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

NAME OF PROJECT : IWMP 14/2011-12
Suliyawas
EFFECTIVE AREA OF PROJECT : 4963 ha.
COST /HA - 15000
COST OF PROJECT : 744.45 lacks
BLOCK : Dantaramgarh
DISTRICT: Sikar

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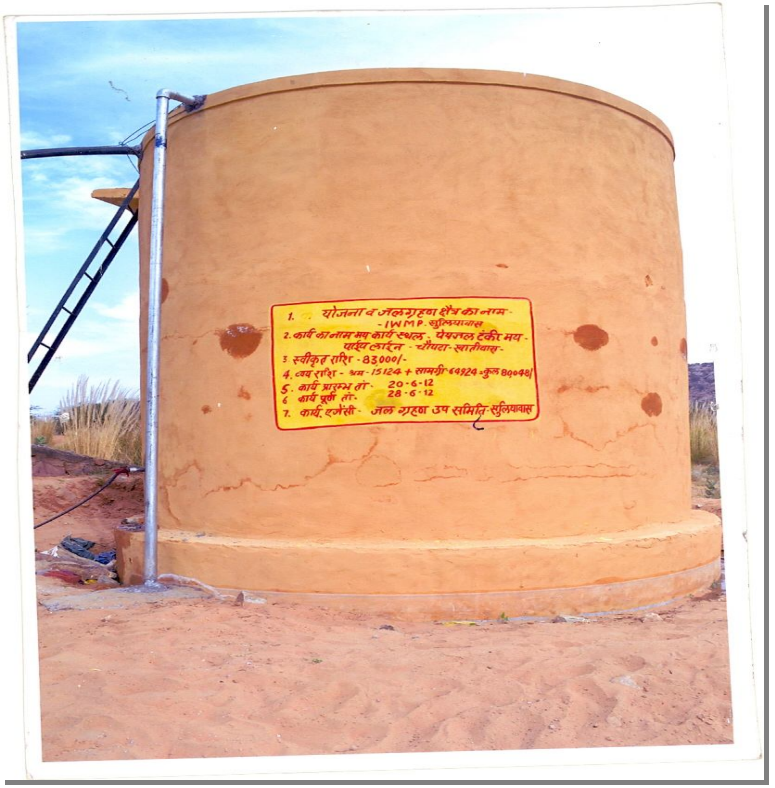
PIA – ASSISTANT ENGINEER
W.D. & S.C., P.S. - DANTARAMGARH

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

GOVERNMENT OF RAJASTHAN

RURAL DEVELOPMENT & PANCHAYATI RAJ DEPARTMENT
(WATERSHED DEVELOPMENT & SOIL CONSERVATION)



NAME OF PROJECT : IWMP 14/2011-12 Suliyawas
EFFECTIVE AREA OF PROJECT : 4963 ha.
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PIA – ASSISTANT ENGINEER
W.D. & S.C., P.S. - DANTARAMGARH

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

Detail of Project

1. Name of Project : SIKAR-IWMP-14/2011-12
2. Sanction No. & date of Project : K-11013/3/2011/IWMP(RAJASTHAN) DATED 30.06.2011
3. Macro & Micro Nos : CLUSTER
4. Deviation from Project Sanctioned :

Items	As per Project Sanctioned	As proposed in DPR
Project Area	6058	6058
Macro/Micro No	CLUSTER	CLUSTER
Name of Gram Panchayats	Suliyawas, Mundiawas , Roopgarh, Ralawata, Dudhwa, Khandelsar,	Suliyawas, Mundiawas , Roopgarh, Ralawata, Dudhwa, Khandelsar,
Name of Villages	Khatiwas, Godiyawas, Suliyawas, Amarpura, Tuli ka charanwas, Roopgarh, Motipura, Nayabas, Thehat, Basri kalan, Ralawata, Jeenmata, Nimera, Tanbakhupura, Jeenwas, Udaipura, Mohanpura, Maksoodpura, Chihala	Khatiwas, Godiyawas, Suliyawas, Amarpura, Tuli ka charanwas, Roopgarh, Motipura, Nayabas, Thehat, Basri kalan, Ralawata, Jeenmata, Nimera, Tanbakhupura, Jeenwas, Udaipura, Mohanpura, Maksoodpura, Chihala
Project Cost (Rs in Lakhs)	744.45	744.45

- **CHAPTER – I**

INTRODUCTION

Location.

SULIYAWAS Project is located in **DANTARAMGAH** Block, of **SIKAR** district. The project area is lies between the latitudes **27^{O} 20' to 27^{O} 25'** & longitudes **75^{O} 5' to 75^{O} 15'** It is at a distance of **10** km from its Block head quarters and **45** Kms from the district head quarters. There are **19** no. of habitations in the Project area and other details are given below.

General features of watershed

Table 1.1 General features of watershed

S.No.	**Name of Project(as per GOI)**	**IWMP**
(a)	Name of Catchment	SULIYAWAS
(b)	Name of watershed area(local name)	SULIYAWAS
(C)	Project Area	6058 Ha.
(d)	Net treatable Area	4963 Ha.
e)	Cost of Project	744.50 lacks
f)	Cost/hectare	15000 Rs.
g)	Year of Sanction	2011-12
h)	Watershed Code	Cluster

i)	No. of Gram Panchayats in project area	6
j)	No. of villages in project area	19
k)	Type of Project	Desert
n)	Slope range (%)	1 to 4%

Name of Gram Panchayat	Name of Villages Covered	Census code of villages	Area (in ha.)
Suliyawas	Khatiwas	01705600	287
	Godiyawas	01705700	237
	Suliyawas	01705900	995
Mundiawas	Amarpura	01706200	255
Roopgarh	Tuli ka charanwas	01706400	140
	Roopgarh	01706500	260
	Motipura	01706600	195
	Nayabas	01706700	519
	Tehat	01706800	141
Ralawata	Basri kalan	01707600	509
	Ralawata	01707700	291
	Jeenmata	01707800	121
	Nimera	01707900	122
	Tanbakhupura	01708000	68
	Jeenwas	01707400	126
Dudhwa	Udaipura	01707200	122
	Mohanpura	01707300	84
Khandelsar	Maksoodpura	01711900	448
	Chihala	01711700	43
Total Area			**4963**

The watershed falls in Agro climatic Zone **2A** .The soil texture is **Sandy.** The average rainfall is **437.89mm**. The temperatures in the area are in the range between **30 to 48** centigrade during summer and **2 to 38** centigrade during winter. The major crops in the area are **Bajra, Chawla, Guar, mung, Wheat, Gram, and Mustard**. Land under cultivation is **4668 ha. 0.00**% land fallow, **5.72** % land is wasteland. **10.08** % land is irrigated through **Tube well**

240 No of households are BPL(6.60% households) **262** are landless households(**6.74**% households) and **2938** household are small and marginal farmers(**80.91**% household) .Average land holding in the area is **1.63** ha. 77.05% area is single cropped area and **10.08**% is double cropped. The main source of irrigation is **Tube well**. The average annual rainfall (10 years) in the area is **443.90** mm. The major festivals in the village are **Holi**, **Deepawli** , **Eid** & **Raksha Bandhan**. At present this village is having **21845** populations with Communities like **Jat**, **Gurjar, Kumawat, Balai, Aheer, Rajpoot etc.**

Climatic and Hydrological information

1	**Average Annual Rainfall (mm)**	
	Year	**Average Annual Rainfall(mm)**
1	2001	567.2
2	2002	248
3	2003	454
4	2004	239
5	2005	305
6	2006	465.5
7	2007	445
8	2008	469
9	2009	347
10	2010	572
11	2011	467
12	2012	676
2	**Average Monthly rainfall (last twelve years)**	
	Month	Rainfall(mm)
i)	June	80.22
ii)	July	138.9
iii)	August	93.75
iv)	September	26.5
3	**Maximum rainfall intensity (mm)**	
	Duration	Rainfall Intensity (mm)
	i) 15 minute duration	67
	ii) 30 minute duration	71
	iii) 60 minute duration	98

4	**Temperature (Degree C)**		
	Season	Max	Min
	i) Summer Season	48	30
	ii) Winter Season	36	2
	iii) Rainy Season	43	17

5	**Potential Evaporation Transpiration (PET) (mm/day)**	
	Season	PET
	i) Summer	0
	ii) Winter	00
	iii) Rainy	

6	Runoff	
	i) Peak Rate (cum/hr)	
	ii) Total run off volume of rainy season (ha.m.)	
	iii) Time of return of maximum flood	25 years
	iv)Periodicity of Drought in village area	once in 3 years

Details of infrastructure in the project areas

Parameters		Status			
(i)	No. of villages connected to the main road by an all-weather road	19			
(ii)	No. of villages provided with electricity	19			
(iii)	No. of households without access to drinking water	1550			
(iv)	No. of educational institutions Primary(P)/Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	(P) 20	(S) 10	(HS) 2	(VI) 2
(v)	No. of villages with access to Primary Health Centre	1			
(vi)	No. of villages with access to Veterinary Dispensary	2			
(vii)	No. of villages with access to Post Office	6			
(viii)	No. of villages with access to Banks	5			
(ix)	No. of villages with access to Markets/ mandis	0			
(x)	No. of villages with access to Agro-industries	Nil			
(xi)	Total quantity of surplus milk	13.06 Qt./day			
(xii)	No. of milk collection centres (e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O)	(U) -	(S) -	(PA) 15	(O) -
(xiii)	No. of villages with access to Anganwadi Centre	20			
(xiv)	Any other facilities with no. of villages (please specify)	-			
(xv)	Nearest KVK	0			
(xvi)	Cooperative society	4			
(xvii)	NGOs	-			
(xviii)	Credit institutions				
	(i) Bank	4			
	(ii) Cooperative Society	1			
(xix)	Agro Service Centre's	Nil		Nil	

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

State level nodal agency (SLNA):- As per guideline para no. – 4.4 state govt. of Rajasthan constituted state level nodal agency (SLNA). Chairman of SLNA is additional chief secretary (Development) & Member secretary is Director Watershed (CEO)

SLNA

Member Secretary : CEO
Designation & Address :Director watershed development & soil conservation
Telephone No. :- 0141-2227189
Fax No. :- 0141-2227858
E-mail :- dir_wdsc@dataone.in

District watershed development unit (DWDU) Details are as under :-

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

Project Implementing Agency (PIA) :- Details are as under :-

S.No	Particulars	Details of PIA
6.	Name of PIA	Assistant Engineer P.S. Dantaramgarh
7.	Designation	Ass. Eng.
8.	Address with contact no., website	P.S. Dantaramgarh
9.	Telephone	01577- 274053
10	Fax	01577- 274053
11	E-mail	aenwatersheddtr@gmail.com

Watershed Development Team (WDT):- Details are as under:-

S.No	Name of WDT member	Sex	Age	Designation	Qualification	Specialization	Role/ Function
1	Er. Hansraj Bajrolia	M	22	Engineering consultant	Diploma in Civil	Engineering	All Engineering activities
2	Bhanwar Singh	M	40	Agriculture consultant	Senior Sec (Ag), B.A.	Agriculture	All Agriculture activities
3	Manoj kumar pareek	M	37	Veterinary consultant	L.S.A.	Veterinary	All Veterinary activities
4	Neelam lakhiwal	F	27	Social Science Consultant	B.A. (Social Sci.)	Social Sci.	All Social Act.

Details of Watershed Committees

Details of Watershed Committees (WC):- Udaipura

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
W.C. Udaipura	11/10/20 11		President	Ganesha Ram	M	O.B.C	SF	UG	5th
			Secretary	Parmeswar	M	O.B.C	SF	UG	B.A
			Member	Mohani Devi	F	O.B.C	LL	SHG	5th
				Kishori Devi	F	O.B.C	SF	UG	5th
				Gulabi Devi	F	S.T	MF	UG	5th
				Tansukh Ram	M	O.B.C	MF	UG	5th
				Nola Ram	M	O.B.C	MF	UG	5th
				Bagha Ram	M	S.C	SF	UG	8th
				Seta Ram	M	GEN.	MF	UG	5th
				Ramesh Kumar Meena	M	A. En, Watershed Dantaramgarh			

Details of Watershed Committees (WC):- Roopgarh

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
W.C. Roopgarh	12-10-2011		President	Kana Ram	M	OBC	SF	UG	8th
			Secretary	Jagdish Prasad	M	GEN	SF	UG	10th
			Member	Birma Ram	M	SC	MF	UG	10th
				Dalu Ram	M	OBC	BF	UG	8th
				Jhutha Ram	M	OBC	BF	UG	11th
				Prema Ram	M	OBC	SF	UG	2th
				Bagha Ram	M	OBC	MF	UG	8th
				Lichman Ram	M	OBC	MF	UG	5th
				Shoba Devi	F	OBC	LL	SHG	8th
				Dhani Devi	F	GEN	MF	UG	2th
				Kailash kanwer	F	OBC	MF	UG	8th
				Geeta Devi	F	GEN	MF	SHG	5th
				Buliyha Devi	F	SC	LL	SHG	5th
				Bhagirath Mal	M	OBC	MF	UG	5th
				Ramesh Kumar Meena	M	A En, Watershed Dantaramgarh			

Details of Watershed Committees (WC):- Amarpura

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
W.C. Amarpura	29/09/2011		President	Ramehwarlal bdhala	M	OBC	SF	UG	10th
			Secretary	Haish kumar	M	OBC	LF	UG	BA
			Member	Likhamaram	M	OBC	LF	UG	10th
				Chandra ram	M	OBC	LF	UG	8th
				Manju devi	F	SC	LL	SHG	12th
				Govimd ram	M	OBC	LF	UG	12th
				Mhadha devi	F	OBC	SF	UG	8th
				Gangaabaksh	M	OBC	LF	UG	10th
				Lala ram	M	SC	LF	UG	10th
				Ramesh kumar Meena	M	A En, Watershed Dantaramgarh			

Details of Watershed Committees (WC):- Suliyawas

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
W.C. **Suliyawas**	2.10.11		President	Tulshiram/ kasha ram	M	OBC	BF	UG	11th
			Secretary	Shiv bagwhan/ Todha ram	M	OBC	BF	UG	12th
			Member	Asha Sharma/ Manoj Sharma	F	Gen.	LL	SHG	11th
				Shrimti sushila/subhash meena	F	ST	SF	UG	B.A
				Shrimti radha devi/bhawar nayak	F	SC	LL	UG	4th
				Mularam/rudharam	M	OBC	BF	UG	10th
				Jabrmal/laakharam	M	OBC	BF	UG	10th
				Bhawar sing/jaysing	M	GEN.	BF	UG	10th
				Ganpath/surjharam	M	OBC	SF	UG	8th
				Ranu sain/Bhanaram	F	OBC	SF	SHG	B.A
				Ramesh kumar Meena	M	A En, Watershed Dantaramgarh			

Details of Watershed Committees (WC):- Ralawata

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
W.C. **Ralawata**	12-10-2011		President	Chandra ram/ Ganpt Ram	M	ST	BF		8th
			Secretary	Mukesh kumar/ Subash Chand	M	OBC	LL		B.A
			Member	Rashmi Devi/Kaluram	F	SC	LL		2th
				Santi Devi/ Chotmal	F	SC	LL		2th
				Bhawri Devi/ Madanlal	F	OBC	LL	SGH	8th
				Babla Devi/ Jhabar Mal	F	OBC	LL	SGH	8th
				Sukhi Devi/ Kesar mal	F	SC	SF	SGH	2th
				Shri Ladhu Ram / Ramdeva Ram	M	OBC	BF		5th
				Kandan/ Gulabdan	M	OBC	MF		5th
				Banwari Lal / Dungar Mal	M	GEN.	BF		8th
				Dayal sing/Mopsing	M	GEN.	BF		5th
				Dileep Sharma/Richpal Sharma	M	GEN.	MF		8th
				Ramesh kumar Meena	M	A En, Watershed Dantaramgarh			

Details of Watershed Committees (WC):- Maksoodpura

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
W.C. **Makshudpura**	20-10-2011		President	Geidhari lal yadav	M	OBC	LL		8^{th}
			Secretary	Narendr sing	M	OBC	LL		B.A
			Member	Khtharam/Narayanlal	M	OBC	SF		5^{th}
				Rameshwar	M	OBC	BF		2th
				Choti devi/Bhawarlal blahi	F	SC	LL		2th
				Hira devi/Bhawarlal gujar	F	OBC	LL		2th
				Choti devi/Girdharilal yadhaw	F	OBC	LL		2th
				Sataynarayan/ chandraram sharma	M	GEN.	SF	SHG	2th
				Ganesh/Human Blahi	M	SC	MF		2th
				Mukli devj /Bhagu meena	M	ST	SF		2th
				Ramesh kumar Meena	M	A En, Watershed Dantaramgarh			

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 under double cropped.

