

Government of Rajasthan

Deptt. Watershed Development & Soil Conservation

District Watershed Development Unit, Bikaner

Detailed Project Report



IWMP (2009-10) - VII (Garbadesar, Kaloo, Sahajarasar, Kujati)

Block :-Lunkaransar District bikaner Project Area 10000 ha.

Project Cost :- Rs1500 Lacs Convergence Cost :- Rs. 0 Lacs Total Cost :- Rs1500 Lacs

Shivlal Verma

Assistant Engineer

Panchayat Samiti, lunkaransar

Y. S. Poonia

Executive Engineer (L.R.)

cum

Project Manager, DWDU, Bikaner

DPR TEMPLATE

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CHAPTER – 1

INTRODUCTION

Location

Bikaner vii Project is located in Lunkaransar Block, of Bikaner district. The project area is between the Latitude 28°-29' - 29.03 North & Longitude 73° 45' 74.15" East. It is at a distance of 24 km from its Block head quarters and 94 Kms from the district head quarters. There are 1036 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)	Bikaner VII
(a)	Name of Catchment	Garabadesae,kaloo,kujati,sahajarasar
(b)	Name of watershed area (local name)	Garabadesae,kaloo,kujati,sahajarasar
(c)	Project Area	10239 Hac.
(d)	Net treatable Area	10000 Hac.
(e)	Cost of Project	1500 Lacs.
(f)	Cost/hectare	15000
(g)	Year of Sanction	2009-10
(h)	Watershed Code	00522700
(i)	No. of Gram Panchayats in project area	3
(j)	No. of villages in project area	4
(k)	Type of Project	Desert
(l)	Elevation (metres)	-
(m)	Major streams (Ginani Ward No.)	-
(n)	Slope range (%)	0-3

Macro/micro	Name of Gram Panchayat	Name of Villages Covered	Census code of villages	Area
Macro	GARABDESAR, KALOO, KUJATI	GARABDESAR, KALOO, KUJATI, SAHAJARASAR	0522700 0511800 0517800 0521500	2500.Hac. 2500Hac. 2500Hac. 2500Hac.

The watershed falls in Agroclimatic Zone Ic(RF-VLR-SD) The soil texture is Sandy The average rainfall is 33.00 cm The temperature in the area are in the range between 28.10-49.00 centigrade during summer and 8.60-23.60 centigrade during winter. The major crops in the area are Guar, Bazara, Moth, Til. 79.73% land is under cultivation. 6.29% land fallow, 6.37% land is wasteland. Nil land is irrigated through wells 60 No of households are BPL(41.09% households) One are landless households (0.68 % households) and 12 household are small, midium 76 and marginal farmers (Nil household) Big farmers 48 .Average land holding in the area is 9.98 ha. 100 % area is single cropped area and Nil % is double cropped. The main source of irrigation is Nil. The

average annual rainfall (5 years) in the area is 421.6 mm. The major festivals in the village are Diwali, Holi, Idulfitur, , Dushera, Sawan, Teej, etc. At present these village is having 15000 population with Communities like Hindu, Muslim, etc.

Climatic and Hydrological information

1 Average Annual Rainfall(mm)

Year	Average Annual Rainfall(mm)
2001	273
2002	64
2003	283
2004	103
2005	342
2006	207
2007	348
2008	387
2009	383
2010	783

2 Average Monthly rainfall (last ten years)

Month	Rainfall(mm)
June	45.4
July	112.4
August	42.8
September	19.6

3 Maximum rainfall intensity (mm)

Duration	rainfall intensity(mm)
15 minute duration	High Variable
30 minute duration	-
60 minute duration	-

4 Temperature (Degree C)

Season	Max	Min
i) Summer Season	49.0.c (May-June)	28.10.c (May-June)
ii) Winter Season	23.60.c (Dec.-jan.)	2.60.c (Dec.-jan.)
iii) Rainy Season	38.50.c (July-aug.)	28.30.c (July-aug.)

5 Potential Evaporation Transpiration (PET) (mm/day)

Season	PET
Summer May-2009	3.60
Winter June-2009	1.68
Rainy Aug-2009	2.70

6 Runoff

Peak Rate (cum/hr)			
Total run off volume of rainy season (ha.m.)	1.5 mm per sec.		
Time of return of maximum flood	5 years	10 years	In-Year
Periodicity of Drought in village area			

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	MG Narega	पं. राज			
2	JSY	म. एवं बाल विकास वि.			
3	ATC	Agri. Dept.			

Details of infrastructure in the project areas

S.N.	Parameters	Status			
(i)	No. of villages connected to the main road by an all-weather road	Lunkaransar - sardarsahar			
(ii)	No. of villages provided with electricity	4			
(iii)	No. of households without access to drinking water	800 house hold			
(iv)	No. of educational institutions :	(P) 1	(S) (1)	(HS) Nil	(VI) Nil
	Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(M)			
(v)	No. of villages with access to Primary Health Centre	1 UHC			
(vi)	No. of villages with access to Veterinary Dispensary	1 Breakage Building			
(vii)	No. of villages with access to Post Office	4			
(viii)	No. of villages with access to Banks	1			
(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	Nil			
(xii)	No. of milk collection centers	(U) -	(S) Nil	(PA) Nil	(O) -
	(e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))				
(xiii)	No. of villages with access to Anganwadi Centre	13			
(xiv)	Any other facilities with no. of villages (please specify)	-			

(xv)	Nearest KVK	Bikaner
(xvi)	co-operative society	GARABDESAR
(xvii)	NGOs	-
(xviii)	Credit institutions	
	(i) Bank	MGB Kaloo
	(ii) Cooperative Society	1
(xix)	Agro Service Centre's	ATC Lunkaransar

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

S.No	Particulars	Details of DWDU
1	PM ,DWDU	Project Manager
2	Address with contact no,website	Executive Engineer (L.R.) Z.P. Bikaner.
3	Telephone	0151-2200695, Mob. 9414397237
4	Fax	0151-2520326 Z. P. Bikaner
5	E-mail	

PIA particulars

S.No	Particulars	Details of PIA
1	Name of PIA	Shivlal Verma Mob. 9460236039
2	Designation	Assistant Engineer
3	Address with contact no., website	P.S. Lunkaransar
4	Telephone	01528-272026
5	Fax	01525-272026
6	E-mail	

WDT Particulars:

S.No	Name of WDT member	M/F	Age	Qualification	Experience in watershed (Yrs)	Description of professional training	Role/ Function
1	Abhay dube	M	37	B.E.(Ag.)	15	-	Engg.
2	Kalu Ram	M	31	M.Sc.(Ag.)	1	-	Agriculture
3	Chothu Ram	M	22	2 year LSA Deploma	-	-	Vetenary
4	Santosh	F	30	M.A. (Sociology)	-	-	Social Science

(i) Details of Watershed Committees (WC) Garbadesar

SN	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/G eneral	Landl ess/M F/SF/ BF	Name of UG/SHG	Educational qualification
1.	Watershed Committees Garbadesar	11.10.2010	10/2011-12 11.04.2011	President	Babu Singh	M	GEN.	MF	UG.	Educate
				Secretary	Chandan Das	M	OBC	SF	UG.	Educate
				Member	Shivlal	M	SC	MF	UG	Educate
				Member	Maya	F	GEN.	SF	SHG	Educate
				Member	Shukhi	F	SC	SF	SHG	N.Educate
				Member	Sayara	F	OBC		SHG	Educate
				Member	Purnsingh	M	GEN.		UG.	Educate
				Member	Kamla	F	SC	MF	SHG	Educate
				Member	Kishanlal	M	OBC	SF	UG.	Educate
				Member	Ram Kumar	M	GEN.	MF	UG.	Educate
				Member	Mohan	M	GEN.	L. LESS	UG.	Educate
				J.En.	Abhay Debe	M	GEN.	-	J.En. LKS	BE (Ag.)

(ii) Details of Watershed Committees (WC) Kaloo

SN	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
2.	Watershed Committees Kaloo	14.07.2010	27/2011-12 20.04.2011	President	Devi lal	M	GEN.	MF	UG.	Educate
				Secretary	Poonam	M	OBC	SF	UG.	Educate
				Member	Santdas	M	OBC	MF	UG	Educate
				Member	Premaram	M	OBC	SF	UG	Educate
				Member	Shyam sunder	M	OBC	SF	UG	N.Educate
				Member	Rameshwarlal	M	SC	SF	UG	Educate
				Member	Sharda devi meghwal	F	SC	SF	SHG	Educate
				Member	Ramlal jat	M	OBC	MF	UG.	Educate
				Member	Rameshwarlal dogiwal	M	OBC.	MF	UG.	Educate
				Member	Jugraj purohit	M	GEN.	L. LESS	UG.	Educate
				Member	Umaram	M	OBC	MF	UG	
				Member	Chawali devi jat	F	OBC	L. LESS	SHG	
				Member	Dinesh	M	OBC	SM	UG	
J.En.	Abhay Dube	M	GEN.	-	J.En. LKS	BE (Ag.)				

(iii) Details of Watershed Committees (WC) Kujati

SN	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	
3.	Watershed Committees Kujati	15.07.2010	42/2011-12 02.05.2011	President	Radha kishan	M	OBC.	MF	UG.	Educate	
				Secretary							
				Member	Tolaram Nai	M	OBC	MF	UG	Educate	
				Member	Tikuram Meghwal	M	SC	L.less	UG	N.Educate	
				Member	Bhagwanaram Jat	M	OBC	SF	UG	N.Educate	
				Member	Mallram Meghwal	M	SC	SF	UG	Educate	
				Member	Dooli devi Jat	F	OBC	SF	SHG	Educate	
				Member	Bajaranglal Jat	M	OBC	MF	UG.	Educate	
				Member	Tulsaram Jat	M	OBC.	MF	UG.	Educate	
				Member	Manoj Jat	M	OBC.	BF	UG.	Educate	
				Member	Umaram	M	OBC	MF	UG		
				Member	Parmeshwari jat	F	OBC	L. LESS	SHG		
				Member	Roogaram Jat	M	OBC	SM	UG		
J.En.	Abhay Dube	M	GEN.	-	J.En. LKS	BE (Ag.)					

(iv) Details of Watershed Committees (WC) Sahajarasar

SN	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
4.	Watershed Committees Sahajarasar	15.07.2010	61/2011-12 19.05.2011	President	Nattiram Sivar	M	OBC.	BF	UG.	Educate
				Secretary	Ummedram Jat	M	OBC	MF		Educate
				Member	Kishanaram Sivar	M	OBC	MF	UG	Educate
				Member	Pannaram Nayak	M	SC	L.less	UG	N.Educate
				Member	Patram Sharma	M	GEN.	MF	UG	N.Educate
				Member	KodaRam Sharma	M	GEN.	SF	UG	Educate
				Member	Koshalya Sharma	M	GEN.	SF	SHG	Educate
				Member	Kalooram Nai	M	OBC	MF	UG.	Educate
				Member	Ramchandradas Swami	M	OBC.	MF	UG.	Educate
				Member	Jhanwarlal Sharma	M	GEN.	BF	UG.	Educate
				Member	Pannaram Nayak	M	GEN.	MF	UG	
				Member	Dannidevi Meghwal	F	SC	L. LESS	SHG	
				Member	Kumbhnath Yogi	M	OBC	SM	UG	
J.En.	Abhay Dube	M	GEN.	-	J.En. LKS	BE (Ag.)				

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. 170-74 ha. land is arable wasteland and 8.09 ha is fallow can be brought under cultivation. Nil hac. is only irrigated and with efforts this can be increased to 8.85-15 % of this area. The productivity gap of major crops in the area as compared with district and with areas in the same agro climatic zones indicate potential to increase the productivity. The demonstration of improved package of practices, improved varieties, increased irrigation facilities and soil conservation measures under the project can bridge this gap. Due to small land holdings in the area focus of the project would be on diversification in agriculture (horticulture, vegetables, green houses, Agro forestry, fodder crops) and diversification in Livelihoods (Agriculture, Animal husbandry, self employment) microenterprises on farm+44 farm visit.

30 % 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 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.

Mention specific problem of the area in land degradation, water, Agriculture and in Animal Husbandry

The main problems of the area in land degradation due to Lake of

- 1- Sand dunes stabilisation
- 2- Rain water collection conservation and soil erosion.
- 3- Agroforestry system
- 4- Stubble mulching.
- 5- Low Ofsity
- 6- Rain water harvesting and its proper use.
- 7- Technical know how of the farmers.
- 8- Low technical knowladge of rainfall agriculture.
- 9- Weed management.

Problem of Live-stock

- 1- Low population of Live-stock and low productivity of their products.
- 2- Unavailability of fodder and drinking water.
- 3- Poverty index % is very low.
- 4- Breeding efficiency is low.
- 5- Hertabeity is low.

W.D.T.
(Agri.)
IWMP-VII

W.D.T.
(S.S.)
IWMP-VII

W.D.T.
(Vet.)
IWMP-VII

सरंपच
ग्राम पचायत

अध्यक्ष
उप समिति
(जलग्रहण)

CHAPTER – II

Socio economic Features, Problems and Scope

Table 2.1 Population & Household Details:

Total Population					
Male	Female	Total	SC	ST	OBC
2747	2548	5295	1343	0	3036

Household Details							
BPL household	L. Less	Small Farmer	M. Farmer	Total household	SC household	ST household	Large H.H
60	21	213	557	1096	278	0	305

Table 2.2 Development indicators

S. No.	Development Indicators	State	Project Area
1	Per capita income (Rs.)	16260	2500
2	Poverty ratio	0.22	above 80 %
3	Literacy (%)	0.604	51.91 %
4	Sex Ratio	921	927
5	infant mortality rate	1000/65	1000/72
6	maternal mortality ratio		-

The table indicates poor socio economic conditions.

Table 2.3 Land Use

Land Use	Total area in Ha.				
	Private	Panchayat	Government	Community	Total
Agriculture Land	9665				9665
Temporary fallow	196				
Permanent Fallow					
Cultivated Rain fed	9498				
Cultivated irrigated					
Net Sown Area	9498 ha.				
Net Area sown more than once	Nil				
Forest Land	Nil				
Waste Land	188				188
Pastures	-	411			411
Others	-		163		163
Total	9665	411	163		10239

The project area has 88 ha of cultivable wasteland 96 ha of fallow land (total 384 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 rain fed varieties of crops. Construction of WHS can also increase in area under irrigation which is only nil. (3 % 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-ditches, staggered trenches ,WHS (Johad) A forestation of wastelands and Pasture land development will be taken up on these lands Pasture land development the land use table shows that there is 261.02 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.

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)
Kharif	Gour- local seed	4850	10185	210					4850	10185
	Moth- Local Seed	4648	9528	205	-	-	-	-	4648	9528
Rabi		-	-	-	-	-	-	-	-	-
Zaid		-	-	-	-	-	-	-	-	-
Total		-	-	-	-	-	-	-	-	-

Table 2.4.b Abstract of cropped Area(ha)

Area under Single crop	9498 ha.
Area under Double crop	Nil
Area under Multiple crop	Nil

Write for each crop : The farmers are using local seed varieties of Gour & Moth whereas varieties like RGC-936, RGC-197, RGC-1017, RGC-1003 of Guar and RMO-40, RMO-257, RMO-225 & RMO-425 of Moth bazara-HHB67 crop can increase the production and productivity of this watershed area.

Crop Rotation**will vary from project to project

Bajra	Fallow
Moong	Fallow
Cluster Bean	Fallow
Fallow	Tarameera
Til	Fallow
Moth	Fallow

The table 2.4(b) shows that only Nil ha is (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
Gour	150	122	277	277	210
Moth	144	122	257	257	205

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

The reasons for this variation are

- The farmers are using varieties local seed variety of Gour & Moth whereas varieties like RGC-936, RGC-197, RGC-1017, RGC-1003 of Guar and RMO-40, RMO-257, RMO-225 & RMO-425 of Moth provide 4-6 qt./ha. of Guar & 3-5 qt./ha of Moth crop yield (write for all crops)
- 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% is irrigated table----

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

Table 2.5 Existing area under horticulture/Vegetables/Floriculture (ha)

Activity	Area	Species	Varieties	Recommended varieties	Production
Horticulture	-	-	-	-	-
Vegetables	-	-	-	-	-
Floriculture	-	-	-	-	-
Medicinal Plants	-	-	-	-	-

Table 2.6 Land holding Pattern in project area

Type of Farmer	Total Households	Land holding (ha) irrigation source wise			Land holding (ha) Social group wise				
		Irrigated (source)	Rain fed	Total	General	SC	ST	OBC	BPL
(i) Large farmer	21	-	3930	3930	6		-	15	
(ii) Small farmer	213	-	1320	1320	46	26	-	141	-
(iii) Marginal farmer	557	-	3672	3672	126	84	-	347	8
(iv) Landless person	21	-	-	-	4	17	-		19
(V) BPL households	116	-	576	576	7	20	-	11	27
Total	928		9498	9498	189	147	-	414	54

15.93 % land holdings belong to small and marginal farmers who own 17.20 % 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, elivira, ratanjoyt, ber, ker,

Agro forestry plantation- To increase the income of farmers and also for shelter belt plantation as wind velocity is high in the project area. Jandi, tecomela undulefa cupparisis..... agroforestry plant.

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. Green mannurinby seed for high nutritional value

Production and distribution of good 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 eg. Chilies, seeding brinjil seeding etc.

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

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

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

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

S.No.	Description of animals	Population in No.	Yield(milk/mutton/Wool)	Equ. cow units	Dry matter requirement per year (7Kg per animal.)	Total requirement in M.T.
1	Cows	5565	56500 ltr./month	5565	2031225	2031.2 mt.
2	Indigenous	-	-	-	-	-
3	Hybrid	-	-	-	-	-
4	Buffaloes	251	11250 ltr./month	251	91615	91.6 mt.
5	Goat	2758	6213 kg.	2758	57458	57.4 mt.
6	Sheep	356	13.94 kg.	356	23630	0.236 mt.
7	Camel	128		128	-	
8	Poultry	-		-	-	
9	Piggery	-		-	-	
	Total	9058				

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	-
2	Production of Green fodder	Tonns/year	-
3	Production of Dry fodder	Tonns/ Year	-
4	Area under Pastures	Ha	-
5	Production of fodder	Tonns/year	-
6	Existing area under Fuel wood	Ha	-
7	Supplementary feed	Kgs/ day	-
8	Silage Pits	No	-
9	Availability of fodder	quintals	-
10	Deficiency/excess of fodder	quintals	Row 5- total fodder requirement from table2.7

The table above shows there is fodder deficiency (Requirement is -----and availability -----) 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	24
2	Sprayers-manual/ power	253
3	Cultivators/Harrows	34
4	Seed drill	26
5	Any Other	-

Farm mechanization and seed banks: As discussed earlier 17.71 % 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.

