654
2	Tiroki Choti	10	-	190	139	339
3	Madhopura	3	-	140	20	163
4	Sutod	14	-	170	162	346
5	Dhani Kriparam	5	-	180	15	200
6	Jevali	18	-	175	183	376
7	Manasi Godan	10	-	65	10	85
8	Dhani Mangaldas	4	2	35	6	47
9	Dhani Ridmal	5	-	75	20	100
	Total	**89**	**2**	**1170**	**1049**	**2310**

Abstract House Hold Details						
S.R.	Village	SC	ST	OBC	OTHER	TOTAL

1	Marginal Farmer House Hold	198	5	196	157	556
2	Small Farmer House Hold	69	1	177	126	373
3	Big Farmer House Hold	89	2	1170	555	1816
	Total	**356**	**8**	**1543**	**838**	**2745**

2.3 Table: Land USE

Land Use	Total area in Ha.				
	Private	Panchayat	Government	Community	Total
Agriculture Land	4668	-	-	-	4668
Temporary fallow	185	-	-	-	185
Permanent Fallow	342	-	-	-	342
Cultivated Rainfed	3665	-	-	-	3665
Cultivated irrigated	818	-	-	-	818
Net Sown Area	4668	-	-	-	4668
Net Area sown more than once	-	-		-	-
Forest Land	-	-	143	-	143
Waste Land	-		168	-	168
Pastures	-	342	-	-	342
Others	-	-	-	-	-

Net Treatable area 185+3665+818+342+5010 ha

Marginal Farmer Land Details						
S.R.	Village	SC	ST	OBC	OTHER	TOTAL
1	Tiroki Badi	15.58	3.84	17.12	64.08	100.62

2	Tiroki Choti	8.66	-	22.83		31.49
3	Madhopura	1.90	-	22.55		24.45
4	Sutod	40.66	-	19.52	10.34	70.52
5	Dhani Kriparam	10.90	-	2.42	0.24	13.56
6	Jevali	8.92	-	22.26	5.7	36.88
7	Dhani Mangaldas	2.36	-	-	-	2.36
8	Manasi Godan	1.98	-	18.13	1.92	22.03
9	Dhani Ridmal	10.98		5.23	0.24	16.45
	Total	**101.94**	**3.84**	**130.06**	**82.52**	**318.36**

Small Farmer Land Details						
S.R.	Village	SC	ST	OBC	OTHER	TOTAL
1	Tiroki Badi	28.33	-	13.24	72.63	114.2
2	Tiroki Choti	6.68	-	37.3	6.74	50.72
3	Madhopura	-	-	29.99	-	29.99
4	Sutod	26.67	-	57	24.08	107.75
5	Dhani Kriparam	-	-	5.6	1.03	6.63
6	Jevali	22.01	-	57.61	57.2	136.82
7	Manasi Godan	6.42	-	6.81	6.42	19.65
8	Dhani Mangaldas	9.27	1.37	2.72	3.21	16.57
9	Dhani Ridmal	8.6	-	10.24	1.75	20.59
	Total	**107.98**	**1.37**	**220.51**	**173.06**	**502.92**

General (Big) Farmer Land Details						
S.R.	Village	SC	ST	OBC	OTHER	TOTAL
1	Tiroki Badi	26.79	-	70.61	266.87	364.27

2	Tiroki Choti	58.55	-	626.16	90.33	775.04
3	Madhopura	21.48	-	324.61	16.21	362.3
4	Sutod	193.25	-	698.66	400.24	1292.15
5	Dhani Kriparam	-	-	19.35	-	19.35
6	Jevali	158.64	-	525.75	167.96	852.35
7	Manasi Godan	8.94	-	61.9	90.33	161.17
8	Dhani Mangaldas	15.36	-	90.01	10.12	115.49
9	Dhani Ridmal	33.12	-	131.72	48.63	213.47
		516.13	**-**	**2548.77**	**1090.69**	**4155.59**

Abstract Land Details						
S.R.	Village	SC	ST	OBC	OTHER	TOTAL
1	Marginal Farmer Land	101.94	3.84	130.06	82.52	318.36
2	Small Farmer Land	107.98	1.37	210.27	171.31	490.93
3	Big Farmer Land	516.67		2548.77	1090.69	4156.13
		726.59	**5.21**	**2889.10**	**1344.52**	**4965.42**

Total Population				
Male	**Female**	**Total**	**SC**	**ST**
5665	5512	11177	1854	10

Household Details						
BPL household	**L. Less**	**Small Farmer**	**M. Farmer**	**Total household**	**SC household**	**ST household**
165	-	372	556	1930	356	8

Table 2.2 Development indicators

S. No.	Development Indicators	State	Project Area
1	Per capita income (Rs.)	16260	4300
2	Poverty ratio	0.22	165/1930=0.085
3	Literacy (%)	60.40%	65%
4	Sex Ratio	921	950

The table indicates poor socio economic conditions.

The project area has **4668** ha of cultivable wasteland. **168** ha of fallow land **(total 342 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 **17.53 %** of the project area)is under wastelands and can be brought under vegetative cover, with reasonable effort .Activities like Earthen check dams, Vegetative filter strip, V-ditches, staggered trenches ,WHS (Johad) Afforestation of wastelands and Pasture development will be taken up on these lands

Pasture development the land use table shows that there is **342** hectare pasture land This emphasizes the need for taking up pastureland development works through sowing of promising species of grasses and plantation

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

Table 2.4.b Abstract of cropped Area(ha)	
Area under Single crop	4221
Area under Double crop	-
Area under Multiple crop	-

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	bajra	Local Variety	2548	1274	500	Local Variety	212	127.2	600	1401.2	1401
		Mung	Local Variety	165	57.75	350					82.5	57.75
		moth	Local Variety	295	88.5	300					147.5	88.5
		Til	Local Variety	70	14	200					35	14
		Gwar	Local Variety	750	200	400					375	300
		Chawla	Local Variety	181	72.4	400					90.5	72.4
2	Rabi	Wheat					Local Variety	379	379	1000	379	379
		Barle					Local Variety	246	270.6	1100	246	270.6
		Chana					Local Variety	19	9.5	500	19	9.5
		mustered					Local Variety	90	54	600	90	54
		Taramira					Local Variety	27	10.8	400	27	10.8
		Methi					Local Variety	29	11.6	400	29	11.6
		Chari					Local Variety	23	6.9	300	23	6.9
3	Zayad	Chari					Local Variety	39	11.7	300	39	11.7
	Total			4009	1706.65	2150		39	11.7	300	39	11.7

No.	Name of Crop	Using Varieties	New Varieties	Production Increase %
1	Bajra	Local Varieties	PHI-86M32, 86M86, J.K.-26, PA – 9444	50%

2	Mung	Local Varieties	K-851, Pusha Beshakhi, rs-4, s-9, D-66-26	35-40%
3	Chawla	Local Varieties	Jadiya Jwala, RMO-40, RS-9, RC-19 , C-152, FS-68	25-30%
4	Groundnut	Local Varieties	G-20, G-10,RS-1, M-13	40-50%
5	Wheat	Local Varieties	RJ-3765,1482,3077, PW-17,343,502	35-40%
6	Gram	Local Varieties	C-235,RSG-44, RSG-2, RS-11, RS-10,G-130, GNG-479, 663	25-30%
7	Mustered	Local Varieties	T-59, PUSHA BOLD, RL-18	25-30%
8	Barley	Local Varieties	RD-2052,2035, 2503	25-30%
9	Mathi	Local Varieties	R.M.T.-1, R.M.T.-2, CO-1	30-35%
10	Rajka	Local Varieties	Type-8, Type-9	20-22%
11	Onion	Local Varieties	N-53, Dark Nasik Red	-

- Production of local onion is more then selected varieties but poor storage capacity.
- Farmers Mostly used same variety more and more times.

Crop Rotation**will vary from project to project

Bajra	-	Wheat
Bajra	-	Fallow
Moong	-	Mustered
Moong	-	Fallow
Fallow	-	Jeera
Fallow	-	Isabgoal
Fallow	-	Lucern
Cluster Bean	-	Fallow
Fallow	-	Tarameera
Til	-	Fallow
Caster	-	Caster
Moth	-	Fallow

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
Bajra	802	692	888	950	500
Clustr Bean	NA	305	351	394	-
Mung	317	325	322	304	350
Chawla	NA	359	361	365	400
Groundnut	1800	1557	1758	1782	-
Wheat	2619	2749	2913	2746	1000
Gram	808	655	975	1032	500
Mustered	1107	1177	1095	993	600
Barley	2710	2517	2321	2283	1100
Mathi	NA	1140	963	913	400
Onion	950	9013	11119	10114	100

- These Data's Sources are Rajasthan Agricultural Statistics at a Glance 2009-10 (Average Last 5 year upto 2008-09) & Krishi Marh Darshika 2009.

- 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 9444, Nandi SOS provide 9 Qtl./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(17 % is irrigated table----)

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

Table 2.6 Land holding Pattern in project area

Type of Farmer	Total Households	Land holding (ha) irrigation source wise			Land holding (ha)Social group wise				
		Irrigated (source)	Rainfed	Total	General	SC	ST	OBC	BPL
(i)Large farmer	578	818	3850	4668	796.93	457.58	66.00	2548.77	-
(ii) Small farmer	350	-	-	-	78.15	13.52	4.39 0	54.63	-
(iii) Marginal farmer	471	-	-	-	18.87	6.04	-	18.4	-
(iv) Landless person	40	-	-	-	-	-	-	-	-
(V)No. of BPL households	155	-	-	-	-	-	-	-	-
Total		818	3850	4668	893.95	477.14	70.39	2621.80	-

16.29% land holdings belong to small and marginal farmers who own 93 % 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 in area.

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

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

Table 2. 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 (kilo letre)	Mutton (kg)	Wool (kg.)			
1	**Cow**							
	Indigeneous	1033	619.8	0	0	1	2555	**2639.32**
	Hybrid	141	169.2	0	0	1.5	3832.5	**540.38**
2	Buffaloes	2065	2478	44398	0	1.5	3832.5	**7914.11**
3	Goat	8269	744.21	66152	0	0.2	511	**4225.46**
4	Sheep	3202	0	16010	3202	0.2	511	**1636.22**
5	Camel	110	0	0	220	3	7665	**843.15**
6	Poultry	0	0	0	0	0	0	**0**
7	Piggery	0	0	0	0	0	0	**0**
	Total	**14820**	**4011.2**	**126560**	**3422**	**7.4**	**18907**	**17798.641**

Source by PRA Exercise.

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

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

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

Table 2.8 Existing area under fodder (ha)

S.No	Item	Unit	Area/Quantity
1	Existing Cultivable area under Fodder	ha	4668 ha
2	Production of Green fodder	Tonns/year	23.4
3	Production of Dry fodder	Tonns/ Year	6164.5
4	Area under Pastures	Ha	102.6
5	Production of fodder	Tonns/year	14377.32 mt
6	Existing area under Fuel wood	Ha	No.
7	Supplementary feed	Kgs/ day	-
8	Silage Pits	No	-
9	Availability of fodder	quintals	143773.2 qt.
10	Deficiency of fodder	quintals	177986.41 -143773.2 = 34213.21 qt

The table above shows there is fodder deficiency (Requirement is 17798 MT and availability 8190.40 MT)

To minimize the large and expanding gap between feed and fodder resource availability and demand there is need for

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

Table 2.9 Agriculture implements

1	2	3
S. No	**Implements**	**Nos.**
1	Tractor	18
2	Sprayers-manual/ power	-
3	Cultivators/Harrows	36
4	Seed drill	-
5	Any Other	-

Farm mechanization and seed banks: As discussed earlier 16.29 % land holdings belong to small and marginal farmers who own only 13% 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	Tiroki badi	476	476	BNRGSK – WORK OF CATEGORY IVth
2	Tiroki badi	360	360	BNRGSK – WORK OF CATEGORY IVth
3	Madopura	437	437	BNRGSK – WORK OF CATEGORY IVth
4	Sutod	184	184	BNRGSK – WORK OF CATEGORY IVth
5	Dhani kriparam	123	123	BNRGSK – WORK OF CATEGORY IVth
6	Dhani ridmal	48	48	BNRGSK – WORK OF CATEGORY IVth
7	Jewali	18	18	BNRGSK – WORK OF CATEGORY IVth
8	Manasi	360	360	BNRGSK – WORK OF CATEGORY IVth
9	Dhani mangaldas	189	189	BNRGSK – WORK OF CATEGORY IVth

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)
Sutod	150	180	Not enough livelyhood	10-12	Labour work	17.10
Dh. Kriparam	70	180	Not enough livelyhood	12-14	Labour work	14.50
Tiroki badi	72	180	Not enough livelyhood	6-8	Labour work	11.25
Tiroki choti	75	180	Not enough livelyhood	8-10	Labour work	12.75
Madopura	68	180	Not enough livelyhood	10-12	Labour work	11.50
Jewali	140	180	Not enough livelyhood	12-15	Labour work	25.00
Dhani ridhmal	20	180	Not enough livelyhood	10-12	Labour work	4.50
Dhani mangaldas	25	180	Not enough livelyhood	13-15	Labour work	4.00
Manasi godan	25	180	Not enough livelyhood	13-15	Labour work	4.00
Total	645					104.60

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

The existing livelihoods Village are given below

Table 2.12(a) Major activites (On Farm)

Name of Activities	No. of house hold	Average annual income from
Cultivators	2745	5500
Dairying	117	10200
Poultry	-	-
Piggery	-	-
Landless Agri. Labours	-	-

* Source Base Line survey done by WDT members.