611 ha is only irrigated and with efforts this can be increased to **921 ha**. 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)

29980.17 tons fodder scarcity can be met out through Pasture development .Improved animal Husbandry practices can increase the productivity of livestock. 566 no of persons migrate due to no employment. 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.

Base Line Survey Format for IWMP MIS website

Project Name - SIKAR-IMWP-14/2011-12 SULIYAWAS

Total Geographical Area of Project (Lakh Hectares) :- 0.06058

Treatable Area

Wasteland (Lakh Hectares)	0.04963	Rainfed Agricultural Land (Lakh Hectares)	0.04668
Total Cropped Area (Lakh Hectares)	0.04668	Net Sown Area (Lakh Hactares)	0.04057
Total no. of Water Storage Structure	9	Total no. of Water Extracting Units	755
Total storage capacity of water storage structures (cubic meters)	180		

No. of Household

SC	869	ST	148
Others	2614		
Total Population of the project Area	21845	No. of Household of Landless people	566
Total no. of BPL Household	240		
No. of person-days of Seasonal Migration	1308	No. of Marginal Farmer's Household	1630

Depth of Ground Water (meters) below Ground level

Pre- monsoon	90	Post-monsoon	89.50
No. of person-days of Seasonal Migration	566		

CHAPTER – II Socio economic Features, Problems and Scope

Table 2.1.1 Demography Details (Population & Household Details)

Name of Gram Panchayat	Name of Villages Covered	Male	Female	Total		SC		ST	
				Population	House hold	Population	House hold	Population	House hold
Suliyawas	Khatiwas	615	580	1195	192	380	52	2	1
	Godiyawas	412	419	831	145	108	19	25	5
	Suliyawas	1487	1330	2847	457	471	71	238	38
Mundiawas	Amarpura	456	476	932	159	166	23	0	0
Roopgarh	Tuli ka charanwas	555	569	1124	170	154	17	0	0
	Roopgarh	1108	1001	2109	325	1194	164	0	0
	Motipura	312	293	605	110	26	5	0	0
	Nayabas	360	368	728	129	188	29	0	0
	Tehat	956	986	1942	333	342	127	105	18
Ralawata	Basri kalan	560	536	1096	178	233	38	45	7
	Ralawata	412	458	870	161	382	67	85	16
	Jeenmata	550	501	1051	190	329	50	0	0
	Nimera	440	428	868	159	195	27	0	0
	Tanbakhupura	65	62	127	25	21	4	18	4
	Jeenwas	740	701	1441	221	361	34	0	0
Dudhwa	Udaipura	568	534	1102	190	319	47	0	0
	Mohanpura	595	559	1154	190	161	47	85	14
Khandelsar	Maksoodpura	740	679	1419	224	278	10	351	44
	Chihala	207	197	404	73	61	38	1	1
Total		**11138**	**10677**	**21845**	**3631**	**5369**	**869**	**955**	**148**

Table- 2.1.2 BPL Household details

Name of Gram Panchayat	**Village**	**SC**	**ST**	**OBC/Other**	**TOTAL**
Suliyawas	Khatiwas	07	0	04	11
	Godiyawas	07	0	4	11
	Suliyawas	15	6	22	43
Mundiawas	Amarpura	8	0	3	11
Roopgarh	Tuli ka charanwas	1	0	4	5
	Roopgarh	22	0	9	31
	Motipura	0	0	1	1
	Nayabas	6	0	2	8
	Tehat	8	1	1	10
Ralawata	Basri kalan	1	0	0	1
	Ralawata	5	0	3	8
	Jeenmata	5	1	3	9
	Nimera	5	0	3	8
	Tanbakhupura	0	0	0	0
	Jeenwas	10	0	13	23
Dudhwa	Udaipura	13	0	16	29
	Mohanpura	1	1	8	10
Khandelsar	Maksoodpura	2	0	3	5
	Chihala	12	2	2	16
	total	**128**	**11**	**101**	**240**

NOTE:- BPL Household List Attached with

Table- 2.1.3 -Marginal Farmer Household Details

Name of Gram Panchayat	Name of Villages Covered	SC	ST	OBC/Others	TOTAL
Suliyawas	Khatiwas	30	1	61	92
	Godiyawas	10	0	49	59
	Suliyawas	33	19	167	219
Mundiawas	Amarpura	12	0	49	61
Roopgarh	Tuli ka charanwas	7	0	58	65
	Roopgarh	79	0	71	150
	Motipura	2	0	37	39
	Nayabas	14	0	31	45
	Tehat	100	9	136	245
Ralawata	Basri kalan	19	3	36	58
	Ralawata	33	9	17	59
	Jeenmata	29	0	41	70
	Nimera	9	0	45	54
	Tanbakhupura	2	2	4	8
	Jeenwas	18	0	101	119
Dudhwa	Udaipura	24	0	49	73
	Mohanpura	37	7	67	111
Khandelsar	Maksoodpura	5	21	39	65
	Chihala	21	1	16	38
Total		**484**	**72**	**1074**	**1630**

Table- 2.1.4 Small Farmer Household Details

Name of Gram Panchayat	Name of Villages Covered	SC	ST	OBC/Others	TOTAL
Suliyawas	Khatiwas	17	0	49	66
	Godiyawas	7	2	43	52
	Suliyawas	30	13	150	193
Mundiawas	Amarpura	8	0	57	65
Roopgarh	Tuli ka charanwas	8	0	63	71
	Roopgarh	76	0	57	133
	Motipura	2	0	36	38
	Nayabas	11	0	23	34
	Tehat	25	8	23	56
Ralawata	Basri kalan	14	2	56	72
	Ralawata	32	5	23	60
	Jeenmata	18	0	58	76
	Nimera	17	0	54	71
	Tanbakhupura	2	2	3	7
	Jeenwas	15	0	43	58
Dudhwa	Udaipura	21	0	58	79
	Mohanpura	9	5	36	50
Khandelsar	Maksoodpura	4	18	79	101
	Chihala	15	0	11	26
Total		331	55	922	1308

Table- 2.1.5 Large Farmer Household Details

Name of Gram Panchayat	Name of Villages Covered	**SC**	**ST**	**OBC/Others**	**TOTAL**
Suliyawas	Khatiwas	5	0	6	11
	Godiyawas	2	3	5	10
	Suliyawas	8	6	6	20
Mundiawas	Amarpura	3	0	4	7
Roopgarh	Tuli ka charanwas	2	0	5	7
	Roopgarh	9	0	5	14
	Motipura	1	0	3	4
	Nayabas	4	0	21	25
	Tehat	2	1	3	6
Ralawata	Basri kalan	5	2	12	19
	Ralawata	2	2	5	9
	Jeenmata	3	0	7	10
	Nimera	1	0	4	5
	Tanbakhupura	0	0	3	3
	Jeenwas	1	0	6	7
Dudhwa	Udaipura	2	0	4	6
	Mohanpura	1	2	4	7
Khandelsar	Maksoodpura	1	5	12	18
	Chihala	2	0	1	3
Total		**54**	**21**	**116**	**191**

Table- 2.1.6 Abstract Household Details

Household Details	**SC**	**ST**	**OBC/Others**	**TOTAL**
Marginal Farmer Household	484	72	1074	1630
Small Farmer Household	331	55	922	1308
Large Farmer Household	54	21	116	191
TOTAL Household	**869**	**148**	**2112**	**3129**

Table- 2.1.7 Marginal Farmer Land Details (In ha.)

Name of Gram Panchayat	Name of Villages Covered	SC	ST	OBC/Others	TOTAL
Suliyawas	Khatiwas	36.20	1.00	61.00	98.20
	Godiyawas	8.42	0.00	45.13	53.55
	Suliyawas	30.29	15.41	155.32	201.02
Mundiawas	Amarpura	10.23	0.00	45.57	55.80
Roopgarh	Tuli ka charanwas	4.03	0.00	19.75	23.78
	Roopgarh	14.85	0.00	16.23	31.08
	Motipura	1.89	0.00	35.68	37.57
	Nayabas	12.58	0.00	29.30	41.88
	Tehat	8.40	5.60	23.10	37.10
Ralawata	Basri kalan	14.17	1.35	35.48	51.00
	Ralawata	30.48	7.46	15.52	53.46
	Jeenmata	5.02	0.00	4.10	9.12
	Nimera	3.48	0.00	5.41	8.89
	Tanbakhupura	1.92	1.64	3.80	7.36
	Jeenwas	5.50	0.00	15.05	20.55
Dudhwa	Udaipura	5.43	0.00	4.15	9.58
	Mohanpura	3.15	1.47	4.18	8.80
Khandelsar	Maksoodpura	4.48	18.23	36.42	59.13
	Chihala	3.48	0.45	3.94	7.87
Total		**204.00**	**52.61**	**559.13**	**815.74**

Table- 2.1.8 Small Farmers Land Detail (In ha.)

Name of Gram Panchayat	Name of Villages Covered	SC	ST	OBC/Others	TOTAL
Suliyawas	Khatiwas	33.60	0.00	97.59	131.19
	Godiyawas	11.61	3.08	80.13	94.82
	Suliyawas	55.23	23.10	287.80	366.13
Mundiawas	Amarpura	14.45	0.00	104.30	118.75
Roopgarh	Tuli ka charanwas	13.38	0.00	69.34	82.72
	Roopgarh	101.18	0.00	98.42	199.60
	Motipura	3.68	0.00	70.17	73.85
	Nayabas	20.32	0.00	44.38	64.70
	Tehat	47.13	13.32	25.14	85.59
Ralawata	Basri kalan	23.42	3.16	105.34	131.92
	Ralawata	60.11	7.38	44.48	111.97
	Jeenmata	24.14	0.00	65.91	90.05
	Nimera	31.17	0.00	65.32	96.49
	Tanbakhupura	3.42	3.11	5.82	12.35
	Jeenwas	27.26	0.00	45.26	72.52
Dudhwa	Udaipura	37.37	0.00	64.43	101.80
	Mohanpura	15.12	6.38	40.42	61.92
Khandelsar	Maksoodpura	7.32	34.48	152.53	194.33
	Chihala	16.21	0.00	12.48	28.69
Total		**546.12**	**94.01**	**1479.26**	**2119.39**

Table 2.1.9 Large Farmers Land Details (In ha)

Name of Gram Panchayat	Name of Villages Covered	SC	ST	OBC/Others	TOTAL
Suliyawas	Khatiwas	25.08	0.00	24.82	49.90
	Godiyawas	27.13	4.92	43.17	75.22
	Suliyawas	125.60	103.86	151.36	380.82
Mundiawas	Amarpura	22.48	0.00	44.23	66.71
Roopgarh	Tuli ka Charanwas	14.25	0.00	14.69	28.94
	Roopgarh	18.63	0.00	8.16	26.79
	Motipura	16.32	0.00	51.32	67.64
	Nayabas	109.27	0.00	231.29	340.56
	Tehat	12.04	2.48	2.89	17.41
Ralawata	Basri kalan	50.12	48.12	173.83	272.07
	Ralawata	50.20	7.06	52.12	109.38
	Jeenmata	16.54	0.00	4.04	20.58
	Nimera	12.35	0.00	3.26	15.61
	Tanbakhupura	0.00	0.00	36.84	36.84
	Jeenwas	19.78	0.00	10.03	29.81
Dudhwa	Udaipura	4.51	0.00	4.66	9.17
	Mohanpura	8.04	2.86	1.82	12.72
Khandelsar	Maksoodpura	14.36	63.29	89.18	166.83
	Chihala	4.08	0.00	1.80	5.87
Total		**550.78**	**232.59**	**949.51**	**1732.87**

Table – 2.1.10 Abstract land Details in ha.

Land Details	**SC**	**ST**	**OBC/Others**	**TOTAL**
Marginal Farmer Land	**204.00**	**52.61**	**559.13**	**815.74**
Small Farmer Land	**546.12**	**94.01**	**1479.26**	**2119.39**
Large Farmer Land	**550.78**	**232.59**	**949.51**	**1732.87**
TOTAL Land	**1300.90**	**379.21**	**2987.89**	**4668.00**

Table 2.2 Development indicators

S. No.	Development Indicators	State	Project Area
1	Per capita income (Rs.)	16260	8550
2	Poverty ratio	0.22	25
3	Literacy (%)	67.14	67.20
4	Sex Ratio	926	924
5	infant mortality rate	1.0	1.0
6	maternal mortality ratio	1.0	1.1

The table indicates poor socio economic conditions.

Table – 2.3 Land Use

Table – 2.3.1 Land use pattern Village wise (in ha.)

Name of Gram Panchayat	Name of Villages Covered	Arable land			Non arable land				Forest land	Total
					Govt. land		Panchyat land			
		Rainfed	Irrigated	Fallow	Treatable	Untreatable	Community	Pasture		
Suliyawas	Khatiwas	271	48	0	0	20	0	16	50	357
	Godiyawas	218	63	0	0	15	0	19	0	252
	Suliyawas	945	175	0	0	26	0	50	0	1021
Mundiawas	Amarpura	253	0	0	0	16	0	2	4	275
Roopgarh	Tulikacharanwas	130	23	0	0	14	0	10	9	163
	Roopgarh	260	42	0	0	25	0	0	68	353
	Motipura	167	30	0	0	16	0	28	68	279
	Nayabas	394	58	0	0	34	0	125	0	553
	Tehat	133	20	0	0	16	0	8	0	157
Ralawata	Basri kalan	493	0	0	0	9	0	16	0	518
	Ralawata	291	0	0	0	13	0	0	284	588
	Jeenmata	118	0	0	0	9	0	3	58	188
	Nimera	122	0	0	0	60	0	0	107	289
	Tanbakhupura	68	0	0	0	40	0	0	30	138
	Jeenwas	123	21	0	0	8	0	3	70	204
Dudhwa	Udaipura	116	19	0	0	9	0	6	0	131
	Mohanpura	79	0	0	0	3	0	5	0	87
Khandelsar	Maksoodpura	446	94	0	0	13	0	2	0	461
	Chihala	41	18	0	0	1	0	2	0	44
Total		4668	611	0	0	347	0	295	748	6058

Reference:- Revenue record of Tehsil

Table 2.3.2 Land Use pattern

Land Use	Total area (in ha)					
	Private	Panchayat	Government		Community	Total
			treatable	untreatable		
Agriculture Land	4668	-	-	-	-	4668
Fallow	-	-	-	-	-	0
Cultivated Rainfed	4668	-	-	-	-	4668
Cultivated irrigated	611	-	-	-	-	611
Net Sown Area	4057	-	-	-	-	4057
Net Area sown more than once	611	-	-	-	-	611
Forest Land	-	-	-	748	-	748
Waste Land	-	-	-	-		0
Pastures	-	295	-	-	-	295
Others	-	-	-	347	-	347
Total	**4668**	**295**	**0**	**1186**	**0**	**5447**

The project area has 0 ha of cultivable wasteland 0 ha of fallow land 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 10.08%

0 ha. (0% of the project area)is under wastelands and can be brought under vegetative cover, with reasonable effort .Activities like Earthen check dams, Vegetative filter strip, V-ditches, staggered trenches ,WHS (Johad) Afforestation of wastelands and Pasture development will be taken up on these lands