S. No.	Name of village	Total No .of job cards	Employment Status	Activity taken up so far
1	GARABDESAR	1650	60 %	990
	Kaloo	1749		887
	Kujati	1232		759
	Sahajarasar	1198		788

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)
Garabdesar	69	180	Earning	150	Labour	21.5
Kaloo	76	180	Earning	150	Do	19.9
Kujati	53	180	Earning	150	Do	15.78
Sajarasar	57	180	Earning	150	Do	16.54

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 activities (On Farm)

Name of activity	No of House holds	Average annual income from the
cultivators	995	3000
Dairying	545	1400
Poultry	-	-
Piggery	-	-
Landless Agri. Labourers	1	-

Table 2.12(b)Major activities (Off Farm)

Name of activity	Households/individuals	Average annual income from the
Artisans	13	60000
Carpenter	14	48000
Blacksmith	5	15000
Porter	2	-
Others specify (Cycle Repair ,STD,Craft etc)	3	65000

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	16	186	Saving					

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(d ays)
i)	Dug wells	-	-	-	-	-
ii)	Shallow tube wells	-	-	-	-	-
iii)	Pumping sets	2	450 feet	-	-	200 day
iv)	Deep Tube Wells	-	-	-	-	-
	Total	2	450 feet	-	-	200 day

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	Garabdesar Kaloo Kujat Sahajarasar	5500	1500/day	2 Pump sets	2	Nil	Nil

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
Moth, Til, Bazara, Moong, Gour	Nil	2000 ha.	-	2000 ha.

- 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%	2514 ha.
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 2.18 Water Budgeting**Table 2.18 (a) Total available runoff(cum) use Stranges table**

Area	Type of Catchments	Yield of runoff from Catchments per ha.(cum.) use Strange table	Total Runoff
2514 ha.	Sandy	-	-
	Total		

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

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

Table 2.18 (c) Balance available runoff (cum)

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

The water budgeting indicates potential for water harvesting in the area

Table 2.19 Soil details

S.No. A	Major Soil Classes	Area in hectares	
1	Sandy	1000	
B	Soil Depth (Cms.)	Area in hectares	
1	0.00 to 7.50	-	
2	7.50 to 45.00	-	
3	> 45.00	2514	
C	Soil fertility Status	Kg/ha	Recommended
	N Low	0.17-0.18	
	P Medium	25.4	
	K Sufficient	170-180	
	Micronutrients	PPM	
	Zn- deficient Fe- deficient Mn- higher Cu- occasionally low	Deficient Deficient	

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 (Tones/ ha/ year)	
Water erosion					
a	Sheet	-	-	-	-
b	Rill	-	-	-	-
c	Gully	-	-	-	-
Sub-Total					
Wind erosion		2514	-	12.4%	
Total for project		2514	-	12.4%	

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 mullah 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 like Earthen check dams, gully plugs, Bank Stabilisation, Loose stone check Dams, Gabions, Earthen embankment (Nadir) and Anicuts would be taken up.

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(S.S.)
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W.D.T.
(Vet.)
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सरंपच
ग्राम पचायत

अध्यक्ष
उप समिति
(जलग्रहण)

3 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 **Shubhalai** 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. Gram 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	GARABDESAR	26-07-10
2	KALOO	26-07-10
3	KUJATI	26-07-10
4	SAHAJARASAR	26-07-10

S. No.	Names of village	Amount earmarked for EPA	Entry Point Activities planned	Estimated cost	Expenditure incurred	Balance	Expected outcome	Actual outcome
1	Garabdesar	15.00Lac	2 GLR	60 lac.	13 lac	47lac	Availibility of water& light	Availibility of water& light
2	Kaloo	15.00Lac	25 Solar light					
3	Kujati	15.00Lac	Pipe line					
4	Sahajarasar	15.00Lac						

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	Garabdesar	06.06.2011
2	Kaloo	07.06.2011
3	Kujati	08.06.2011
4	Sahajarasar	09.06.2011

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 **05.08.11 to 31.12.11** (dates) period covering all the households and primary data on demography, Land holdings, Employment status, Community activities etc. was collected as mentioned in chapter-II.

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 **8.1**).The GIS based intervention map, PRA based intervention map are annexed as 18.1 e

EXPECTED OUT COMES

1	2		3	4	5	6
S. No.	Item		Unit of measurement	Pre-project Status	Expected Post-project Status	Remarks
1	Status of water table (Depth to Ground water level)		Meters	1376-152	1376-140	By WH new techniques for water is lift canal.
2	Ground water structures repaired/ rejuvenated		No.	2	Nil	By construction activities of IWMP
3	Quality of drinking water		Description	Salteffect	good	By recharging of rain water
4	Availability of drinking water		Description	un Sufficient	Sufficient	By WH of rain water
5	Change in irrigated Area		Ha	0	5-7 hac.	By water tank
6	Change in cropping/ land use pattern		Description	Guar , Bazara, Moong, Moth, Til	Guar, Bazaea, rabi, Horticulture crop	By agro horticulture system technology
7	Area under agricultural crop		Ha	2070.74	2177.06	By dry land Ag practice
	I	Area under single crop	Ha	2000	2170.74	By maximum use of land
	li	Area under double crop	Ha	0	6.68	by maximum income return
	lii	Area under multiple crop	Ha	0	2	By multicroping system
8	Change in cultivated Area		Ha	0	8.85-15 %	By WT constru
9 yield of major crops of area	Yield of Guar		q/ha	1.5-2.0	2.5-3.0	By gour pop + new technology
	Yield of Moth		q/ha	1-2	1.5-2.5	By Moth pop + new technology
	Yield of Gram		q/ha	0	1	By rabi session corp POP
	Yield of Mustard		q/ha	0	1	By oil Seed Corp technology
10 production of major crops of area	Production of Guar		ton	55	72	By corp POP+ demonstration
	Production of Moth		ton	0.1	1	Through new Ag. Technology
	Production of Gram		ton	0	1	By dry land Ag. Praction
	Production of Mustard		ton	0	1	By oil seed corp technology

11	Area under vegetation	Ha	0	2	Kitchen gardening
12	Area under horticulture	Ha	0	8	Bare Plantation
13	Area under fuel	Ha	0	10	by Plantation of orestrary
14	Area under Fodder	Ha	0	261.02	by Pasture dev.
15	Fodder production	Q	0	45	By corp improvement
16	Milk production	Litres/day	72	85-90	By AI+feed+diesed
17	SHGs Active	No.	8	16	By social mobilization
18	No. of livelihoods	No.	17	25	By micro interprises
19	Income	Rs.in la	6.3	8.5	By micro interprises
20	Migration	No.	69	45	By employment
21	SHG Federations formed	No.	0	1	By social avtivities

Critical Assumption

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

Means of Verification of indicators

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

Component Wise & Year wise Breakup of watershed Activities

Name of watershed committee : garbadesar,kaloo,kujati&sahajarasar

Name of watershed:- Bikaner vii

Gram Panchyat : garbadesar,kaloo,kujati

Panchayat samiti : lunkaransar (Bikaner)

Scheme : I.W.M.P

Area- 10000 hac.

Cost- 0.15 lac per hac.

Total Cost 1500 Lac.

Activity	Year wise													
	2010-11		2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	%	Fin.	%	Fin.	%	Fin.	%	Fin.	%	Fin.	%	Fin.	%	Fin.
Admn.	1.00	15.00	2.00	30.00	2.00	30.00	2.00	30.00	2.00	30.00	1.00	15.00	10.00	150.00
Monitoring	0.10	1.50	0.20	3.00	0.20	3.00	0.20	3.00	0.20	3.00	0.10	1.50	1.00	15.00
Evaluation	0.00	0.00	0.30	4.50	0.00	0.00	0.35	5.25	0.00	0.00	0.35	5.25	1.00	15.00
EPA	4.00	60.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	60.00
I & CB	1.50	22.50	1.50	22.50	0.50	7.50	1.00	15.00	0.00	0.00	0.50	7.50	5.00	75.00
DPR	1.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	15.00
Watershed Works	0.00	0.00	7.00	105.00	15.00	225.00	20.00	300.00	10.00	150.00	8.00	120.00	60.00	900.00
Livelihoods, production system and micro enterprises	0.00	0.00	2.00	30.00	4.00	60.00	4.00	60.00	4.00	60.00	1.00	15.00	15.00	225.00
Consolidation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	45.00	3.00	45.00
Total	7.60	114.00	13.00	195.00	21.70	325.50	27.55	413.25	16.20	243.00	13.95	209.25	100.00	1500.00

This year wise breakup of watershed activities has been compiled with reference of letter no. F18 (1 - 49) IWMP/WDSC/2010-11

Dated of directorate of Watershed Dev. & Soil Conservation Department Jaipur.



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(Engg.)
IWMP-VII



W.D.T.
(Social Science.)
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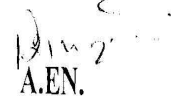
W. D. T.
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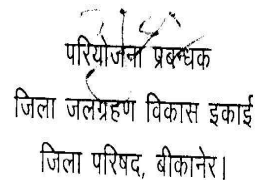
W.D.T.
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J.EN.
(I W M P)
P.S. Lunkaransar



A.EN.
(I W M P)
P.S. Lunkaransar


परियोजना प्रबन्धक
जिला जलग्रहण विकास इकाई
जिला परिषद, बीकानेर।

Component Wise & Year wise Breakup of watershed Activities

Natural resources management 60 %

Conservation measures for arable & non-arable land

Name of watershed committee : garbadesar,kaloo,kujati&sahajarasar

Name of watershed:- Bikaner vii

Gram Panchyat :garbadesae,kaloo,kujati

Panchayat samiti :lunkaransar (Bikaner)

Scheme : I.W.M.P

Area- 10000 hac. Cost- 0.2 lac per hac. Total Cost 1500 Laes

Conservation measures for arable land (Activity)	NO.	UNIT COST	TOTAL AMT. (lacs)	Year wise									
				2011-2012		2012-2013		2013-2014		2014-2015		2015-2016	
				Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1 Construction of Jalkund / Tanka	831		664.80	78	64.20	179	144.40	298	236.75	140	112.30	136	107.15
2 Construction of Public Jalkund / Tanka 50000 Lit. Capacity	22		41.40	1	1.60	6	11.35	7	13.30	7	13.20	1	1.95
3 Diggy	3		26.00	0	0.00	2	18.00	1	8.00		0.00		0.00
4 Repair of existing W.H.S.	4		29.23	0	0.00	3	14.35	1	14.88				
Total			761.43	78	65.80	179	188.10	298	272.93	140	125.50	136	109.10
Conservation and production measures for non-arable land(Activity)													
1 Pasture development	4		138.57		39.20		36.90		27.07		24.50		10.90
Total			138.57		39.20		36.90		27.07		24.50		10.90
Grant total			900.00		105.00		225.00		300.00		150.00		120.00

W.D.T.

(Engg.)

IWMP-VIII

A.EN.

(I W M P)

P.S. Lunkaransar

W.D.T.

(Social Science.)

IWMP-VIII

परियोजना प्रबन्धक

जिला जलग्रहण विकास इकाई

जिला परिषद, बीकानेर।

W.D.T.

(Vet.)

IWMP-VIII

W.D.T.

(Agri.)

IWMP-VIII

J.EN.

(I W M P)

P.S. Lunkaransar

Component Wise & Year wise Breakup of watershed Activities
(B) Production System and micro enterprise 15 % measure for arable land

Name of watershed committee : garbadesar, kaloo, kujati & saharasar

Name of watershed:- Bikaner vii

Gram Panchyat : garbadesar, kaloo, kujati

Panchayat samiti : lunkaransar (Bikaner)

Scheme : I.W.M.P

Area- 10000 hac. Cost- 0.15 lac per hac.

Total Cost 1500 Lacs

Production measures for arable land (activity)	No.	Unit cost	Total cost	2010-11		2011-12		2012-13		2013-14		2014-15		2015-2016	
				Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1 Kitchen Garden (Seed Packet)	1200	0.004	4.80	0	0	600	2.4	600	2.4	0	0	0	0	0	0
2 Compost Pit	680	0.1	68.00	0	0	159	15.9	155	15.5	159	15.9	207	20.7	0	0
3 Soil testing	1200	0.0001	0.12	0	0	0	0	400	0.04	800	0.08	0	0	0	0
4 Plantation along the road	40000	0.00035	14.00	0	0	1600	0.56	10400	3.64	12000	4.2	16000	5.6	0	0
5 Crop Demonstration	4000	0.005	20.00	0	0	384	1.92	1216	6.08	1200	6	1200	6	0	0
6 Fodder demonstration	0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0
			106.92	0	0.000	5820	20.780	834	27.660	0	26.180	0	32.300	0	0.000
Production measures for non arable land (activity)															
1 Veterinary Treatment camp	32	1.2	38.40	0	0	4	4.8	8	9.6	8	9.6	8	9.6	4	4.8
2 Breed Improvement	0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0
3 Bull distribution	8	0.5	4.00	0	0	0	0	4	2	4	2	0	0	0	0
4 Artificial Insemination	0	0	0.00	0	0	0	0	0	0	0	0	0	0	0	0
5 SHG's Training	16	0.48	7.68	0	0	4	1.92	4	1.92	4	1.92	4	1.92	0	0
6 Micro Enterprises	0	0	68.00	0	0	0	2.5	0	18.82	0	20.3	0	16.18	0	10.2
			118.08	0	0.000	8.000	9.220	16.000	32.340	16.000	33.820	12.000	27.700	4.000	15.000
			225.00	0	0.000	5828.000	30.000	850.000	60.000	16.000	60.000	12.000	60.000	4.000	15.000

W.D.T.

(Engg.)

IWMP-VIII

A.E.N.

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P.S. Lunkaransar

W.D.T.

(Social Science.)

IWMP-VIII

परियोजना प्रबन्धक

जिला जलग्रहण विकास इकाई

जिला परिषद, बीकानेर।

W.D.T

(Agri.)

IWMP-VIII

W.D.T.

(Vet.)

IWMP-VIII

J.E.N.

(I W M P)

P.S. Lunkaransar

Component Wise & Year wise Breakup of watershed Activities

Name of watershed committee : Garbadesar

Name of watershed:- Bikaner vii

Gram Panchyat : Garbadesar

Panchayat samiti :lunkaransar (Bikaner)

Scheme : I.W.M.P

Area- 2500 hac.

Cost- 0.15 lac per hac.

Total Cost 375 Lac.

Activity	Year wise													
	2010-11		2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	%	Fin.	%	Fin.	%	Fin.	%	Fin.	%	Fin.	%	Fin.	%	Fin.
Admn.	1.00	3.75	2.00	7.50	2.00	7.50	2.00	7.50	2.00	7.50	1.00	3.75	10.00	37.50
Monitoring	0.10	0.38	0.20	0.75	0.20	0.75	0.20	0.75	0.20	0.75	0.10	0.38	1.00	3.75
Evaluation	0.00	0.00	0.30	1.13	0.00	0.00	0.35	1.31	0.00	0.00	0.35	1.31	1.00	3.75
EPA	4.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	15.00
I & CB	1.50	5.63	1.50	5.63	0.50	1.88	1.00	3.75	0.00	0.00	0.50	1.88	5.00	18.75
DPR	1.00	3.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	3.75
Watershed Works	0.00	0.00	7.00	26.25	15.00	56.25	20.00	75.00	10.00	37.50	8.00	30.00	60.00	225.00
Livelihoods, production system and micro enterprises	0.00	0.00	2.00	7.50	4.00	15.00	4.00	15.00	4.00	15.00	1.00	3.75	15.00	56.25
Consolidation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	11.25	3.00	11.25
Total	7.60	28.50	13.00	48.75	21.70	81.38	27.55	103.31	16.20	60.75	13.95	52.31	100.00	375.00

This year wise breakup of watershed activities has been compiled with reference of letter no. F18 (1 - 49) IWMP/WDSC/2010-11

Dated of directorate of Watershed Dev. & Soil Conservation Department Jaipur.


सरपंच

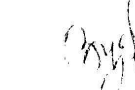
ग्राम पंचायत
गारबदेसर


अध्यक्ष

रूप समिति
गारबदेसर



W.D.T.
(Engg.)
IWMP-VII



W.D.T.
(Social Science.)
IWMP-VII



W. D. T
(Agri.)
IWMP-VII


W.D.T.
(Vet.)

IWMP-VII


J.EN.

(I W M P)
P.S. Lunkaransar


A.EN.

(I W M P)
P.S. Lunkaransar


परियोजना प्रबन्धक

जिला जलग्रहण विकास इकाई
जिला परिषद, बीकानेर।

Component Wise & Year wise Breakup of watershed Activities

Natural resources management 60 %

Conservation measures for arable & non-arable land

Name of watershed committee : Garbadesar

Name of watershed:- Bikaner vii

Gram Panchyat : Garbadesar

Panchayat samiti :lunkaransar (Bikaner)

Scheme : I.W.M.P

Area- 2500 hac. Cost- 0.15 lac per hac. Total Cost 375 Lacs

	Conservation measures for arable land (Activity)	NO.	UNIT COST	TOTAL AMT. (lacs)	Year wise									
					2011-2012		2012-2013		2013-2014		2014-2015		2015-2016	
					Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1	Construction of Jalkund / Tanka 17000 Lit. Capacity	211	0.70	147.70	21	14.70	38	26.60	78	54.60	35	24.50	39	27.30
2	Construction of Public Jalkund / Tanka 50000 Lit. Capacity	7	1.90	13.30	0	0.00	2	3.80	2	3.80	3	5.70		0.00
3	Diggy	1	10.00	10.00		0.00	1	10.00		0.00		0.00		0.00
4	Repair of existing W.H.S.	2		13.40			1	5.00	1	8.40				
	Total			184.40		14.70		45.40		66.80		30.20		27.30
	Conservation and production measures for non-arable land(Activity)													
1	Pasture development	1		40.60		11.55		10.85		8.20		7.30		2.70
	Total			40.60		11.55		10.85		8.20		7.30		2.70
	Grant total			225.00		26.25		56.25		75.00		37.50		30.00

गजकुमार
सरपंच

ग्राम पंचायत
गारबदेसर

W.D.T.
W.D.T.
(Vet.)
IWMP-VII

Kalika
W.D.T.
(Agri.)
IWMP-VII

अध्यक्ष
अध्यक्ष

उप समिति
गारबदेसर

J.E.N.
J.E.N.
(I W M P)
P.S. Lunkaransar

W. D. T.
W. D. T.

(Engg.)

IWMP-VII

A.E.N.
A.E.N.
(I W M P)
P.S. Lunkaransar

W. D. T.
W. D. T.

(Social Science.)