Table 2.12(b) Major activities (Off Farm)		
Name of activity	Households/individuals	Average annual income from the
Artisans	-	-
Carpenter	30	27000
Blacksmith	20	18000
Leather Craft	-	-
Porter	-	-
Mason	78	15000
Others specify (Cycle Repair ,STD,Craft etc)	-	-

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	Bank with AC No.	Activity involved	Monthly income	Fund available
1	Jyoti – Dhani kriparam	10	PNB Ganeri A/c 3032	STD	500	**5000**
2	Adarsh – Madhopura	10	RGB Mangloona A/c 3070	Milk Production	500	**6200**
3	Manoj – Tiroki Badi	10	PNB Ganeri A/c 3250	Milk	1000	**2000**
4	Priyanka – Tiroki Badi	10	PNB Ganeri A/c 3350	Bundi Bandhage	2000	**1000**
5	Laxmi – Tiroki choti	10	PNB Ganeri A/c 5022	Tailring	1000	**1000**
6	Vijay – Tiroki Badi	10	PNB Ganeri A/c 4031	-	1000	**8000**
7	Balaji – Jevali	10	SKSB, Nechhwa A/c 256	-	500	**3000**
8	Laxmi – Jevali	10	SKSB, Nechhwa A/c 160	Tailring	1000	**25000**
9	Shiv – Sutod	10	PNB Ganeri A/c 3505		500	**1000**

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

II. Technical Features

Table 2.14 Ground Water

S.No	Source	No.	Functional depth	Dry	Area irrigated	Water availability(days)
i)	Dug wells	215	50 Mtr.	49	818	365
ii)	Shallow tube wells	-	-	-	-	-
iii)	Pumping sets	-	-	-	-	-
iv)	Deep Tube Wells	15	65 Mtr.	-	-	365
	Total	230		49	818	365

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	Tiroki Badi	94160	94160	29	29	Nil	Nil
2	Tiroki Choti	64720	64720	45	45	Nil	Nil
3	Madhopura	24160	24160	15	15	Nil	Nil
4	Sutod	85840	85840	30	30	Nil	Nil
5	Dhani Kriparam	42360	42360	26	26	Nil	Nil
6	Dhani Ridmal	24200	24200	4	4	Nil	Nil
7	Jevali	73760	73760	15	15	Nil	Nil
8	Dhani Mangaldas	19480	19480	1	1	Nil	Nil
9	Manasi Godan	15160	15160	1	1	Nil	Nil
	Total	**443840**	**443840**	**166**	**166**		

Table 2.16 Water Use efficiency

Name of major crop	Area (Hectare)			
	through water saving devices(Drip/Sprinklers)	through water conserving agronomic practices[#]	Any other (pl. specify)	Total
Gram and Mustured	Sprinklars	Dry farming		

- 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%	5010
2	3 to 8%	-
3	8 to 25%	-
4	> 25%	-

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

Table 2.19 Soil details

	Soil Profile	
S.No.	Major Soil Classes	Area in hectares
1		-
2	Sandy soil	5010
	Soil Depth :	
B	Depth (Cms.)	Area in hectares
1	0.00 to 7.50	
2	7.50 to 45.00	
3	> 45.00	5010

C	Soil fertility Status	Kg/ha	Recommended
	N	60 kg	70-116
	P	43 kg	40-60
	K	330 kg	144-330
	Micronutrients	PPM Zink - .47 PPM	6PPM
		Iron - .4 PPM	4.5 PPM
		Mm - 1.8 PPM	2 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	-	-	-	-
b	Rill	-	-	-	-
c	Gully	-	-	-	-
Sub-Total		-	-	-	
Wind erosion	Wind erosion	5010	50 mm	-	
Total for project		5010	-	-	

The need is:

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

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

A) Preparatory phase activities 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 **Tiroki Badi** 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	Tiroki Badi	01.12.11
2	Sutod	01.12.11
3	Mangloona	02.12.11
4	Ganeri	03.12.11
5	Kumas Jagir	02.12.11
6	Ghiraniya Bada	-

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

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	Tiroki Badi	June 2010 to January 2011
2	Mangloona	June 2010 to January 2011
3	Sutod	June 2010 to January 2011
4	Ganeri	June 2010 to January 2011
5	Ghiraniya Bada	June 2010 to January 2011
6	Kumas Jagir	June 2010 to January 2011

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

Socio-economic survey was carried out during **June 2010 to January 2011** (dates) period covering all the households and primary data on demography, Land holdings, Employment status, Community activities etc. was collected as mentioned in chapter 2.

State remote sensing department was assigned the work of preparing various thematic layers **using** Cartosat-1 and LISS-3 imageries for **Creation**, development and management of geo-spatial database depicting present conditions of land (terrain), water and vegetation with respect to watershed under different ownerships at village level

Various thematic layers provided by SRSAC are :

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

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

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CHAPTER -IV Activity wise Total Abstract of cost

Name of Water shad :- Tiroki Badi (IWMP Sikar II)

Name of Grampanchayat :- Tiroki Badi, Sutod, Manglooa, Ganeri, Kumas jagir, Ghiraniya Bada.

Name of Block :- Laxmangarh

Name of District :- Sikar

(A)							
Total							
Activity	Unit	Unit Cost	Quantity	Total Cost	Cost from Project Fund	Convergence Fund	Beneficiary Contribution
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Admn.	-	-	-	75.15	75.15		
Monitoring	-	-	-	7.515	7.515		
Evaluation	-	-	-	7.515	7.515		
EPA	-	-	-	30.06	30.06		
I & CB	-	-	-	37.57	37.57		
DPR	-	-	-	7.52	7.52		
Total (A)	-	-	-	**165.33**	**165.33**		
(B) **Natural resource management (60%)**							
Conservation measures for arable land(private land)							5 - 10 % towards WDF
Tanka	No	75000	500	375.00	375.00		
WECM	Ha	20250	189	38.29	38.29		
Conservation measures for non arable land							
Staggred Trenches	Ha	24000	43	10.31	10.31		
Total (B)				**423.60**	**423.60**		
(C) Production measures for arable land							
Horticulture plantation near Tanka 0.2 ha each	No	22800	168	38.30	28.73		20-40 % towards project cost
Only dry land horticulture 0.5 ha each	no	22000	132	29.04	21.81		
Vermi compost	no	3500	157	5.51	4.14		
Crop Demonstration	no	600	1877	11.26	8.45		
Agro forestry	no	82	8274	6.79	5.09		
Sub Total				**90.90**	**68.22**		
Production Measures in Non arable							
Dry land Hort.	no	192000	6	11.52	11.52		
Pasture development 3 ha each	no	1700000	6	10.2	10.2		
Pasture development 10 ha each	no	511000	2	10.22	10.22		
Micro Enterprise							
Dairy				12.51	12.51		
poultry							
Local Artisans/crafts							
Total (C)				**135.35**	**112.67**		

(D) Live stock management and fodder demostration							
Animal Health camp				5.77	5.77		
Destribution of bulls /				4.29	4.29		
Compost pit				5.19	5.19		
Distribution of mangers				4.5	4.5		
Fodder production				7.61	7.61		
Total (D)				27.36	27.36		
(E) Consolidation				22.54	22.54		
Grand Total				**774.18**	**751.50**		

CHAPTER -IV Activity wise Total Abstract of cost

Name of Water shad :- Tiroki Badi (IWMP Sikar II)
Name of Grampanchayat :- Tiroki Badi, Sutod, Manglooa, Ganeri, Kumas jagir, Ghiraniya Bada.

Name of Block :- Laxmangarh
Name of District :- Sikar

Total Project Cost - 751.50 Lacs

1. Total Geographical Area - 5321 ha
2. Effective Area - 5010 ha
a. Arable land - 4668 ha
(i) Irrigated - 818 ha
(ii) Unirrigated - 3850 ha
b. non arable land - 653 ha
(i) Pastureland - 342 h
(ii) Non available for treatment - 168
Forestland - 143 ha

Proposed Development Plan																	
(A)	Preparatory phase activities capacity building trainings & EPA																
GP 1 (Sutod)(1475 ha)								GP 2 Tiroki Badi) (1475 ha)							Total = GP1+GP2		
Activity	Unit	Unit Cost	Qty	Total Cost	Cost from Project Fund	Convergence Fund	Beneficiary Contribution	Q.Y	Total Cost	Cost from Project Fund	Convergence Fund	Beneficiary Contribution	Quantity	Total Cost	Cost from Project Fund	Convergence Fund	Beneficiary Contribution
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Admn.				22.125	22.125				22.125	22.125				44.25	44.25		
Monitoring				2.2125	2.2125				2.2125	2.2125				4.425	4.425		
Evaluation				2.2125	2.2125				2.2125	2.2125				4.425	4.425		
EPA				8.85	8.85				8.85	8.85				17.7	17.7		
I & CB				11.0625	11.0625				11.0625	11.0625				22.125	22.125		
DPR				2.2125	2.2125				2.2125	2.2125				4.425	4.425		
Total (A)				**48.675**	**48.675**				**48.675**	**48.675**				**97.35**	**97.35**		
(B)	**Natural resource management (60%)**																
Conservation measures for arable land(private land)																	
							5 - 10 % towards WDF					5 - 10 % towards WDF					5 - 10 % towards WDF
Tanka	No	7500	149	111.75	111.75			145	108.75	108.75			294	220.5	220.5		
WECM	HA	20250	70	14.18	14.18			70	14.18	14.18			140	28.36	28.36		
Conservation measures for non arable land																	
Staggred Trenches	Ha	24000	10	2.4	2.4			22	5.28	5.28			32	7.68	7.68		
Total (B)				**128.33**	**128.33**				**128.21**	**128.21**				**256.54**	**256.54**		

Production measures for arable land																
Horticulture plantation near Tanka 2 ha each	No	22800	62	14.14	10.61		20-40 % towards project cost	44	10.03	7.52	20-40 % towards project cost		106	24.17	18.13		20-40 % towards project cost
Only dry land horticulture 0.50 ha each	NO	22000	29	6.38	4.79			43	9.46	7.10			72	15.84	11.89		
Vermi compost	No	3500	40	1.4	1.05			48	1.68	1.26			88	3.08	2.31		
Crop Demonstration	No	600	264	1.58	1.19			700	4.20	3.15			964	5.78	4.34		
Agro forestry	No	82	2715	2.23	1.67			2764	2.27	1.70			5479	4.50	3.37		
Sub Total				**25.73**	**19.31**			**3599.00**	**27.64**	**20.73**			**6709.00**	**53.37**	**40.04**		
Production Measures in Non arable																
Dry land Hort. 1.2 ha each	no	192000	1	1.92	1.92			2	3.84	3.84			3	5.76	5.76		
pasture development 3 ha each	no	170000	2	3.4	3.40			2	3.40	3.40			4	6.80	6.80		
pasture development 10 ha each	no	511000	1	5.11	5.11			-	-	-			1	5.11	5.11		
Sub Total				**10.43**	**10.43**				**7.24**	**7.24**				**17.67**	**17.67**		
Micro Enterprise																
Dairy				**3.44**	**3.44**				5.20	5.20				8.64	8.64		
poultry																	
Local Artisans/crafts																	
Total (C)				**39.60**	**33.18**				**40.08**	**33.17**				**79.68**	**66.35**		
(D) Live stock management and fodder demostration																

Animal Health camp				1.00	1.00				1.00	1.00				2.00	2.00		
Destribution of bulls /				0.50	0.50				0.50	0.50				1.00	1.00		
Compost pit				1.19	1.19				1.00	1.00				2.19	2.19		
Distribution of mangers				0.50	0.50				0.50	0.50				1.00	1.00		
Fodder production				1.23	1.23				1.58	1.58				2.81	2.81		
Total (D)				4.42	4.42				4.58	4.58				9.00	9.00		
(E) Consolidation				6.645	6.645				**6.635**	**6.635**				13.26	13.26		
Grand Total				**227.67**	**221.25**				**228.18**	**221.25**				**455.83**	**442.50**		

CHAPTER -IV Activity wise Total Abstract of cost

Name of Water shad :- Tiroki Badi (IWMP Sikar II)
Name of Grampanchayat :- Tiroki Badi, Sutod, Manglooa, Ganeri, Kumas jagir, Ghiraniya Bada.