Pasture development the land use table shows that there is 295 hectare pasture land (4.86%) 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	Varieties	Area (ha.)	Production (tons)	Productivity (Kg/ha.)
Rainfed	**Kharif**	Bajara	Desi/ Local	3144	2587.51	823
		Guar	Desi/ Local	503	172.02	342
		Cowpea	Desi/ Local	376	165.50	302
		Moong	Desi/ Local	310	112.69	237
		Groundnut	Desi/ Local	335	738.24	1649
Area of Kharif crops				**4668**		
Irrigated	**Rabi**	Wheat	Desi/ Local	249	642.66	2581
		Barley	Desi/ Local	107	230.69	2156
		Gram	Desi/ Local	139	125.79	905
		Mustard	Desi/ Local	116	104.63	902
Area of Rabi crops				**611**		

Table 2.4.b Abstract of cropped Area (ha) village wise

S.No.	Name of Villages	Area under Single crop	Area under Double crop	Area under Multiple crop	Total
1.	Khatiwas	271	48	0	319
2.	Godiyawas	218	63	0	281
3.	Suliyawas	963	175	0	1138
4.	Amarpura	253	0	0	253
5.	Tuli ka charanwas	130	23	0	153
6.	Roopgarh	260	42	0	302
7.	Motipura	167	30	0	197
8.	Nayabas	394	58	0	452
9.	Tehat	133	20	0	153
10.	Basri kalan	493	0	0	493
11.	Ralawata	291	0	0	291
12.	Jeenmata	118	0	0	118
13.	Nimera	122	0	0	122
14.	Tanbakhupura	68	0	0	68
15.	Jeenwas	123	21	0	144
16.	Udaipura	116	19	0	135
17.	Mohanpura	79	0	0	79
18.	Maksoodpura	446	94	0	540
19.	Chihala	23	18	0	41
	Total Area	**4668**	**611**	**0**	**5279**

Table : Area covered by the crops Season wise & village wise

Name of Villages Covered	Kharif Season						Rabi Season				
	Bajara	Guar	Cowpea	Mung	Groundnut	**Total Area**	Wheat	Barley	Gram	Mustard	**Total Area**
Khatiwas	157	26	34	7	47	271	15	11	10	12	48
Godiyawas	98	29	25	3	63	218	25	14	18	6	63
Suliyawas	842	34	13	2	72	963	76	26	38	35	175
Amarpura	225	7	17	4	0	253	0	0	0	0	0
Tuli ka charanwas	48	28	25	11	18	130	11	4	2	6	23
Roopgarh	143	49	45	8	15	260	17	12	6	7	42
Motipura	55	28	43	18	23	167	12	4	3	11	30
Nayabas	286	43	35	17	13	394	19	15	11	13	58
Tehat	47	14	17	21	34	133	11	5	2	2	20
Basri kalan	344	30	11	108	0	493	0	0	0	0	0
Ralawata	252	13	7	19	0	291	0	0	0	0	0
Jeenmata	86	7	5	20	0	118	0	0	0	0	0
Nimera	87	12	3	20	0	122	0	0	0	0	0
Tanbakhupura	58	2	3	5	0	68	0	0	0	0	0
Jeenwas	50	25	17	10	21	123	6	3	5	7	21
Udaipura	52	15	24	22	3	116	8	6	4	1	19
Mohanpura	42	21	5	11	0	79	0	0	0	0	0
Maksoodpura	260	116	42	3	25	446	39	5	39	11	94
Chihala	12	4	5	1	1	23	10	2	1	5	18
Total Area	3144	503	376	310	335	**4668**	249	107	139	116	**611**

****Write for each crop:** In watershed area most of the kharif crops are Bajra, Guar, Cowpea & mong during 2010-11, Bajra crop cultivated under area of 51.89%, Guar 8.30%, Cowpea 6.20%, Groundnut 5.52% & mong 5.11% . During kharif Season most of the crops are grown under rain fed condition with assured life irrigation. During Rabi dominant crops are Wheat, Barley, Gram, Mustard &

onion. Area sown under Wheat 4.11%, Gram 2.29 %, & Mustard 1.19%. Methi crops are sown in very smallest area. For fodder crops, Lucerne sown during the rabi season and during Zaid Chari Bajra sown by small Farmers those having irrigation facilities.

Most of the farmers are using local varieties of kharif & rabi crops. Where as recommended varieties of Bajra are HHB-67, RHB-30, MH-179 & ICMH-356. These varieties are resistant to ergot disease and gives average 18-22 Q./ ha. in short duration. Mong varieties are K-851, RMG-62 Which produce 8-10 Q./ha. within 60-80 days. RS-9 cultivar of cowpea mostly recommended for grain and fodder purpose which produced 6-8 Q/ha. Variety of Clusterbean (RGC-197) recommended for mixed cropping with bajra and gives 10-12 Q/ha. yield. In watershed area semi Spread (RSB-87) and Spreading cultivar (RS-1, MA-10) of Groundnut are recommended. During rabi season Wheat, Cultivars are Raj-3077, Raj-3765 and WH-147. While Barley varieties are RD-31, RD-2052 and Mustard (Pusa Bold, Bio-902 (Pusa Jai Kisan), RH-30. Gram (C-235, Kiran), Methi (RMT-1) Recommended for this area and farmers can be increase production.

Crop Rotation in Project Area:-

Bajra	-	*Gram*	
Bajra	-	*Mustard*	
Til	-	*Muatard*	
Fallow	-	*Wheat*	
Bajra	-	*Fallow*	
Guar	-	*Wheat*	
Cowpea	-	*Wheat*	
mong	-	*Mustard*	
Guar	-	*Methi*	
cowpea	-	*Barley*	
Bajra	-	*Fallow*	- *Onion*

The table shows that only 611 ha. is (10.08%) 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 (SIKAR)	Project Area (Ha.)
Bajra	886	636	760	863	823
Guar	-	281	332	357	342
Cowpea	-	315	307	311	302
Moong	-	277	310	251	237
Groundnut	1007	1481	1706	1728	1649
Wheat	2619	2969	2776	2801	2581
Barley	1348	2586	2382	2382	2156
Gram	895	629	990	1007	905
Mustard	1159	1205	1113	998	902
Methi	-	1141	1040	974	887

Reference :- Department of Agriculture, Sikar 2011-12

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 DESI of Bajra, whereas the recommended varieties like **Pioneer 86m 86, J.K. 26, Pro. Agro 94.44,** provide **35-40 Qt/ha.** Yield.
- Lack of Availability of good quality seeds of desired crop and variety in adequate quantities and time to the farmers.

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	Village	Area	Species	Varieties	Recommended varieties	Production (Tons/ha.)
Horticulture	Suliyawas	0.5	Aanwla	Desi	N-7, Chekaeya	Under growth
	Khatiwas	1.5	Annar	Sinduri	Sinduri	Under growth
	Suliyawas	3.5	Citrus	Desi	Baramasi	Under growth
	Suliyawas	0.5	Ber	Desi	Gola, Sev	1.25
Vegetables	Suliyawas, Khatiwas	01	Onion	Desi	Dark red, Nasik-53	7.47
Floriculture		-	-	-	-	-
Medicinal Plants	Suliyawas, Khatiwas	2	Methi	Desi	RMT-1	1.58

Table 2.6 Land holding Pattern in project area

Type of Farmer	Total Households	Land holding (ha) irrigation source wise			Land holding (ha)Social group wise				
		Irrigated (source)	Rainfed	Total	General	SC	ST	OBC	BPL
(i)Large farmer	191	226.85	1732.87	1959.72	474.75	550.78	232.59	474.76	-
(ii) Small farmer	1308	277.40	2119.39	2396.79	739.00	546.12	94.01	740.26	-
(iii) Marginal farmer	1630	106.75	815.74	922.49	277.45	204.00	52.60	281.59	-
(iv) Landless person	262	-	-	-	-	-	-	-	-
(V)No. of BPL households	240	-	-	-	-	-	-	-	-
Total	3631	611	4668	5279	1491.30	1300.90	379.20	4668	-

Reference:- As per survey record

62.87% land holdings belong to small and marginal farmers who own 2935.13 ha. of total cultivated area. Horticulture/vegetables could be more economical to Small and marginal farmers with irrigation source. For large farmers with no irrigation facility Horticulture/vegetables will be promoted in a part of land with farm pond/Tanka construction.

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

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

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

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

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

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

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

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

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

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

2.7 : - Livestock status animals/ milk production/ average yield. (village wise.)

Table 2.7.1 Livestock animals status

Name of Gram Panchayat	**Village**	**Indigenous Cow**	**Hybrid cow**	**Buffalo**	**Sheep**	**Goat**	**Camel**	**Total**
Suliyawas	Khatiwas	294	175	388	330	648	14	1849
	Godiyawas	250	145	305	261	665	8	1634
	Suliyawas	965	418	793	1082	1097	24	4379
Mundiawas	Amarpura	108	70	115	305	250	2	850
Roopgarh	Tuli ka charanwas	208	69	216	440	576	5	1514
	Roopgarh	191	70	295	520	725	6	1807
	Motipura	112	858	173	269	331	0	1734
	Nayabas	45	29	122	163	408	1	768
	Tehat	94	81	427	165	758	0	1525
Ralawata	Basri kalan	158	0	174	227	1002	6	1567
	Ralawata	103	0	64	22	650	6	845
	Jeenmata	58	182	51	40	443	1	775
	Nimera	79	0	122	42	561	2	806
	Tanbakhupura	22	0	31	66	197	0	316
	Jeenwas	430	209	627	736	751	9	2762
Dudhwa	Udaipura	16	30	80	2256	300	8	2690
	Mohanpura	26	40	105	280	425	10	886
Khandelsar	Maksoodpura	18	53	100	138	184	1	494
	Chihala	101	160	474	164	986	2	1887
Total		**3278**	**2589**	**4662**	**7506**	**10957**	**105**	**29088**

Table 2.7.2 Livestock Milk Production status

Name of Gram Panchayat	Village	Indigenous Cow	Hybrid cow	Buffalo	Goat	Total
Suliyawas	Khatiwas	**85**	**92**	**160**	**530**	**867**
	Godiyawas	**70**	**70**	**110**	**540**	**790**
	Suliyawas	**600**	**208**	**360**	**1530**	**2698**
Mundiawas	Amarpura	**40**	**30**	**50**	**155**	**275**
Roopgarh	Tuli ka charanwas	**78**	**27**	**84**	**490**	**679**
	Roopgarh	**80**	**26**	**138**	**570**	**814**
	Motipura	**45**	**38**	**82**	**270**	**435**
	Nayabas	**18**	**14**	**68**	**295**	**395**
	Tehat	**38**	**20**	**200**	**520**	**778**
Ralawata	Basri kalan	**45**	**0**	**55**	**480**	**580**
	Ralawata	**38**	**0**	**23**	**418**	**479**
	Jeenmata	**18**	**75**	**20**	**380**	**493**
	Nimera	**31**	**0**	**51**	**480**	**562**
	Tanbakhupura	**8**	**0**	**12**	**145**	**165**
	Jeenwas	**195**	**80**	**395**	**638**	**1308**
Dudhwa	Udaipura	**5**	**9**	**32**	**235**	**281**
	Mohanpura	**10**	**17**	**80**	**310**	**417**
Khandelsar	Maksoodpura	**40**	**70**	**220**	**780**	**1110**
	Chihala	**18**	**0**	**15**	**325**	**358**
Total		**1462**	**776**	**2155**	**9091**	**13484**
Milk production/ animal (kg. milk/lactation)		**297.40**	**2214.0**	**840.0**	**54.0**	
Total production(t/lactation)		**434.80**	**1718.06**	**1810.20**	**490.91**	

Eq. Cow unit :-

1 cow = 1 Indigenous cow
1.5 cow = 1 Hybrid cow
1.5 cow = 1 buffalo
1 cow = 4 goat/sheep
4 cow = 1 camel

Table 2.7.3 Livestock Status-Animals/milk production / average yield.

S. No.	Description of animals	Population in No.	Yield(milk/ mutton/Wool)	Equal. cow units		Total DM requirement (in M.T.)
1	Cows	5867	1917.5 Kg milk/ lactation		**Dry matter requirement per year (7Kg Per Animal.)**	
A	Indigenous	3278	297.40 Kg milk/ lactation	1462		873.54
B	Hybrid	2589	2214.0 Kg milk/ lactation	3884		992.36
2	Buffaloes	4662	840.0 Kg milk/ lactation	6993		1786.71
3	Goat	10957	54.0 Kg milk/ lactation	2739		699.81
4	Sheep	7506	700 Kg wool/year	1877		479.57
5	Camel	105	72 Kg wool/ year	420		107.31
6	Poultry	-	-	-		-
7	Piggery	-	-	-		-
Total		**29097**		**17375**		**4439.31**

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 2.8.1 Existing area under fodder (ha)

S.No	Item	Unit	Area/Quantity
1	Existing Cultivable area under Fodder	ha.	90
2	Production of Green fodder	Tonns/year	**4100**
3	Production of Dry fodder	Tonns/ Year	**7053.50**
4	Area under Pastures	Ha	295
5	Production of fodder from Pasture	Tonns/year	**88.5**
6	Existing area under Fuel wood	ha.	0
7	Supplementary feed	Tonns/year	**3170.93**
8	Silage Pits	No	0
9	Available of fodder (total of column 2,3,5,7) Requirement of fodder (Table no. 2.7.2)	Tons Tons	14412.93 44393.10
10	Deficiency of fodder	Tons	-29980.17

The table above shows there is fodder deficiency (Requirement is 44393.10 tons and availability 14412.93 tons, so that deficiency is 29980.17 tons)

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: - So that 75 ha. Area of pasture has been taken in to the project to develop.
- And reduction in large number of livestock production through replacement by few but Hybrid animals & through make availability of Hybreed male animals in project area.

Table – 2.8.2 Existing Cultivable area under Green Fodder, Production of Dry Fodder, Supplementary feeds and Fodder from Pasture (tons):-

Green Fodder Crops	Area (in ha)	Yield (qt /ha)	**Total green fodder**	Crops	Production	**Dry Fodder Yield (T/y)**	**Supplementary Feeds**	**Production of Fodder from Pasture**
Lucern	40	400	16000	Bajara	3144x1.5=	4716	(17375) X (0.500 kg/day) X (365 days) **= 3170.93 t/yr.**	295 ha. X 3 qt./ha. **= 88.5 t/yr.**
Chari Bajra	50	500	25000	Guar	503x1=	503		
TOTAL	90	-	**41000 qt/year or 4100 tons/year**	Cowpea	376x1=	376		
				Mung	310x1=	310		
				Groundnut	335x1.5=	502.25		
				Wheat	249x1.5=	373.5		
				Barley	107x1.25=	133.75		
				Gram	139x1=	139		
				Total		**7053.50**		

Table 2.9 Agriculture implements Status Village wise (in Nos.)