IWMP-VII

परियोजना प्रबन्धक
परियोजना प्रबन्धक
जिला जलग्रहण विकास इकाई
जिला परिषद, बीकानेर।

Component Wise & Year wise Breakup of watershed Activities

(B) Production System and micro enterprise 15 % measure for arable land

Name of watershed committee : Garbadesar

Name of watershed:- Bikaner vii

Gram Panchyat : Garbadesar

Panchayat samiti :lunkaransar (Bikaner)

Scheme : I.W.M.P

Area- hac. Cost- 0.15 lac per hac. Total Cost 0 Lacs

Production measures for arable land (activity)	No.	Unit cost	Total cost	2010-11		2011-12		2012-13		2013-14		2014-15		2015-2016	
				Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1 Kitchen Garden(Seed Packet)	300	0.004	1.20	0		150	0.60	150	0.60		0.00		0.00		0.00
2 Compost Pit	207	0.1	20.70	0		46	4.60	50	5.00	50	5.00	61	6.10		0.00
3 Soil testing	300	0.0001	0.03	0		0	0.00	100	0.01	200	0.02		0.00		0.00
4 Plantation along the road	10000	0.00035	3.50	0		400	0.14	2600	0.91	3000	1.05	4000	1.40		0.00
5 Crop Demonstration	1000	0.005	5.00	0		96	0.48	304	1.52	300	1.50	300	1.50		0.00
6 Fodder demonstration	0	0	0.00	0		0	0.00	0	0.00		0.00		0.00		0.00
		0.1081	30.43	0		2910	5.82	417	8.04		7.57		9.00		0.00
Production measures for non arable land (activity)															
1 Veterinary Treatment camp	8	1.2	9.60	0		1	1.20	2	2.40	2	2.40	2	2.40	1	1.20
2 Breed Improvement	0	0	0.00	0		0	0.00		0.00	0	0.00		0.00		0.00
3 Bull distribution	2	0.5	1.00	0		0	0.00	1	0.50	1	0.50		0.00		0.00
4 Artificial Insemination	0	0	0.00	0		0	0.00		0.00	0	0.00		0.00		0.00
5 SHG's Training	4	0.48	1.92	0		1	0.48	1	0.48	1	0.48	1	0.48	0	0.00
6 Micro Enterprises	0	0	13.30	0			0.00		3.58	0	4.05		3.12		2.55
		2.18	25.82	0		4	1.68		6.96	1	7.43		6.00		3.75
			56.25			4	7.50		15.00		15.00		15.00		3.75

सरपंच

ग्राम पंचायत
गारबदेसर

W.D.T.

(Vet.)
IWMP-VII

अध्यक्ष

उप समिति (जलग्रहण)
गारबदेसर

J.E.N.

(I W M P)
P.S. Lunkaransar

W.D.T.

(Engg.)

IWMP-VII

A.E.N.

(I W M P)
P.S. Lunkaransar

W.D.T.

(Social Science.)

IWMP-VII

परियोजना प्रबन्धक

जिला जलग्रहण विकास इकाई
जिला परिषद, बीकानेर।

W.D.T.

(Agri.)

IWMP-VII

Component Wise & Year wise Breakup of watershed Activities

Name of watershed committee : Kaloo

Name of watershed:- Bikaner vii

Gram Panchyat : Kaloo

Panchayat samiti :lunkaransar (Bikaner)

Scheme : I.W.M.P

Area- 2500 hac.


Cost- 0.15 lac per hac.

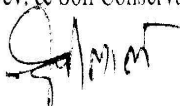
Total Cost 375 Lac.


Activity	Year wise													
	2010-11		2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	%	Fin.	%	Fin.	%	Fin.	%	Fin.	%	Fin.	%	Fin.	%	Fin.
Admn.	1.00	3.75	2.00	7.50	2.00	7.50	2.00	7.50	2.00	7.50	1.00	3.75	10.00	37.50
Monitoring	0.10	0.38	0.20	0.75	0.20	0.75	0.20	0.75	0.20	0.75	0.10	0.38	1.00	3.75
Evaluation	0.00	0.00	0.30	1.13	0.00	0.00	0.35	1.31	0.00	0.00	0.35	1.31	1.00	3.75
EPA	4.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	15.00
I & CB	1.50	5.63	1.50	5.63	0.50	1.88	1.00	3.75	0.00	0.00	0.50	1.88	5.00	18.75
DPR	1.00	3.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	3.75
Watershed Works	0.00	0.00	7.00	26.25	15.00	56.25	20.00	75.00	10.00	37.50	8.00	30.00	60.00	225.00
Livelihoods, production system and micro enterprises	0.00	0.00	2.00	7.50	4.00	15.00	4.00	15.00	4.00	15.00	1.00	3.75	15.00	56.25
Consolidation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	11.25	3.00	11.25
Total	7.60	28.50	13.00	48.75	21.70	81.38	27.55	103.31	16.20	60.75	13.95	52.31	100.00	375.00

This year wise breakup of watershed activities has been compiled with reference of letter no. F18 (1 - 49) IWMP/WDSC/2010-11

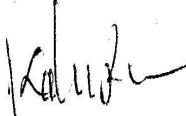
Dated of directorate of Watershed Dev. & Soil Conservation Department Jaipur.


सरपंच
ग्राम पंचायत
कालू



अध्यक्ष
उप समिति
कालू

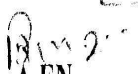

सचिव
जल ग्रहण समिति, कालू
IWMP-VII

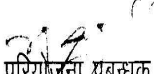

W.D.T.
(Social Science.)
IWMP-VII


W. D. T
(Agri.)
IWMP-VII


W.D.T.
(Vet.)
IWMP-VII


J.EN.
(I W M P)
P.S. Lunkaransar


A.EN.
(I W M P)
P.S. Lunkaransar


परियोजना प्रबन्धक
जिला जलग्रहण विकास इकाई
जिला परिषद, बीकानेर।

Component Wise & Year wise Breakup of watershed Activities

Natural resources management 60 %

Conservation measures for arable & non-arable land

Name of watershed committee : Kalea

Name of watershed:- Bikaner vii

Gram Panchyat : Kaloo

Panchayat samiti :lunkaransar (Bikaner)

Scheme : I.W.M.P

Area- 2500 hac. Cost- 0.15 lac per hac. Total Cost 375 Lacs

	Conservation measures for arable land (Activity)	NO.	UNIT COST	TOTAL AMT. (lacs)	Year wise									
					2011-2012		2012-2013		2013-2014		2014-2015		2015-2016	
					Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1	Construction of Jalkund / Tanka 17000 Lit. Capacity	254	0.85	215.90	29	24.65	64	54.40	86	73.10	42	35.70	33	28.05
2	Construction of Public Jalkund / Tanka 50000 Lit. Capacity	5	1.90	9.10	1	1.60	1	1.85	1	1.90	1	1.80	1	1.95
3	Diggy													
4	Repair of existing W.H.S.													
	Total			225.00		26.25		56.25		75.00		37.50		30.00
	Conservation and production measures for non-arable land(Activity)													
1	Pasture development	0	0	0.00										
	Total			0.00		0.00		0.00		0.00		0.00		0.00
	Grant total			225.00		26.25		56.25		75.00		37.50		30.00

P. K. Sethi
सरपंच

ग्राम पंचायत

कालू

W.D.T.

(Vet.)

IWMP-VII

P. K. Sethi
W.D.T.

(Agri.)

IWMP-VII

J. N. Singh
अध्यक्ष

उप समिति

कालू

J.E.N.

(I W M P)

P.S. Lunkaransar

W. D. T.
W. D. T.

(Engg.)

IWMP-VII

A.EN.

(I W M P)

P.S. Lunkaransar

W. D. T.
W. D. T.

(Social Science.)

IWMP-VII

परियोजना प्रबन्धक

जिला जलग्रहण विकास इकाई

जिला परिषद, बीकानेर।

Component Wise & Year wise Breakup of watershed Activities
(B) Production System and micro enterprise 15 % measure for arable land

Name of watershed committee : Kaloo

Name of watershed:- Bikaner vii

Gram Panchyat : Kaloo

Panchayat samiti :lunkaransar (Bikaner)

Scheme : I.W.M.P

Area- hac. Cost- 0.2 lac per hac. Total Cost 0 Lacs

Production measures for arable land (activity)	No.	Unit cost	Total cost	2010-11		2011-12		2012-13		2013-14		2014-15		2015-2016	
				Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1 Kitchen Garden(Seed Packet)	300	0.004	1.20	0		150	0.60	150	0.60		0.00		0.00		0.00
2 Compost Pit	207	0.1	20.70	0		46	4.60	50	5.00	50	5.00	61	6.10		0.00
3 Soil testing	300	0.0001	0.03	0		0	0.00	100	0.01	200	0.02		0.00		0.00
4 Plantation along the road	10000	0.00035	3.50	0		400	0.14	2600	0.91	3000	1.05	4000	1.40		0.00
5 Crop Demonstration	1000	0.005	5.00	0		96	0.48	304	1.52	300	1.50	300	1.50		0.00
6 Fodder demonstration	0	0	0.00	0		0	0.00	0	0.00		0.00		0.00		0.00
		0.1081	30.43	0		2910	5.82	417	8.04		7.57		9.00		0.00
Production measures for non arable land (activity)															
1 Veterinary Treatment camp	8	1.2	9.60	0		1	1.20	2	2.40	2	2.40	2	2.40	1	1.20
2 Breed Improvement	0	0	0.00	0		0	0.00		0.00	0	0.00		0.00		0.00
3 Bull distribution	2	0.5	1.00	0		0	0.00	1	0.50	1	0.50		0.00		0.00
4 Artificial Insemination	0	0	0.00	0		0	0.00		0.00	0	0.00		0.00		0.00
5 SHG's Training	4	0.48	1.92	0		1	0.48	1	0.48	1	0.48	1	0.48	0	0.00
6 Micro Enterprises	0	0	13.30	0			0.00		3.58	0	4.05		3.12		2.55
		2.18	25.82	0		4	1.68		6.96	1	7.43		6.00		3.75
			56.25			4	7.50		15.00		15.00		15.00		3.75

Ralbasethia
संरपच
ग्राम पचायत
कालू
W.D.T.
(Vet.)
IWMP-VII

S. J. N.
अध्यक्ष
उप समिति (जलग्रहण)
कालू
J.E.N.
(I W M P)
P.S. Lunkaransar

S. J. N.
W.D.T.
(Engg.)
IWMP-VII
A.E.N.
(I W M P)
P.S. Lunkaransar

S. J. N.
W.D.T.
(Social Science.)
IWMP-VII
परियोजना प्रबन्धक
जिला जलग्रहण विकास इकाई
जिला परिषद, बीकानेर।

S. J. N.
W. D. T.
(Agr.)
IWMP-VII

Component Wise & Year wise Breakup of watershed Activities

Name of watershed committee : Kujati

Name of watershed:- Bikaner vii

Gram Panchyat :Kujati

Panchayat samiti :lunkaransar (Bikaner)

Scheme : I.W.M.P

Area- 2500 hac.

Cost- 0.15 lac per hac.

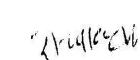
Total Cost 375 Lac.

Activity	Year wise													
	2010-11		2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	%	Fin.	%	Fin.	%	Fin.	%	Fin.	%	Fin.	%	Fin.	%	Fin.
Admn.	1.00	3.75	2.00	7.50	2.00	7.50	2.00	7.50	2.00	7.50	1.00	3.75	10.00	37.50
Monitoring	0.10	0.38	0.20	0.75	0.20	0.75	0.20	0.75	0.20	0.75	0.10	0.38	1.00	3.75
Evaluation	0.00	0.00	0.30	1.13	0.00	0.00	0.35	1.31	0.00	0.00	0.35	1.31	1.00	3.75
EPA	4.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	15.00
I & CB	1.50	5.63	1.50	5.63	0.50	1.88	1.00	3.75	0.00	0.00	0.50	1.88	5.00	18.75
DPR	1.00	3.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	3.75
Watershed Works	0.00	0.00	7.00	26.25	15.00	56.25	20.00	75.00	10.00	37.50	8.00	30.00	60.00	225.00
Livelihoods, production system and micro enterprises	0.00	0.00	2.00	7.50	4.00	15.00	4.00	15.00	4.00	15.00	1.00	3.75	15.00	56.25
Consolidation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	11.25	3.00	11.25
Total	7.60	28.50	13.00	48.75	21.70	81.38	27.55	103.31	16.20	60.75	13.95	52.31	100.00	375.00


This year wise breakup of watershed activities has been compiled with reference of letter no. F18 (1 - 49) IWMP/WDSC/2010-11


Dated of directorate of Watershed Dev. & Soil Conservation Department Jaipur.



सरपंच
ग्राम पंचायत
कुजटी



अध्यक्ष
उप समिति
कुजटी

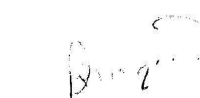

W.D.T.
(Engg.)
IWMP-VII



W.D.T.
(Social Science.)
IWMP-VII


W. D. T.
(Agri.)
IWMP-VII


W.D.T.
(Vet.)
IWMP-VII


J.EN.
(I W M P)
P.S. Lunkaransar


A.EN.
(I W M P)
P.S. Lunkaransar


परियोजना प्रबन्धक
जिला जलग्रहण विकास इकाई
जिला परिषद, बीकानेर।

Component Wise & Year wise Breakup of watershed Activities

Natural resources management 60 %

Conservation measures for arable & non-arable land

Name of watershed committee : Kujati

Name of watershed:- Bikaner vii

Gram Panchyat :Kujati

Panchayat samiti :lunkaransar (Bikaner)

Scheme : I.W.M.P

Area- 2500 hac. Cost- 0.15 lac per hac. Total Cost 375 Lacs

	Conservation measures for arable land (Activity)	NO.	UNIT COST	TOTAL AMT. (lacs)	Year wise									
					2011-2012		2012-2013		2013-2014		2014-2015		2015-2016	
					Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1	Construction of Jalkund / Tanka 17000 Lit. Capacity	186	0.70	130.20	7	4.90	39	27.30	73	51.10	31	21.70	36	25.20
2	Construction of Public Jalkund / Tanka 50000 Lit. Capacity	5	1.90	9.50	0	0.00	2	3.80	2	3.80	1	1.90	—	0.00
3	Diggy	—	—	—	—	0.00	—	0.00	—	0.00	—	0.00	—	0.00
4	Repair of existing W.H.S.	1		10.00	—	—	1	5.00	—	5.00	—	—	—	
	Total			149.70	—	4.90	—	36.10		59.90		23.60		25.20
	Conservation and production measures for non-arable land(Activity)													
1	Pasture development (2x50 hac.)	2	37.65	75.30		21.35		20.15		15.10		13.90		4.80
	Total			75.30		21.35		20.15		15.10		13.90		4.80
	Grant total			225.00		26.25		56.25		75.00		37.50		30.00

(Signature)

सरपंच

ग्राम पंचायत

कुजटी

(Signature)

अध्यक्ष

उप समिति

कुजटी

(Signature)

J.EN.

(I W M P)
P.S. Lunkaransar

(Signature)

W. D. T.

(Engg.)

IWMP-VII

(Signature)

A.EN.

(I W M P)
P.S. Lunkaransar

(Signature)

W. D. T.

(Social Science.)

IWMP-VII

(Signature)

परियोजना प्रबन्धक
जिला जलग्रहण विकास इकाई
जिला परिषद, बीकानेर।

(Signature)

W.D.T.

(Vet.)
IWMP-VII

(Signature)

W.D.T.

(Agri.)
IWMP-VII

Component Wise & Year wise Breakup of watershed Activities
(B) Production System and micro enterprise 15 % measure for arable land

Name of watershed committee : Kujati

Name of watershed:- Bikaner vii

Gram Panchyat :Kujati

Panchayat samiti :lunkaransar (Bikaner)

Scheme : I.W.M.P

Area- hac. Cost- 0.15 lac per hac. Total Cost 0 Lacs

Production measures for arable land (activity)	No.	Unit cost	Total cost	2010-11		2011-12		2012-13		2013-14		2014-15		2015-2016	
				Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1 Kitchen Garden(Seed Packet)	300	0.004	1.20	0		150	0.60	150	0.60		0.00		0.00		0.00
2 Compost Pit	159	0.1	15.90	0		46	4.60	30	3.00	34	3.40	49	4.90		0.00
3 Soil testing	300	0.0001	0.03	0		0	0.00	100	0.01	200	0.02		0.00		0.00
4 Plantation along the road	10000	0.00035	3.50	0		400	0.14	2600	0.91	3000	1.05	4000	1.40		0.00
5 Crop Demonstration	1000	0.005	5.00	0		96	0.48	304	1.52	300	1.50	300	1.50		0.00
6 Fodder demonstration	0	0	0.00	0		0	0.00	0	0.00		0.00		0.00		0.00
			25.63	0		2910	5.82	417	6.04		5.97		7.80		0.00
Production measures for non arable land (activity)															
1 Veterinary Treatment camp	8	1.2	9.60	0		1	1.20	2	2.40	2	2.40	2	2.40	1	1.20
2 Breed Improvement	0	0	0.00	0		0	0.00		0.00	0	0.00		0.00		0.00
3 Bull distribution	2	0.5	1.00	0		0	0.00	1	0.50	1	0.50		0.00		0.00
4 Artificial Insemination	0	0	0.00	0		0	0.00		0.00	0	0.00		0.00		0.00
5 SHG's Training	4	0.48	1.92	0		1	0.48	1	0.48	1	0.48	1	0.48	0	0.00
6 Micro Enterprises	0	0	18.10	0			0.00		5.58	0	5.65		4.32		2.55
			30.62	0		4	1.68		8.96	1	9.03		7.20		3.75
			56.25			4	7.50		15.00		15.00		15.00		3.75

सरपंच

अध्यक्ष

W.D.T.

W.D.T.

W.D.T.

ग्राम पंचायत

उप समिति (जलग्रहण)

(Engg.)

(Social Science.)

(Agri.)

कुजटी

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IWMP-VII

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W.D.T.

J.EN.

A.EN

परियोजना प्रबन्धक

(Vet.)

(IWMP)

(IWMP)

जिला जलग्रहण विकास इकाई

Component Wise & Year wise Breakup of watershed Activities

Name of watershed committee : Sahjarasar

Name of watershed:- Bikaner vii

Gram Panchyat : Kujati

Panchayat samiti :lunkaransar (Bikaner)

Scheme : I.W.M.P

Area- 2500 hac.

Cost- 0.15 lac per hac.

Total Cost 375 Lac.

Activity	Year wise													
	2010-11		2011-12		2012-13		2013-14		2014-15		2015-16		Total	
	%	Fin.	%	Fin.	%	Fin.	%	Fin.	%	Fin.	%	Fin.	%	Fin.
Admn.	1.00	3.75	2.00	7.50	2.00	7.50	2.00	7.50	2.00	7.50	1.00	3.75	10.00	37.50
Monitoring	0.10	0.38	0.20	0.75	0.20	0.75	0.20	0.75	0.20	0.75	0.10	0.38	1.00	3.75
Evaluation	0.00	0.00	0.30	1.13	0.00	0.00	0.35	1.31	0.00	0.00	0.35	1.31	1.00	3.75
EPA	4.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	15.00
I & CB	1.50	5.63	1.50	5.63	0.50	1.88	1.00	3.75	0.00	0.00	0.50	1.88	5.00	18.75
DPR	1.00	3.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	3.75
Watershed Works	0.00	0.00	7.00	26.25	15.00	56.25	20.00	75.00	10.00	37.50	8.00	30.00	60.00	225.00
Livelihoods, production system and micro enterprises	0.00	0.00	2.00	7.50	4.00	15.00	4.00	15.00	4.00	15.00	1.00	3.75	15.00	56.25
Consolidation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00	11.25	3.00	11.25
Total	7.60	28.50	13.00	48.75	21.70	81.38	27.55	103.31	16.20	60.75	13.95	52.31	100.00	375.00

This year wise breakup of watershed activities has been compiled with reference of letter no. F18 (1 - 49) IWMP/WDSC/2010-11

Dated of directorate of Watershed Dev. & Soil Conservation Department Jaipur.