Name of Block :- Laxmangarh
Name of District :- Sikar

Total Project Cost - 751.50 Lacs

1. Total Geographical Area - 5321
2. Effective Area - 5010
a. Arable land - 4668 ha
(i) Irrigated - 818 ha
(ii) Unirrigated - 3850 ha
b. non arable land - 653 ha
(i) Pastureland - 342 h
(ii) Non available for treatment - 168
Forestland - 143 ha

Proposed Development Plan

(A)	**Preparatory phase activities capacity building trainings & EPA**																
	GP 3 (Mangluna) (400 ha)							**GP 4 (Kumas Jagir) (1120 ha)**						**Total = GP3+GP4**			
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
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**
Admn.				6.00	6.00				16.80	16.80				22.80	22.80		
Monitoring				0.60	0.60				1.68	1.68				2.28	2.28		
Evaluation				0.60	0.60				1.68	1.68				2.28	2.28		
EPA				2.40	2.40				6.72	6.72				9.12	9.12		
I & CB				3.00	3.00				8.40	8.40				11.40	11.40		
DPR				0.60	0.60				1.68	1.68				2.28	2.28		
Total (A)				**13.20**	**13.20**				**36.96**	**36.96**				**50.16**	**50.16**		
(B)	**Natural resource management (60%)**																
Conservation measures for arable land(private land)																	
							5 - 10 % towards WDF					5 - 10 % towards WDF					5 - 10 % towards WDF
Tanka	No	7500	40	3.00	30.00			111	83.25	8.25			151	113.25	113.28		
WECM	HA	20250	9	1.82	1.82			19	3.82	3.85			28	5.67	5.67		
Conservation measures for non arable land																	

Staggred Trenches	Ha	24000	-	-	-			11	2.63	2.63			11	2.63	2.63		
Total (B)				**31.82**	**31.82**				**89.73**	**89.73**				**121.55**	**121.55**		
Production measures for arable land																	
Horticulture plantation near Tanka	NO	22800	13	2.96	2.22		20-40 % towards project cost	33	7.52	5.64	20-40 % towards project cost		46	10.48	7.86		20-40 % towards project cost
Only dry land horticulture	no	22000	11	2.42	1.82			33	7.26	5.45			44	9.68	7.27		
Vermi compost	No	3500	13	0.46	0.35			27	0.95	0.71			40	1.41	1.06		
Crop Demonstration	No	600	133	0.8	0.6			400	2.40	1.81			533	3.20	2.40		
Agro forestry	No	82/-	390	0.32	0.24			1495	1.23	0.92			1885	1.55	1.16		
Production Measures in Non arable																	
Dry land Hort. 1.2 ha each	no	192000	1	1.92	1.92			1	1.92	1.92			2	3.84	3.84		
pasture development 3 ha each	no	170000	1	1..70	1.7			1	1.7	1.7			2	3.4	3.4		
pasture development 10 ha each	no	511000	-	-	-			1	5.11	5.11			1	5.11	5.11		
Micro Enterprise																	
Dairy				**0.15**	**0.15**				1.92	1.92				2.07	2.07		
poultry																	
Local Artisans/crafts																	

Total (C)				**10.73**	**9.00**				**30.01**	**25.17**				**40.74**	**34.17**		
(D) Live stock management and fodder demostration																	
Animal Health camp				1.00	1.00				2.00	2.00				3.00	3.00		
Destribution of bulls /				0.68	0.68				2.11	2.11				2.79	2.79		
Compost pit				0.50	0.50				2.00	2.00				2.50	2.50		
Distribution of mangers				1.00	1.00				2.00	2.00				3.00	3.00		
Fodder production				1.00	1.00				3.00	3.00				4.00	4.00		
Total (D)				4.18	4.18				11.11	11.11				15.29	15.29		
(E) Consolidation				1.800	1.800				**5.03**	**5.03**				6.83	6.83		
Grand Total				**61.73**	**60.00**				**172.84**	**168.00**				**234.57**	**228.00**		

CHAPTER -IV Activity wise Total Abstract of cost

Name of Water shad :- Tiroki Badi (IWMP Sikar II)
Name of Grampanchayat :- Tiroki Badi, Sutod, Manglooa, Ganeri, Kumas jagir, Ghiraniya Bada.

Name of Block :- Laxmangarh
Name of District :- Sikar

Total Project Cost - 751.50 Lacs

1. Total Geographical Area - 5321
2. Effective Area - 5010
a. Arable land - 4668 ha
(i) Irrigated - 818 ha
(ii) Unirrigated - 3850 ha
b. non arable land - 653 ha
(i) Pastureland - 342 h
(ii) Non available for treatment - 168
Forestland - 143 ha

Proposed Development Plan																	
(A)	Preparatory phase activities capacity building trainings & EPA																
GP 5 (Ganeri) (235 ha)								GP 6 (Ghiraniya Bada) (305 ha)					Total = GP5+GP6				
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
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Admn.				3.525	3.5250				4.575	4.575				8.10	8.10		
Monitoring				0.3525	0.3525				0.4575	0.4575				0.81	0.81		
Evaluation				0.3525	0.3525				0.4575	0.4575				0.81	0.81		
EPA				1.4100	1.4100				1.830	1.830				3.24	3.24		
I & CB				1.7625	1.7625				2.2875	2.2875				4.05	4.05		
DPR				0.3525	0.3525				0.4575	0.4575				0.81	0.81		
Total (A)				**7.7550**	**7.7550**				**10.065**	**10.065**				**17.82**	**17.82**		
(B)	**Natural resource management (60%)**																
Conservation measures for arable land(private land)																	
							5 - 10 % towards WDF					5 - 10 % towards WDF					5 - 10 % towards WDF
Tanka	No	75000	22	16.50	16.50			33	24.75	24.75			55	41.25	41.25		
WECM	HA	20250	10	20.3	2.03			10	2.23	2.23			21	4.26	4.26		
Conservation measures for non arable land																	

Staggred Trenches	10 Ha	263000		-	-			-	-	-			-	-	-		
Total (B)				**18.53**	**18.53**				**26.98**	**26.98**				**45.51**	**45.51**		
1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**
Production measures for arable land																	
Horticulture plantation near Tanka	No	22800	7	1.60	1.20		20-40 % towards project cost	9	2.05	1.54	20-40 % towards project cost		16	3.65	2.74		20-40 % towards project cost
Only dry land horticulture	No	22000	7	1.54	1.16			9	1.98	1.49			16	3.52	2.65		
Vermi compost	No	3500	13	0.46	0.35			16	0.56	0.42			29	1.02	0.77		
Crop Demonstration	No	600	-	-	-			380	2.28	1.71			380	2.28	1.71		
Agro forestry	No	82/-	650	0.53	0.40			260	0.21	0.16			910	0.74	0.56		
Production Measures in Non arable																	
Dry land Hort. 1.2 ha each	no	192000	1	1.92	1.92			-	-	-			1.00	1.92	1.92		
pasture development 3 ha each	no	170000	-	-	-			-	-	-			-	-	-		
pasture development 10 ha each	no	511000	-	-	-			-	-	-			-	-	-		
Micro Enterprise																	
Dairy				**0.26**	**0.26**				1.54	1.54				1.80	1.80		
poultry																	
Local Artisans/crafts																	
Total (C)				**6.31**	**5.29**				**8.62**	**6.86**				**14.93**	**12.15**		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
(D) Live stock management and fodder demostration																	
Animal Health camp				0.50	0.50				0.27	1.27				0.77	0.77		
Destribution of bulls /				0.50	0.50				-	-				0.50	0.50		
Compost pit				0.50	0.50				-	-				0.50	0.50		
Distribution of mangers				0.50	0.50				-	-				0.50	0.50		
Fodder production				0.60	0.69				0.20	0.20				0.80	0.80		
Total (D)				2.60	2.69				0.47	0.47				3.07	3.07		
(E) Consolidation				1.075	1.0750				**1.375**	**1.375**				2.45	2.45		
Grand Total				**35.25**	**35.25**				**47.51**	**45.75**				**83.78**	**81.00**		

CHAPTER – V

Name of Water shad :- Tiroki Badi (IWMP Sikar II)
Name of Grampanchayat :- Tiroki Badi, Sutod, Manglooa, Ganeri, Kumas jagir, Ghiraniya Bada.

Name of Block :- Laxmangarh
Name of District :- Sikar

Total Project Cost - 751.50 Lacs

1. Total Geographical Area - 5321
2. Effective Area - 5010
a. Arable land - 4668 ha
(i) Irrigated - 818 ha
(ii) Unirrigated - 3850 ha
b. non arable land - 653 ha
(i) Pastureland - 342 h
(ii) Non available for treatment - 168
Forestland - 143 ha

(A)	Preparatory phase activities capacity building trainings & EPA																			
Activity	Unit	Quantity	Unit Cost	Total cost	1st year		2nd year		3rd year		4th year		5th year		6th year		7th year		Total	
					Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Admn.			75.15	75.15				2.41		-		14.50		14.50		14.50		14.74		75.15
Monitoring			7.515	7.515				-		-		1.50		1.50		1.50		1.515		7.515
Evaluation			7.515	7.515				-		15.00		1.50		1.50		1.50		1.515		7.515
EPA			30.06	30.06				16.51		13.55		-		-		-		-		30.06
I & CB			37.57	37.57				0.18		7.45		7.45		7.45		7.45		7.591		37.57
DPR			7.52	7.52				0.04		7.48		-		-		-		-		7.52
Total (A)			**165.33**	**165.33**				**19.14**		**43.480**		**24.95**		**24.95**		**24.95**		**25.36**		**165.33**
(B)	**Natural resource management(60%)**																			
Conservation measures for arable land(private land)																				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Tanka	no	500	75000	375.00	-	-	-	-	100	75.00	100	75.00	100	75.00	100	75.00	100	75.00	500	375.00
WECM	ha	189 ha	20250	38.29	-	-	-	-	400	8.10	40	8.10	40	8.10	40	8.10	29	5.89	189	38.29
Conservation measures for non arable land																				
Staggred Trenches	ha	43	2400	10.31	-	-	-	-	10	2.40	10	2.40	10	2.40	10	2.40	3	0.71	43	10.31
Total (B)				**423.60**	**-**	**-**	**-**	**-**	**-**	**85.50**	**-**	**85.50**	**-**	**85.50**	**-**	**85.50**	**-**	**81.60**	**-**	**423.60**
(C)	**Production System and micro enterprise(15%)**																			

Production measures for arable land																			
Horticulture plantation near Tanka 0.2 Ha each	Nos	126	22800	28.73	-	-	-	-	25	5.70	25	5.70	25	5.70	25	5.70	26	5.93	126	28.73
only dry land Hort. 0.5 ha each	Nos	99	22000	21.81	-	-	-	-	20	4.40	20	4.40	20	4.40	20	4.40	19	4.21	99	21.81
Vermi compost	Nos	118	3500	4.14	-	-	-	-	24	0.84	24	0.84	24	0.84	24	0.84	22	0.78	118	4.14
Crop Demonstration	Nos	1408	600	8.45	-	-	-	-	280	1.68	280	1.68	280	1.68	280	1.68	283	1.73	1408	8.45
agro forestry	Nos	6207	82	5.09	-	-	-	-	1200	0.98	1200	0.98	1200	0.98	1200	0.98	1407	1.17	6207	5.09
Sub Total				**68.22**	**-**	**-**	**-**	**-**	**1549**	**13.60**	**1549**	**13.60**	**1549**	**13.60**	**1549**	**13.60**	**1757**	**13.82**	**7958**	**68.22**
Production Measures in non arable																			
Dry land Hort. 1.2 ha each	nos	6	192000	11.52	-	-	-	-	-	-	2	3.84	2	3.84	1	1.92	1	1.92	6	11.52
Pasture Develoment only 3 ha each	no	6	170000	10.2	-	-	-	-	-	-	2	3.40	2	3.40	1	1.70	1.00	1.70	6	10.20
Pasture Develoment only 10 ha each	No	2	511000	10.22	-	-	-	-	-	-	1	5.11	1	5.11	-	-	-	-	2	10.22
Sub Total				**31.94**	**-**	**-**	**-**	**-**	**-**	**-**	**5**	**12.35**	**5**	**12.35**	**2**	**3.62**	**2**	**3.62**	**14**	**31.94**
Micro Enterprise																			
Dairy				12.51	-	-	-	-	-	2.50	-	2.50	-	2.50	-	2.50	-	2.51	-	12.51
Poultry																				
Local Artisans/Crafts																				
Total (c)				112.67	-	-	-	-	-	16.10	-	28.45	-	28.45	-	19.72	-	19.95	-	112.67
(D) Live stock management and fodder demostration																			
Animal Helath Camp				5.77	-	-	-	-	-	1.15	-	1.15	-	1.15	-	1.15	-	1.17	-	5.77
Destribution of bulls/				4.29	-	-	-	-	-	0.80	-	0.80	-	0.80	-	0.80	-	1.09	-	4.29

Compost pit				5.19	-	-	-	-	-	1.00	-	1.00	-	1.00	-	1.00	-	1.19	-	5.19
distribution of mangers				4.5	-	-	-	-	-	0.90	-	0.90	-	0.90	-	0.90	-	0.90	-	4.50
Fodder Production				7.61	-	-	-	-	-	1.50	-	1.50	-	1.50	-	1.50	-	1.61	-	7.61
Total (D)				**27.36**	**-**	**-**	**-**	**-**	**-**	**5.35**	**-**	**5.35**	**-**	**5.35**	**-**	**5.35**	**-**	**5.96**	**-**	**27.35**
(E) Consolidation				**22.54**	**-**	**-**	**-**	**-**	**-**	**4.5**	**-**	**4.5**	**-**	**4.5**	**-**	**4.5**	**-**	**4.54**	**-**	**22.54**
Grand Total				**751.5**	**-**	**-**	**-**	**19.14**	**-**	**157.42**	**-**	**148.8**	**-**	#####	**-**	#####	**-**	#####	**-**	**751.5**

CHAPTER – V

Name of Water shad :- Tiroki Badi (IWMP Sikar II)
Name of Grampanchayat :- Tiroki Badi, Sutod, Manglooa, Ganeri, Kumas jagir, Ghiraniya Bada.