S.N.O	Implements	Tractor	Sprayers manual/power	Cultivators/ Harrows	Seed drill	Any Other
1	Khatiwas	**20**	**3**	**20**	**15**	**7Jeep, 2Track**
2	Godiyawas	**13**	**-**	**13**	**10**	**4Jeep, 1Pikup**
3	Suliyawas	**30**	**5**	**30**	**35**	**15Jeep, 4Pikup**
4	Amarpura	**18**	**-**	**18**	**16**	**8Jeep, 2Pikup**
5	Tuli ka charanwas	**10**	**-**	**10**	**10**	**10Jeep, 2Bus**
6	Roopgarh	**8**	**-**	**8**	**7**	**7Jeep, 3Bus**
7	Motipura	**14**	**2**	**14**	**11**	**5Jeep, 2Bus**
8	Nayabas	**5**	**-**	**5**	**3**	**9Jeep**
9	Tehat	**20**	**3**	**20**	**20**	**6Jeep**
10	Basri kalan	**9**	**-**	**9**	**7**	**20Bus**
11	Ralawata	**4**	**-**	**4**	**4**	**5Jeep**
12	Jeenmata	**1**	**-**	**1**	**1**	**9Jeep, 2Bus**
13	Nimera	**3**	**-**	**3**	**3**	**4Jeep**
14	Tanbakhupura	**2**	**-**	**2**	**2**	**2Jeep**
15	Jeenwas	**10**	**2**	**10**	**11**	**13Jeep, 1JCB**
16	Udaipura	**10**	**2**	**10**	**10**	**4 Jeep, 2Truck**
17	Mohanpura	**12**	**1**	**12**	**12**	**7 Jeep**
18	Maksoodpura	**8**	**2**	**8**	**9**	**5 Jeep**
19	Chihala	**25**	**-**	**25**	**15**	**6 Jeep**

Farm mechanization and seed banks: As discussed earlier 62.87 % land holdings belong to small and marginal farmers who own only 62.87 % of total cultivated area so owning of big farm implements by individual farmers is not economical so SHG would be promoted to buy farm implements and rent to farmer

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

Sr. no.	Name of village	Total No .of job cards	Employment Status (total m.d. generated so far.	Activity taken up so far
1.	Khatiwas	198	2970	Desilting of Nadi, BNRGSK, Cat-IV works etc.
2.	Godiyawas	150	2250	‘’
3.	Suliyawas	469	7035	‘’
4.	Amarpura	116	1740	‘’
5.	Tuli ka charanwas	190	2850	‘’
6.	Roopgarh	445	6675	‘’
7.	Motipura	240	3600	‘’
8.	Nayabas	319	4785	‘’
9.	Tehat	270	4050	‘’
10.	Basri kalan	226	3390	‘’
11.	Ralawata	149	2235	‘’
12.	Jeenmata	101	1515	‘’
13.	Nimera	125	1875	‘’
14.	Tanbakhupura	13	195	‘’
15.	Jeenwas	201	3015	‘’
16.	Udaipura	190	2850	‘’
17.	Mohanpura	220	3300	‘’
18.	Maksoodpura	219	3285	‘’
19.	Chihala	41	615	‘’
		3882	**58230**	

Table 2.11 Migration Details

Name of Gram Panchayat	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)
Suliyawas	Khatiwas	35	180	To get Better Opportunities for earnings	25 to 150	Labour work	5.83
	Godiyawas	34	180	To get Better Opportunities for earnings	25 to 150	Labour work	5.66
	Suliyawas	65	180	To get Better Opportunities for earnings	25 to 150	Labour work	10.83
Mundiawas	Amarpura	34	180	To get Better Opportunities for earnings	25 to 150	Labour work	5.66
Roopgarh	Tuli ka charanwas	34	180	To get Better Opportunities for earnings	25 to 150	Labour work	5.66
	Roopgarh	55	180	To get Better Opportunities for earnings	25 to 150	Labour work	9.16
	Motipura	12	180	To get Better Opportunities for earnings	25 to 150	Labour work	**1.99**
	Nayabas	13	180	To get Better Opportunities for earnings	25 25 to 1	Labour work	2.16
	Tehat	68	180	To get Better Opportunities for earnings	25 to 150	Labour work	11.33
Ralawata	Basri kalan	35	180	To get Better Opportunities for earnings	25 to 150	Labour work	5.83
	Ralawata	36	180	To get Better Opportunities for earnings	25 to 150	Labour work	5.99
	Jeenmata	28	180	To get Better Opportunities for earnings	25 to 150	Mason work	4.66
	Nimera	35	180	To get Better Opportunities for earnings	25 to 150	Mason work	5.83
	Tanbakhupura	05	180	To get Better Opportunities for earnings	25 to 150	Mason work	0.83
	Jeenwas	23	180	To get Better Opportunities for	25 to 150	Mason work	3.83

				earnings			
Dudhwa	Udaipura	19	180	To get Better Opportunities for earnings	25 to 150	Mason work	3.16
	Mohanpura	28	180	To get Better Opportunities for earnings	25 to 150	Mason work	4.66
Khandelsar	Maksoodpura	4	180	To get Better Opportunities for earnings	25 to 150	Mason work	0.66
	Chihala	3	180	To get Better Opportunities for earnings	25 to 150	Mason work	0.49
		566					**94.22**

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 (lacs) from the
cultivators	2808	1404
Dairying	255	127.50
Poultry	2	1.20
Piggery	0	0
Landless Agri. Labour	566	169.80
Total	**3631**	**1702.50**

Table 2.12(b) Major activities (Off Farm)

Name of activity	Households/individuals	Average annual income from the (lacs)
Artisans	32	28.80
Carpenter	30	25.50
Blacksmith	22	19.80
Leather Craft	45	42.75
Porter	42	37.80
Mason	35	35.00
Others specify (Cycle Repair ,STD, Craft etc)	39	48.75
Total	**245**	**238.40**

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 groups in project Area

S.No	Name of SHG	Village	Members	Bank With A/C no.	Activity involved	Monthly income	Fund available	Source of assistance	Training received
1	Usha	Amarpura	10	061035 RGB DANTA	Live Stock Goat, Sheep	500	4009	Watershed (IWMP)	-
2	Sushma	Amarpura	10	061026 RGB DANTA	Live stock	500	6392	Watershed (IWMP)	-
3	kamlesh - 1	Amarpura	10	5882 RGB DANTA	Live Stock Goat, Sheep	500	1600	Watershed (IWMP)	-
4	Ranu	Suliyawas	10	0161947 RGB DANTA	Live stock	200	2156	Watershed (IWMP)	-
5	Sushila- 1	Suliyawas	10	71 RGB DANTA	Live stock	500	5000	Watershed (IWMP)	-
6	Asha	Suliyawas	10	16053 RGB DANTA	Beauty parler	500	1085	Watershed (IWMP)	-
7	Bimla	Suliyawas	10	1371028 RGB DANTA	Live stock	500	26544	Watershed (IWMP)	-
8	Krishna	Maksoodpura	10	032546, RGB DANTA	Live stock	500	3000	Watershed (IWMP)	-
9	Ritiki	Maksoodpura	10	039234 , RGB DANTA	Live stock	300	2100	Watershed (IWMP)	-
10	Sushil	Khatiwas	10	32 RGB DANTA	Live stock	500	12885	Watershed (IWMP)	-
11	Indria	Khatiwas	10	6122 RGB DANTA	Live stock	500	1000	Watershed (IWMP)	-
12	Priya	Nayawas	10	6968 RGB DANTA	Live stock	500	2280	Watershed (IWMP)	-
13	Mamta	Basri kalan	10	0453396 RGB DANTA	Live stock	500	2000	Watershed (IWMP)	
14	Arvind	Tuli ka charanwas	10	92 RGB DANTA	Live stock	500	1000	Watershed (IWMP)	
15	Ashok	Tuli ka charanwas	10	48 RGB DANTA	Live stock	500	3000	Watershed (IWMP)	
16	Sanju	Roopgarh	10	36 RGB DANTA	Live stock	500	782	Watershed (IWMP)	
17	Geeta	Roopgarh	10	4347010002916 RGB DANTA	Live stock	500	782	Watershed (IWMP)	-
18	Gaytry	Roopgarh	10	6106535684 SBBJ DANTA	Live stock	500	2400	Watershed (IWMP)	-
19	Balaji	Godiyawas	10	1374007 RGB DANTA	Live stock	500	23000	Watershed (IWMP)	
20	Lakshmi	Tehet	10	21 RGB DANTA	Live stock	500	7421	Watershed (IWMP)	
21	Kanu	Tehet	10	22 RGB DANTA	Live stock	500	6191	Watershed (IWMP)	
22	Lakshmi	Motipura	10	47 RGB DANTA	Live stock	500	22639	Watershed (IWMP)	

23	Balaji SHG	Motipura	10	63 RGB DANTA	Live stock	500	15621	Watershed (IWMP)	
24	Vijay lakshmi	Basri klan	10	65 RGB DANTA	Live stock	500	2000	Watershed (IWMP)	
25	Bhawani	Udaipura	10	041225 RGB DANTA	Live stock	500	9082	Watershed (IWMP)	
26	Lakshmi	Udaipura	10	39 RGB DANTA	Live stock	500	1200	Watershed (IWMP)	
27	Lakshmi	Mohanpura	10	032263 RGB DANTA	Live stock	500	3000	Watershed (IWMP)	
28	Sheri ram	Mohanpura	10	126 RGB DANTA	Live stock	500	1200	Watershed (IWMP)	
29	Balaji	Mohanpura	12	02381 RGB DANTA	Live stock	600	19927	Watershed (IWMP)	
30	Jeen mataji	Nimera	12	024057 RGB DANTA	Live stock	600	1800	Watershed (IWMP)	
31	Bhawari	Nimera	10	026102 RGB DANTA	Live stock	500	1690	Watershed (IWMP)	
32	Santoshi Maa	Jeenmata	10	023827 RGB DANTA	Live stock	500	5000	Watershed (IWMP)	
33	Durga	Jeenmata	10	032999 RGB DANTA	Live stock	200	4000	Watershed (IWMP)	
34	Jeen mataji	Ralawata	10	03740 RGB DANTA	Live stock	500	1206	Watershed (IWMP)	
35	Vijay lakshmi	Basri kalan	10	045402 RGB DANTA	Live stock	500	3000	Watershed (IWMP)	
36	Lakshmi	CHIHALA	11	037829 RGB DANTA	Live stock	220	3460	Watershed (IWMP)	
37	Garima	Chihala	10	73 RGB DANTA	Live stock	200	4004	Watershed (IWMP)	
38	Pooja	Amarpura	5	1393817 RGB DANTA	Live stock	500	3000	Watershed (IWMP)	
39	Raj	Nayabas	10	77053 RGB DANTA	Live stock	500	9141	Watershed (IWMP)	

The table indicates existence of number of groups in the area also these need to be strengthened through trainings and financial assistance. PIA will provide trainings to strengthen & facilitate functions. Such that their livelihood can be rise

II. Technical Features

Table 2.14 Ground Water

S. No	Source	No.	Functional depth(Feet)	Dry	Area irrigated	Water availability(days)
i)	Dug wells	310	300	195	-	-
ii)	Shallow tube wells	-	-	-	-	-
iii)	Pumping sets	-	-	-	-	-
iv)	Deep Tube Wells	445	375	100	522 ha	240
	Total	**755**				

Table 2.15 Availability of drinking water

S. No	Name of the village	Drinking water requirement lack lit./day	Present availability of drinking water lack lit./day	No. of drinking water sources available	No. functional	No. requires repairs	No. defunct
1	Khatiwas	0.70	0.65	3	3	1	1
2	Godiyawas	0.55	0.45	2	2	-	-
3	Suliyawas	2.00	1.60	5	5	1	1
4	Amarpura	0.65	0.57	2	2	-	
5	Tuli ka charanwas	0.70	0.62	2	2	-	
6	Roopgarh	1.40	1.20	6	6	1	1
7	Motipura	0.42	0.34	2	2	-	-
8	Nayabas	0.45	0.40	4	4	1	1
9	Tehat	1.40	1.28	5	5	-	-
10	Basri kalan	0.65	0.58	4	4	-	-
11	Ralawata	0.62	0.55	3	3	-	-
12	Jeenmata	0.64	0.56	5	5	1	1
13	Nimera	0.53	0.45	2	2	-	-
14	Tanbakhupura	0.06	0.04	2	2	-	-
15	Jeenwas	0.82	0.75	5	5	-	-
16	Udaipura	0.70	0.65	5	5	1	1
17	Mohanpura	1.04	0.95	7	7	-	-
18	Maksoodpura	0.79	0.72	4	4	-	-
19	Chihala	0.55	0.45	2	2	-	-
Total		14.67	12.16	70	70	6	6

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 (ha.)
Groundnut, Wheat, Barley, Gram, Mustard, Methi, Onion & Vegetables	Sprinklers 522 ha.	Bunds, Straw mulch, 89 ha.	-	611

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

Table 2.17 Slope details

Slope of Watershed		
S.No.	Slope percentag	Area (ha.)
1	0 to 3%	4453
2	3 to 8%	510
3	8 to 25%	
4	> 25%	
	Total	**4963**

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

Table 2.19 Soil details

Soil Profile		
S.No.	Major Soil Classes	Area in hectares
A	Sandy loam	4963
	Soil Depth :	
B	Depth (Cms.)	Area in hectares
1	0.00 to 7.50	-
2	7.50 to 45.00	4963
3	> 45.00	-

C	Soil fertility Status	Available	Recommended
	O.C.(%) Low	0.21 %	0.50-0.75 %
	P Medium	27.0 Kg/ha.	23.0-56.0
	K medium	136.0 Kg/ha.	144-336
	Micronutrients (ppm)	Zink 0.48	Zink 0.60
		Iron 4.12	Iron 4.50
		Cu. 0.15	Cu 0.20
		Mn 1.91	Mn 2.00

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

Table 2.20 Erosion details

Erosion status in project Area				
Cause	Type of erosion	Area affected (ha)	Run off(mm/ year)	Average soil loss (Tonnes/ ha/ year)
Water erosion				
a	Sheet	2783	411	5566
b	Rill	450	411	675
c	Gully	-	-	-
Sub-Total		**4963**		
Wind erosion		3225		755
Total for project		**4963**		**20716**

The need is:

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

CHAPTER - III Proposed Development Plan:

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

A) Preparatory phase activities Capacity Building Trainings and EPA

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

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

S. No.	Name of the Gram Panchayat	Date on which *Gram Sabha* approved EPA
1	Mundiawas	29-9 -2011
2	Suliyawas	02-10-2011
3	Dudhwa	11-10-2011
4	Roopgarh	12-10 -2011
5	Ralawata	12-10-2011
6	Khandelsar	20-10-2011

Table:- Entry point activities (EPA)

S. No.	Names of village	Amount earmarked for EPA (lacks)	Entry Point Activities planned	Estimated cost (lacks)	Expenditure incurred (lacks)	Balance (lacks)	Expected outcome
1.	Amarpura GP- Mundiawas	1.53	1. Construction of GLR near Ramdevji Mandir, Sc- Mohala, **Amarpura**				People will happy & trust to our activities and creation of awareness.
			2. Const. of GLR & Laying Pipe line Near Samsan Bhumi to new constructed TW, **Amarpura**	1.02	1.00		People will happy & trust to our activities and creation of awareness.
2.	Maksoodpura GP- Khandelsar	2.94	1. Const. of Tin Shed at Samshan Ghat, **Maksoodpura**				People will happy & trust to our activities and creation of awareness.
			2. Const. of GLR near Shop of Jhabar mal –Sita ram, **Maksoodpura**	0.65	0.63694		People will happy & trust to our activities and creation of awareness.
			3. Const. of GLR, Meena's Mohala, **Maksoodpura**				People will happy & trust to our activities and creation of awareness.
			4. Const. of GLR at Yadav's Mohala, **Maksoodpura**				People will happy & trust to our activities and creation of awareness.
			5.Instalation of PVC pipe line with Const. of GLR near rameshwar kuri home , **Maksoodpura**	0.74	0.73080		People will happy & trust to our activities and creation of awareness.
			6. Const. of GLR with pipe line at balaji mandir & Meena- Jat Samsan Ghat, **Maksoodpura**	0.81	0.80360		People will happy & trust to our activities and creation of awareness.
			7.Const. of Hand Pump- Public Chook, **Chihala**	0.79	0.78471		People will happy & trust to our activities and creation of awareness.