2010-11

सरपंच
ग्राम पंचायत
कुजटी

W.D.T.
(Vet.)
IWMP-VII

अध्यक्ष
उप समिति
सहजरासर

J.E.N.
(I W M P)
P.S. Lunkaransar

सचिव
जल ग्रहण विकास सहजरासर
जल ग्रहण विभाग, जयपुर (IWMP)

W.D.T.
(Engg.)
IWMP-VII

J.E.N.
(I W M P)
P.S. Lunkaransar

संतोष
W.D.T.
(Social Science.)
IWMP-VII

परियोजना प्रबन्धक
जिला जलग्रहण विकास इकाई
जिला परिषद, बीकानेर।

Kalude
W. D. T
(Agri.)
IWMP-VII

Component Wise & Year wise Breakup of watershed Activities

Natural resources management 60 %

Conservation measures for arable & non-arable land

Name of watershed committee : Sahjarasar

Name of watershed:- Bikaner vii

Gram Panchyat : Kujati

Panchayat samiti :lunkaransar (Bikaner)

Scheme : I.W.M.P

Area- 2500 hac. Cost- 0.15 lac per hac. Total Cost 375 Lacs

	Conservation measures for arable land (Activity)	NO.	UNIT COST	TOTAL AMT. (lacs)	Year wise									
					2011-2012		2012-2013		2013-2014		2014-2015		2015-2016	
					Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1	Construction of Jalkund / Tanka 17000 Lit. Capacity	180	0.95	171.00	21	19.95	38	36.10	61	57.95	32	30.40	28	26.60
2	Construction of Public Jalkund / Tanka 50000 Lit. Capacity	5	1.90	9.50	0	0.00	1	1.90	2	3.80	2	3.80		0.00
3	Diggy	2	8.00	16.00		0.00	1	8.00	1	8.00		0.00		0.00
4	Repair of existing W.H.S.	1		5.83			1	4.35		1.48				
	Total			202.33		19.95		50.35		71.23		34.20		26.60
	Conservation and production measures for non-arable land(Activity)													
1	Pasture development (25 hac.)	1		22.67		6.30		5.90		3.77		3.30		3.40
	Total			22.67		6.30		5.90		3.77		3.30		3.40
	Grant total			225.00		26.25		56.25		75.00		37.50		30.00

सरपंच

ग्राम पंचायत

कुजटी

W.D.T.
(Vet.)
IWMP-VII

W.D.T.
(Agri.)
IWMP-VII

अध्यक्ष

उप समिति

सहजरासर

J.EN.
(I W M P)
P.S. Lunkaransar

जल संचयन समिति सहजरासर
जल प्रबंधन विकास योजना (IWMP)

W. D. T.

(Engg.)

IWMP-VII

A.EN.
(I W M P)
P.S. Lunkaransar

स-साय

W. D. T.

(Social Science.)

IWMP-VII

परियोजना प्रबन्धक
जिला जलग्रहण विकास इकाई
जिला परिषद, बीकानेर।

Component Wise & Year wise Breakup of watershed Activities
(B) Production System and micro enterprise 15 % measure for arable land

Name of watershed committee : Sahjarasar

Name of watershed:- Bikaner vii

Gram Panchyat : Kujati

Panchayat samiti :lunkaransar (Bikaner)

Scheme : I.W.M.P

Area- hac. Cost- 0.2 lac per hac. Total Cost 0 Lacs

Production measures for arable land (activity)	No.	Unit cost	Total cost	2010-11		2011-12		2012-13		2013-14		2014-15		2015-2016	
				Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
1 Kitchen Garden(Seed Packet)	300	0.004	1.20	0		150	0.60	150	0.60		0.00		0.00		0.00
2 Compost Pit	107	0.1	10.70	0		21	2.10	25	2.50	25	2.50	36	3.60		0.00
3 Soil testing	300	0.0001	0.03	0		0	0.00	100	0.01	200	0.02		0.00		0.00
4 Plantation along the road	10000	0.00035	3.50	0		400	0.14	2600	0.91	3000	1.05	4000	1.40		0.00
5 Crop Demonstration	1000	0.005	5.00	0		96	0.48	304	1.52	300	1.50	300	1.50		0.00
6 Fodder demonstration	0	0	0.00	0		0	0.00	0	0.00		0.00		0.00		0.00
			20.43	0		2910	3.32	417	5.54		5.07		6.50		0.00
Production measures for non arable land (activity)															
1 Veterinary Treatment camp	8	1.2	9.60	0		1	1.20	2	2.40	2	2.40	2	2.40	1	1.20
2 Breed Improvement	0	0	0.00	0		0	0.00		0.00	0	0.00		0.00		0.00
3 Bull distribution	2	0.5	1.00	0		0	0.00	1	0.50	1	0.50		0.00		0.00
4 Artificial Insemination	0	0	0.00	0		0	0.00		0.00	0	0.00		0.00		0.00
5 SHG's Training	4	0.48	1.92	0		1	0.48	1	0.48	1	0.48	1	0.48	0	0.00
6 Micro Enterprises	0	0	23.30	0			2.50		6.08	0	6.55		5.62		2.55
			35.82	0		4	4.18		9.46	1	9.93		8.50		3.75
			56.25	0			7.50		15.00		15.00		15.00		3.75

संयोजक

ग्राम पंचायत

कुजटी

W.D.T.

(Vet.)

अध्यक्ष

उप समिति (जलग्रहण)

सहजरासर

J.EN.

(I W M P)

W.D.T.

(Engg.)

IWMP-VII

A.En

(I W M P)

संयोजक

W.D.T.

(Social Science.)

IWMP-VII

परियोजना प्रबन्धक

जिला जलग्रहण विकास इकाई

W. D. T

(Agri.)

IWMP-VII

7 TECHNICAL DESIGNS AND ESTIMATES

Technical designs and estimates for proposed activities.

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

8 Enclosures

- a) Location –District, block, village, watershed location map
- b) Map of Shobhasar IWMP Project (Watershed Boundary demarcation in cadastral & Top Sheet)
- c) PRA Map (along with photos & paper drawing)
- d) Treatment map (Indicate proposed works)
- e) Cadastral Map on watershed boundary
- f) Information on Soils, Soil fertility, Land capability, Soil chemical problems like salinity, alkalinity
- g) Land Use Land Cover map
- h) Information on existing water harvesting structures & well inventory along with GPS coordinates.
- i) 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)

जलग्रहण की 6 वर्षीय पशुपालन योजना

ग्रामीण क्षेत्र में सामाजिक और आर्थिक विकास हेतु पशुधन विकास की अत्यधिक आवश्यकता है क्योंकि 80 प्रतिशत से अधिक ग्रामीण परिवार पशुधन पालते हैं, लघु तथा सीमान्त कृषकों की लगभग 35 प्रतिशत आय डेयरी व पशुपालन से ही है तथा राज्य के सकल घरेलू उत्पाद में पशुपालन का योगदान लगभग 9.16 प्रतिशत है। अतः जल संग्रहण परियोजना का एक मुख्य घटक पशुधन विकास से सम्बन्ध है जिसमें पशुधन विकास हेतु निम्नलिखित उद्देश्यों को समाजिक किया गया है।

- पशुपालकों हेतु जागरूकता शिविरों का आयोजन
- पशुओं के विभिन्न रोगों की रोकथाम तथा उपचार
- पशुओं का मोसमी बीमारियों से बचाव हेतु टीकाकरण
- पशुओं में कृत्रिम गर्भाधान की सुविधा मुहैया करवाना
- उत्तम देशी नस्ल के पशुधन का संरक्षण
- आवांछित नर पशुओं का बांध्याकरण
- पशुपालकों को नस्ल, प्रबन्ध, पौशण, स्वास्थ्य, परजीवी रोगों की जानकारी प्रदान करना
- पशुओं हेतु चारागाह प्रबन्ध, चारे दाने की जानकारी, जहरीले चारे व पदार्थों की जानकारी, लवणों की महत्ता समझाना

अतः उपरोक्त उद्देश्यों की पूर्ति हेतु जलग्रहण परियोजना के अन्तर्गत लूनकरनसर पंचायत समिति के गारबदेसर कालू व कुजटी ग्राम पंचायत के गारबदेसर कालू कुजटी व सहजरासर ग्राम का वर्ष 2010-11 से वर्ष 2015-16 तक के लिए चयन किया गया है। इन ग्रामों की कुल आबादी 5295 है, गांव के कुल पशुधन में भेड़ों की संख्या 356, बकरियों की संख्या 2758, गाय भैंसों की संख्या 251 तथा ऊंटों की संख्या 128 है। जलग्रहण विभाग राजस्थान सरकार की ओर से गांवों की कुल 10000 हैक्टेयर भूमि के लिए 15000 रुपये प्रति हैक्टेयर के हिसाब से 1500 लाख रुपये का प्रावधान किया गया है जिसमें से 42.40 लाख रुपये पशुपालन व पशुधन विकास हेतु प्रस्तावित है। इस धन का समुचित उपयोग करने हेतु एक छः वर्षीय पशुपालन योजना अनुमोदन हेतु तैयार कर गई है जिसका विवरण निम्नलिखित है।

जलग्रहण परियोजना में पशुधन की मुख्य समस्याएं

- जागरूकता का अभाव
 - पशुपोशण संबंधी
 - अभाव रोगों संबंधी
 - चारा उत्पादन, भण्डारण संबंधी
 - हाईजीन संबंधी
 - प्रजनन रोगों संबंधी
 - अवांछित पशुओं के समुचित उपयोग संबंधी
 - पशुओं की बीमा योजनाओं की जानकारी का अभाव
 - नाबार्ड योजना की जानकारी का अभाव
- उपरोक्त समस्याओं के निवारण हेतु विभिन्न कार्य सम्पादित किये जायेंगे।

तीन द्विवसीय पशुपालन प्रशिक्षण शिविर भोभासर

:: प्रशिक्षण कार्यक्रम ::

प्रथम दिवस (प्रातः 9.30 बजे से सांय 4.00 बजे तक)

- पंजीकरण
- उद्घाटन समारोह
- पशुपालन का राज्य एवं अर्थव्यवस्था मे योगदान
- जलग्रहण परियोजना की विस्तृत जानकारी
- वैज्ञानिक विधि द्वारा पशु प्रबन्धन
- पशुओं मे होने वाले विभिन्न रोग एवं उनकी रोकथाम
- पशुओं की प्रमुख नस्लोकी जानकारी

द्वितीय दिवस (प्रातः 9.30 बजे से सांय 4.00 बजे तक)

- संतुलन आहार एवं इसक महत्व
- पशु प्रजनन संबंधी जानकारी
- पशुओं की आवास व्यवस्था
- पशु उत्पादों से विपणन से संबंधित जानकारी
- चारागाह व्यवस्था व अकाल मे आहार व्यवस्था

तृतीय दिवस (प्रातः 9.30 बजे से सांय 4.00 बजे तक)

- पशुओं मे टीकाकरण व इसका महत्व
- ग्यामन पशुओं की देखभाल व आहार व्यवस्था
- नवजात पशुओं की देखभाल
- विचार गोश्टी-पशुपालकों की समस्याएं व उनका निवारण
- समापन समारोह एवं प्रमाण पत्र वितरण

1. (I) प्रशिक्षण शिविर :- तीन द्विवसीय पशुपालक प्रशिक्षण शिविर के खर्चे का ब्यौरा जो कि प्रतिवर्ष दो बार आयोजित किये जायेगें

क्र.सं.	प्रशिक्षण शिविर का विवरण	प्रस्तावित दर	कुल खर्चा
1-	25 पशुपालकों हेतु 3 दिन के लिए भत्ता	100/- रू0 प्रति पशुपालक प्रति दिन	7500-00
2-	15 व्याख्यानों हेतु विशेषज्ञ भत्ता	500/- रू0 प्रति व्याख्यान	7500-00
3-	नामांकन, सामग्री, प्रमाण-पत्र, प्राथमिक उपचार कीट, साहित्य इत्यादि(पशुपालकों हेतु)	500/- रू0 प्रति पशुपालक	12500-00
4-	फोटोग्राफी, बेनर, प्रचार-प्रसार तथा अन्य खर्च	5000/- रू0	5000-00
5-	विशेषज्ञ, अधिकारीगण, पशुपालक हेतु नाशता(उद्घाटन के के समय) तथा दिन दिवसों में प्रत्येक दिन हेतु	50/- रू0 प्रति व्यक्ति(वीआईपी) 25/- रू0 प्रति पशुपालक	7500-00
			40]0000-00

कुल योग $40,000 \times 2 = 80,0000$

1. प्रशिक्षण शिविर :- दो द्विवसीय पशुपालक प्रशिक्षण शिविर पशु चिकित्सक एवं पशु विज्ञान महाविद्यालय, बीकानेर मे आयोजित किया जायेगा। जिसमें निम्नलिखित गतिविधियां होगी एवं प्रत्येक लेक्चर 90 मिनट का होगा।

1. First Lectue

Animal Management : Case of New Bourn Calf, Pregnant Animal Breeding Bulls.

II. Second Lectue

Housing of Animals : Housding of New Bourn, Pregnant Milk and Dry Animals, Constructin ofHouse with locally available Materials

III Third lecture

Breeding :- Selection of good Animlals, conservation of Animal breeds, for different purpose(Milk, Meat, Draught) Breeding system.

IV Fourth Lecture

Nutrition : Feeding of NewBourn, presgent, Milkand Dry Animals, Feeding of Breeding Bulls, Balanced Diet and Computation of Ration, Preservation ofFeed and Fodder, Improvement in Nutritional Quantity ofFeed & fodder, Hay/ Silage Making.

V Fifth Lecture

Knowledge About Health : Infectious Diseases

Knowledge About Health :Infections Disease

Noninfectious Disease(a) Deficiency , Milk Fever

(b) Metabolic, Ketosis

Vaccination Against infectious Disease.

VI Sixeth Lecture

Nabard :

VII Seven Lecture

LIC :

VII. Discussions/ problem

for 25 farmers two days training camp

600/- Rupees per day per person

25 persons X 2 days 50 mandays X 600 = 30000/-

This will include :-

Two teas every da (11.45 am & 4.00 pm)

Lunch(1.15: ti 2.30 pm)

Registration kit (Bag, pan, pad,)

Renunpraton ; मानदय) to Experts & training

Co- ordinator,

Institutional Charges.

2

भ्रमण :- पशुपालकों को निम्न स्थानों का भ्रमण करवाया जावेगा

- 1- बीकानेर केन्द्रीय भेड़ एवं उन अनुसंधान केन्द्र(उश्ण परिसर क्षेत्र) सीएसडब्ल्यूआरआईएआरसी, उरमूल डेयरी, राष्ट्र अनुसंधान केन्द्र, अ व अनुसंधान केन्द्र, पशु चिकित्सा एवं पशु विज्ञान महाविद्यालय एवं डेयरी
- 2- उदयपुर डेयरी महाविद्यालय एवं पशु चिकित्सालय उदयपुर
- 3- अहमदाबाद भारतीय ग्रामीण प्रबन्ध संस्थान(आईआरएमए)
- 4- आन्नद राष्ट्रीय दुग्ध विकास बोर्ड(एनडीडीबी) उमल डेयरी पशुपालकों को 250 रुपये प्रतिदिन दैनिक भत्ता 250 X 25 X 10 दिन = 62500 रुपये भ्रमण का कार्यक्रम बस द्वारा होगा इसमें लगभग आने जाने का 2000 किलोमीटर का रन होगा इसें 40 रुपये प्रति किलोमीटर की दर से 80,000 रुपये टेक्स 10,000 रुपये दैनिक भत्ता पशुपालकों के लिए 62500 रुपये अन्य खर्च 7500 रुपये कुल खर्च 1,60,000 रुपये देय होगा।
- 3- पशुपालकों को कृमिनाशक दवा पिलाना :-वर्षा में दो बार (कृमिनाशक दवा) कुल पशु 4500 कुल खुराक 4500 X 2 = 9000 कुल खर्चा 9000 X 3.00 = 27000 रुपये
- 4- पशु में टीकाकरण शिविर :- भेड़ बकरियां में ई. टी.वी. व पोक्स तथा गाय भेसों में एफ. एम. डी. एच.एस. तथा बी.क्यू. का टीकाकरण पशु पालन विभाग के सहयोग से निर्धारित दरों से किया जावेगा इस हेतु अनुमानित खर्चा 10,000 रुपये
- 5- पशुओं के उपचार हेतु स्वास्थ्य एवं बान्ध निवारण शिविरों का आयोजन :- प्रत्येक माह में एक स्वास्थ्य शिविर (कुल 12 शिविर प्रति माह 1)
- 1- एक स्वास्थ्य शिविर की रूपरेखा
शिविर हेतु कर्मचारियों की संख्या 5 (डब्ल्यू डी टी के अलावा)
- 2- शिविर की अवधि 1 दिन

3- शिविर का व्यय

- 1- दवाई का क्रय मूल्य 15000 रूपये
 - 2- विशेष भत्ता 2500 रूपये
 - 3- पशुधन सहायक (2) एलएसए/वीए(भत्ता 100 X 2 = 200 रूपये
 - 4- चतुर्थ श्रेणी कर्मचारी (2) भत्ता 75 X 2 = 150 रूपये
 - 5- प्रचार प्रसार सामग्री एवं अन्य खर्चा 1400 रूपये
 - 6- जीप किराया 1500 रूपये
 - 7- दरी टेन्ट खर्चा 1000 रूपये
 8. चाय बिसकिट ना ता 500 रूपये
 - कुल खर्चा 1,20,000 रूपये
- दो शिविर हेतु कुल खर्चा 2,40,000

जलग्रहण परियोजना मे पशुधन विकास हेतु वर्षभर का कुल खर्चा

1-	प्रशिक्षण शिविर	110000
2-	भ्रमण	160000
3	क्रमिनाशक दवा	27000
4-	टीकाकरण	10000
5-	12 शिविर	240000
6	उपकरण ट्रेविस	200000
7-	पशुओं के पानी पीने हेतु दो खेती निर्माण	30000
	कुल रूपये	597000

सरंपच
ग्राम पचायत

अध्यक्ष
उप समिति (जलग्रहण)