Name of Block :- Laxmangarh
Name of District :- Sikar

Total Project Cost - 751.50 Lacs

1. Total Geographical Area - 5321
2. Effective Area - 5010
a. Arable land - 4668 ha
(i) Irrigated - 818 ha
(ii) Unirrigated - 3850 ha
b. non arable land - 653 ha
(i) Pastureland - 342 h
(ii) Non available for treatment - 168
Forestland - 143 ha

(A)	Preparatory phase activities capacity building trainings & EPA																			
Activity	Unit	Quantity	Unit Cost	Total cost	1st year		2nd year		3rd year		4th year		5th year		6th year		7th year		Total	
					Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Admn.			75.15	75.15				2.41		-		14.50		14.50		14.50		14.74		75.15
Monitoring			7.515	7.515				-		-		1.50		1.50		1.50		1.515		7.515
Evaluation			7.515	7.515				-		15.00		1.50		1.50		1.50		1.515		7.515
EPA			30.06	30.06				16.51		13.55		-		-		-		-		30.06
I & CB			37.57	37.57				0.18		7.45		7.45		7.45		7.45		7.591		37.57
DPR			7.52	7.52				0.04		7.48		-		-		-		-		7.52
Total (A)			**165.33**	**165.33**				**19.14**		**43.480**		**24.95**		**24.95**		**24.95**		**25.36**		**165.33**
(B)	**Natural resource management(60%)**																			
	Conservation measures for arable land(private land)																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Tanka	no	500	75000	375.00	-	-	-	-	100	75.00	100	75.00	100	75.00	100	75.00	100	75.00	500	375.00
WECM	ha	189 ha	20250	38.29	-	-	-	-	400	8.10	40	8.10	40	8.10	40	8.10	29	5.89	189	38.29
	Conservation measures for non arable land																			
Staggred Trenches	ha	43	2400	10.31	-	-	-	-	10	2.40	10	2.40	10	2.40	10	2.40	3	0.71	43	10.31
Total (B)				**423.60**	**-**	**-**	**-**	**-**	**-**	**85.50**	**-**	**85.50**	**-**	**85.50**	**-**	**85.50**	**-**	**81.60**	**-**	**423.60**
(C)	**Production System and micro enterprise(15%)**																			
	Production measures for arable land																			
Horticulture plantation near Tanka 0.2 Ha each	Nos	126	22800	28.73	-	-	-	-	25	5.70	25	5.70	25	5.70	25	5.70	26	5.93	126	28.73
only dry land Hort. 0.5 ha each	Nos	99	22000	21.81	-	-	-	-	20	4.40	20	4.40	20	4.40	20	4.40	19	4.21	99	21.81
Vermi compost	Nos	118	3500	4.14	-	-	-	-	24	0.84	24	0.84	24	0.84	24	0.84	22	0.78	118	4.14
Crop Demonstration	Nos	1408	600	8.45	-	-	-	-	280	1.68	280	1.68	280	1.68	280	1.68	283	1.73	1408	8.45
agro forestry	Nos	6207	82	5.09	-	-	-	-	1200	0.98	1200	0.98	1200	0.98	1200	0.98	1407	1.17	6207	5.09
Sub Total				**68.22**	**-**	**-**	**-**	**-**	**1549**	**13.60**	**1549**	**13.60**	**1549**	**13.60**	**1549**	**13.60**	**1757**	**13.82**	**7958**	**68.22**

Production Measures in non arable																				
Dry land Hort. 1.2 ha each	nos	6	192000	11.52	-	-	-	-	-	-	2	3.84	2	3.84	1	1.92	1	1.92	6	11.52
Pasture Develoment only 3 ha each	no	6	170000	10.2	-	-	-	-	-	-	2	3.40	2	3.40	1	1.70	1.00	1.70	6	10.20
Pasture Develoment only 10 ha each	No	2	511000	10.22	-	-	-	-	-	-	1	5.11	1	5.11	-	-	-	-	2	10.22
Sub Total				**31.94**	**-**	**-**	**-**	**-**	**-**	**-**	**5**	**12.35**	**5**	**12.35**	**2**	**3.62**	**2**	**3.62**	**14**	**31.94**
Micro Enterprise																				
Dairy				12.51	-	-	-	-	-	2.50	-	2.50	-	2.50	-	2.50	-	2.51	-	12.51
Poultry																				
Local Artisans/Crafts																				
Total (c)				112.67	-	-	-	-	-	16.10	-	28.45	-	28.45	-	19.72	-	19.95	-	112.67
(D) Live stock management and fodder demostration																				
Animal Helath Camp				5.77	-	-	-	-	-	1.15	-	1.15	-	1.15	-	1.15	-	1.17	-	5.77
Destribution of bulls/				4.29	-	-	-	-	-	0.80	-	0.80	-	0.80	-	0.80	-	1.09	-	4.29
Compost pit				5.19	-	-	-	-	-	1.00	-	1.00	-	1.00	-	1.00	-	1.19	-	5.19
distribution of mangers				4.5	-	-	-	-	-	0.90	-	0.90	-	0.90	-	0.90	-	0.90	-	4.50
Fodder Production				7.61	-	-	-	-	-	1.50	-	1.50	-	1.50	-	1.50	-	1.61	-	7.61
Total (D)				**27.36**	**-**	**-**	**-**	**-**	**-**	**5.35**	**-**	**5.35**	**-**	**5.35**	**-**	**5.35**	**-**	**5.96**	**-**	**27.35**
(E) Consolidation				**22.54**	**-**	**-**	**-**	**-**	**-**	**4.5**	**-**	**4.5**	**-**	**4.5**	**-**	**4.5**	**-**	**4.54**	**-**	**22.54**
Grand Total				**751.5**	**-**	**-**	**-**	**19.14**	**-**	**157.42**	**-**	**148.8**	**-**	**148.75**	**-**	**140.02**	**-**	**137.42**	**-**	**751.50**

सहायक अभियन्ता (जल ग्रहण)
पं. स. लक्ष्मणगढ़ (सीकर)

मानक लागत अनुमान

1. कार्य का नाम :– जलकुण्ड का निर्माण
2. गतिविधि का नाम :– कृषि भुमि संरक्षण कार्य
3. योजना का नाम :– आई0डब्लू0एम0पी0 तिडोकी बडी, पंचायत समिति–लक्ष्मणगढ़ (सीकर)
4. जलकुण्ड का विवरण :– कुण्ड का व्यास (बाहर) 3.30 मी.
   कुण्ड का व्यास (अन्दर) 2.85 मी.
   कुण्ड की खुदाई 3.30 मी.
   कुण्ड की चिनाई 3.80 मी.
   कुण्ड की क्षमता 21000 ली.

क्र.	कार्य का विवरण	संख्या	ल0	चौ0	उं0	मात्रा	ईकाई	दर	कुल राशि
1	नींव में 1.5 मीटर गहराई तक मिट्टी की खुदाई करना, तल को कूटना पानी डालना, खुदी मीट्टी को बाहर निकालना, नींव भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मि्टी को 50 मीटर की दुरी तक निस्तारण करना सख्त मिट्टी में 3.14/4X3.30X3.30X1.50=12.80					12.82	घ0मी0	75	961=50
2	नींव की खुदाई एक अतिरिक्त उठान सहित 1.डी. से 3 मी. तक 3.14/4X3.30X3.50X0.50=12.82					12.82	घ0मी0	86	1102=52
3	अतिरिक्त उठान 3 मी. से 3.5 मी. तक 3.14/4X3.30X3.30X0.30=2.56					2.56	घ0मी0	97	248=32
4	कुण्ड में सीमेंट कंकरीट 1:2:4 में पत्थर की मिट्टी 12मीमी के साथ मिलाकर डालना, कूटना व तराई करना। $0.785X2.85^2X0.15=0.956$					0.956	घ0मी0	2804	2680=62
5	नींव एवं कुर्सी में द्वितीय श्रेणी की ईंट की निचाई सीमेंट बजरी 1:6 में मयं बगल की झीरी बन्द करने तथा तराई समेत $0.785X(3.30^2-2.85^2)X3.80=$					8.255	घ0मी0	2100	17335=50
6	पत्थर का लिंटन लगाने का कार्य 2X3.30X.30=1.98	2.00	3.30	0.30		1.98	व0मी0	789	1562=22
7	अव्वल दर्जे की पत्थर की पट्टीयों की छत डालना, उपर व नीचे के जोडो के पत्थर के चिप के साथ 1:4 में सीमेंट मसाले से भरना $.785X3.30^2=8.55$ घटाना.6X.6=.36	0.785	3.30	3.30		8.55			

	Deductions	1.00	0.60	0.6	0.36				
						8.19	व0मी0	805	6592=95
8	पक्के ईंट के टुकडे या पत्थर के छोटे कातले में सीमेंन्ट मसाला 1:4 में भवंरिया डालना पट्टी छत के उपर तथा आपूर्ति करना	Area as per Item No. 7				8.19	व0मी0	162	1326=78
9	50मीमी मोटाई में फर्श में सीमेंट कंकरीट 1:2:4 में पत्थर की गीटी 12मीमी के साथ मिलाकर डालना, कूटना व तराई करना	Area as per Item No. 7				8.19	व0मी0	213	1744=47
10	पाईथन दिवार/स्करटिंग हेतु नींव में 1.5 मीटर गहराई तक मिट्टी की खुदाई करना तल को कूटना पानी डालना खुदी मिट्टी को बाहर निकालना नींव भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर की दुरी तक निस्तारण करना सख्त मिट्टी में।	22/7X8X.30X.30				2.26	घ0मी0	75	169=50
11	नीव एवं कुर्सी में द्वितीय श्रेणी की ईंट की निचाई सीमेंट बजरी 1:8 में मय बगल की झीरी बन्द करने तथा तराई समेत	22/7X8.25X.23X.75=4.47				4.47	घ0मी0	1940.80	8675=37
12	पायथन हेतु ईंटो का खरंजा कार्य 1:3 सिमेंट रेत मसाला में व जोडो को भरना .785(8^2-3.30^2)=41.69					41.69	व0मी0	265	11048=20
13	पायतन में सीमेंट प्लास्तर दीवार पर 1:6 में सीमेंट बजरी मिलाकर जोडो को कुरेदना तथा तराई सहित 20 मीमी मोटाई में .785(8^2-3.30^2)=41.69					41.69	व0मी0	90	3752=10
14	पायतन दिवार में सीमेंट प्लास्तर का कार्य 1:6 में सीमेंट बजरी मिलाकर जोडो को कुरेदना तथा तराई सहित 20 मीमी मोटाई में 22/7x8.25(.45+.45+.23)=21.51					21.51	व0मी0	90	1935=90
15	कुण्ड में सीमेंट प्लास्टर का कार्य 1:6 में सीमेंट बजरी मिलाकर जोडो को कुरेदना तथा तराई सहीत 20मीमी मोटाई में								
	पैंदे पर	0.785	2.85	2.85		6.37	व0मी0		
	अन्दर	3.14	2.85	3.50		31.33	व0मी0		
	बाहर	3.14	3.30	0.50		5.18	व0मी0		
	ऊपर	0.785	3.30	3.30		8.548	व0मी0		
				कुल मात्रा		51.428	व0मी0	104	5348=51
16	ऊंटगाडी से पानी की आपूर्ति का	10.00				10.00	दिवस	400	4000=00

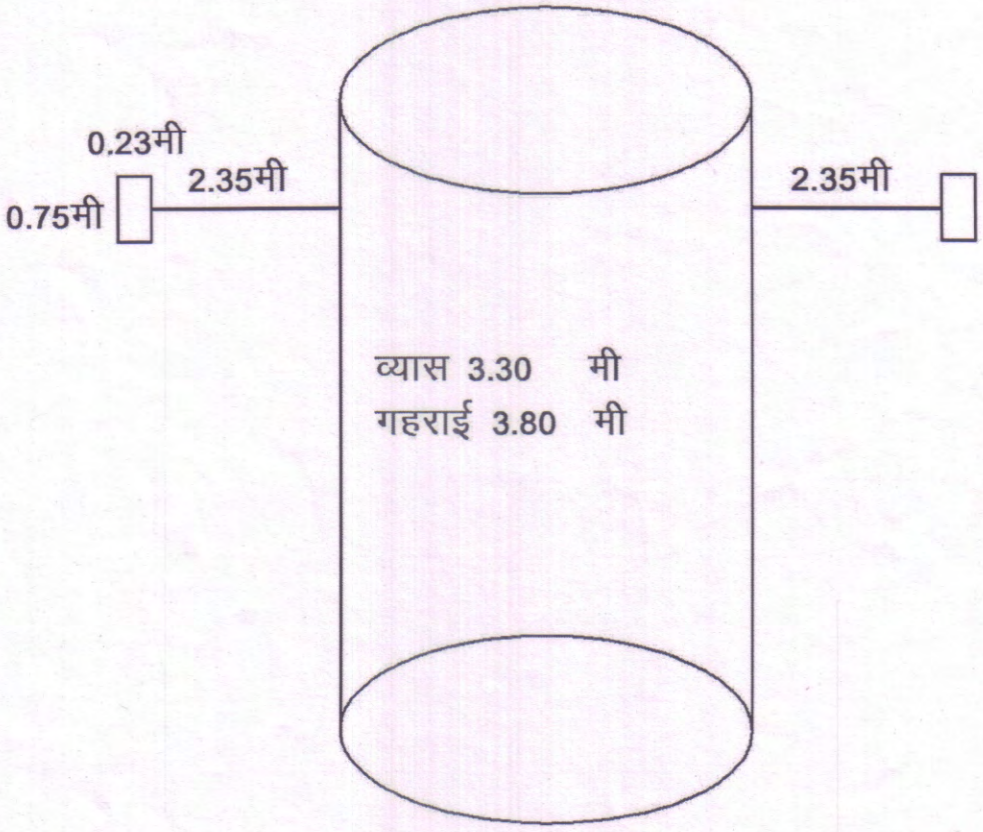
	कार्य							
17	बजरी परिवहन 100 किमी दुरी से				22.00	ध0मी0	120	2640=00
18	गीट्टी परिवहन 45 किमी दुरी से				14.00	ध0मी0	43.25	612=00
19	एलुमुनीयम ढक्कन व लोहे की जाली लाना व लगाने का कार्य							800=00
				योग				72536=46
	कंटीजेन्सी चार्जेज @3%							2176=09
				महायोग				74712=55

Say Rs. 75000/-

सहायक अभियन्ता

पंचायत समिति लक्ष्मणगढ़ (सीकर)

1. कार्य का नाम :– मॉडल जल कुण्ड निर्माण



सहायक अभियन्ता
पंचायत समिति लक्ष्णगढ़
(सीकर)

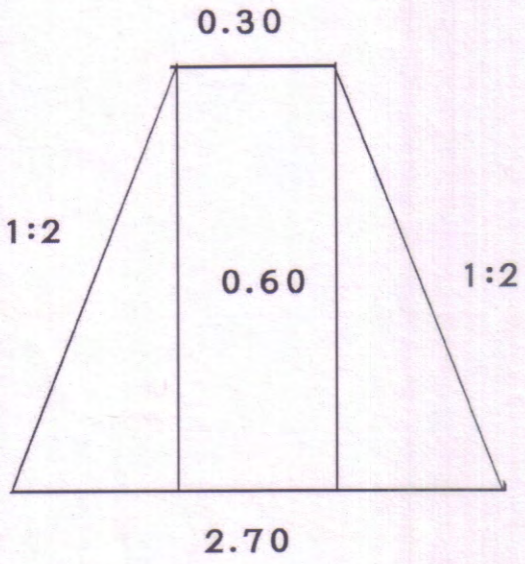
सामग्री विवरण प्रपत्र (MaterialConsumption statement)

S.N.	Item	Quantity.	Cement (Bags)	Sand (cum)	Gitti (Cum)	Bricks (Nos.)	Stone Patti (Sq.M.)	Stone Lintel's (Sq.M.)
1.	Cement Concreting in 1:2:4, 12 mm Gitti Size	0.956 Cum.	5.58	0.39	0.784	-	-	-
2.	IInd Grade Bricks masonary work in 1:6 CM	8.255 Cum	8.99	1.91	6.77	3905	-	-
3.	Stone Patti for Roof	8.19 Sqm.	-	-	-	-	8.19	-
4.	S/F of stone Lintel	1.98 Sqm.	-	-	-	-	-	1.98
5.	50 MM thick Cement concreting in 1:2:4, 12 MM Gitti size.	8.19 Sqm.	2.55	0.18	0.368	-	-	-
6.	Pythen Cement pointing work in 1:3 CM	41.69 Sqm	4.00	1.08	-	2210	-	-
7.	Cement plaster work for pythen boundry & Tanka complete work in 1:6: CM, 20 MM thick21.50 + 51.428 = 72.938	72.938 Sqm.	8.48	1.75	-	-	-	-
	TOTAL		29.6 Say 30 bags	5.31 Cum	7.922 Cum	6115 Nos.	8.19 Sqm.	1.98 Sqm.