			8. Const. of GLR & Laying Pipe line near house of Ganesh Balai- **Chihala**				
3.	Ralawata	7.42200	1. Const. of GLR & Laying Pipe line near house of sagar ji panch (East side of Basri Village)- **Basri**	0.85	0.72		
			2. Const. of GLR & Laying Pipe line – Swami's Mohala- **Basri**	0.85	0.73		
			3.Laying PVC Pipe line - Pipe line to Tanki- East side of Meena's Dhani, **Basri**				
			4. Const. of GLR with Pipe line near house of UddaRam-**Basri**				
			5. Const. of GLR with Pipe line -West side of Harijan Mohala- **Basri**				
			6. Const. of GLR with Pipe line -Near house of Bhagwana Ram- **Basri**				
			7. Const. of GLR with Pipe line - (South side) Near house of Bodu Ram-**Ralawata**				
			8. Const. of GLR with Pipe line - East Mohala- **Ralawata**				
			9. Const. of GLR with Pipe line -Near house of Chothu Ram Balai - **Ralawata**				
			10. Const. of GLR with Pipe line -Near Jagga-Balai Mohala- **Jeenmata**				
			11. Const. of GLR with Pipe line -Near house of Mangilal Kiir - **Jeenmata**				
			12. Const. of GLR with Pipe line -Near house of Maatadin Gurjar - **Tanbakhupura**				
			13. Const. of GLR with Pipe line -Near Nimera Bus Stand-**Nimera**				
			14. Const. of GLR with Pipe line -Choraha of Burdko ki Dhani- **Jeenwas**				
4.	Roopgarh	7.53	1. Const. of GLR with Pipe line -Samsan Bhumi-**Roopgarh**				
			2. Const. of Tin Shed- **Roopgarh**				
			1. Const. of GLR with Pipe line - Samsan Bhumi-**Tehet**				

			2. Const. of Tin Shed- **Tehet**				
			3. Const. of GLR with Pipe line -Samsan Bhumi near Road-**Tuli ka Charanwas**				
			1. Const. of GLR with Pipe line - Samsan Bhumi-**Motipura**				
			2. Const. of GLR with Pipe line – Talab gravel road -**Motipura**				
			1. Const. of GLR with Pipe line -Dhakarwalo ki Dhani to Jakhro ki Dhani-**Nayabas**				
			2. Const. of GLR with Pipe line -near Govt. Pri. School, Samsan Bhumi-**Nayabas**				
			3. Const. of GLR with Pipe line -(Nayabas to Pahari rout) Balaiyo ki Dhani to Khichro ki Dhani-**Nayabas**				
			4. Const. of GLR with Pipe line - Samsan Bhumi- Bhawanipura, **Nayabas**				
			5.Const. of GLR with Pipe line –Dudhwa - Kantia Road				
5.	Udaipura	1.23600	1.Const. of Tin Shed near samsan ghat-**Udaipura**	0.52	0.50649		
			2. Const. of kheli in public chock **Mohanpura**	0.54	0.53642		
			3. Const. of Kheli near samsan ghat udaipura	0.16	0.15726		
6.	Suliyawas	9.11400	1. Const. of GLR with Pipe line –South side of Ramdevji Mandir-**Suliyawas**	0.80	0.78027		
			2.const. of GLR at –*Meena's Dhani*-**Suliyawas**	0.80	0.77875		
			3. Const. of GLR with Pipe line –Near Dhani of Guman Singh, Pasture land- **Suliyawas**	0.85	0.83533		
			4. Const. of GLR with Pipe line –*Dhani of Mula Ram* - **Suliyawas**				
			5.Const. of Tin Shed-Samsan Bhumi-**Suliyawas**				
			6.Const. of GLR with Pipe line –Siyan Singh *Rajput ki Dhani* - **Suliyawas**				
			7.Const. of GLR with Pipe line –*Bhr ki Dhani* , Near House of Goma Ram- **Suliyawas**	0.85	0.84519		

			8. Const. of GLR with Pipe line- South side of Kheda ka Balaji- **Godiyawas**				
			9. Const. of GLR with Pipe line- Jeenmata Road, near house of Jodha Ram Balai - **Godiyawas**	1.02	1.06267		
			10.Const. of GLR with Pipe line at sesma ki dhani suliwas	0.97	0.95444		
			11.Const. of GLR with Pipe line in public chock **Khatiwas**	0.83	0.82565		
			12. Const. of GLR with Pipe line-Balai's Mohala- **Khatiwas**				
			13.Const. of GLR with Pipe line-Chopta- **Khatiwas**	0.83	0.79592		
			14. pipe line work from suliawas to sulo ki dhani	0.53	0.51986		

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	Mundiawas	April to July, 2011
2	Suliyawas	April to July, 2011
3	Dudhwa	April to July, 2011
4	Roopgarh	April to July, 2011
5	Ralawata	April to July, 2011
6	Khandelsar	April to July, 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 **April to July, 2011** period covering all the households and primary data on demography, Land holdings, Employment status, Community activities etc. was collected as mentioned in chapter 2.

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

Various thematic layers provided by SRSAC are :

- 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.

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

All kind of above maps are prepared by SRSAC Jodhpur and collected from there. All these maps are kept in office record at PIA level for seeing further during the execution of Project.

. CAPACITY BUILDING

Table- List of approved Training Institutes[@] for Capacity Building in the project area

1	2	3	4	5	6	7	8
S. No.	Name of Stakeholders	Name of the Training Institute	Full Address with contact no., website & e-mail	Name & Designation of the Head of Institute	Type of Institute[#]	Area(s) of specialization[$]	Accreditation details
1	PIAs						
2	WDTs						
3	UGs						
4	SHGs						
5	WCs						
6	GPs						
7	Community						
8	PM/SLNA						

Central govt. Dept./ State govt. Dept./ Autonomous Body/ Research Institutes/ Universities/ Others (pl. specify)

$ Capacity Building/ Agriculture/ Horticulture/ Animal Husbandry/ Pisciculture/ Remote Sensing/ Water conservation/ Ground water/ Forestry/ livelihoods/ entrepreneurship development/ others (pl. specify)

@ The training institutes must fulfill the conditions mentioned in the operations guidelines.

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

1	2	3	5						6						7					
S. No.	Project Stakeholders	Total no. of persons	No. of persons to be trained during project period						No. of Training to be organized during project period						No. of person days to be trained during project period					
			I year	II year	III year	IV year	V year	Total	I year	II year	III year	IV year	V year	Total	I year	II year	III year	IV year	V year	Total
1	PIAs	1	0	0	1	0	0	1	1	1	1	2	0	5	0	0	1	0	0	1
2	WDTs	4	4	4	4	4	0	4	1	1	1	2	0	5	4	4	4	8	0	20
3	UGs	50	12	12	13	13	0	50	2	2	2	4	0	10	24	24	26	52	0	126
4	SHGs	200	50	50	50	50	0	200	1	1	1	2	0	5	50	50	50	100	0	250
5	WCs	60	10	30	20	0	0	60	1	2	2	0	0	5	10	60	40	0	0	110
6	GPs	60	10	30	20	0	0	60	1	2	2	0	0	5	10	60	40	0	0	110
7	Community	1000	250	250	250	250	0	1000	2	2	2	4	0	10	500	500	500	1000	0	2500
8	EXPOSURE TOUR (INTER STATE)	100	0	0	100	0	0	100	0	0	1	0	0	1	0	0	100	0	0	100
9	EXPOSURE TOUR (INTRA STATE)	100	0	0	100	0	0	100	0	0	1	0	0	1	0	0	100	0	0	100
10	PM/SLNA	3	3	0	0	0	0	3	1	1	1	2	0	5	3	0	0	0	0	3
11	TOTAL PHYSICAL	1578	339	376	558	317	0	1578	10	12	14	16	0	52	601	698	861	1160	0	3320
12	TOTAL FINANCIAL	29.78						29.78												

Table:- Education & Communication (IEC) activities in the project area
(1% of total Project cost.) (7.44 lacs)

1	2	3	4	5						6
S. No.	Activity	Executing agency	Allocation out of 1% of total Project cost	Allocation in lacs						Expected Outcome (may quantify, wherever possible)
				I year	II year	III year	vI year	V year	Total	
1	ekMy #QVki okVj gkjofVx LVDpl ¼ipk;r lfefr, jktho xk/kh lok dUn ;k vU; ipk;r lfefr Lrjh; utnhdh ljdkjh Hkou ½A		0-20	0-75	0-74	0	0	0	1-49	
2	tyxg.k {k= xfrfof/k;k dk n'kkrk gvk POP / CLAY / WOOD / PLASTIC l cuk gvk ekMyA		0-10	0-15	0-15	0-14	0-14	0-16	0-74	
3	MhLiy ckM@lyxDlh ckM@									

4	okY ifUVx&tyxg.k xfrfof/k;k] y{;k o ikfIr vkfn dk n'kkrh gb A		0-25	0-37	0-37	0-38	0-37	0-37	1-86	
5	tyxg.k fodkl lc/kh efnr iEiyVl@fyQ yVl@pkV@ikLVj@ vkfnA									
6	Ukkjk y[ku									
7	lQyrk dh dgkuh;k dh ohfM;kxkQh@QkVkxkQh@ y?kfQYe ,o d"kdk l lk{kjkrdkj @ okrk A		0-15	0-23	0-23	0-22	0-22	0-22	1-12	
8	fucU/k o okn&fookn ifr;kfxrk									
9	jfM;k@njn'ku ij okrk o foKkiu									
10	lkLdfrd R;kgkj @ ey vkfn d volj ij in'kuh		0-10	0-15	0-15	0-15	0-15	0-14	0-74	
11	uDdM ukVd									
12	dViryh in'ku									

13	jkf= xk"Bh		0-20	0-30	0-30	0-30	0-30	0-29	1-49	
14	Hk lj{k.k llrkg									
15	pruk jyh									
16	tyxg.k fodkl dk ln'k nu oky lkLdfrd dk;Øe									
17	d"kd fnol dk vk;ktu ,o {k= Hkke.k fnol dk vk;ktu bR;kfn									
18	dy		1-00	1-95	1-94	1-19	1-18	1-18	7-44	

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

Various thematic layers provided by **SRSAC** are

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.

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 -I).The GIS based intervention map, PRA based intervention map are annexed as -II.

B) Livelihood Action Plan (LAP):

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

(i) Total project cost Rs.**744.45** Lacs.

(ii) Funds available under livelihood component is 9% of total project cost= Rs.67 Lacs.

(a) Seed money for SHGs as revolving fund = Rs.40.20 Lacs.

(minimum 60% of livelihood component)

- - No. Of SHG to be formed 60 Nos.

--- No of persons (members) in SHGs 550 Nos.

(b) Seed money for enterprising individuals = Rs.6.70 Lacs

(maximum 10% of livelihood component)

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

(c) Funds for Enterprising SHG/Federation of SHG

(Maximum 30% of Livelihood activities = 20.10 lacs

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

S.	Item	Numbers	Revolving fund/Seed money	% of LAP
1	SHG			
a	Existing	36	25000	
b	New	3	25000	60 %
	Sub Total	39		
2	Enterprising individuals	24	25000	10%
3	Enterprising SHG/Federations of SHG	3		30%
	Total	**66**		**100%**

Proposed Activities (On Farm)*		
Name of activity*	No of SHGs	Revolving fund
Fisheries		
Dairying	27	25000
Poultry		
Piggery		
Goatry	10	25000
Bee keeping		
Sericulture		
Nursery		
Maize dehusker		
Dal mill		
Oil mill		
Others (Beautyparler)	2	25000
Total	39	

Proposed Major activities (Off Farm)**		
Name of activity*	No of SHGs	Revolving fund
Artisans		
Carpenter		
Blacksmith		
Leather Craft		
Porter		
Mason		
Eco tourism		
Agro processing		
Blacksmith		
Candle making		
Dona Pattal		
Sewing / Knitting	10	25000
Tea Stall		
General Store	4	25000
Mobile repair	2	25000
Mechanic / Misc. shop		
Others (specify)		
Total		

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

S. No.	Activity Proposed	Name of Person	Category SC /ST /OBC/ Others	Project fund Revolving	Contribution
1	dEl;Vj fji;fjx	lHkk"k dekj oek@fNxuyky oek	SC	25000	0
2	dEl;Vj fji;fjx	jktohj oek@jkeyky oek	SC	25000	0
3	dEl;Vj fji;fjx	ykypUn@ Hkxokukjke	OBC	25000	0
4	ykbV fQfVx	tkfxUn dekj yf.k;k@/kMkjke oek	SC	25000	0
5	uljh	lkojey oek@fVdjke oek	SC	25000	0
6	ykbV fQfVx	foukn dekj@ukikjke oek	SC	25000	0
7	ykbV fQfVx	gfj"k dekj@uekjke oek	SC	25000	0
8	ekecrh@vxjcrh	jkfgr dekj@iUukyky oek	SC	25000	0
9	dEl;Vj fji;fjx	Jo.k dekj@jkt'k dekj oek	SC	25000	0
10	flykb	ljkt@fVdjke oek	SC	25000	0
11	flykb	ykyh@xkekjke oek	SC	25000	0
12	flykb	lUrk"k@ukujke oek	SC	25000	0
13	flykb	euh@dkukjke	OBC	25000	0
14	flykb	ljkt@iUukyky oek	SC	25000	0
15	ekVjlkbfdy lfol	efu"k dekj@igykn oek	SC	25000	0
16	flykb	X;kjlh@rylhjke oek	SC	25000	0
17	flykb	fl.kxknh@y{ehukjk;.k oek	SC	25000	0
18	flykb	lkuh@tk/kkjke oek	SC	25000	0

19	flykb	leu@ljteku oek	SC	25000	0
20	flykb	leu@lj'k	OBC	25000	0
21	flykb	'kkfUr@enu yky oek	SC	25000	0
22	flykb	lfork@jkd'k dekj	OBC	25000	0
23	flykb	NkVh@jkepUn xjok	OBC	25000	0
24	flykb	ie@ili oek	SC	25000	0

Details of enterprising SHG/federation is given below :

S.No.	Name of SHG/ SHG federation	Project Name	Project Cost in lacs	Grant in aid 50% of project cost or 2 lacs whichever is less	Bank loan
1	3		12.00	6.00	
2					
	Total		12.00	6.00	

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

C) Production Plan:

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

(iii) Total project cost Rs.744.45 Lacs.

(iv) Funds available under Production System & Micro enterprises component is 10% of total project cost= Rs 74.45 Lacs.

Proposed Activities for production system & Micro enterprises

	Name of activity*	No. of house holds	Cost of activity Per Head	WDF Per Head
A	**Production System**			
1	Fisheries			
2	Dairying	42	25000	3750
3	Poultry			
4	Piggery			
5	Goatry	35	25000	3750
6	Bee keeping			
7	Sericulture			
8	Bio fuel , Medicinal plantation			
B	**Others**			
1	**Crop Demontration**			
a	Integrated Nutrient Management	92	5000	750
b	Integrated PestManagement	77	5000	750
c	Distribution of seed / Mini kit of HYV	42	5000	750
2	Introduction of Innovative Agril Activities			
3	Distribution of Seed cum ferti. drill			
4	Distribution of other Agricultural & plant protection equipment	133	5000	750
5	Fodder production	40		
6	Agro forestry	175		
7	Agro Horticulture	69		
8	Floriculture	9		
9	Vegetable cultivation	71		
10	Organic farming (Green Manuaring, Vermicompost, Nadep Compost)	29		
11	Green House			
12	Shed net			

13	Nursery	2		
	Others (specify)			
	Total			
C	**Microenterprises**			
1	Agro processing			
2	Value Addition			
3	Fruit preservation (Chatni, Achar, Murabba, Jam, Jelly, Etc.)			
4	Flour Mill			
5	Dal mill			
6	Oil mill			
7	Maize dehusker			
8	**Para Vetnery services**			
a	AI			
b	Castration			
c	Demo. Urea Molasis			
9	Manger	650		
10	Animal Shed	20		
	Others			

Awareness Programme

-Slogan Wall Painting, Has been done.

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

Broadcasting / Telecasting Film Show

Visit- intra/ inter/ out of State/ Abroad

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

Creation Of Disease Free Zone: Livestock's health coverage

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

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

Distribution of mineral mixture. (Convergence with peer department)

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

Ensure Hygenic measures to check Zonosis.(DAH/ IWMP)

Construction of Animal Sheds with Manger and Portable Manger With accessories

Provision of Cattle Water Troughs.