W.D.T.
(Vet.)
IWMP- vii

MODEL ESTIMATE

Agro forestry Plantation

S. N.	ITEM	NO.	QTY	RATE	AMOUNT
1.	Digging of pits in hard soil of size 0.45 x 0.45 x 0.45m	150	150	5.00	750.00
2.	Planting of Plant including local transportation of plant up to pit	150	150	3.00	450.00
3.	Weeding & Hoeing up to 15 cum depth in thawala of 0.45 cum radius	150 X 2	300	1.30	390.00
4.	Watering to plants (15 lit. per plant) on availability of water in planting area or providing water	150 x 6	900	1.30	1170.00
5.	Cost of Plant (As per Forest Department)	150	150	3.00	450.00
6.	Transportation of water by camal cart average lead upto 5 kms.	150	150	2.00	300.00
7.	Preparation of Basin	150	150	1.30	195.00
	TOTAL				3705.00

प्रति पौधा भुगतान रुपए 24.70
35% Rate increase as forest B.S.R. 8.65

33.35 Say Rs. 33.00 Per plant

सरंपच
ग्राम पचायत

अध्यक्ष
उप समिति (जलग्रहण)

W.D.T.
(Agri.)
IWMP-vii

Model Estimate
ARID HORTICULTURE

S.N.	Item	Qty	RATE	AMOUNT
1.	Digging of pits in hard soil (0.6 x 0.6 x 0.6 mtr.)	10.216 Cum	56	12.09
2.	Planting of plants including filling of earth & remming of soil	1	5	5.00
3.	Hoeing work for breaking of capillary action after watering	2	1.30	2.60
4.	Treatment of pit with insecticide including cost of insecticide	1	5.00	5.00
5.	Watering of plant including transportation 25 Lit.	12	1.50	18.00
6.	Cost of plant (av.cost of horticulture plants) including transportation	1	15	15.00
7.	Transportation of Plant with Avg. lead 40 km,	1	2	2.00
8.	Watch and ward of plant	1	3	3.00
9.	Preparation of Basin	1	1.30	1.30
	TOTAL			63.99

SAY RS. 64.00

35% Rate increase as forest B.S.R. 22.40

86.40

Say Rs. 86.00 per plant

सरंपच
ग्राम पचायत

अध्यक्ष
उप समिति (जलग्रहण)

W.D.T.
(Agri.)
IWMP-Vii

कार्बनिक खेती (नेडेप कम्पोस्ट पिट)

क्र. सं.	विवरण	मात्रा	इकाई	दर	राशि
1-	गांव में 1.50 मीटर गहराई तक सख्त मिट्टी की खुदाई, तल को कूदना, बगल बगल को सही करना, नींव की खाली को वापस मिट्टी से भरना एवं बची हुई मिट्टी को 50 मीटर की दूरी तक हटाने का कार्य	1.780	प्रति घन मीटर	75/-	133.5
2-	पिट के पैदे एवं नींव में 1:4:8 (सीमेन्ट, बजरी, गिट्टी) का कंक्रीट डालना, जिसमें 40 मिमी आकार के पत्थर की गिट्टी हो तथा तराई एवं कुटाई कार्य	1.780	प्रति घन मीटर	1970/-	3506.6
3-	अधिरचना में ईंट की चुनाई का कार्य 75 वर्ग नाप से 1:6 (सीमेन्ट:बजरी) में	2.09	प्रति घन मीटर	2164/-	4522.76
4-	सीमेन्ट कंक्रीट 1:2:4 (सीमेन्ट:बजरी:मिट्टी) की दीवारों की कोपिंग, किनारों को गोलरना इत्यादि का कार्य 50 मिमी मोटाई में, 20 मिमी गिट्टी का नाप सहित	2.60	प्रति घन मीटर	187.65	487.89
5-	सामग्री का परिवहन (अनुमानित)				1350/-
	योग				10000.75

प्रति नेडेप कम्पोस्ट पिट रुपये **10,000.00**

सरंपच
ग्राम पचायत

अध्यक्ष
उप समिति (जलग्रहण)

W.D.T.
(Engg.)
IWMP-Vii

बाजरा प्रति इकाई लागत (0.25)

आदान	मात्रा	दर (अनुमानित)	अनुमानित राशि
chl	0.94	40	30
उर्वरक	0	0	0
डी.ए.पी.	16.25	690 per Bag	169.75
यूरिया	10	349 per Bag.	55.50
कल्चर पैकेट	25	10 per beg	20.63
पो.स. रसायन			156.25
महायोग			432.43

ग्वार प्रति प्रदर्शन इकाई लागत (0.25 है)

आदान	मात्रा	दर (अनुमानित)	अनुमानित राशि
chl	5	23.75	95
उर्वरक	0	0	0
डी.ए.पी.	225	12.5	234.90
कल्चर पैकेट	2.5	12.5	20
पो.स. रसायन			187.5
योग			537.40

ekB ifr in'ku bdkbz ykxr 10-25 g%

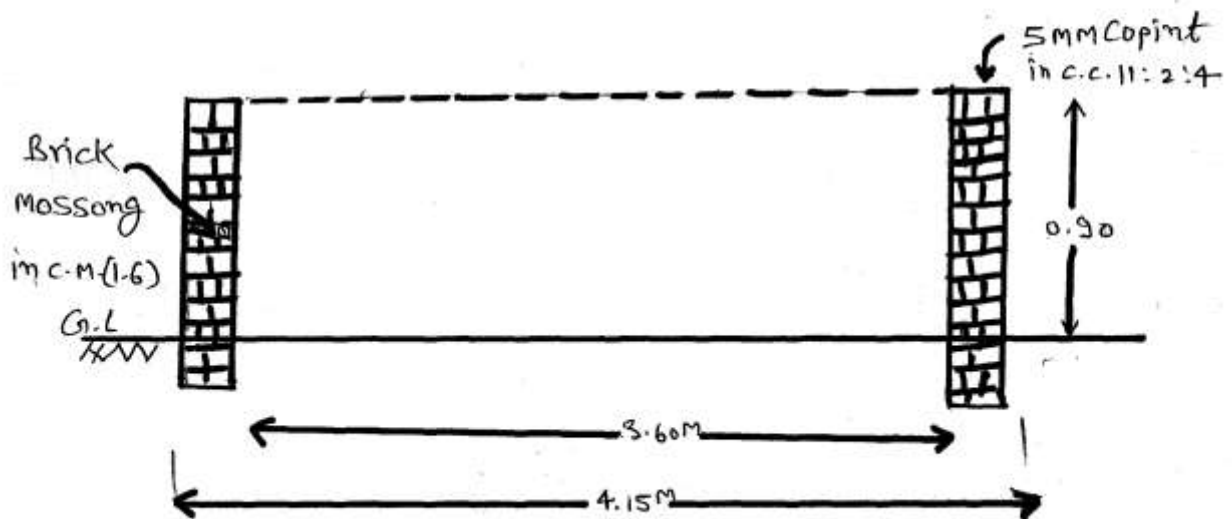
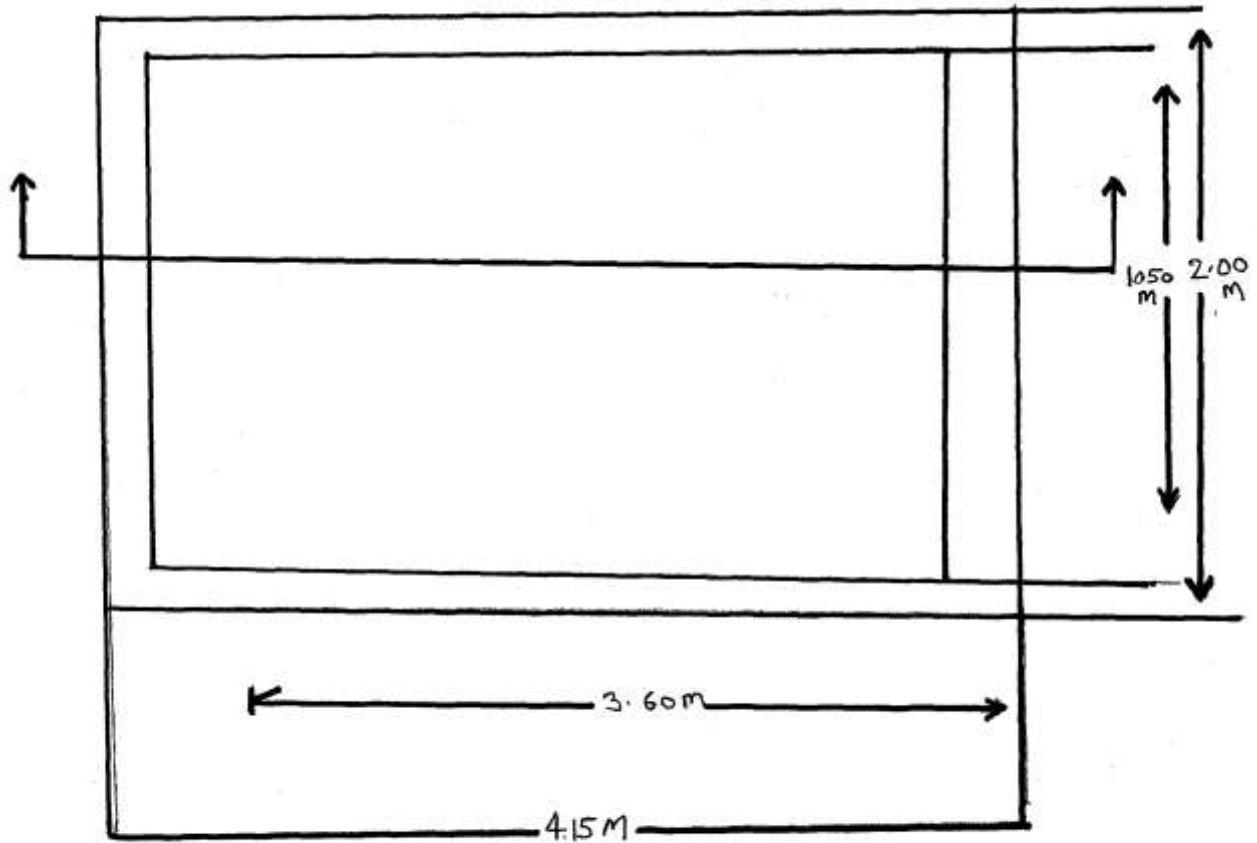
vknku	ek=k	nj 1/2vupkfur1/2	अनुमानित राशि
बीज	3.75 Kg.	37.5	112.50
उर्वरक	-	-	-
डी.ए.पी.	22.5 Kg	12.5	225
कल्चर पैकेट	2.5	20.5	20.62
पो.स. रसायन			162.50
योग			520.62

सरंपच
ग्राम पचायत

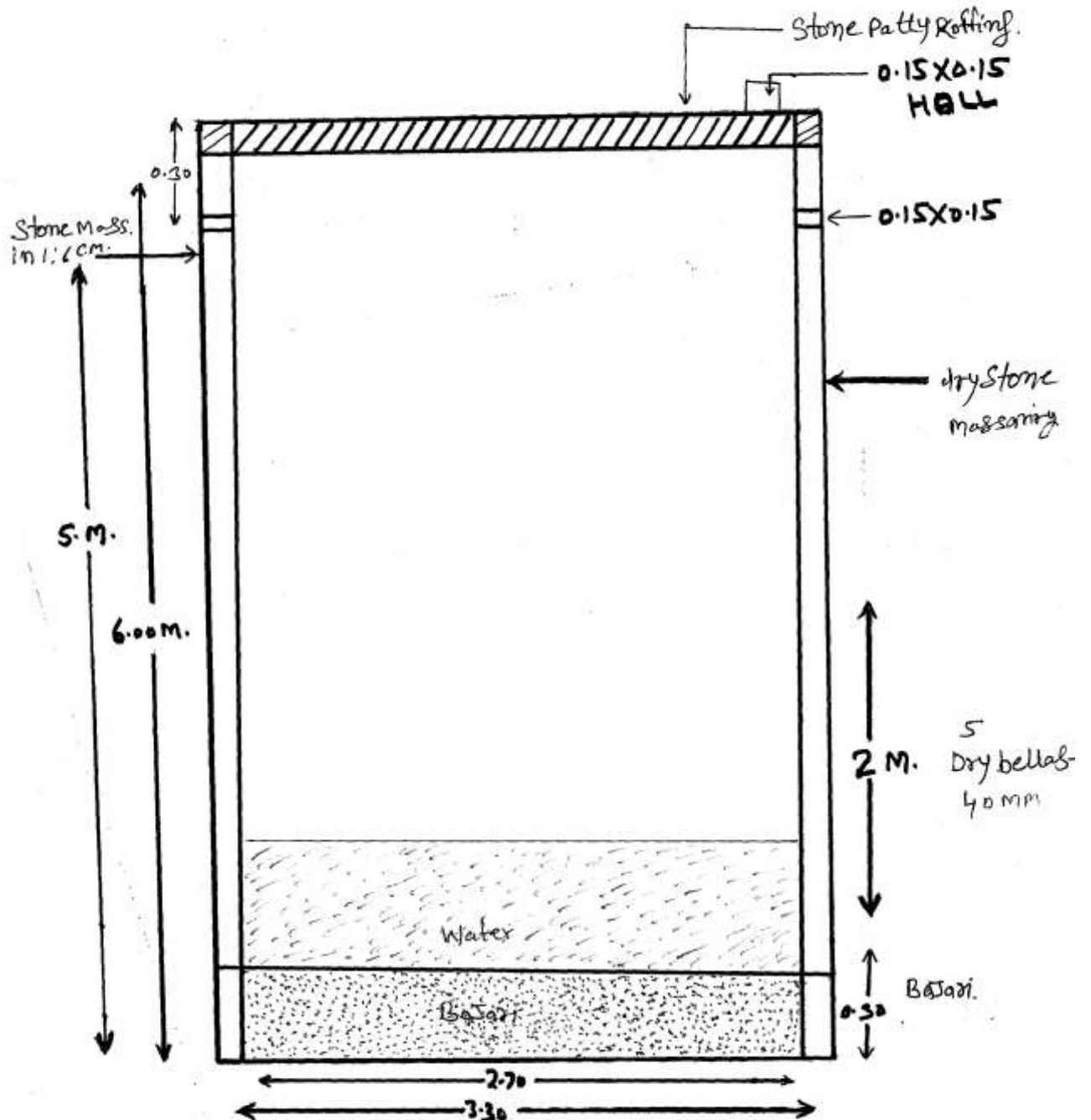
अध्यक्ष
उप समिति (जलग्रहण)

W.D.T.
(Agri.)
IWMP-VII

नेडेप कम्पोस्ट पिट प्लान एवं अनुप्रस्त काट
A'A' पर अनुप्रस्त काट



Soilage-well plan



10	क्वैरी रविस जिसमे 40 प्रतिशत पत्थर के	पायतान	0.79	13.00	13.00	0.10	13.27		344.00	1094.48	4242.26
	स्पल हो या कक्रंर या घांडला को	कुण्ड	0.79	3.45	3.45	0.10	0.93		88.75		
	बिछाना तथा आपूर्ति करना, पानी										
	छिड़कना तथा दुरमुट से कूटना।						12.33	घ.मी.			
11	सीमेंट काक्रीट 1 सीमेंट, 3 बजरी तथा		3.14	13.00	13.00	0.075	9.95		2112.00	2358.99	19534.13
	6 गिट्टी पत्थर की 20 मि.मी. नामीय						0.00		255.05		
	माप की नींव मे डालना ।		3.14	3.45	3.45	0.075	0.70				
							9.25	घ.मी.			
12	ढक्कन						1	संख्या		0.00	800.00
13	लीड चार्ज							व.मी.			
10		बजरी	85.00				12.00	घ.मी.	3.00		2340.00
105		ग्रिट	85.00				8.30	घ.मी.	4.00		2158.00
		योग ईट	140.00				7.60	हजार	300.00		2280.00
	आकस्मिक व्यय।										
12		महायोग								22848.38	98516.25
										151.62	1483.75
								say		23000	100000

Note :- उक्त दरें जिला परिषद् (ग्रामीण विकास प्रकोष्ठ) बीकानेर की (बीएसआर 01.04.11) से ली गई हैं।

सरपंच
ग्राम पचायत

J.EN.
(I W M P)
P.S. Lunkaransar

अध्यक्ष
उप समिति

A.E
(I W M P)
P.S. Lunkaransar

W.D.T.
Engg.
IWMP-VII

परियोजना प्रबन्धक
जिला जलग्रहण विकास इकाई
जिला परिषद्, बीकानेर।

सामग्री की आवश्यकता

कार्य का नाम: निजि जलकुण्ड निर्माण कार्य
जलग्रहण क्षेत्र : बीकानेर viii

योजना : आई.डब्ल्यू.एम.पी.

क्र स	आ.संख्या	आइटम	मात्रा	ईकाई	सीमेंट	बजरी	20मिमी	ईट	पट्टिया	ग्रेवल	सिरदल	ईट गिट्टी
1	2	सी.सी.1:4:8	1.40	घ.मी.	4.48	0.63						1.26
2	3	ईटों की चिनाइ	17.41	घ.मी.	18.97	4.04		8232.57				
3	4	सी.सी.1:2:4	7.07	किलो	2.20	0.16	0.32					
4	5	सिरदल	3.24	व.मी.	0.50	0.10					3.24	
5	6	पट्टियाँ	9.14	व.मी.	0.63	0.82			10.055			
6	7	ईट के भवरिया	9.14	व.मी.	3.29	0.23						0.46
7	8	प्लास्टर 1:4	69.81	व.मी.	11.84	1.68						
8	9	प्लास्टर 1:6	33.28	व.मी.	3.87	0.83						
9	10	क्वैरी रविस	12.33	घ.मी.						14.799		
10	11	सी सी 1:3:6	9.25	घ.मी.	37.46	3.98	7.95					
11	12	ढक्कन	1									
	कुल				83.24	12.46	8.27	8233	10.06	14.80	3.24	1.72
					81	12	8.3	7600	10	14.8	1.98	1.70
					बैग	घ.मी.	घ.मी.	संख्या	व.मी.	घ.मी.	व.मी.	घ.मी.

कार्य का तकमीना

कार्य का नाम: सार्वजनिक जलकुण्ड निर्माण कार्य
जलग्रहण क्षेत्र : बीकानेर vii

लागत 1.90 लाख
योजना : आई.डब्ल्यू.एम.पी.