सहायक अभियन्ता (जल ग्रहण)
पं. स. लक्ष्मणगढ़ (सीकर)

लागत अनुमान

वायु अपरदन रोकधाम ढांचे (Wind Erosion Control Measures)



1Ha = 300m

(1) E/W Excavation in Sandy Soil

1x2.70+0.30/2x0.60=0.90cum

0.90cum@75/- _____Rs. 67.50 per mts.

So per Ha cost 300 mts @67.50/- Per mts = Rs. 20250/-

सहायक अभियन्ता

पंचायत समिति लक्ष्मणगढ़ (सीकर)

Estimate of Straggard Trenches

Name of Water Shed : Tiroki Badi

Stagared Trenches work

Straggard

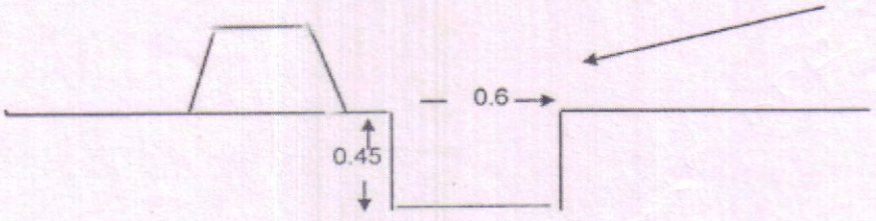
Spacing : 4 x 4 mts

Size : 4x0.60x0.45 m

Trench Per ha = 250 Nos.

S. No.	Item	Qty.	Rate	Amount
1	Dag belling work 250x4x2 = 2000 mts	2000 mts	1	2000.00
2	E/w excavation in ordinary soil 250x4x0.60x0.45	270 cum	75	20250.00
3	Dhamangrass sowing over the bund (one row) 250x4 = 1000 Rmt	1000 mts	0.25	250.00
4	Cost of seed 1 kg/100 mts = 10 kg	10 kg	100	1000.00
			Total	**23500.00**
			Add. 3% contigancy	**705.00**
			Grand Total	**24205.00**
			Say	**24000**

So cost per hact. = Rs. 24500/-



सहायक अभियन्ता (जल ग्रहण)
पं. स. लक्ष्मणगढ़ (सीकर)

विस्तृत लागत अनुमान

1. कार्य का नाम :– कृषि उद्यानिक कार्य (जल कुण्ड के साथ)

2.ग्राम :– **9 Nos.** **ग्राम पंचायतें:–** तिड़ोकह बड़ी, मंगलूणा, गनेड़ी, कुमास जागीर,घिरर

क्षेत्रफल:– 0.2 हैक्टर **पौधों की संख्या– 70**

3. योजना का नामः– आई0डब्ल्यू0एम0पी0 तिडोकी बडी, पंचायत समिति, लक्ष्मणगढ़

क्र.	कार्य का पिवरण	संख्या	ल.	चौ.	उ.	मात्रा	इकाई	दर	कुल राशि
6	पौधे लगाने हेतु खड्डे खेदना								
	नींबु	17.00	0.90	0.90	0.90	12.39	घन मी0	75.00	929.25
	बडेड बेर	17.00	0.90	0.90	0.90	12.39	घन मी0	75.00	929.25
	अनार	16.00	0.60	0.60	0.60	3.46	घन मी0	75.00	259.50
	पपीता	15.00	0.45	0.45	0.45	1.37	घन मी0	75.00	102.75
	बील पत्र	5.00	0.90	0.90	0.90	3.65	घन मी0	75.00	273.75
	गैप फिलिंग करना 10 प्रतिशत	7.00	0.90	0.90	0.90	5.10	घन मी0	75.00	382.50
7	पौधों की लागत								
	नींबु	17.00				17.00	प्रति नग	7.00	119.00
	बडेड बेर	17.00				17.00	प्रति नग	10.00	170.00
	अनार	16.00				16.00	प्रति नग	14.00	224.00
	पपीता	15.00				15.00	प्रति नग	15.00	225.00
	बील पत्र	5.00				5.00	प्रति नग	20.00	100.00
	गैप फिलिंग	7.00				7.00	प्रति नग	20.00	140.00
7	पौधों को नर्सरी से साईट तक परिवहन 100 किमी से अधिक दूरी	70.00				70.00	प्रति नग	4.00	280.00
	गैप फिलिंग (20 प्रतिशत) के पौधों का परिवहन	7.00				7.00	प्रति नग	4.00	28.00
	खड्डे में खाद, एस0एस0पी0 इन्सेक्टीसाईड डालना								0.00
10	**अ. फार्म यार्ड मैन्यौर डालना**								0.00
	नींबु – 25 किग्रा	17.00				425.00	किग्रा	0.60	255.00
	बडेड बेर – 20 किग्रा	17.00				340.00	किग्रा	0.60	204.00
	अनार – 20 किग्रा	16.00				320.00	किग्रा	0.60	192.00
	पपीता – 10 किग्रा	15.00				150.00	किग्रा	0.60	90.00
	बील पत्र – 20 किग्रा	5.00				100.00	किग्रा	0.60	60.00
	ब. एस0एस0पी डालना								0.00
	नीबु – 1 किग्रा	17.00				17.00	किग्रा	7.00	119.00
	बडेड बेर – 1 किग्रा	17.00				17.00	किग्रा	7.00	119.00

	अनार – 1 किग्रा	16.00				16.00	किग्रा	7.00	112.00
	पपीता – 0.200 किग्रा	15.00				3.00	किग्रा	7.00	21.00
	बील पत्र – 1 किग्रा	5.00				5.00	किग्रा	7.00	35.00
	गैप फिलिंग के पौधों हेतु	7.00				7.00	किग्रा	7.00	49.00
	स. इन्सेक्टीसाइड डालना	70.00				3.50	किग्रा	300.00	1050.00
8	पौधारोपण करना, सामान्य जमीन	70.00				70.00	प्रति नग	3.00	210.00
	गैप फिलिंग हेतु	7.00				7.00	प्रति नग	3.00	21.00
10	पौधों को उपलब्ध पानी पिलाना 15 लीटर प्रति पौधा प्रथम वर्ष 20x70=1400	70.00				1400.00	प्रति पौधा	1.80	2520.00
	द्वितीय वर्ष 20x70=1400	70.00				1400.00	प्रति पौधा	1.80	2520.00
	तृतीय वर्ष 20x70=1400	70.00				1400.00	प्रति पौधा	1.80	2520.00
11	थावला बनाना, कम से कम 1.00 मीटर अर्धव्यास का	70.00				70.00	प्रति पौधा	3.60	252.00
	द्वितीय वर्ष	70.00				70.00	प्रति पौधा	1.80	126.00
	तृतीय वर्ष	70.00				70.00	प्रति पौधा	1.80	126.00
12	पौधों की निराई, गुडाई करना 15 सेमी गहराई व 15 सेमी अर्धव्यास 2 बार	70.00				140.00	प्रति पौधा	3.60	504.00
	द्वितीय वर्ष 2 बार	70.00				140.00	प्रति पौधा	3.60	504.00
	तृतीय वर्ष 2 बार	70.00				140.00	प्रति पौधा	3.60	504.00
13	एण्डोसल्फान दीमक रोधी दवा की आपूर्ति करना 10 मिली प्रति पौधा प्रथम व्रर्ष 8 बार (8x70x10x1000)	70.00				5.60	प्रति ली	300.00	1680.00
	द्वितीय वर्ष	70.00				5.60	प्रति ली	300.00	1680.00
	तृतीय वर्ष	70.00				5.60	प्रति ली	300.00	1680.00
14	पौधों को पाला/सर्दी से बचाया प्रथम वर्ष	70.00				70.00	प्रति पौधा	5.00	350.00
	द्वितीय वर्ष	70.00				70.00	प्रति पौधा	5.00	350.00
	तृतीय वर्ष	70.00				70.00	प्रति पौधा	5.00	350.00
									22366.00
	कन्टीजन्सी 2 प्रतिशत								447.32
	योग								22813.32
									22800.00
	लागत का महायोग – 25.2 हैक्टर (126 कृषक) @22800/- प्रति कृषक .20 हैक्टर = 28.76 लाख								

सहायक अभियन्ता (जल ग्रहण)
पं. स. लक्ष्मणगढ़ (सीकर)

Name of Water shed : Tiroki Badi

No. Villages : 9

Name of Gram panchayat: Tiroki Badi, Sutod, Ganeri, Kumas gagir, Mangloona, Ghiraniya Bada

Model estimate

Horticulture *Cost per plant*

Pit size 0.9x0.9x0.9

S.No	Discription	Total		Unit	Qty	Rate	Amount
		Year	No./ Year				
1	Diging of pit		1	cum.	0.73	92	67.16
2	Apply of manure						
	(A) Compost Khad			kg.	5.00	0.4	2.00
	(B) S.S.P. (16%)			kg.	1.00	5	5.00
	(C) Endosulphan (4%)			kg.	0.10	30	3.00
3	Mixing with soil & filling pit		1	cum.	0.73	37	26.97
4	Plant cost		1	No	1.00	24	24.00
5	Planting tree			No.	1.00	3	3.00
6	Weeding & hoeing	3	2	No.	6.00	1.2	7.20
7	Sprey						
	(A) Endosulphan (35 ec)	3	0.01	Ltr.	0.03	280	8.40
	(B) Sulpher	3	0.02		0.06	200	12.00
	TOTAL						**158.73**

For .5ha =139x158.73 22064

Say = 22000/-

Total cost of 99 ha @ 22000 = 21.78 Lakhs

Note :- Farmer will be traind for Horticulture palntation in Treaning programme be conducted by watershed (PIA)

Farmer will ensured for Watch and Ward by himself & watering

For Horticulture plantation is as per norms of Agriculture ext. Dept.

सहायक अभियन्ता (जल ग्रहण)
संयुक्त अभियन्ता (सीकर)

विस्तृत लागत अनुमान

1. कार्य का नाम :– अकृषि भूमि उद्यानिकी विकास कार्य

2. ग्राम : 7 ग्राम पंचायतें :– तिड़ोकी बड़ी, मंगलूणा, सतोद, गनेड़ी, कुमास जागीर

क्षेत्रफल :– 1.2 है0 पौधों की संख्या = 420

3. योजना का नाम :– आई0डब्लू0एम0पी0 तिड़ोकी बड़ीं, पंचायत समिति लक्ष्मणगढ़

क्र.	कार्य का विवरण	संख्या	लं	चौ	उं	मात्रा	ईकाई	दर	कुल राशि
1	फेन्सिंग हेतु बार्बेड वायर की आपूर्ति संख्या –7 तार की लंबाई –500 मीटर तार का भार – 0.08 किग्रा /मीटर तार का भार – 7*500*0.08= 280 किग्रा					280.00	किग्रा	50.00	14000.00
2	जोधपुरी पट्टी की आपूर्ति 2.10*0.25=0.525 वमी.	140.00	2.10	0.25		73.50	व0मी0	475.00	34912.50
3	जोधपुरी पट्टी को खड्डा कर फिक्स करना	140.00	0.60	0.45	0.45	17.01	ध0 मी0	75.00	1275.75
4	बाईंडिंग वायर की लागत					10.00	किग्रा	50.00	500.00
5	बाईंडिंग वायर को टाईट करना	7.00	500			3500.00	प्रति मी0	0.95	3325.00
6	पौधे लगाने हेतु खड्डे खोदना								
	नींबू (90cmx90cmx90cm)	102.00	0.90	0.90	0.90	74.36	घन मी0	75.00	5576.85
	बडेड बेर (90cmx90cmx90cm)	102.00	0.90	0.90	0.90	74.36	घन मी0	75.00	5576.85
	अनार (60cmx60cmx60cm)	96.00	0.60	0.60	0.60	20.74	घन मी0	75.00	1555.20
	पपीता (45cmx45cmx45cm)	90.00	0.45	0.45	0.45	8.20	घन मी0	75.00	615.09
	बील पत्र (90cmx90cmx90cm)	30.00	0.90	0.90	0.90	21.87	घन मी0	75.00	1640.25
	गैप्र फिलिंग करना 10 प्रतिशत	42.00	0.90	0.90	0.90	30.62	घन मी0	75.00	2296.35
7	पौधों की लागत								
	नींबू	102.00				102.00	प्रति नग	7.00	714.00
	बडेड बेर	102.00				102.00	प्रति नग	10.00	1020.00
	अनार	96.00				96.00	प्रति नग	14.00	1344.00
	पपीता	90.00				90.00	प्रति नग	15.00	1350.00
	बील पत्र	30.00				30.00	प्रति नग	20.00	600.00
	गैप फिलिंग	42.00				42.00	प्रति नग	20.00	840.00
8	पौधों को नर्सरी से साईट तक परिवहन 100 किमी से अधिक दूरी	420.00				420.00	प्रति नग	4.00	1680.00
	गैप फिलिंग (20 प्रतिशत) के पौधों का परिवहन	42.00				42.00	प्रति नग	4.00	168.00