Infertility Management: To ensure Livestock's Productivity

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

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

Breed Improvment: To ensure Livestock's Productivity enhancement

A.I. (Convergence with peer department)

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

Registration of bulls (Convergence with peer department)

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

Financial Incentive to the Inseminator for Calf Borns.

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

An Assistance to control Malnutrition: Protein Supplementation

Feed & fodder production enhancement.

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

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

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

GOVERNMENT OF RAJASTHAN
RURAL DEVELOPMENT & PANCHAYATI RAJ DEPARTMENT
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PIA – ASSISTANT ENGINEER
W.D. & S.C., P.S. - DANTARAMGARH

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

GEOREFERENCED KHASRA MAP

WATERSHED - SULIYAWAS (IWMP)

PANCHAYAT SAMITI - DANTARAMGARH

DISTRICT- SIKAR

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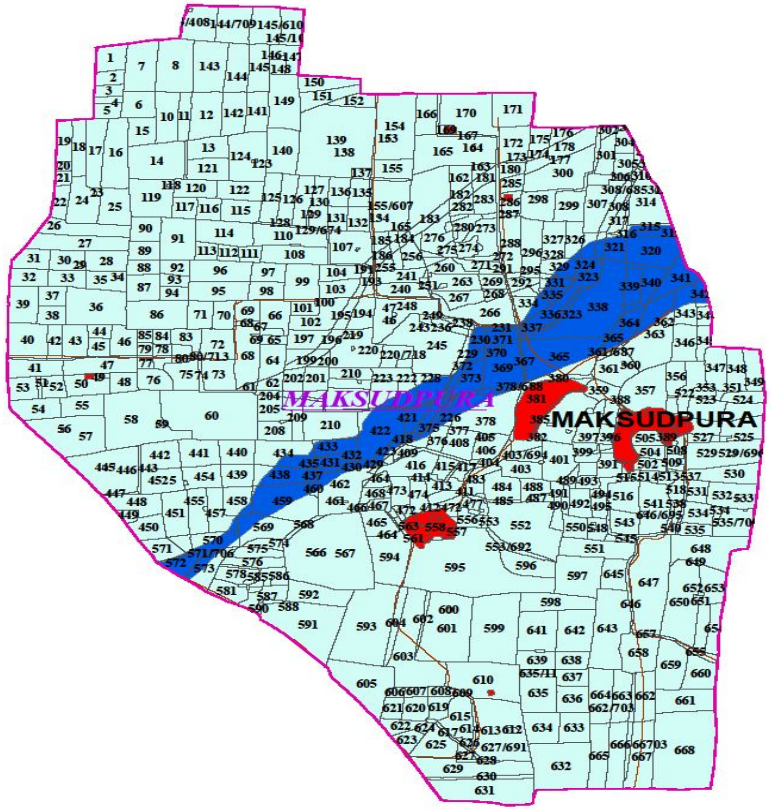

Legend

- WATERSHED OUTER
- KHASRA
- SETTLEMENT
- ROAD
- WATERBODY / RIVER
- MAKSUDPURA

STATE REMOTE SENSING APPLICATION CENTRE
Department of Science & Technology
JODHPUR

GEOREFERENCED KHASRA MAP

WATERSHED - SULIYAWAS (IWMP)

PANCHAYAT SAMITI - DANTARAMGARH

DISTRICT- SIKAR

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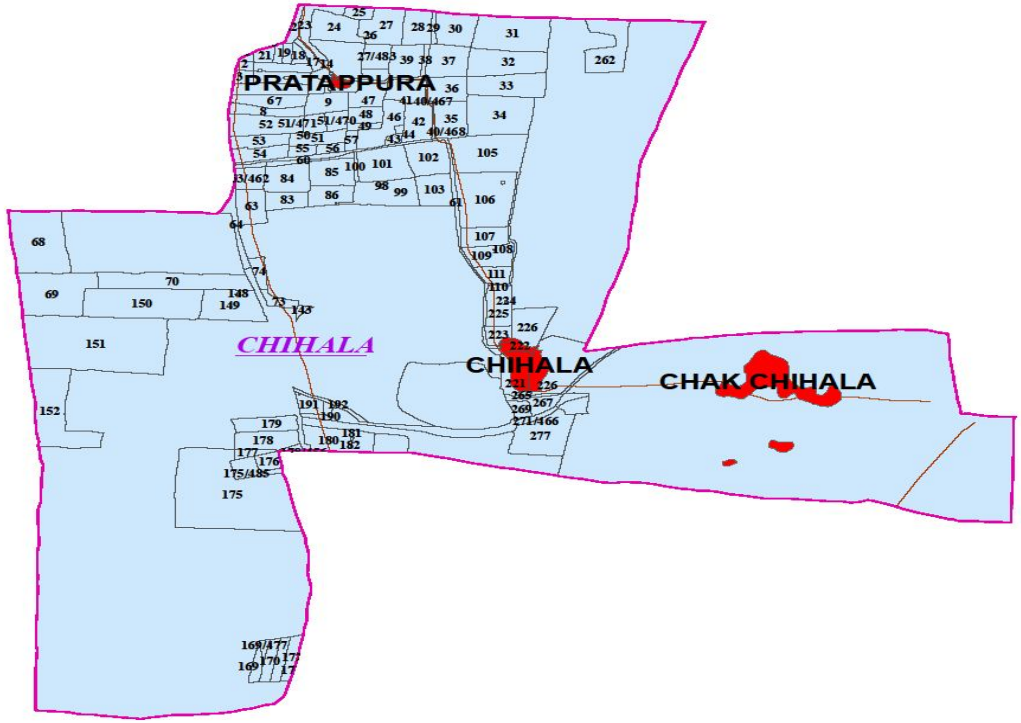


Legend

- WATERSHED OUTER
- CHIHALA
- KHASRA
- SETTLEMENT
- ROAD
- WATERBODY / RIVER

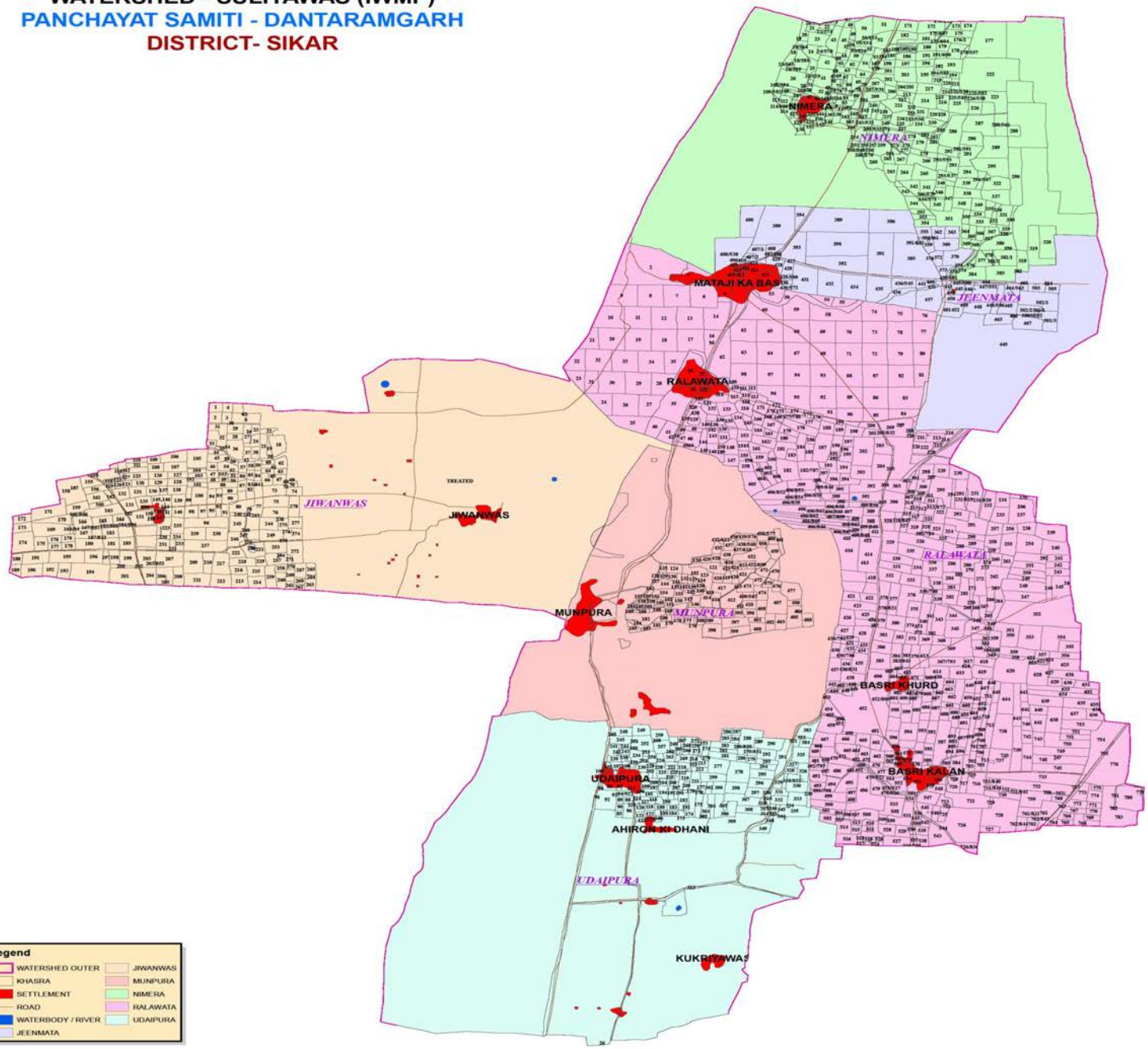
STATE REMOTE SENSING APPLICATION CENTRE
Department of Science & Technology
JODHPUR

GEOREFERENCED KHASRA MAP

WATERSHED - SULIYAWAS (IWMP)

PANCHAYAT SAMITI - DANTARAMGARH

DISTRICT- SIKAR



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GEOREFERENCED KHASRA MAP

WATERSHED - SULIYAWAS (IWMP)

PANCHAYAT SAMITI - DANTARAMGARH

DISTRICT- SIKAR

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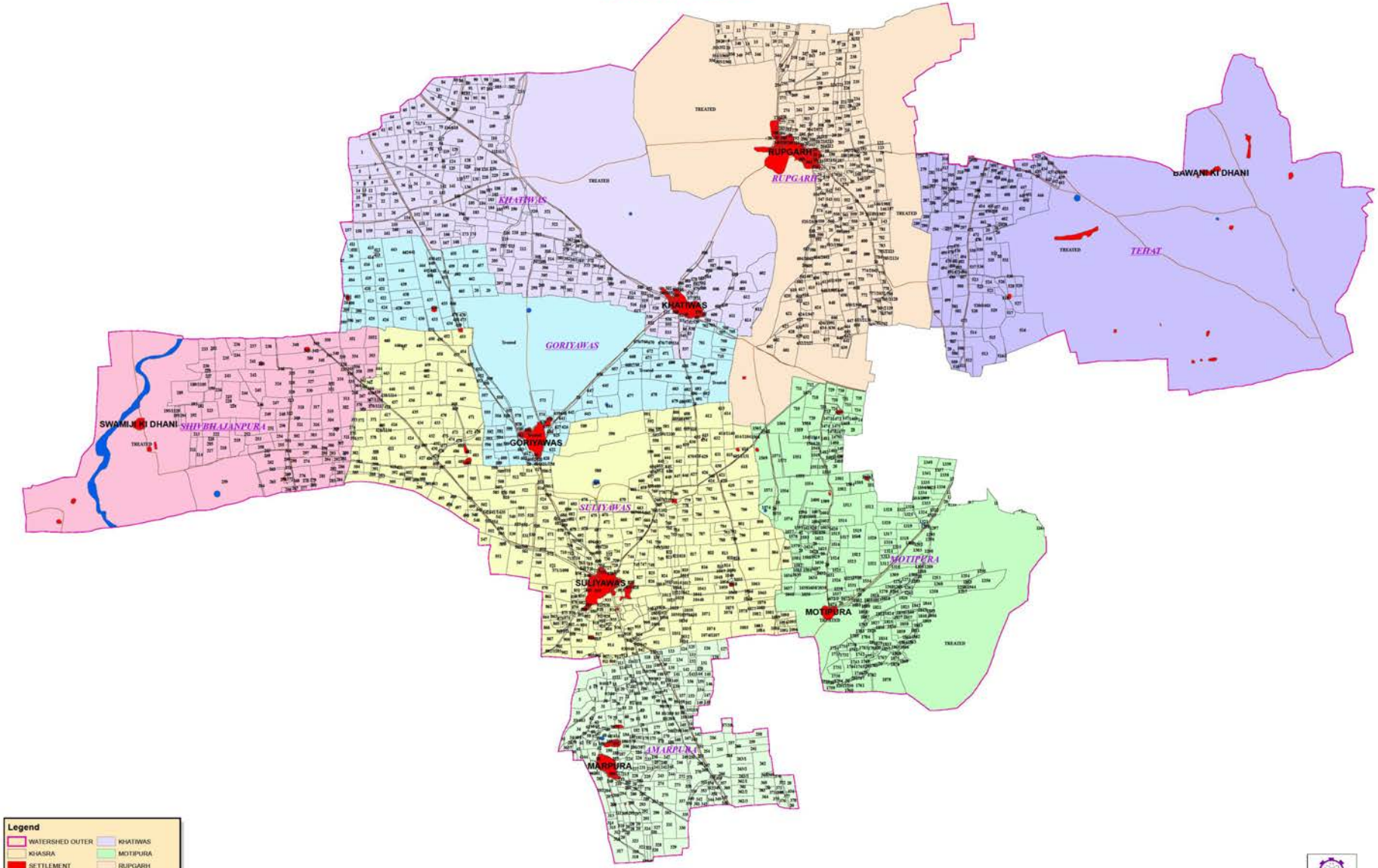

STATE REMOTE SENSING APPLICATION CENTRE
Department of Science & Technology
JODHPUR

LAND USE/ LAND COVER MAP

WATERSHED - SULIYAWAS (IWMP)

PANCHAYAT SAMITI - DANTARAMGARH

DISTRICT- SIKAR

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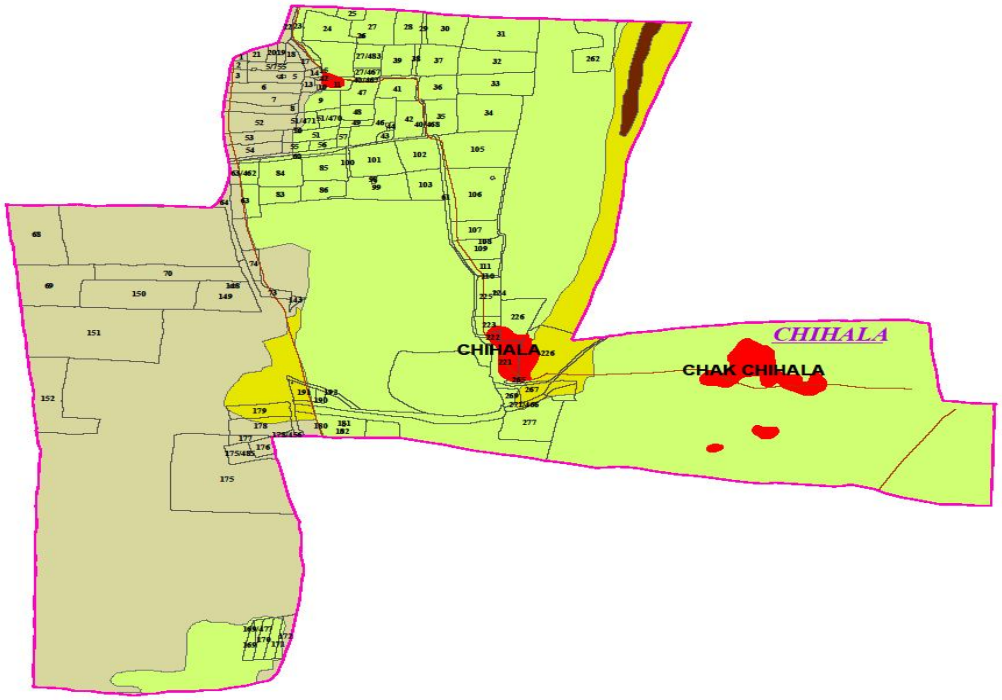