कार्य का विस्तृत विवरण

कस	कार्य का विवरण		संख्या	लम्बाई	चौड़ाई	गहराई	मात्रा	ईकाई	दर	श्रम राशि	कुल राशि
1	नीव,खाई,परनाला में 1.5मी गहराई	कुण्ड	0.79	4.30	4.30	4.55	66.04		91.00	6675.21	6675.21
	तक मिट्टी की खुदाई करना,तल को	पायतान दीवार	3.14	17.25	0.45	0.30	7.31		91.00		
	कूटना,पानी डालना,बगल को सवारना										
	तथा बची मिट्टी को 50मी दूरी तक										
	निस्तारण करना।						73.35	घ.मी.			
	सख्त मिट्टी में										
2	सीमेंट कंक्रीट 1 सीमेंट 4 बजरी तथा	कुण्ड	0.79	4.30	4.30	0.15	2.18		1662.00	702.26	3618.50
	8 गिट्टी ईट की 40 मिमी नाभीय								322.55		
	माप की नीव में डालना,कुटाई व तराई										
	करना।						2.18	घ.मी.			
3	नीव तथा कुर्सी में प्रथम श्रेणी ईंटों की	कुण्ड	3.14	3.95	0.35	5.00	21.71		2164.00	10676.72	63126.81
	चिनाई सीमेंट-बजरी 1:6 मसाले में,	पायतान दीवार	3.14	17.23	0.23	0.60	7.47		366.00		
							29.17	घ.मी.			
4	50मि.मी. मोटाई में सीमेंट कंक्रीट 1:2:4	कुण्ड	0.79	3.60	3.60		10.17		215.00	854.58	2187.32
	जिसमें 1सीमेंट 2बजरी 4 पत्थर की 12								84.00		
	मि.मी. नाभीय गिट्टी के साथ मिलाकर										
	डालना, कूटना, तराई आदि समेत।						10.17	व.मी.			
5	पत्थर के सिरदल (लिटल 7.5 से.मी	कुण्ड	4.00	3.30	0.30		3.96		544.00	641.52	2154.24
	मोटाई) की आपूर्ति कर, चिनाई मे								162.00		
	उपयोग की गई मसाले मे उसे लगाना।						3.96	व.मी.			
6	अव्वल दर्जे की पत्थर की पट्टियों की	कुण्ड	0.79	4.30	4.30		14.51		858.00	3685.38	12279.82
	छत डालना, ऊपर तथा नीचे से जोड़ों मे	ढक्कन		0.45	0.45		0.20		257.50		
	पत्थर की चीप के साथ 1:4 अनुपात में										
	सीमेंट मसाले से भरना। (2 मी तक)						14.31	व.मी.			
7	पक्के ईट के टुकडे या पत्थर के छोटे								169.00	515.24	2418.75
	कातले मे सीमेंट मसाला 1:4 मे भंवरिया						14.31	व.मी.	36.00		
	डालना, पट्टी छत के ऊपर तथा आपूर्ति								9.70		
	करना।										
8	सीमेंट प्लास्टर दीवार पर 1:4 अनुपात मे	कुण्ड पैदा	0.79	3.60	3.60		10.17		103.00	3795.96	9178.02
	सीमेंट-बजरी मिलाकर कर जोड़ों को	कुण्ड दीवार	3.14	3.60	5.00		56.52		42.60		
	कुरेदने तथा तराई सहित 20 मि.मी.	कुण्ड बाहर	3.14	4.30	0.60		8.10				
		कुण्ड छत					14.31				
							89.11	व.मी.			
9	सीमेंट प्लास्टर दीवार पर 1:6 अनुपात मे	पा. दीवार	3.14	17.23	0.80		43.28		88.00	10889.93	22495.63
	सीमेंट-बजरी मिलाकर जोड़ों को कुरेदने	पायतान	0.79	17.00	17.00		226.87		42.60		
	तथा तराई सहित 20 मि.मी.।						270.15				
	घटाइये	कुण्ड					14.51				
							255.63	व.मी.			

10	क्वैरी रविस जिसमे 40 प्रतिशत पत्थर के	पायतान	0.79	17.00	17.00	0.10	22.69		344.00	1884.61	7304.85
	स्पाल हो या कक्रंर या घांडला को	कुण्ड	0.79	4.30	4.30	0.10	1.45		88.75		
	बिछाना तथा आपूर्ति करना, पानी										
	छिड़कना तथा दुरमुट से कूटना।						21.24	घ.मी.			
11	प्रथम श्रेणी की सूखी पट्ट ईट कर्णकार	पायतान	0.79	17.00	17.00		226.87		205	14652.17	43531.82
	में फर्श 12 मी.मी. मोटे मड मसाले के	कुण्ड	0.79	4.30	4.30		14.51		69.00		
	ऊपर लगाना तथा जोड़ों में भरकरऊपर										
	से सपाटटीप सीमेंटमसाले 1:3 में भरना।						212.35	व.मी.			
12	ढक्कन						1	संख्या		0.00	800.00
13	लीड चार्ज							व.मी.			
10		बजरी	85.00				22.00	घ.मी.	3.00		4290.00
105		गिट	85.00				0.50	घ.मी.	4.00		130.00
		योग ईट	140				22.30	हजार	300.00		6690.00
	आकस्मिक व्यय।										
12		महायोग								54973.56	186880.98
										1026.44	3119.02
								say		56000	190000

Note :- उक्त दरें जिला परिषद् (ग्रामीण विकास प्रकोष्ठ) बीकानेर की (बीएसआर 01.04.11) से ली गई हैं।

सरपंच
ग्राम पचायत

अध्यक्ष
उप समिति
()

W.D.T.
Engg.
IWMP-VII

J.EN.
(I W M P)
P.S. Lunkaransar

A.E
(I W M P)
P.S. Lunkaransar

परियोजना प्रबन्धक
जिला जलग्रहण विकास इकाई
जिला परिषद, बीकानेर।

सामग्री की आवश्यकता

कार्य का नाम: सार्वजनिक जलकुण्ड निर्माण कार्य
जलग्रहण क्षेत्र : बीकानेर vii

योजना : आई.डब्ल्यू.एम.पी.

क्र स	आ.संख्या	आइटम	मात्रा	ईकाई	सीमेंट	बजरी	20मिमी	ईट	पट्टिया	ग्रेवल	सिरदल	ईट गिट्टी
1	2	सी.सी.1:4:8	2.18	घ.मी.	6.97	0.98						1.96
2	3	ईटों की चिनाइ	29.17	घ.मी.	31.80	6.77		13798.1				
3	4	सी.सी.1:2:4	10.17	किलो	3.17	0.22	0.46					
4	5	सिरदल	3.96	व.मी.	0.50	0.10					3.96	
5	6	पट्टियाँ	14.31	व.मी.	0.98	1.29			15.743			
6	7	ईट के भवरिया	14.31	व.मी.	5.15	0.36						0.72
7	8	प्लास्टर 1:4	89.11	व.मी.	15.11	2.14						
8	9	प्लास्टर 1:6	255.63	व.मी.	29.70	6.39						
9	10	क्वैरी रविस	21.24	घ.मी.						25.482		
10	11	ईट खंरजा	212.35	व.मी.	5.56	3.78		8494.01				
11	12	ढक्कन	1									
		कुल			98.95	22.03	0.46	22292	15.74	25.48	3.96	2.68
					99	22	0.5	22300	15.74	25.48	3.96	2.70
					बैग	घ.मी.	घ.मी.	संख्या	व.मी.	घ.मी.	व.मी.	घ.मी.

कार्य का तकमीना

कार्य का नाम: सार्वजनिक डिग्गी निर्माण कार्य
जलग्रहण क्षेत्र : बीकानेर vii

लागत 8.00 लाख

योजना : आई.डब्ल्यू.एम.पी.

आधार की चौड़ाई :- 15 मी.
आधार की लम्बाई :- 20 मी.
आधार पर क्षेत्रफल :- 300 व.मी.
कुल गहराई :- 3 मी.

उपर की चौड़ाई :- 27 मी.
उपर की लम्बाई :- 32 मी.
उपर का क्षेत्रफल :- 864 व.मी.
मध्यम चौड़ाई :- 21 मी.
मध्यम लम्बाई :- 26 मी.
मध्यम पर क्षेत्रफल :- 546 व.मी.

डिग्गी खुदाई आयतन :- 1674 घ.मी.

कार्य का विस्तृत विवरण

क्र.सं.	कार्य का विवरण		संख्या	लम्बाई	चौड़ाई	गहराई	मात्रा	ईकाई	दर	श्रम राशि	कुल राशि
1(1)	नींव,खाई,परनाला में 1.5मी गहराई	डिग्गी					1674.00		124.75	215899.21	215899.21
	तक मिट्टी की खुदाई करना,तल को	तल दीवार	2.00	20.00	0.45	0.45	8.10		124.75		
	कूटना,पानी डालना,बगल को सवारना	तल दीवार	2.00	15.00	0.45	0.45	6.08				
	तथा बची मिट्टी को 50मी दूरी तक	उपर की दीवार	2.00	32.00	0.60	0.60	23.04				
	निस्तारण करना।	उपर की दीवार	2.00	27.00	0.60	0.60	19.44				
	सख्त मिट्टी में एक लीड सहित						1730.66	घ.मी.			
1(2)	एक लिफ्ट अतिरिक्त कुल आयतन का 40 प्रतिशत						692.26		11.00	7614.88	7614.88
							692.26	घ.मी.	11.00		
2	सीमेंट कंक्रीट 1 सीमेंट 4 बजरी तथा	कुण्ड	1.00	15.00	20.00	0.15	45.00		1970.00	15530.78	94855.50
	8 गिट्टी पत्थर की 40 मिमी नाभीय	तल दीवार	2.00	20.00	0.45	0.10	1.80		322.55		
	माप की नींव में डालना,कुटाई व तराई	तल दीवार	2.00	15.00	0.45	0.10	1.35				
	करना।						48.15	घ.मी.			
3	नींव तथा कुर्सी में प्रथम श्रेणी ईंटों की	तल दीवार	2.00	20.00	0.35	0.35	4.90		2164.00	23868.69	141125.26
	चिनाई सीमेंट-बजरी 1:6 मसाले में,	तल दीवार	2.00	15.00	0.35	0.35	3.68		366.00		
		उपर की दीवार	2.00	32.00	0.45	0.60	17.28				
		उपर की दीवार	2.00	27.00	0.45	0.60	14.58				
		उपर की दीवार	2.00	32.00	0.35	0.60	13.44				
		उपर की दीवार	2.00	27.00	0.35	0.60	11.34				
							65.22	घ.मी.			
4	प्रथम श्रेणी की सूखी पट्ट ईंट कर्णकार	डिग्गी तला	1	20.00	15.00		300		205.00	64156.2	190609
	में फर्श 12 मी.मी. मोटे मड मसाले के	ढलान	2.00	26.00	6.70		348.4		69.00		
	ऊपर लगाना तथा जोड़ों में भरकर		2.00	21.00	6.70		281.4				
	ऊपर से सपाट टीप सीमेंट मसाले 1:3										
	में भरना।						929.80	व.मी.			
5	सीमेंट प्लास्टर दीवार पर 1:6 अनुपात में						929.80		88.00	47652.36	98436.80
	सीमेंट-बजरी मिलाकर जोड़ों को कुरेदने	उपर की दीवार	2.00	32.00	1.60		102.40		42.60		
	तथा तराई सहित 20 मि.मी.।	उपर की दीवार	2.00	27.00	1.60		86.40				
							1118.60	व.मी.			
6	लीड चार्ज	बजरी	85				81.31	घ.मी.	3.00		15856.00
		गिट्ट	85				43.34	घ.मी.	4.00		11267.10

		ईट	140				68.04	हजार	300.00		20411.61
		योग								374722.13	796075.36
7	आकस्मिक व्यय।									277.87	3924.64
								say		375000	800000

Note :- उक्त दरें जिला परिषद (ग्रामीण विकास प्रकोष्ठ) बीकानेर की (बीएसआर 01.04.11) से ली गई हैं।

सरपंच
ग्राम पंचायत

अध्यक्ष
उप समिति (जलग्रहण)

W.D.T.
Engg.
IWMP-VII

J.EN.
(I W M P)
P.S. Lunkaransar

A.EN.
(I W M P)
P.S. Lunkaransar

परियोजना प्रबन्धक
जिला जलग्रहण विकास इकाई
जिला परिषद, बीकानेर।

सामग्री की आवश्यकता

कार्य का नाम: सार्वजनिक डिग्गी निर्माण कार्य

जलग्रहण क्षेत्र : बीकानेर vii

योजना : आई.डब्ल्यू.एम.पी.

क स	आ.संख्या	आइटम	मात्रा	ईकाई	सीमेंट	बजरी	ईट	पत्थर गिद्दी
1	2	सी.सी.1:4:8	48.15	घ.मी.	154.08	21.67		43.34
2	3	ईटों की चिनाइ	65.22	घ.मी.	71.08	15.13	30846.7	
3	4	ईट खंरजा	929.80	व.मी.	24.36	16.55	37192	
4	5	प्लास्टर 1:6	1118.60	व.मी.	129.98	27.97		
	कुल				379.51	81.31	68039	43.34
				बैग	घ.मी.	संख्या	घ.मी.	

कार्य का तकमीना

कार्य का नाम: सार्वजनिक डिग्गी निर्माण कार्य
जलग्रहण क्षेत्र : बीकानेर VII

लागत 10.00 लाख

योजना : आई.डब्ल्यू.एम.पी.

आधार की चौड़ाई :- 18 मी.
आधार की लम्बाई :- 23 मी.
आधार पर क्षेत्रफल :- 414 व.मी.
कुल गहराई :- 3 मी.

उपर की चौड़ाई :- 30 मी.
उपर की लम्बाई :- 35 मी.
उपर का क्षेत्रफल :- 1050 व.मी.
मध्यम चौड़ाई :- 24 मी.
मध्यम लम्बाई :- 29 मी.
मध्यम पर क्षेत्रफल :- 696 व.मी.

डिग्गी खुदाई आयतन :- 2124 घ.मी.

कार्य का विस्तृत विवरण

कस	कार्य का विवरण		संख्या	लम्बाई	चौड़ाई	गहराई	मात्रा	ईकाई	दर	श्रम राशि	कुल राशि
1(1)	नीव,खाई,परनाला में 1.5मी गहराई	डिग्गी					2124.00		124.75	272878.77	272878.77
	तक मिट्टी की खुदाई करना,तल को	तल दीवार	2.00	23.00	0.45	0.45	9.32		124.75		
	कूटना,पानी डालना,बगल को सवारना	तल दीवार	2.00	18.00	0.45	0.45	7.29				
	तथा बची मिट्टी को 50मी दूरी तक	उपर की दीवार	2.00	35.00	0.60	0.60	25.20				
	निस्तारण करना।	उपर की दीवार	2.00	30.00	0.60	0.60	21.60				
	सख्त मिट्टी में एक लीड सहित						2187.41	घ.मी.			
1(2)	एक लिफ्ट अतिरिक्त कुल आयतन का 40 प्रतिशत						874.96		11.00	9624.58	9624.58
							874.96	घ.मी.	11.00		
2	सीमेंट कंक्रीट 1 सीमेंट 4 बजरी तथा	कुण्ड	1.00	18.00	23.00	0.15	62.10		1970.00	21220.56	129606.30
	8 गिट्टी पत्थर की 40 मिमी नाभीय	तल दीवार	2.00	23.00	0.45	0.10	2.07		322.55		
	माप की नीव में डालना,कुटाई व तराई	तल दीवार	2.00	18.00	0.45	0.10	1.62				
	करना।						65.79	घ.मी.			
3	नीव तथा कुर्सी में प्रथम श्रेणी ईंटों की	तल दीवार	2.00	23.00	0.35	0.35	5.64		2164.00	26514.87	156770.98
	चिनाई सीमेंट-बजरी 1:6 मसाले में,	तल दीवार	2.00	18.00	0.35	0.35	4.41		366.00		
		उपर की दीवार	2.00	35.00	0.45	0.60	18.90				
		उपर की दीवार	2.00	30.00	0.45	0.60	16.20				
		उपर की दीवार	2.00	35.00	0.35	0.60	14.70				
		उपर की दीवार	2.00	30.00	0.35	0.60	12.60				
							72.45	घ.मी.			
4	प्रथम श्रेणी की सूखी पट्ट ईंट कर्णकार	डिग्गी तला	1	23.00	18.00		414		205.00	77569.8	230461
	में फर्श 12 मी.मी. मोटे मड मसाले के	ढलान	2.00	29.00	6.70		388.6		69.00		
	ऊपर लगाना तथा जोड़ों में भरकर		2.00	24.00	6.70		321.6				
	ऊपर से सपाट टीप सीमेंट मसाले 1:3										
	में भरना।						1124.20	व.मी.			
5	सीमेंट प्लास्टर दीवार पर 1:6 अनुपात में						1124.20		88.00	56751.72	117233.60
	सीमेंट-बजरी मिलाकर जोड़ों को कुरेदने	उपर की दीवार	2.00	35.00	1.60		112.00		42.60		
	तथा तराई सहित 20 मि.मी.।	उपर की दीवार	2.00	30.00	1.60		96.00				
							1332.20	व.मी.			
6	लीड चार्ज	बजरी	85				99.73	घ.मी.	3.00		19447.06
		गिट्ट	85				59.21	घ.मी.	4.00		15394.86

		ईट	140				79.23	हजार	300.00		23770.35
		योग								464560.31	975187.50
7	आकस्मिक व्यय।									5439.69	24812.50
								say		470000	1000000

Note :- उक्त दरें जिला परिषद (ग्रामीण विकास प्रकोष्ठ) बीकानेर की (बीएसआर 01.04.11) से ली गई हैं।

सरपंच
ग्राम पंचायत

अध्यक्ष
उप समिति (जलग्रहण)

W.D.T.
Engg.
IWMP-VII

J.EN.
(I W M P)
P.S. Lunkaransar

A.EN.
(I W M P)
P.S. Lunkaransar

परियोजना प्रबन्धक
जिला जलग्रहण विकास इकाई
जिला परिषद, बीकानेर।

विस्तृत तकमीना

1. कार्य का नाम:—पौधारोपण कार्य गोचर भूमि
2. कार्य स्थल :- खसरा न. 598
3. कार्यकारी संस्था:—जलग्रहण समिति गारबदेसर
4. ग्राम पंचायत : गारबदेसर
5. योजना का नाम:—आई.डब्ल्यू.एम.पी.