	खड्डे में खाद, एस0एस0पी0, इन्सेक्टीसाईड डालना								
	अ. फार्म यार्ड मैन्योर डालना								
	नींबू – 25 किग्र	102.00				2550.00	किग्रा	0.60	1530.00
	बडेड बेर – 20 किग्र	102.00				2040.00	किग्रा	0.60	1224.00
	अनार – 20 किग्र	96.00				1920.00	किग्रा	0.60	1152.00
	पपीता – 10 किग्रा	90.00				900.00	किग्रा	0.60	540.00
	बील पत्र 20 किग्रा	30.00				600.00	किग्रा	0.60	360.00
	ब. एस0एस0पी0 डालना								
	नींबू –1 किग्रा	102.00				102.00	किग्रा	7.00	714.00
	बडेड बेर – 1 किग्रा	102.00				102.00	किग्रा	7.00	714.00
	अनार – 1 किग्र	96.00				96.00	किग्रा	7.00	672.00
	पपीता – 0.200 किग्रा	90.00				18.00	किग्रा	7.00	126.00
	बील पत्र 1 किग्रा	30.00				30.00	किग्रा	7.00	210.00
	गैप फिलिंग के पौधों हेतु	42.00				42.00	किग्रा	7.00	294.00
	स. इन्सेक्टीसाईड डालना	420.00				21.00	किग्रा	300.00	6300.00
9	पौधारोपण करना, सामान्य जमीन	420.00				420.00	प्रति नग	3.00	1260.00
	गैप फिलिंग हेतु	42.00				42.00	प्रति नग	3.00	126.00
10	पौधों को उपलब्ध पानी पिलाना 15 लीटर प्रति पौधा प्रथम वर्ष 20X420=8400	420				8400.00	प्रति पौधा	1.80	15120.00
	द्वितीय वर्ष 20X420 =8400	420				8400.00	प्रति पौधा	1.80	15120.00
	तृतीय वर्ष 20X420= 8400	420.0				8400.00	प्रति पौधा	1.80	15120.00
11	थावला बनाना, कम से कम 1.00 मीटर अर्धव्यास का	420.0				420.00	प्रति पौधा	3.60	1512.00
	द्वितीय वर्ष	420.0				420.00	प्रति पौधा	1.80	756.00
	तृतीय वर्ष	420.0				420.00	प्रति पौधा	1.80	756.00
12	पौधों की निराई गुडाई करना 15 सेमी गहराई व 15 सेमी अर्धव्यास 2 बार	420.0				840.00	प्रति पौधा	3.60	3024.00
	द्वितीय वर्ष 2 बार	420.0				840.00	प्रति पौधा	3.60	3024.00
	तृतीय वर्ष 2 बार	420.0				840.00	प्रति पौधा	3.60	3024.00
13	एण्डोसल्फान दीमक रोधी दवा की आपूर्ति करना 10 मिली प्रति पौधा प्रथम वर्ष 8 बार (8X420X10/1000)	420.00				33.60	प्रति ली	300.00	10080.00
	द्वितीय वर्ष	420.00				33.60	प्रति ली	300.00	10080.00
	तृतीय वर्ष	420.00				33.60	प्रति ली	300.00	10080.00

14	पौधों को पाला/ सर्दी से बचावा प्रथम वर्ष	420				420.00	प्रति पौधा	L.S. 5	2100.00
	द्वितीय वर्ष	420				420.00	प्रति पौधा	L.S.5	2100.00
	तृतीय वर्ष	420				420.00	प्रति पौधा	L.S. 5	2100.00
							योग		188207.84
	कंटीजंन्सी 2 प्रतिशत								3764.16
	योग								191972.00
							Say-		192000.00

सहायक अभियन्ता (जल ग्रहण)
पं. स. लक्ष्मणगढ (सीकर)

विस्तृत लागत अनुमान

1. कार्य का नाम :– अकृषि भूमि संरक्षण कार्य
2. गतिविधि का नाम : – चारागाह विकास कार्य
3. योजना का नाम :– आई0डब्लू0एम0पी0 तिड़ोकी बड़ीं, पंचायत समिति लक्ष्मणगढ़

क्षेत्रफल :– 3 है0 पौधों की संख्या = 750

पौधे से पौधे की दूरी 4 मीटर, कतार से कतार की दूरी 4 मीटर

क्र.	कार्य का विवरण	संख्या	लं	चौ	उं	मात्रा	ईकाई	दर	कुल राशि
1	फेन्सिंग हेतु बार्बेड वायर की आपूर्ति संख्या –7 तार की लंबाई –750 मीटर तार का भार – 0.08 किग्रा /मीटर तार का भार – 7*750*0.08= 420 किग्रा					420.00	किग्रा	50.00	21000.00
2	जोधपुरी पट्टी की आपूर्ति 2.10*0.25=0.525 वमी.	200.00	2.10	0.25		105.00	व0मी0	475.00	49875.00
3	जोधपुरी पट्टी को खड्डा कर फिक्स करना	200.00	0.60	0.45	0.45	24.30	ध0 मी0	75.00	1822.50
4	बाईंडिंग वायर की लागत					15.00	किग्रा	50.00	750.00
5	बाईंडिंग वायर को टाईट करना	7.00	750			5250.00	प्रति मी0	0.95	4987.50
6	पौधे लगाने हेतु खड्डे खोदना 45cm x45cmx45 Cm	750.00				750.00	प्रति नग	6.80	5100.00
	गैप फिलिंग करना 20 प्रतिशत	150.00				150.00	प्रति नग	6.80	1020.00
7	पौधों की लागत	750.00				750.00	प्रति नग	3.00	2250.00
	गैप फिलिंग हेतु पोधों की लागत	150.00				150.00	प्रति नग	3.00	450.00
8	पौधों को नर्सरी से साईट तक परिवहन 3 किमी से अधिक दूरी	750.00				750.00	प्रति नग	1.50	1125.00
	गैप फिलिंग (20 प्रतिशत) के पौधों का परिवहन	150.00				150.00	प्रति नग	1.50	225.00
9	पौधारोपण करना, सामान्य जमीन	750.00				750.00	प्रति नग	3.00	2250.00
	गैप फिलिंग हेतु	150.00				150.00	प्रति नग	3.00	450.00
10	पौधारोपण स्थल तक पानी आपूर्ति उंटगाडी से प्रथम वर्ष (6 बार) 6x750x15(8x400)	750.00				21.00	दिवस	400.00	8400.00
	द्वितीय वर्ष (4 बार)	750.00				15.00	दिवस	400.00	6000.00

	तृतीय वर्ष (2 बार)	750.00				7.00	दिवस	400.00	2800.00
11	पौधों को उपलब्ध पानी पिलाना 15 लीटर प्रति पौधा प्रथम वर्ष	750.00				4500.00	प्रति पौधा	1.80	8100.00
	द्वितीय वर्ष 4x750	750.00				3000.00	प्रति पौधा	1.80	5400.00
	तृतीय वर्ष 2x750	750.00				1500.00	प्रति पौधा	1.80	2700.00
12	थावला बनाना, कम से कम 50 सेमी अर्धव्यास का	750.00				750.00	प्रति पौधा	1.80	1350.00
	द्वितीय वर्ष	750.00				750.00	प्रति पौधा	0.90	675.00
	तृतीय वर्ष	750.00				750.00	प्रति पौधा	0.90	675.00
13	पौधों की निराई गुडाई करना 15 सेमी गहराई व 15 सेमी अर्धव्यास 2 बार	1500.00				1500.00	प्रति पौधा	1.20	1800.00
	द्वितीय वर्ष	1500.00				1500.00	प्रति पौधा	1.20	1800.00
	तृतीय वर्ष	1500.00				1500.00	प्रति पौधा	1.20	1800.00
14	एण्डोसल्फान दीमक रोधी दवा की आपूर्ति करना 10 मिली प्रति पौधा प्रथम वर्ष 4 बार (4X750x2/1000)	750.00				6.00	प्रति ली	300.00	1800.00
	द्वितीय वर्ष (20 प्रतिशत पौधों हेतु)	150.00				1.20	प्रति ली	300.00	360.00
15	पौधों को पाला / सर्दी से बचाव	750				750.00	प्रति पौधा	5.00	3750.00
	द्वितीय वर्ष (20 प्रतिशत पौधों हेतु)	150				150.00	प्रति पौधा	5.00	750.00
16	Over seeding of Dhanangrars 24 Kg @ 1003/-								24072.00
17	Cost of seed 8 x 3 = 24 kg@50/-								1200.00
	योग								164737.00
	कंटीजंन्सी 3 प्रतिशत								4942.11
	महा योग								169679.11

Say- 170000/-

सहायक अभियन्ता (जल ग्रहण)
पं. स. लक्ष्मणगढ़ (सीकर)

विस्तृत लागत अनुमान

1. कार्य का नाम :– अकृषि भूमि संरक्षण कार्य
2. गतिविधि का नाम : – चारागाह विकास कार्य

3. योजना का नाम :– आई0डब्लू0एम0पी0 तिड़ोकी बड़ीं, पंचायत समिति लक्ष्मणगढ़

क्षेत्रफल :– 10 है0 पौधों की संख्या = 2500

पौधे से पौधे की दूरी 4 मीटर, कतार से कतार की दूरी 4 मीटर

क्र.स.	कार्य का विवरण	संख्या	लं	चौ	उं	मात्रा	ईकाई	दर	कुल राशि
1	फेन्सिंग हेतु बार्बेड वायर की आपूर्ति संख्या –7 तार की लंबाई –1300 मीटर तार का भार – 0.08 किग्रा /मीटर तार का भार – 7*1300*0.08= 728 किग्रा					728.00	किग्रा	50.00	36400.00
2	जोधपुरी पट्टी की आपूर्ति 2.10*0.25=0.525 वमी.	335.00	2.10	0.25		175.88	व0मी0	475.00	83543.00
3	जोधपुरी पट्टी को खड्डा कर फिक्स करना	335.00	0.60	0.45	0.45	40.70	ध0 मी0	75.00	3052.50
4	बाईंडिंग वायर की लागत					50.00	किग्रा	50.00	2500.00
5	बाईंडिंग वायर को टाईट करना	7.00	1300			9100.00	प्रति मी0	0.95	8645.00
6	पौधे लगाने हेतु खड्डे खोदना 45cm x45cmx45 Cm	2500.00				2500.00	प्रति नग	6.80	17000.00
	गैप फिलिंग करना 20 प्रतिशत	500.00				500.00	प्रति नग	6.80	3400.00
7	पौधों की लागत	2500.00				2500.00	प्रति नग	3.00	7500.00
	गैप फिलिंग हेतु पोधों की लागत	500.00				500.00	प्रति नग	3.00	1500.00
8	पौधों को नर्सरी से साईट तक परिवहन 3 किमी से अधिक दूरी	2500.00				2500.00	प्रति नग	1.50	3750.00
	गैप फिलिंग (20 प्रतिशत) के पौधों का परिवहन	500.00				500.00	प्रति नग	1.50	750.00

9	पौधारोपण करना, सामान्य जमीन	2500.00				2500.00	प्रति नग	3.00	7500.00
	गैप फिलिंग हेतु	500.00				500.00	प्रति नग	3.00	1500.00
10	पौधारोपण स्थल तक पानी आपूर्ति उंटगाडी से प्रथम वर्ष (6 बार) 6x2500x15/(8x400)	2500.00				70.00	दिवस	400.00	28000.00
	द्वितीय वर्ष (4 बार)	2500.00				46.00	दिवस	400.00	18400.00
	तृतीय वर्ष (2 बार)	2500.00				23.00	दिवस	400.00	9200.00
11	पौधों को उपलब्ध पानी पिलाना 15 लीटर प्रति पौधा प्रथम वर्ष	2500.00				15000.00	प्रति पौधा	1.80	27000.00
	द्वितीय वर्ष 4x750	2500.00				10000.00	प्रति पौधा	1.80	18000.00
	तृतीय वर्ष 2x750	2500.00				5000.00	प्रति पौधा	1.80	9000.00
12	थावला बनाना, कम से कम 50 सेमी अर्धव्यास का	2500.00				2500.00	प्रति पौधा	1.80	4500.00
	द्वितीय वर्ष	2500.00				2500.00	प्रति पौधा	0.90	2250.00
	तृतीय वर्ष	2500.00				2500.00	प्रति पौधा	0.90	2250.00
13	पौधों की निराई गुडाई करना 15 सेमी गहराई व 15 सेमी अर्धव्यास 2 बार	5000.00				5000.00	प्रति पौधा	1.20	6000.00
	द्वितीय वर्ष	5000.00				5000.00	प्रति पौधा	1.20	6000.00
	तृतीय वर्ष	5000.00				5000.00	प्रति पौधा	1.20	6000.00
14	एण्डोसल्फान दीमक रोधी दवा की आपूर्ति करना 10 मिली प्रति पौधा प्रथम वर्ष 4 बार (4X750x2/1000)	2500.00				20.00	प्रति ली	300.00	6000.00
	द्वितीय वर्ष (20 प्रतिशत पौधों हेतु)	500.00				4.00	प्रति ली	300.00	1200.00
15	पौधों को पाला / सर्दी से बचाव	2500.00				2500.00	प्रति पौधा	5.00	12500.00
	द्वितीय वर्ष (20 प्रतिशत पौधों हेतु)	500.00				500.00	प्रति पौधा	5.00	2500.00
16	चौकीदारी का कार्य					3	वर्ष	49275.00	147825.00
17	Over seeding of Dhanangrars @ 8 Kg/ha 8x1003/-								8024.00
18	Cost of seed 8 x10 = 80 kg@50								4000.00
	योग								495689.50
	कंटीजंन्सी 3 प्रतिशत								14870.61
	महा योग								510560.11