LEGEND

Watershed Outer	Forest
Settlement	Land With Scrub
Road	Ravinous
VILLAGE	River
KHASRA	Salt Affected
Agriculture	Settlement
Barren Rocky	Waterbody

STATE REMOTE SENSING APPLICATION CENTRE
Department of Science & Technology
JODHPUR

LAND USE/ LAND COVER MAP

WATERSHED - SULIYAWAS (IWMP)

PANCHAYAT SAMITI - DANTARAMGARH

DISTRICT- SIKAR

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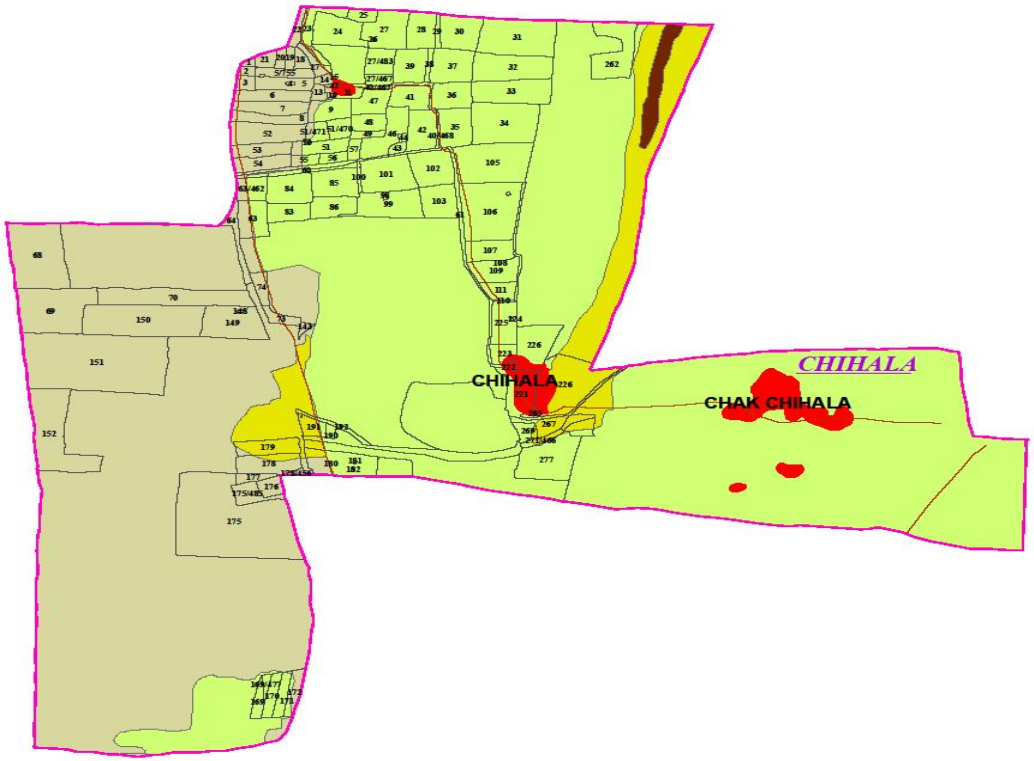


LEGEND

Watershed Outer	Forest
Settlement	Land With Scrub
Road	Ravinous
VILLAGE	River
KHASRA	Salt Affected
Agriculture	Settlement
Barren Rocky	Waterbody

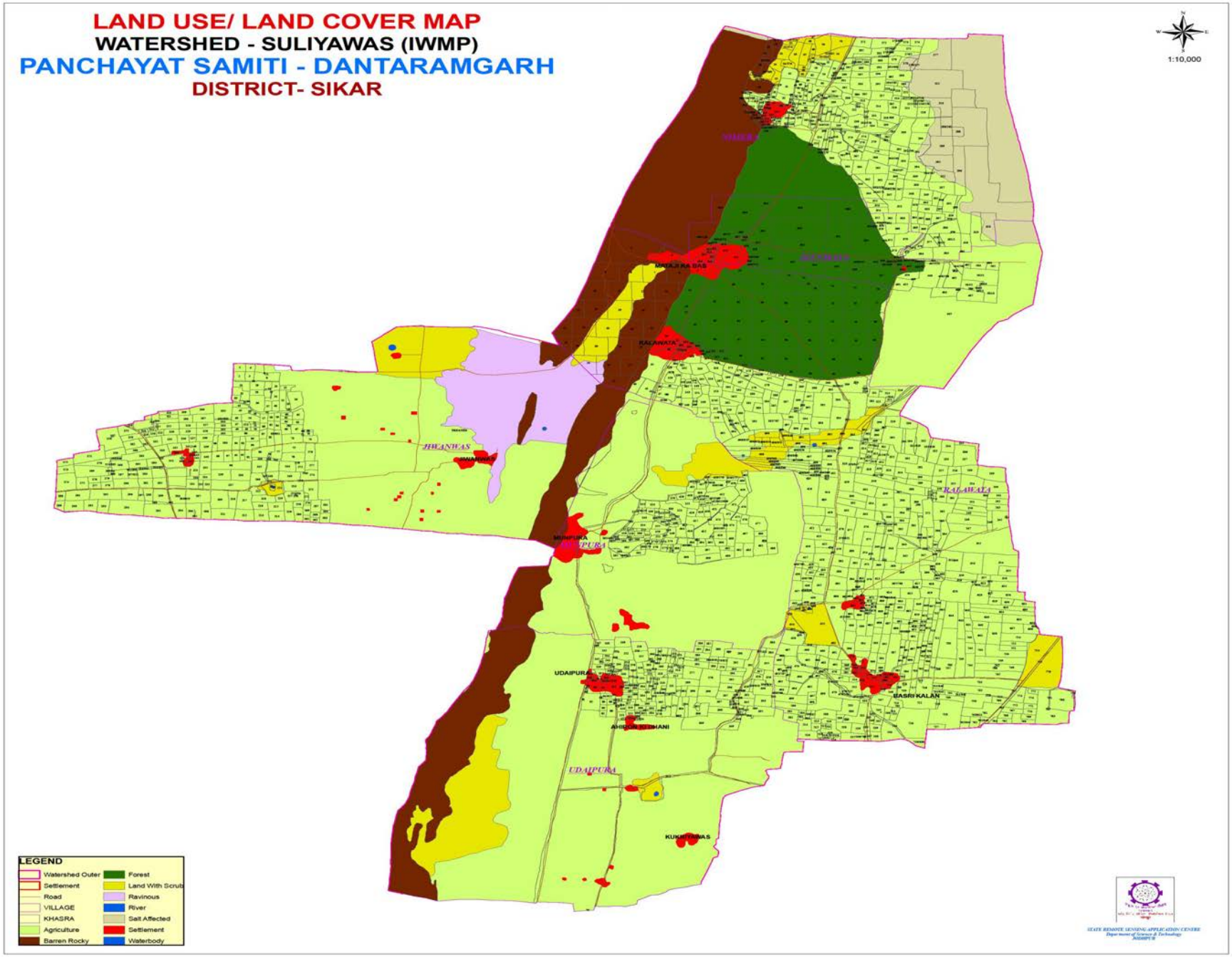
STATE REMOTE SENSING APPLICATION CENTRE
Department of Science & Technology
JODHPUR

LAND USE/ LAND COVER MAP

WATERSHED - SULIYAWAS (IWMP)

PANCHAYAT SAMITI - DANTARAMGARH

DISTRICT- SIKAR



LEGEND

Watershed Outer	Forest
Settlement	Land With Scrub
Road	Ravinous
VILLAGE	River
KHASRA	Salt Affected
Agriculture	Settlement
Barren Rocky	Waterbody

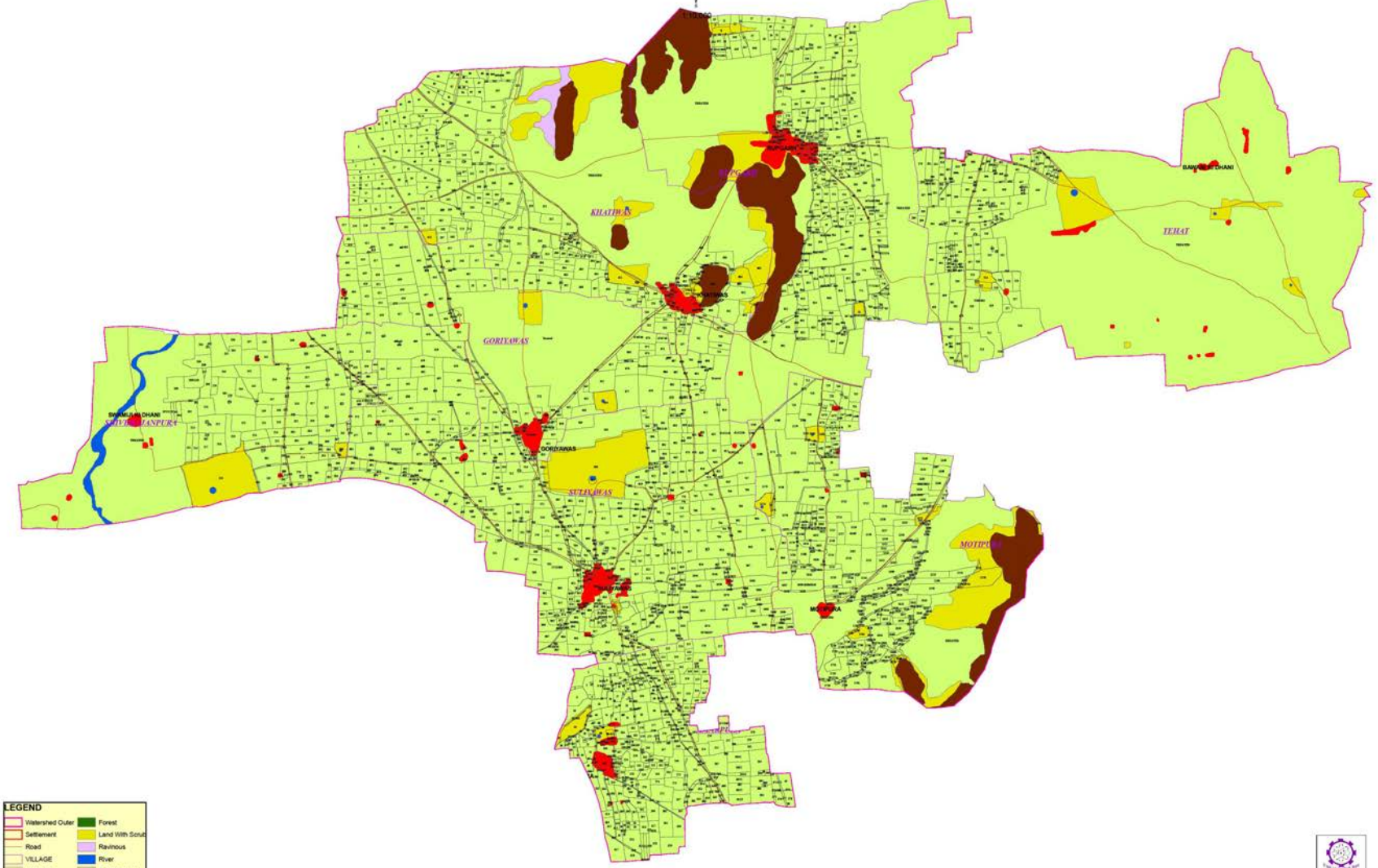
STATE REMOTE SENSING APPLICATION CENTRE

LAND USE/ LAND COVER MAP

WATERSHED - SULIYAWAS (IWMP)

PANCHAYAT SAMITI - DANTARAMGARH

DISTRICT- SIKAR



CARTOSAT- 1 + LISS III (MERGE) SATELLITE IMAGE

WATERSHED - SULIYAWAS (IWMP)

PANCHAYAT SAMITI - DANTARAMGARH

DISTRICT- SIKAR

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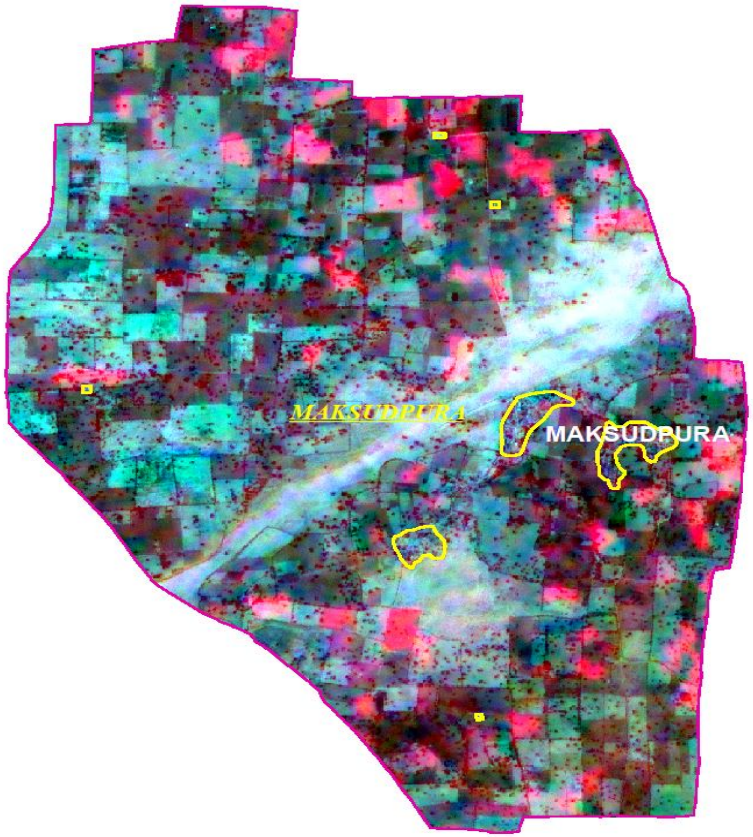

LEGEND

- WATERSHED OUTER
- SETTLEMENT
- VILLAGE BOUNDARY

STATE REMOTE SENSING APPLICATION CENTRE
Department of Science & Technology
JODHPUR

CARTOSAT- 1 + LISS III (MERGE) SATELLITE IMAGE

WATERSHED - SULIYAWAS (IWMP)