6. क्षेत्रफल है. में :-50
7. फेंसिंग की कुल ल. मी. में 4100
8. प्रति है. पौधारोपण संख्या : 400

कार्य का विस्तृत विवरण

क.स.	कार्य विवरण	ईकाई	मात्रा	दर		राशि	
				श्रम	कुल	श्रम	कुल
1	क्षेत्र का सर्वे एवं सीमांकन करना माईक्रोप्लान तैयार करना प्लान्टेशन कार्ड बनाना क्षेत्र को उपखण्डों में विभक्त करना तथा निरीक्षण पथ का निर्माण	हैक्टर	50	44.55	71.55	2227.50	3577.50
2	अ-सीमेंट, बजरी, ग्रीट (1:4:8) का मिश्रण से एंगल ब्लॉक (30+20) ग30 के सांचे में पानी के स्रोत के पास ब्लॉक 2 तैयार करना मय सात दिवस तक पूर्ण तराई सहित	नं.	1025	30.60	30.60	31365.00	31365.00
3	ब्लॉक में परिवहन उंट गाड़े द्वारा 0-5 किमी की दूरी तक	नं.	1025	0.00	6.57	0.00	6734.25
4	ब्लॉक्स की भराई उतराई कार्य	नं.	1025	1.37	1.37	1404.25	1404.25
5	ब्लॉक्स को मौके पर अलाईन्मेंट में खडडा खोदकर गाड़ना मय स्थानीय ढुलाई मय निशानदेही	नं.	1025	8.87	8.87	9091.75	9091.75
6	कांटेदार तार खोलना, फेलाना, खिंचना तथा बाईडिंग वायर / नट बोल्ट द्वारा कस कर निर्धारित छेद पर बांधना / कसना	मी.	16400	0.78	0.78	12792.00	12792.00
7	सीमेंट क्रय मय परिवहन दर (13 ब्लॉक्स / बैग)	नं.	79	0.00	270.00	0.00	21288.46
8	बजरी क्रय मय परिवहन दर(0.4 सीएफटी)	घ.मी.	11.62		580.00	0.00	6740.17
9	ग्रीट क्रय मय परिवहन दर(0.80 सीएफटी)0 से 12 मी.	घ.मी.	23.24		1010	0.00	23474.39
10	बाईडिंग वायर / नट बोल्ट क्रय मय परिवहन दर 11 ग्रा. / एंगल या 4 नट प्रति एंगल	कि.ग्रा	6.00	0.00	50.00	0.00	300.00
11	बारवर्ड वायर क्रय दर (7 मी. प्रति किलोग्राम) 12 से 14 गेज 10 सै.मी. पर बारवर्ड	कि.ग्रा	2342.86	0.00	54.00	0.00	126514.29
12	एंगल आयरन क्रय (35ग35ग5 उच्च) 1.5 मी. लंबाई में / 117 एंगल / 1000 मी.	कि.ग्रा	5637.50	0.00	46.00	0.00	259325.00

13	पुराने तार से या स्थानीय रूप से उपलब्ध झाड़ियों (कांटेदार)से इंटरलेंसिंग करना दर (5+4.10)/2 त्र4प6धत्डउ	मी.	6150.00	3.59	3.59	22078.50	22078.50
14	पौधे खरीदना (12 माही) 10 प्रतिशत अतिरिक्त मय परिवहन	नं.	22000.00	0.00	8.00	0.00	176000.00
15	20 प्रतिशत गैप फिलिंग हेतु पौधे खरीदना (12 माही) 10 प्रतिशत अतिरिक्त मय परिवहन	नं.	4400.00	0.00	8.00	0.00	35200.00
16	साधारण मिट्टी मे खडडै खोदना(45ग45ग45 बउ)	नं.	20000.00	6.10	6.10	122000.00	122000.00
17	गैप फिलिंग हेतु साधारण मिट्टी मे खडडै खोदना(45ग45ग45 बउ)	नं.	4000.00	3.05	3.05	12200.00	12200.00
18	पौधो की स्थानीयढुलाई व समस्त उपचार कर पौधा लगाना	नं.	20000.00	3.00	3.00	60000.00	60000.00
19	गैप फिलिंग हेतु पौधो की स्थानीयढुलाई व समस्त उपचार कर पौधा लगाना	नं.	4000.00	3.00	3.00	12000.00	12000.00
20	पौधा रोपण हेतु खडडा खोदने हेतु निशानदेही	नं.	20000.00	0.55	0.55	11000.00	11000.00
21	पौधों को थावला बनाकर 15 लीटर प्रति पौधो पानी देना 3 किमी दूरी तक। कुल 42 बार	स	840000	1.80	2.05	1512000.00	1722000.00
22	पौधों का 8 बार थावला	स	160000.00	1.80	1.80	288000.00	288000.00
23	पौधों की 15 से.मी गहराई व 45 से.मी. अर्द्धव्यास में संयुक्त निराई गुड़ाई करना 8 बार	नं.	160000.00	1.20	1.20	192000.00	192000.00
24	पानी एकत्रिकरण हेतु टाकां निर्माण	नं.	2	56000.00	190000.00	112000.00	380000.00
25	केटल गार्ड हट निर्माण कार्य	नं.	1	2000.00	5000.00	2000.00	5000.00
26	वृक्षारोपण गेट व साईन बोर्ड निर्माण	नं.	1	2000.00	5000.00	2000.00	5000.00
27	कीटनाशक व खाद क्य मय परिवहन	नं.	1	0.00	5000.00	0.00	5000.00
28	सुरक्षा एवं देखभाल कार्य	माह	48	4050.00	4050.00	194400.00	194400.00
29	पौधों को पाले, लू एवं पशुओं से सुरक्षा हेतु 60 से.मी व्यास में व एक मीटर उंचाई के झोंपों स्थानीय झाड़ियों से बनाना	नं.	20000.00	2.66	4.44	53200.00	88800.00
30	पौधों की 1/3 भाग तक प्रुनिंग करना। 3 बार	स	60000.00	1.11	1.11	66600.00	66600.00
31	फेसिंग मरम्मत 3 बार	स	3.00	1000.00	3000.00	3000.00	9000.00
32	धामण/सेवन बीज कीमत 6 किलो प्रति हैक्टर	प्रति Kg	300.00	0.00	38.00	0.00	11400.00
33	धामण/सेवन बीज परिवहन	प्रति Kg	300.00	0.00	0.60	0.00	180.00
34	घास/सेवन बीज की गोलियां बीज, खाद, बालू एवं चिकनी, दुमट मिट्टी में 1: 2: 2: 2 के अनुपात में मिलाकर बनाना(फोरेस्ट बीएसआर)	प्रति Kg	300.00	0.00	24.06	0.00	7218.00

35	धामण/सेवन के बीज की गोलियां डिबलिंग द्वारा बोना	हैक्टर	50.00	0.00	276.75	0.00	13837.50
						2721359.00	3941521.06
36	आकस्मिक व्यय					81640.77	118245.6318
						2802999.77	4059766.69
				Say		2803000	4060000

Note रू उक्त दरें जिला परिषद (ग्रामीण विकास प्रकोष्ठ) बीकानेर की (बीएसआर 01.04.11)

की एवं मुख्य वन संरक्षण आईजीएनपी, बीकानेर की बीएसआर से ली गई है।

सरंपच
ग्राम पचायत
गारबदेसर

अध्यक्ष
उप समिति
गारबदेसर

W.D.T.
(Agri.)
IWMP-VII

J.EN.
(I W M P)
P.S. Lunkaransar

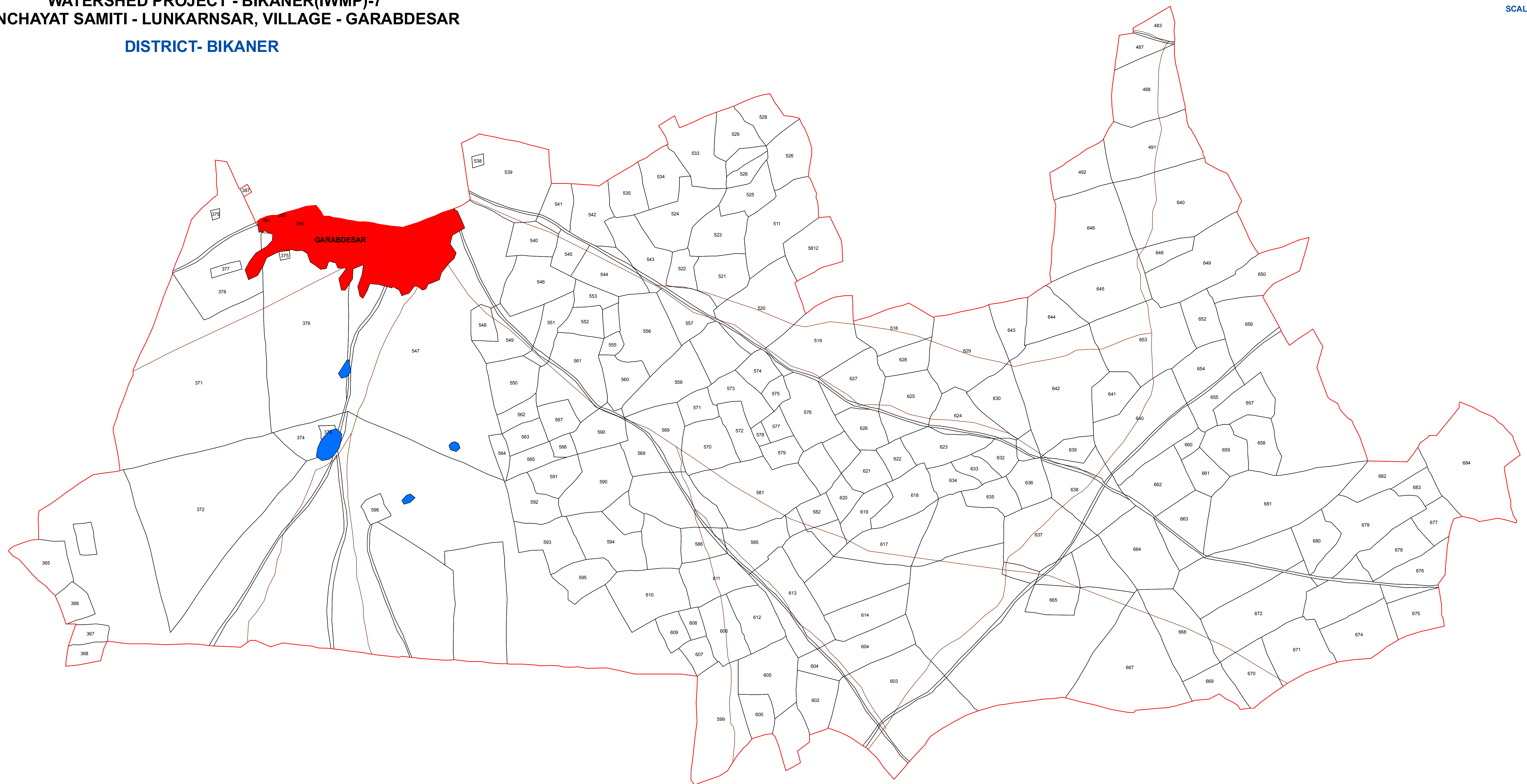
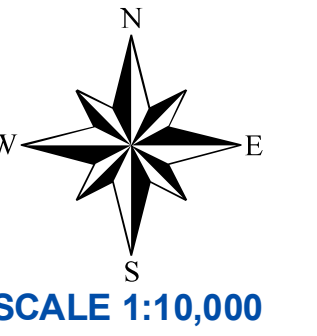
A.EN.
(I W M P)
P.S. Lunkaransar

परियोजना प्रबन्धक
जिला जलग्रहण विकास इकाई
जिला परिषद, बीकानेर।

GEOREFERENCED KHASRA MAP

WATERSHED PROJECT - BIKANER(IWMP)-7
PANCHAYAT SAMITI - LUNKARNSAR, VILLAGE - GARABDESAR

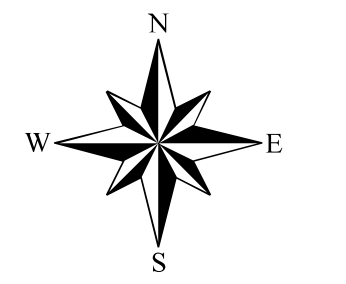
DISTRICT- BIKANER



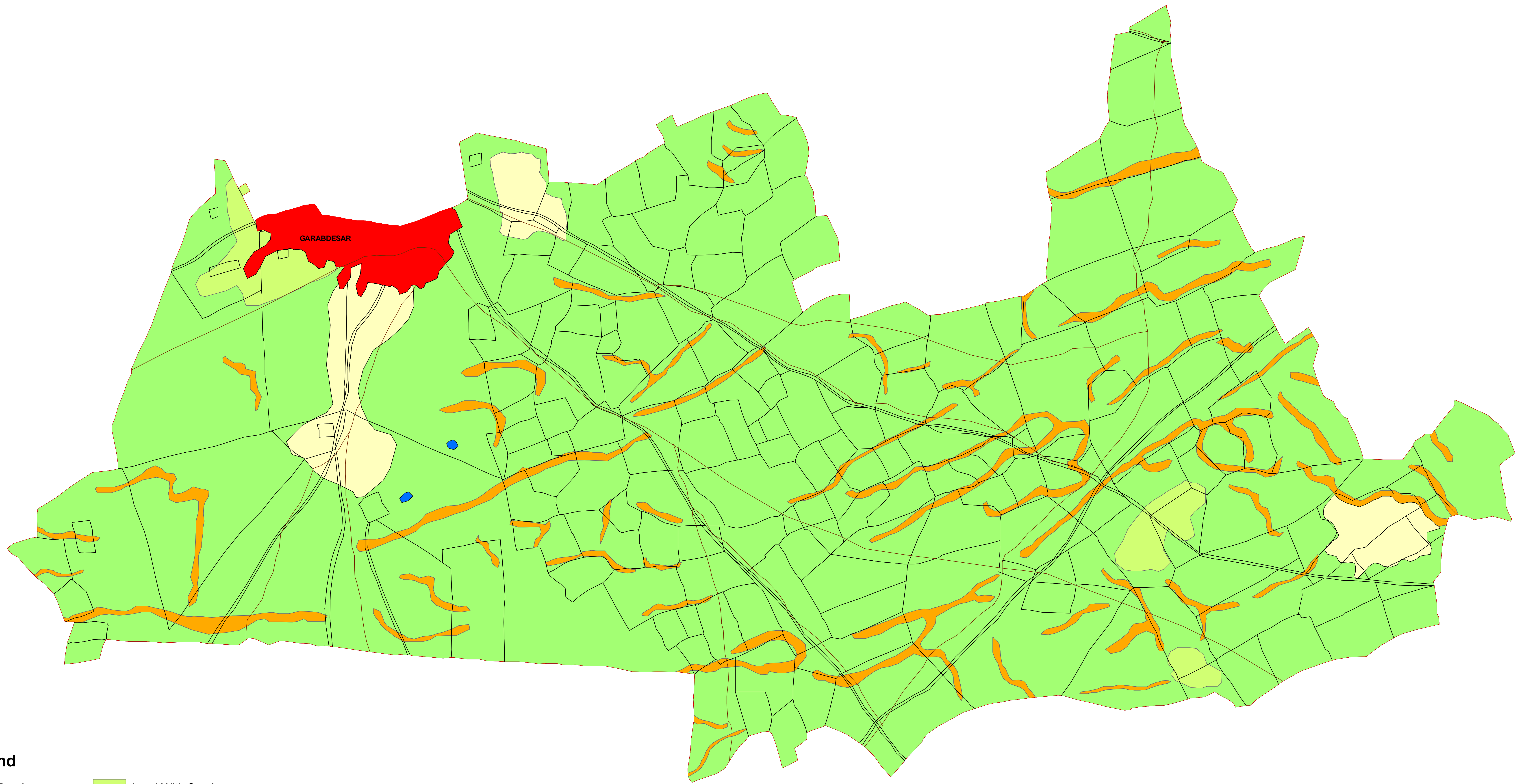
Legend

- Road
- ▭ Village Boundary
- ▭ Khasra Boundary
- Settlement
- Waterbody

LAND USE / LAND COVER MAP
WATERSHED PROJECT - BIKANER(IWMP) - 7
PANCHAYAT SAMITI - LUNKARNSAR, VILLAGE - GARABDESAR
DISTRICT- BIKANER



SCALE 1:10,000

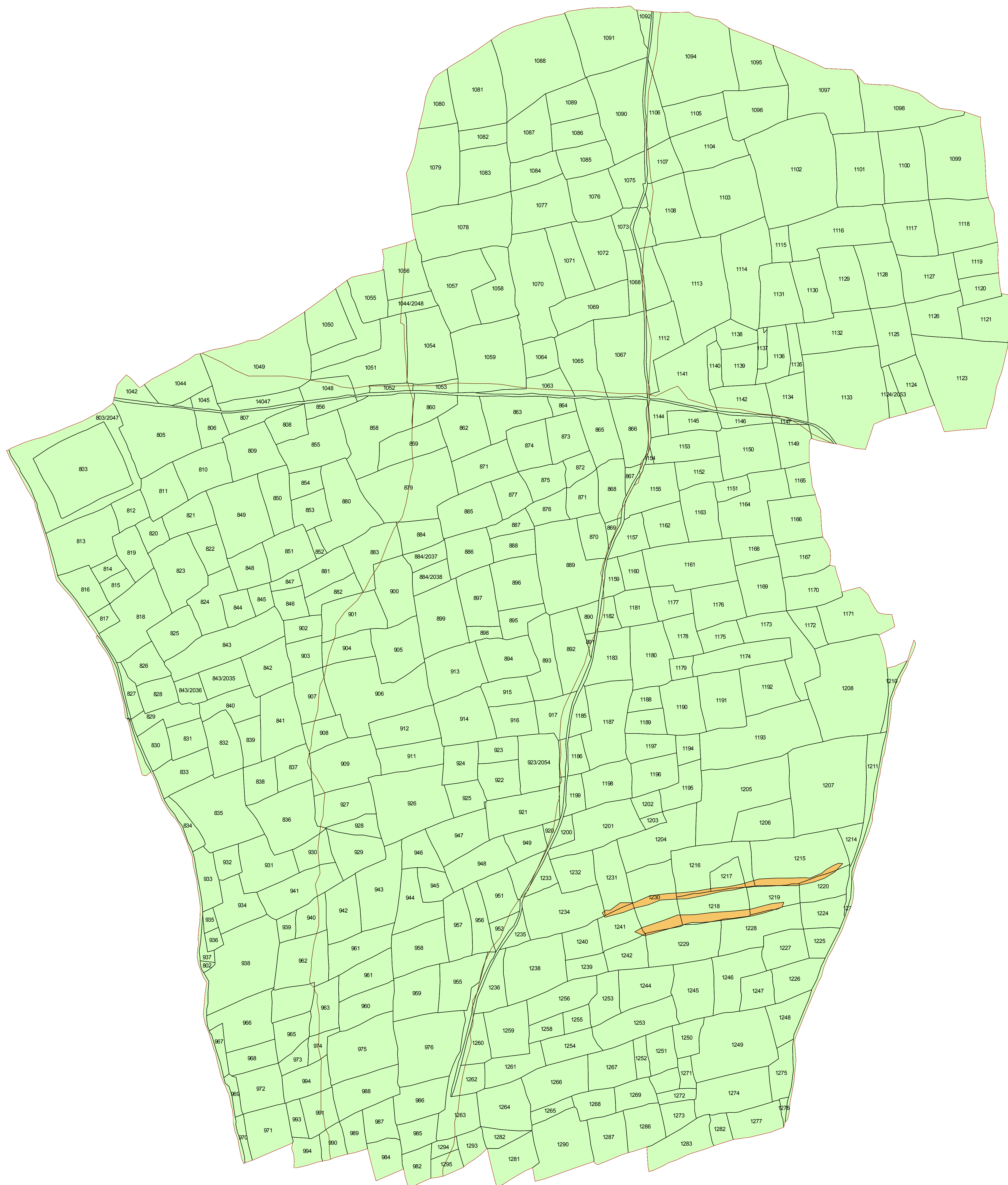


Legend

- | | |
|------------------|--------------------|
| — Road | Land With Scrub |
| SETTLAMENT | Land Without Scrub |
| Village Boundary | Sandy Desertic |
| Khasra Boundary | Settlement |
| Agriculture | Waterbody |