Say- 5.11 Lacs

सहायक अभियन्ता (जल ग्रहण)
पं. स. लक्ष्मणगढ़ (सीकर)

CHAPTER - VIII Enclosures -

h. Location –District, block, village, watershed location map

i. Map of _____ IWMP Project (Watershed Boundary demarcation in cadastral & Topo Sheet)

j. PRA Map (along with photos & paper drawing)

k. Treatment map (Indicate proposed works)

l. Cadastral Map on watershed boundary

m. Information on Soils, Soil fertility, Land capability, Soil chemical problems like salinity, alkalinity

n. Land Use Land Cover map

o. Information on existing water harvesting structures & well inventory along with GPS co-ordinates.

p. High resolution, latest Remote Sensing Satellite data

Documents of Agreements:

Proceedings of gram sabha for EPA approval

Proceedings of gram sabha Resolution for committee constitution

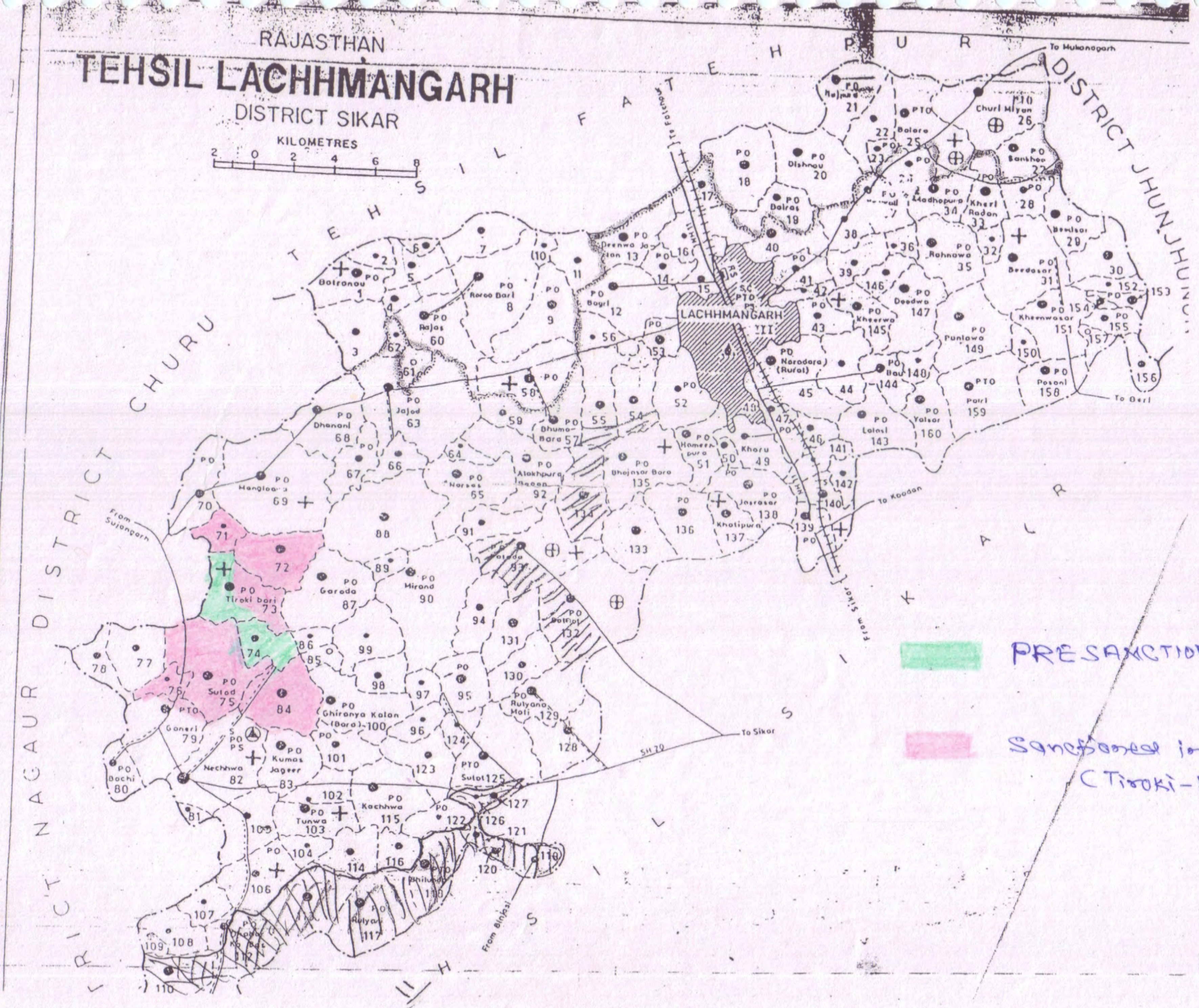
Proceedings of gram sabha for DPR approval

DPR approval by district

Watershed Committee Registration certificate

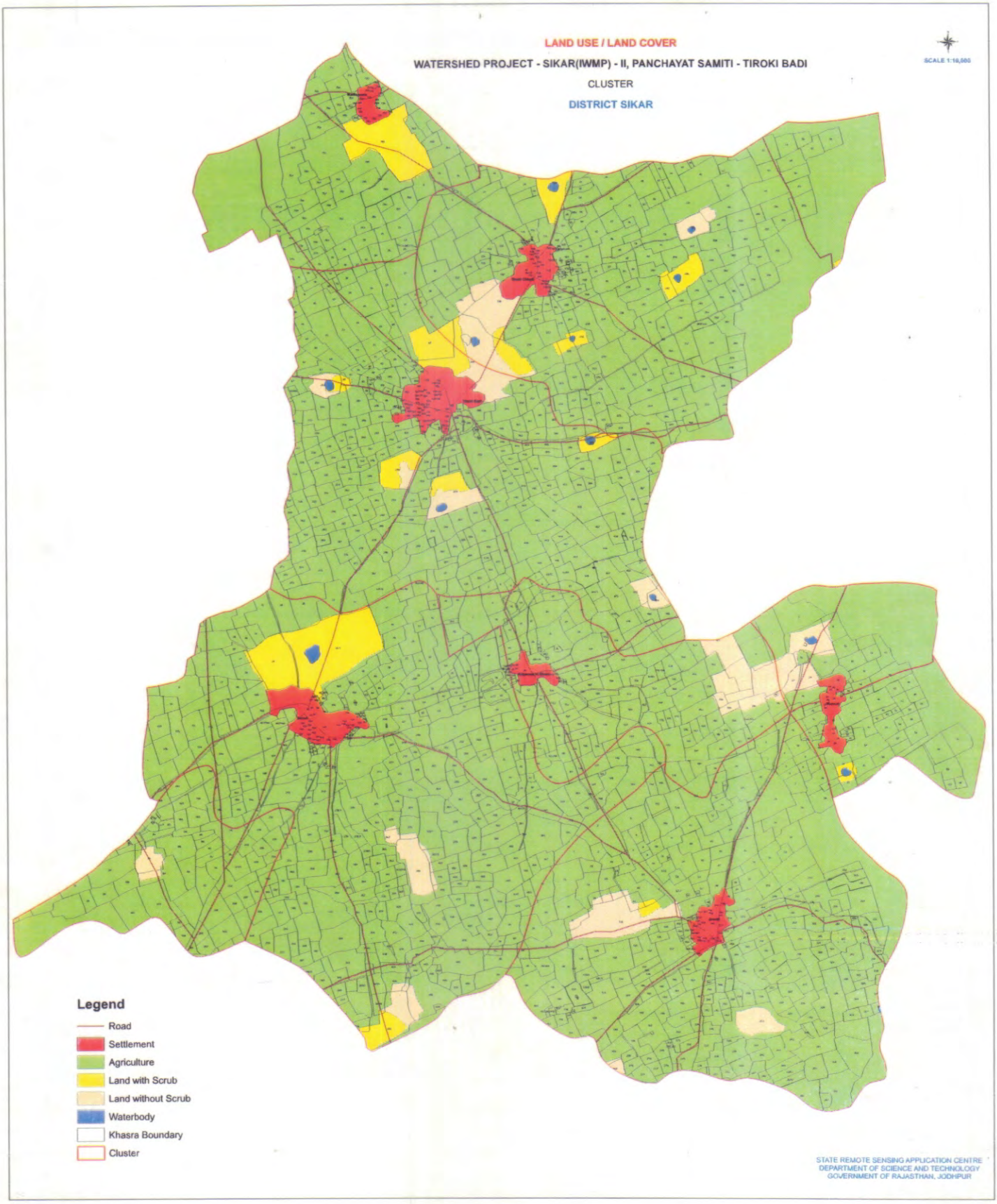
MoU – PIA – DWMA, PIA – WC(in case of NGO as PIA)

सहायक अभियन्ता (जल ग्रहण)
पं. स. लक्ष्मणगढ़ (सीकर)



PRESANCTIONED IN DDP Scheme

Sanctioned in IWMP 2009-10 (Tiroki-Badi)


LAND USE / LAND COVER
WATERSHED PROJECT - SIKAR(IWMP) - II, PANCHAYAT SAMITI - TIROKI BADI
CLUSTER
DISTRICT SIKAR
SCALE 1:10,000
Legend
Road
Settlement
Agriculture
Land with Scrub
Land without Scrub
Waterbody
Khasra Boundary
Cluster
STATE REMOTE SENSING APPLICATION CENTRE
DEPARTMENT OF SCIENCE AND TECHNOLOGY
GOVERNMENT OF RAJASTHAN, JODHPUR

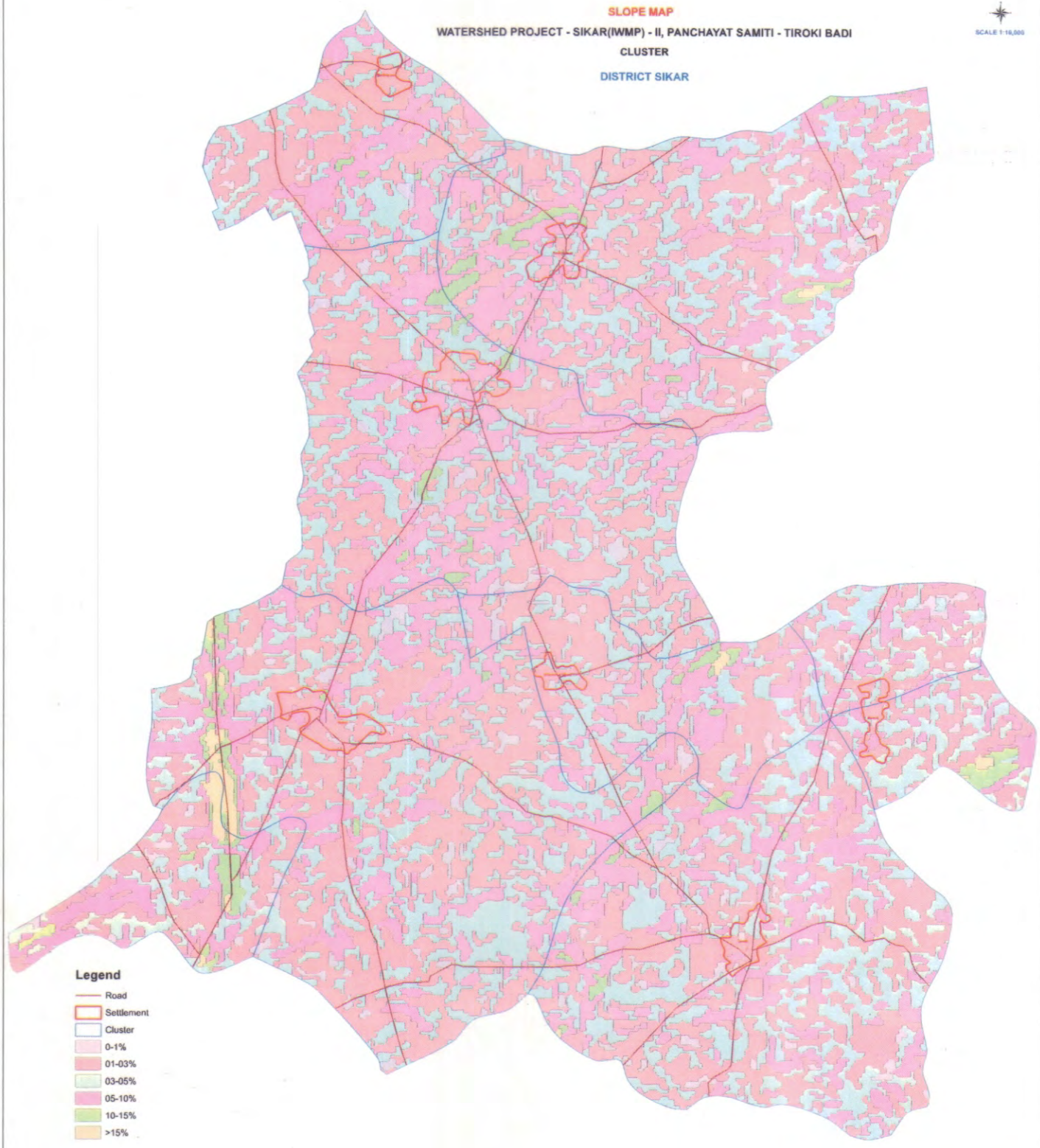
SLOPE MAP

WATERSHED PROJECT - SIKAR(IWMP) - II, PANCHAYAT SAMITI - TIROKI BADI

CLUSTER

DISTRICT SIKAR

SCALE 1:10,000



STATE REMOTE SENSING APPLICATION CENTRE
DEPARTMENT OF SCIENCE AND TECHNOLOGY
GOVERNMENT OF RAJASTHAN, JODHPUR

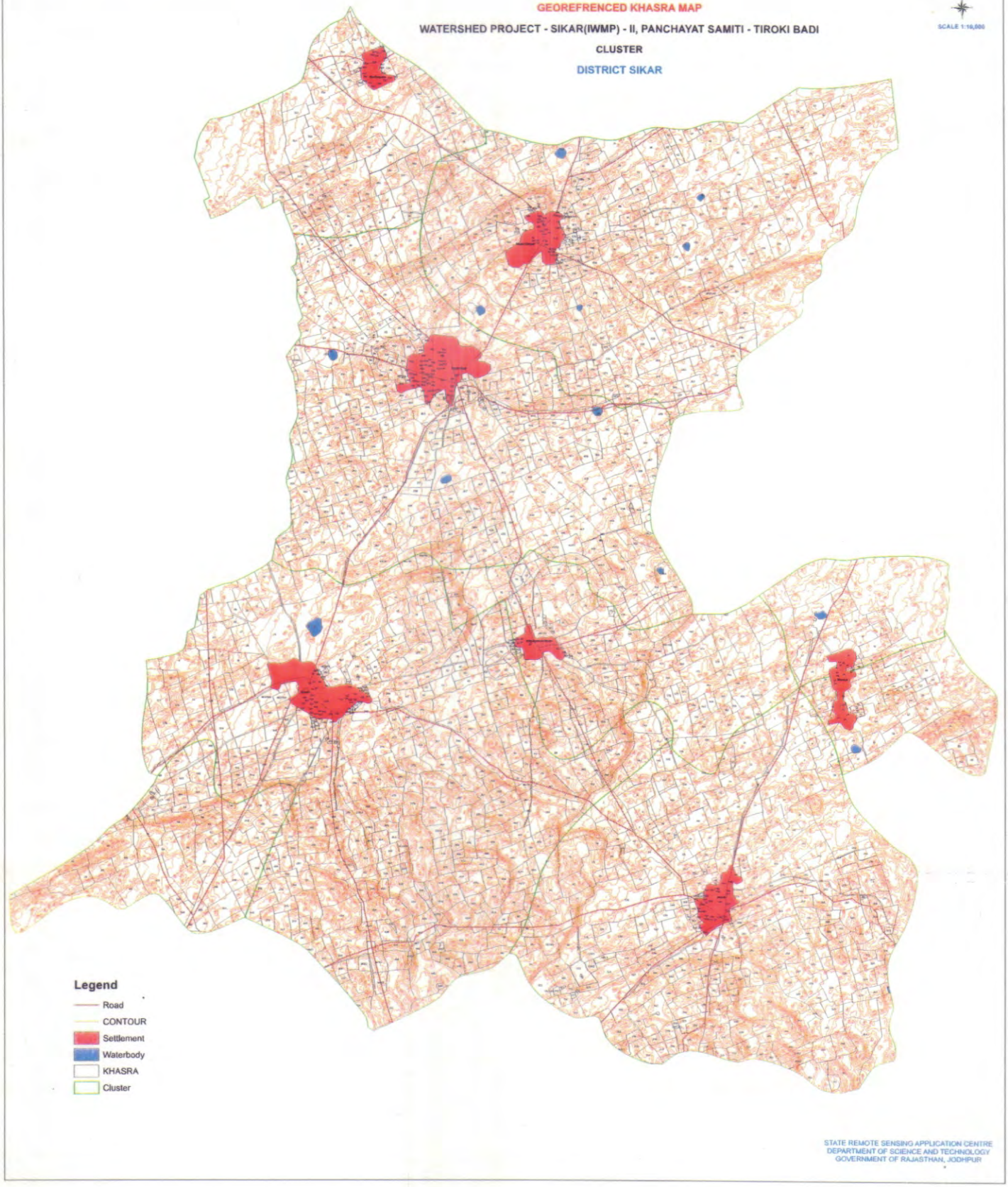
GEOREFRENCED KHASRA MAP

WATERSHED PROJECT - SIKAR(IWMP) - II, PANCHAYAT SAMITI - TIROKI BADI

CLUSTER

DISTRICT SIKAR

SCALE 1:10,000



STATE REMOTE SENSING APPLICATION CENTRE
DEPARTMENT OF SCIENCE AND TECHNOLOGY
GOVERNMENT OF RAJASTHAN, JODHPUR

CARTOSAT 1 - SATELLITE IMAGE

WATERSHED PROJECT - SIKAR(IWMP) - II, PANCHAYAT SAMITI - TIROKI BADI

CLUSTER

DISTRICT SIKAR

SCALE 1:10,000

Legend

- Settlement
- Cluster

STATE REMOTE SENSING APPLICATION CENTRE
DEPARTMENT OF SCIENCE AND TECHNOLOGY
GOVERNMENT OF RAJASTHAN, JODHPUR

राजस्थान सरकार

सत्यमेव जयते

रजिस्ट्रीकरण प्रमाण - पत्र

क्रमांक 45 सीकर 2000 -2001

यह प्रमाणित किया जाता है कि जल ग्रहण समिति सूतोद पं. स. लक्ष्मणगढ़, जिला सीकर का राजस्थान संस्था रजिस्ट्रीकरण अधिनियम, 1958 (राजस्थान अधिनियम सं. 28, 1958) के अन्तर्गत रजिस्ट्रीकरण आज किया गया ।

यह प्रमाण-पत्र मेरे हस्ताक्षरों और कार्यालय की सील से आज दिनांक 05 माह दिसम्बर सन् दो हजार एक को सीकर में दिया गया ।

(अशोक अईयर)
रजिस्ट्रार संस्थायें
सीकर

रजिस्ट्रार
संस्थायें, सीकर

रजिस्ट्रार संस्थाएं सीकर (राज.)

राजस्थान सरकार

सत्यमेव जयते

रजिस्ट्रीकरण प्रमाण - पत्र

क्रमांक 217 सीकर 2000 -2001

यह प्रमाणित किया जाता है कि जल ग्रहण समिति लिडोकी खड़ी प.सं. लदमणगढ़ जिला सीकर का राजस्थान संस्था रजिस्ट्रीकरण अधिनियम, 1958 (राजस्थान अधिनियम सं. 28, 1958) के अन्तर्गत रजिस्ट्रीकरण आज किया गया ।

यह प्रमाण-पत्र मेरे हस्ताक्षरों और कार्यालय की सील से आज दिनांक 15 माह दिसम्बर सन् दो हजार 00 को सीकर में दिया गया ।

(अशोक अईयर)
रजिस्ट्रार
संस्थायें सीकर

राजस्थान सरकार

सत्यमेव जयते

रजिस्ट्रीकरण प्रमाण - पत्र

क्रमांक 306 सीकर 2000 -2001

यह प्रमाणित किया जाता है कि जल ग्रहण समिति ढाणी रिडमल की ग्नोडी/प.स. लक्ष्मणगढ़ जिला सीकर का राजस्थान संस्था रजिस्ट्रीकरण अधिनियम, 1958 (राजस्थान अधिनियम सं. 28, 1958) के अन्तर्गत रजिस्ट्रीकरण आज किया गया ।

यह प्रमाण–पत्र मेरे हस्ताक्षरों और कार्यालय की सील से आज दिनांक तेईस माह फरवरी सन् दो हजार ग्यारह को सीकर में दिया गया ।

(रजिस्ट्रार-संस्थाएं)

रजिस्ट्रार संस्थाएं, सीकर

राजस्थान सरकार

सत्यमेव जयते

रजिस्ट्रीकरण प्रमाण - पत्र

क्रमांक.....371.....सीकर 2010 -2011.

यह प्रमाणित किया जाता है कि जल ग्रहण परियोजना समिति I.W.M.P. माधोपुरा (मंगलूना) पं.स. लक्ष्मणगढ़ जिला सीकर का राजस्थान संस्था रजिस्ट्रीकरण अधिनियम, 1958 (राजस्थान अधिनियम सं. 28, 1958) के अन्तर्गत रजिस्ट्रीकरण आज किया गया ।

यह प्रमाण-पत्र मेरे हस्ताक्षरों और कार्यालय की सील से आज दिनांक 16 माह मार्च सन् दो हजार ग्यारह को सीकर में दिया गया ।

(रजिस्ट्रार संस्थायें)
रजिस्ट्रार संस्थाएं सीकर

राजस्थान सरकार

सत्यमेव जयते

रजिस्ट्रीकरण प्रमाण - पत्र

क्रमांक........216........सीकर 2000 -2001

यह प्रमाणित किया जाता है कि ......जल ग्रहण समिति जैवली......

..............................जिला सीकर का राजस्थान संस्था रजिस्ट्रीकरण अधिनियम, 1958 (राजस्थान अधिनियम सं. 28, 1958) के अन्तर्गत रजिस्ट्रीकरण आज किया गया ।

यह प्रमाण–पत्र मेरे हस्ताक्षरों और कार्यालय की सील से आज दिनांक....5/8....माह....दिसम्बर....सन् दो हजार....58....को सीकर में दिया गया ।

(अशोक अईयर)
रजिस्ट्रार संस्थायें
रजिस्ट्रार
संस्थायें सीकर

रजिस्ट्रार संस्थाएं ... (राज.)

कार्यालय ग्राम पंचायत, तिड़ोकी बड़ी

श्रीमती उम्मेद कँवर
सरपंच
ग्राम पंचायत, तिड़ोकी बड़ी
पंचायत समिति, लक्ष्मणगढ़ (सीकर)

निवास :
शेखावत विला
फोन : 01570-684042
मो.: 98285-66669
98287-45117

पत्रांक

दिनांक 19/5/11

ग्राम सभा बैठक दिनाँक 19/05/2011 के प्रस्ताव संख्या 06 की सत्य प्रतिलिपि —

प्रस्ताव संख्या 06/2011

ग्राम सभा की बैठक सरपंच श्रीमती उम्मेदकंवर ने अवगत कराया कि आई. डब्लू. एम. पी. योजना में स्वीकृत जलग्रहण परियोजना में ग्राम पंचायत में आने वाले क्षेत्र में होने वाली गतिविधियों की डी.पी.आर (विस्तृत परियोजना प्रतिवेदन) में सम्मिलित कर लीया गया है एवं समय-2 पर गतिविधियों में संशोधन आवश्यकता पड़ने पर कर लीये जायेंगे। बाद में विचार विमर्श कर प्रस्ताव व डी.पी.आर का सर्व सम्मति से अनुमोदन बिना किसी विवाद के कर लिया गया।

उम्मेदकंवर
सरपंच
ग्रा. पं. तिड़ोकी बड़ी (सीकर)

कार्यालय–ग्राम पंचायत, सुतोद

पंचायत समिति लक्ष्मणगढ़ (सीकर) फोन : 01570-263127 मो.: 8104207577, 9887195277

क्रमांक :

दिनांक 27-6-2011

ग्राम सभा बैठक दिनांक 27-6-2011 के प्रस्ताव सं॰ 4 की सत्य प्रतिलिपी :—

प्रस्ताव सं॰ 4 :- ग्राम सभा बैठक मे सरपंच महोदय ने अवगत कराया कि I.W.M.P. योजना मे स्वीकृत जल ग्रहण परियोजना मे ग्राम पंचायत में आने वाले क्षेत्र में होने वाली गतिविधियो को D.P.R (विस्तृत परियोजना प्रतिवेदन) मे सम्मलित कर लिया गया है। एवं समय-समय पर गतिविधियो के संशोधन की आवश्यकता पड़ने पर कर लिये जायेंगे। बाद विचार विमर्श कर D.P.R. का सर्व सम्मती से अनुमोद किया किसी विवाद के कर लिया गया।

सरपंच
ग्राम पचायत सुतोद
प.स. लक्ष्मणगढ़ 'सीकर'

कार्यालय ग्राम पंचायत गनेड़ी

पं. स. **लक्ष्मणगढ़** (सीकर–राज.)

पत्रांक :

दिनांक 18/5/11

ग्राम सभा बैठक दिनांक 18/5/11 प्रस्ताव संख्या 3

की सत्य प्रतिलिपि –

कार्यालय ग्राम पंचायत गनेड़ी

पं. स. **लक्ष्मणगढ़** (सीकर–राज.)

पत्रांक :

दिनांक 18/5/11

प्रस्ताव संख्या 3

ग्राम सभा बैठक दिनांक 18/5/11
की सत्य प्रतिलिपि –

प्रस्ताव संख्या 3 ग्राम सभा की बैठक में सरपच महोदय ने अवगत कराया I.W.M.P. योजना में स्वीकृत जल ग्रहण प्रयोजना में ग्राम पंचायत आने वाले क्षेत्र में होने वाली गतिविधियों को D.P.R. (विस्तृत परियोजना प्रतिवेदन) में सम्मिलित कर लिया गया है एवम् समय-2 पर गतिविधियों के संशोधन की आव श्यकता पड़ने पर कर लिये जायेगें। बाद में विचार विमर्श का प्रस्ताव D.P.R. का सर्वसम्मति से अनुमोद बिना किसी विवाद के किया गया है।

सरपच
ग्राम पंचायत गनेड़ी
प. स. लक्ष्मणगढ़ (सीकर)