LAND USE / LAND COVER MAP

WATERSHED PROJECT - BIKANER(IWMP) - 7
PANCHAYAT SAMITI - LUNKARNSAR, VILLAGE - KALOO
DISTRICT- BIKANER

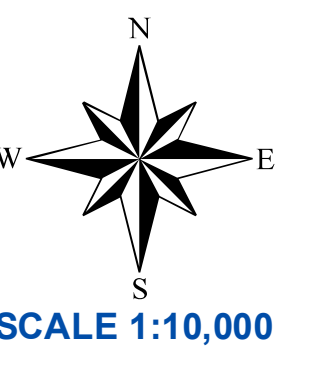


Legend

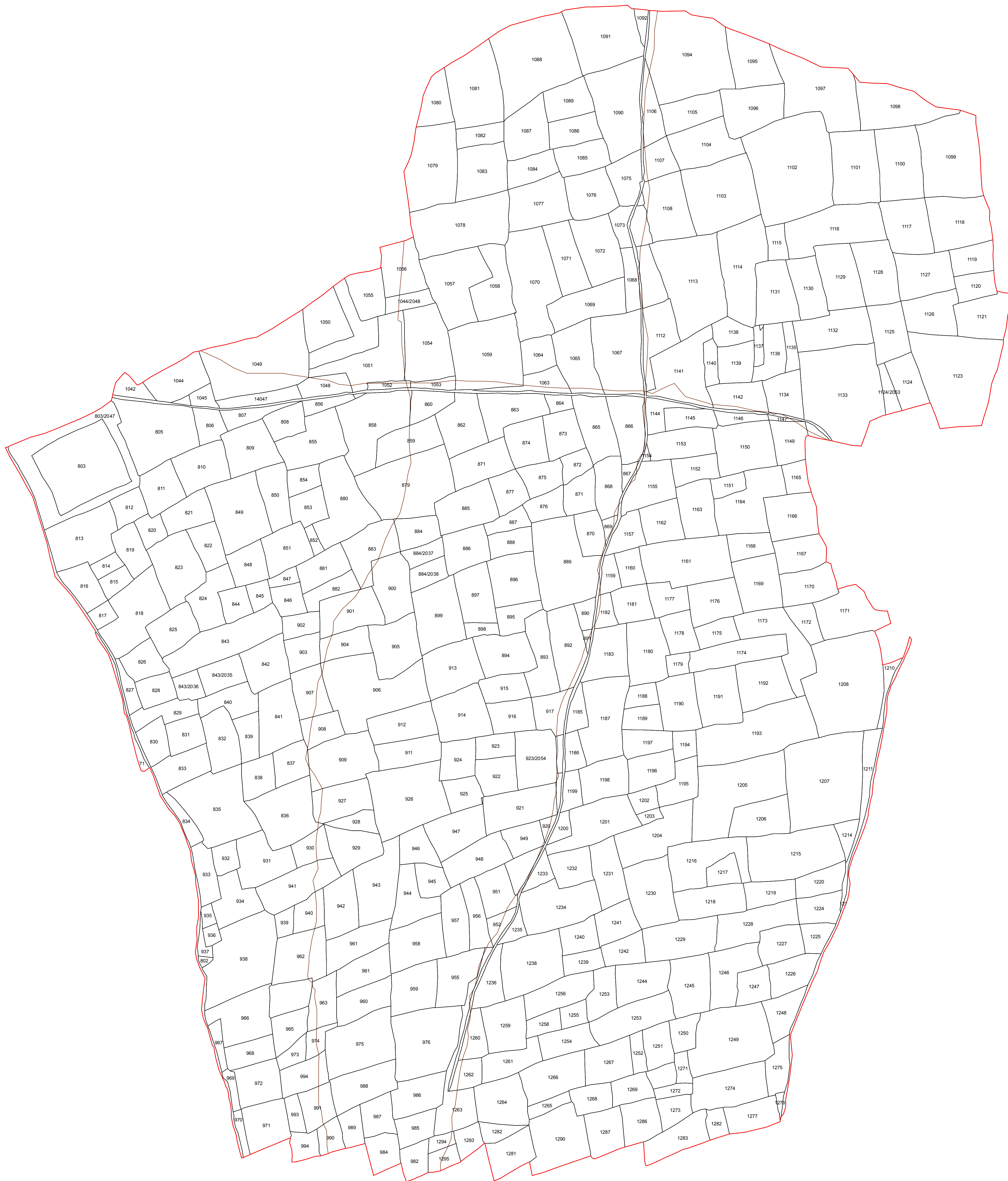
- Road
- Village Boundary
- Khasra Boundary
- Agriculture
- Sandy Desertic

GEOREFERENCED KHASRA MAP



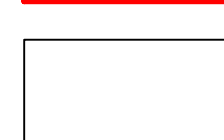
WATERSHED PROJECT - BIKANER(IWMP)-7
PANCHAYAT SAMITI - LUNKARNSAR, VILLAGE - KALOO
DISTRICT - BIKANER



SCALE 1:10,000

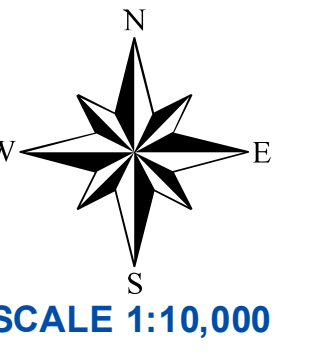


Legend

-  Road
-  Village Boundary
-  Khasra Boundary

GEOREFERENCED KHASRA MAP

WATERSHED PROJECT - BIKANER(IWMP)-7 PANCHAYAT SAMITI - LUNKARNSAR, VILLAGE - KUJTI
DISTRICT- BIKANER



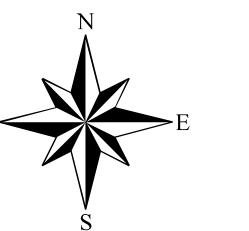
Legend

- Road
- ▭ Village Boundary
- ▭ Khasra Boundary
- Waterbody

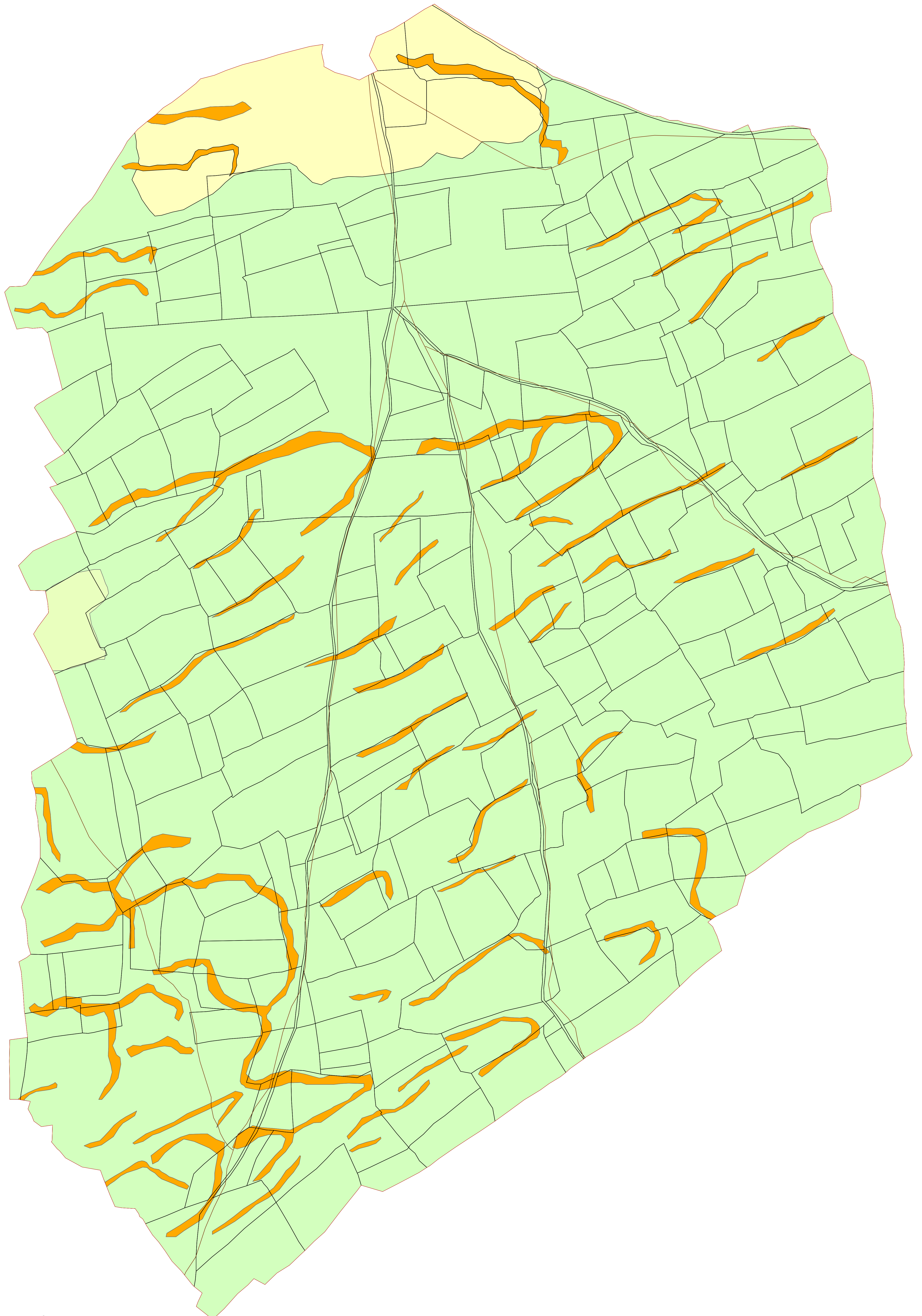
LAND USE / LAND COVER MAP

WATERSHED PROJECT - BIKANER(IWMP) - 7 PANCHAYAT SAMITI - LUNKARNSAR, VILLAGE - KUJTI

DISTRICT- BIKANER

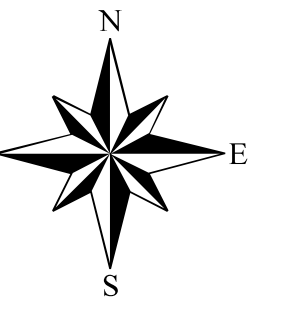


SCALE 1:10,000



Legend

- Road
- Land With Scrub
- Village Boundary
- Land Without Scrub
- Khasra Boundary
- Sandy Desertic
- Agriculture

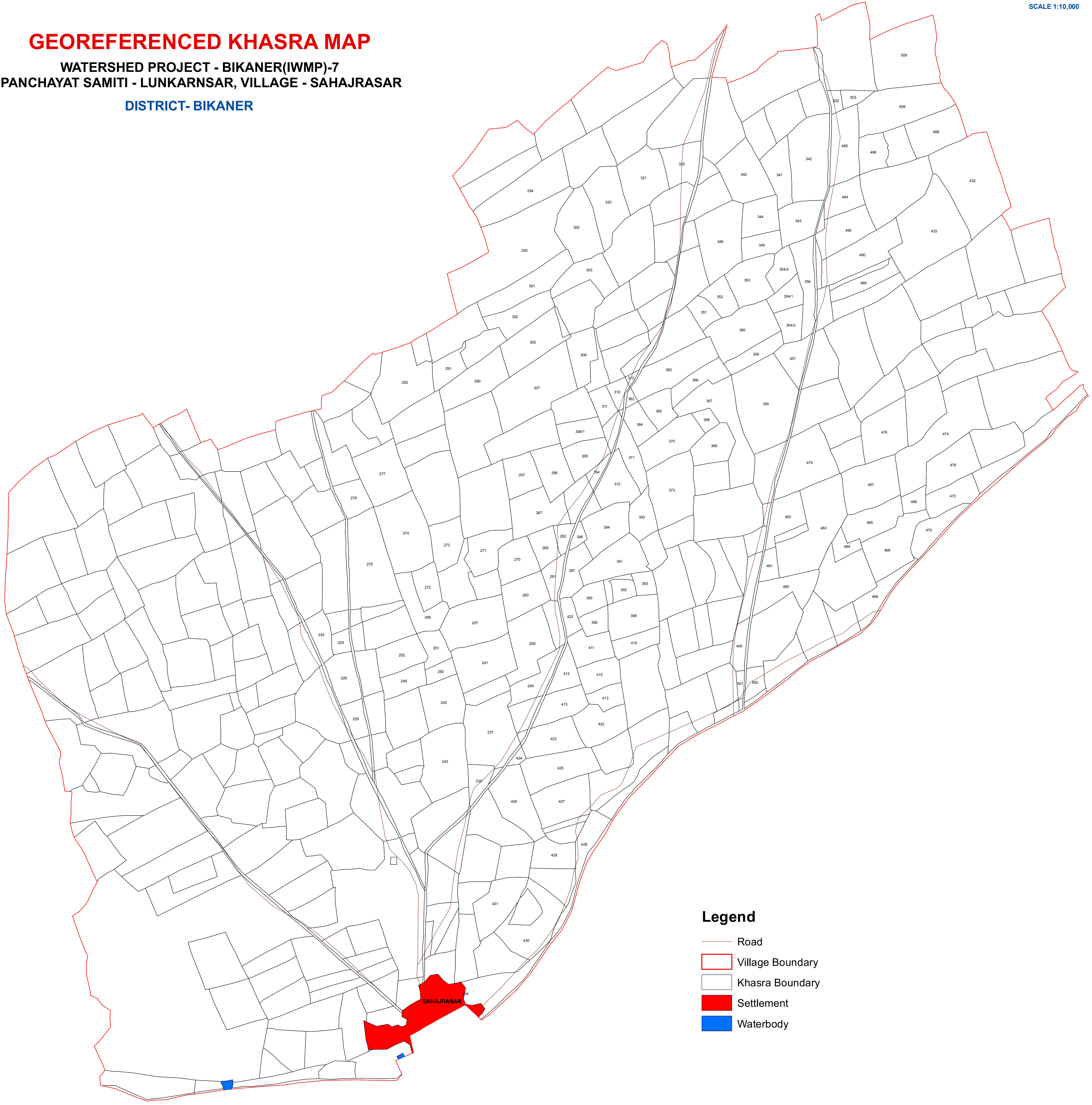


SCALE 1:10,000




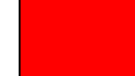

GEOREFERENCED KHASRA MAP

WATERSHED PROJECT - BIKANER(IWMP)-7
PANCHAYAT SAMITI - LUNKARNSAR, VILLAGE - SAHAJRASAR

DISTRICT- BIKANER

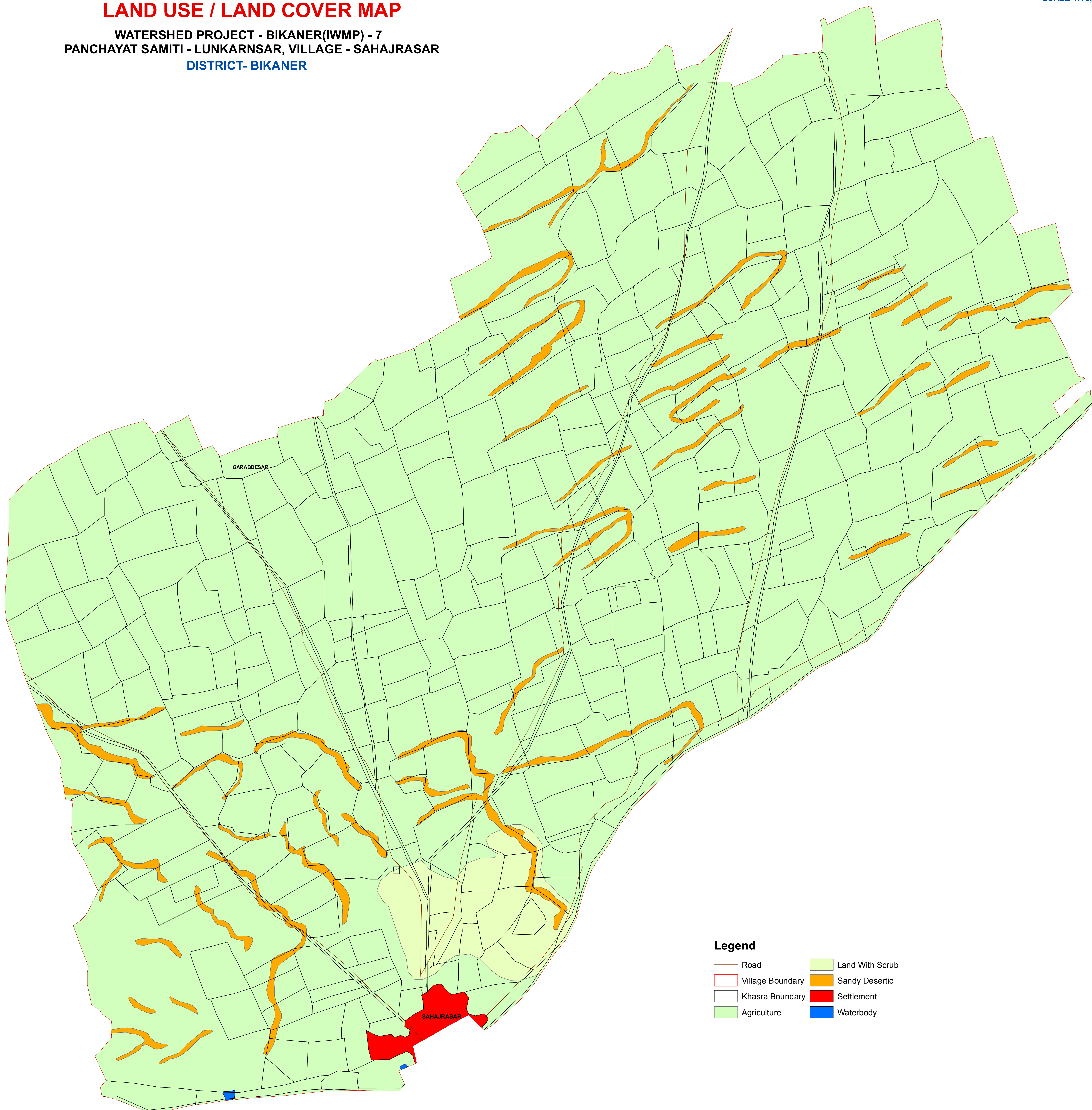


Legend

-  Road
-  Village Boundary
-  Khasra Boundary
-  Settlement
-  Waterbody

LAND USE / LAND COVER MAP

WATERSHED PROJECT - BIKANER(IWMP) - 7
PANCHAYAT SAMITI - LUNKARNSAR, VILLAGE - SAHAJRASAR
DISTRICT- BIKANER



Legend

- | | |
|--------------------|-----------------|
| — Road | Land With Scrub |
| — Village Boundary | Sandy Desertic |
| — Khasra Boundary | Settlement |
| — Agriculture | Waterbody |