PANCHAYAT SAMITI - DANTARAMGARH

DISTRICT- SIKAR

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LEGEND

- WATERSHED OUTER
- SETTLEMENT
- VILLAGE BOUNDARY

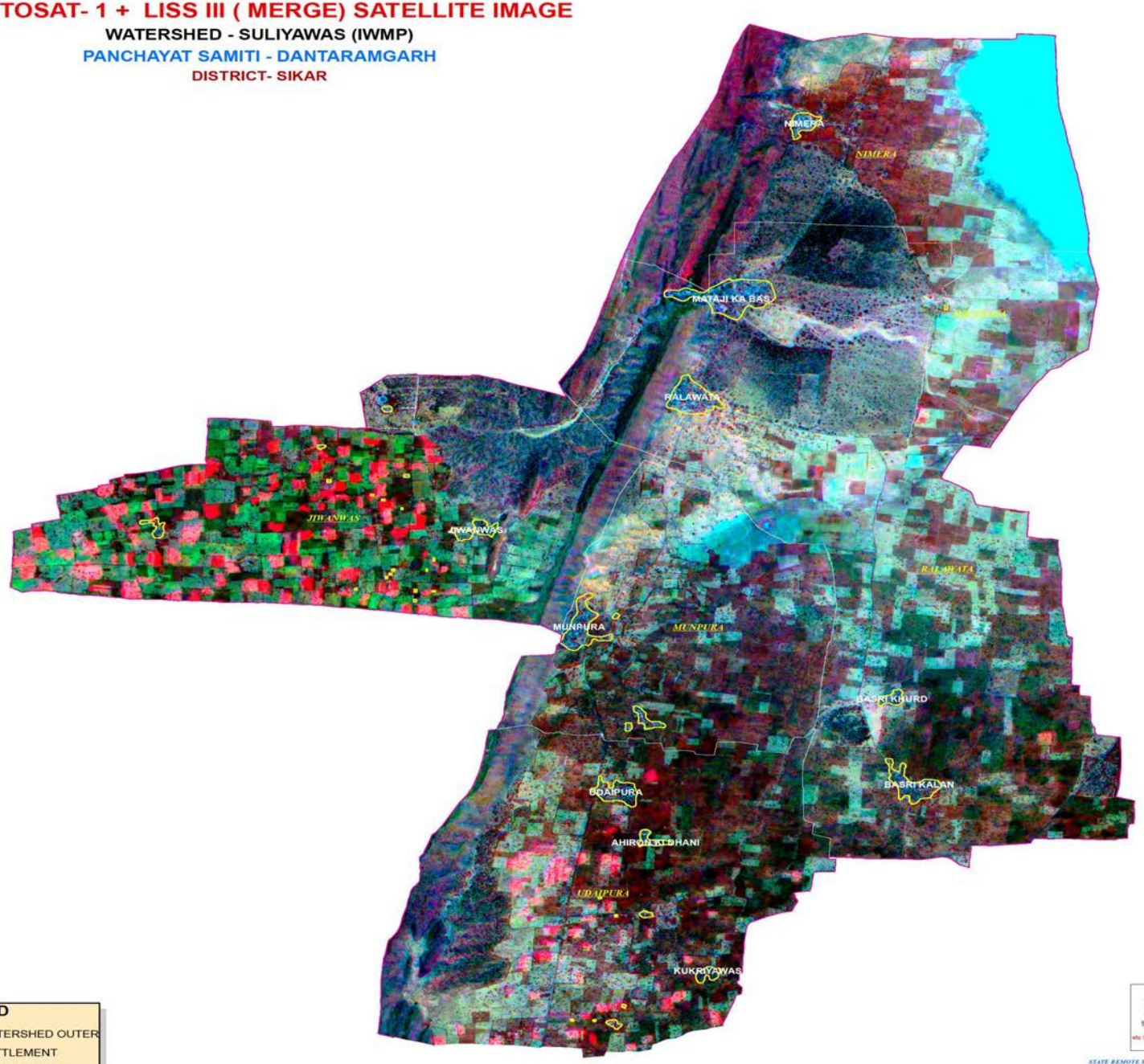
STATE REMOTE SENSING APPLICATION CENTRE
Department of Science & Technology
JODHPUR

CARTOSAT- 1 + LISS III (MERGE) SATELLITE IMAGE

WATERSHED - SULIYAWAS (IWMP)

PANCHAYAT SAMITI - DANTARAMGARH

DISTRICT- SIKAR



STATE REMOTE SENSING APPLICATION CENTRE
Department of Science & Technology
JODHPUR

CARTOSAT- 1 + LISS III (MERGE) SATELLITE IMAGE

WATERSHED - SULIYAWAS (IWMP)

PANCHAYAT SAMITI - DANTARAMGARH

DISTRICT- SIKAR

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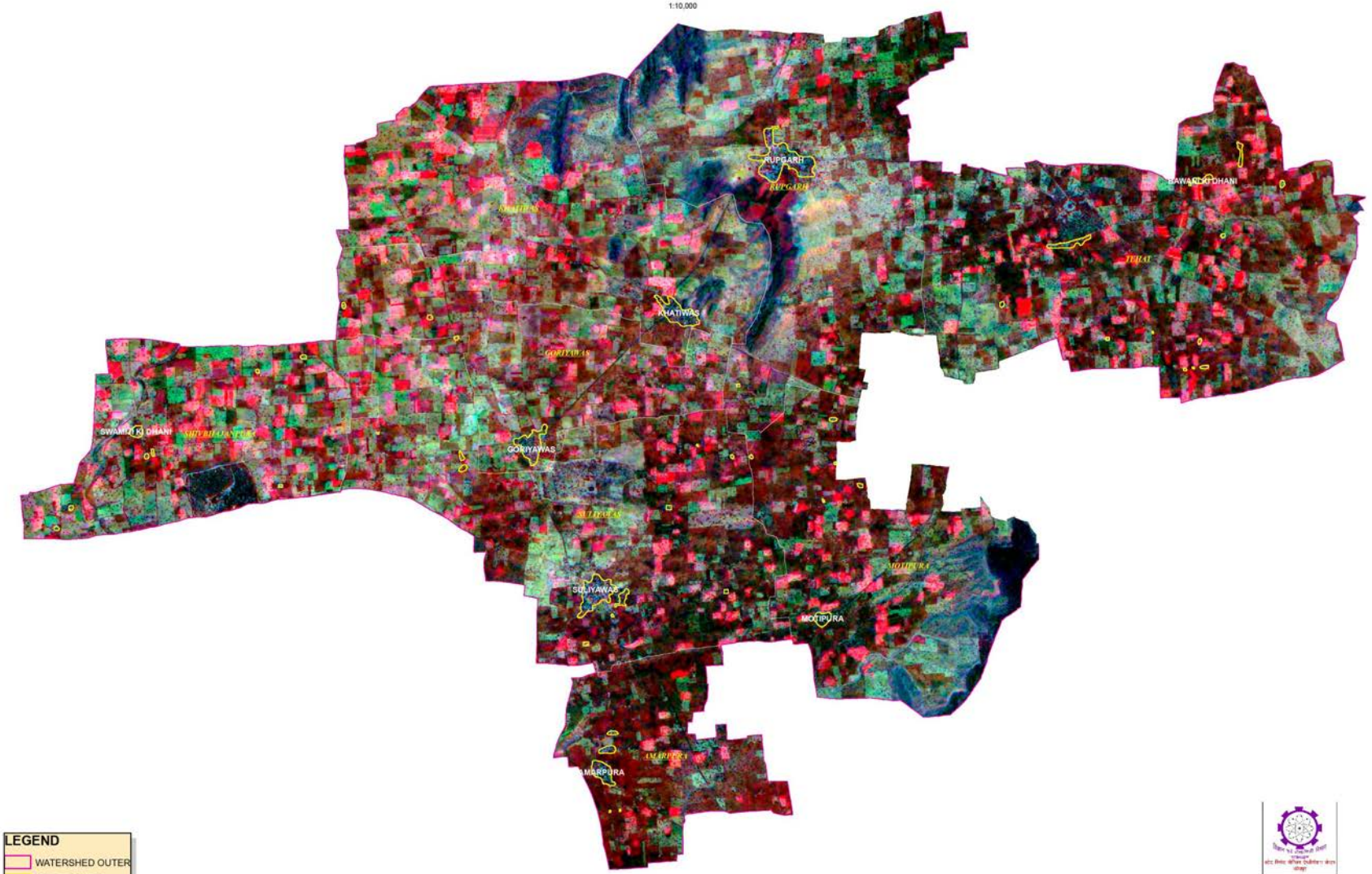
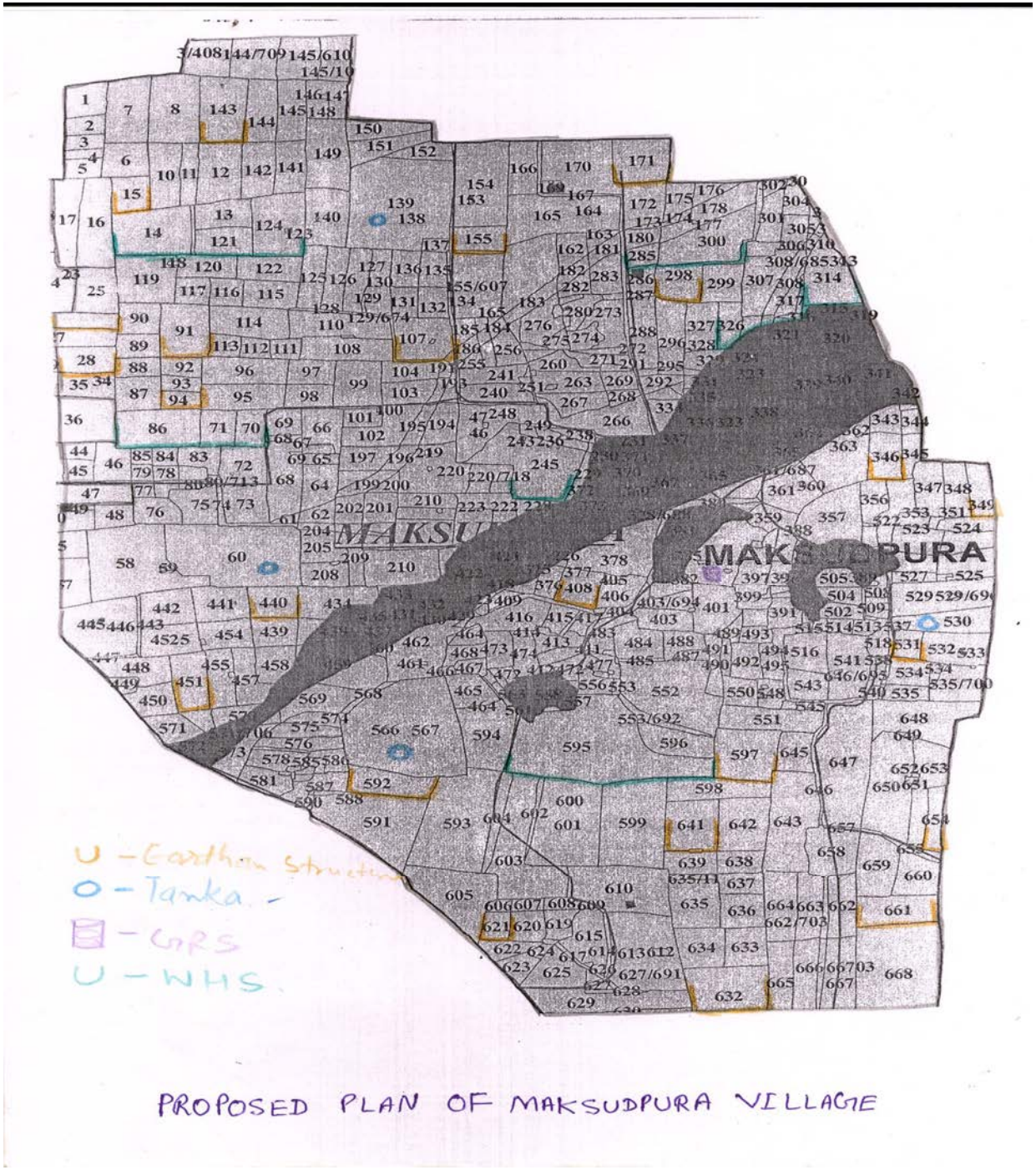


LEGEND

- WATERSHED OUTER
- SETTLEMENT
- VILLAGE BOUNDARY

STATE REMOTE SENSING APPLICATION CENTRE
Department of Science & Technology
JODHPUR



PROPOSED PLAN OF MAKSUDPURA VILLAGE

CHAPTER -IV of Project Suliyawas

PROJECT NAME : SULIYAWAS **IWMP- 14(2011-12)** **BLOCK: DANTARAMGARH** **COST OF PROJECT : 744.45**

ANNUAL ACTION PLAN THROUGH PROJECT FUND

(A)	**Preparatory phase activities capacity building trainings & EPA**								
Activity	**Unit**	**Quantity**	**Unit Cost**	**Total cost**	**Cost form Project Fund**	**Convergence Fund**	**Beneficiary Contribution**	**Qty.**	**Total Cost**
Admn.	10%			74.45	74.45	0.00	0.00	0	74.45
Monitoring	1%			7.44	7.44	0.00	0.00	0	7.44
Evaluation	1%			7.44	7.44	0.00	0.00	0	7.44
EPA	4%			29.78	29.78	0.00	0.00	0	29.78
I & CB	5%			37.22	37.22	0.00	0.00	0	37.22
DPR	1%			7.45	7.45	0.00	0.00	0	7.45
Total (A) 22%				**163.78**	**163.78**	**0.00**	**0.00**	**0**	**163.78**
(B)	**Natural resource management(56%)**								
(B) Conservation measures for arable land(private land) 5-10 % towards WDF									
Earthen Bund	No.	292		154.43	154.43	0.00	46.87	292	154.43
Tanka	No.	65	0.90	58.50	58.50	1.00	13.50	65	58.50
Khet talai	No.	0		0.00	0.00	2.00	0.00	0	0.00
Bank Stabilisation/Peripheral Bunds	Mt.	0		0.00	0.00	3.00	0.00	0	0.00
Water Harvesting Structure	No.	45		76.50	76.50	4.00	22.95	45	76.50

Conservation measures for non arable land									
Pasture Development	Ha.	70	1.65	115.46	115.46	0.00	0.00	70	115.46
V - ditch	Mt.	0		0.00	0.00	0.00	0.00	0	0.00
Water Harvesting Structure	No.	0		0.00	0.00	0.00	0.00	0	0.00
Afforestation	Ha	0		0.00	0.00	0.00	0.00	0	0.00
Drainage line treatment					0.00	0.00	0.00	0	0.00
MMS	No.	0		0.00	0.00	0.00	0.00	0	0.00
LSCD	No.	0		0.00	0.00	0.00	0.00	0	0.00
WHS	No.	0		0.00	0.00	0.00	0.00	0	0.00
Gully Plugs(ECD)	No.	0		0.00	0.00	0.00	0.00	0	0.00
Ground water recharge Structure	No.	12	1.00	12.00	12.00	0.00	0.00	12	12.00
Total (B)		**484**		**416.89**	**416.89**	**10.00**	**83.32**	**484**	**416.89**

(C) Production System (10%) 10-20% towards project Cost

Agro foresty	No.	7140	0.001	7.14	7.14	0.00	0.80	7140	7.14
Horticulture plantation	No.	4676	0.0025	11.69	11.69	0.00	1.35	4676	11.69
Vegetables	No.	3610	0.001	3.61	3.61	0.00	0.41	3610	3.61
Vermi compost	No.	23	0.300	6.90	6.90	0.00	0.77	23	6.90
Crop Demonstration	No.	200	0.050	10.00	10.00	0.00	1.50	200	10.00
Compost pit		111	0.11	12.18	12.18	0.00	1.83	111	12.18
Livestock Management		0	0	0	0.00	0.00	0.00	0	0.00
(A) Animal Health Camp	No.	40	0.05	2.00	2.00	0.00	0.24	40	2.00
(B) Improved brid animal	No.	15	0.50	7.50	7.50	0.00	0.90	15	7.50
Distribution of Mangers		748	0.01	7.48	7.48	0.00	0.84	748	7.48
Distribution of Chaff Cutter		119	0.05	5.95	5.95	0.00	0.59	119	5.95
Total (C)		**16682**		**74.45**	**74.45**	**0.0**	**9.23**	**16682**	**74.45**

(D) Livelihood System 9%									
Revolving Fund to SHG (minmun 60 % amt.)	No.	177	0.25	45.00	45.00	0.00	1.68	177	45.00
Revolving Fund to enterprising individual (maximum 10 % amount)	No.	24	0.25	6.00	6.00	0.00	0.23	24	6.00
Grant in aid to enterprising SHG or Federation of SHG individual (maximum 30 % amount)	No.	8	2.00	16.00	16.00	0.00	0.60	8	16.00
Total (D)		**209**		**67.00**	**67.00**	**0.00**	**2.51**	**209**	**67.00**
(E) Consolidation				**22.33**	22.33	0.00	0.00	0	22.33
Grand Total		**17272**		**744.45**	**744.45**	**10.00**	**94.21**	**17272**	**744.45**
(F) Convergence with Agricultue Dept.									
Sprinklers and Drip irrigation	No.	24	0.300	7.20	0	7.20	0	24	7.20
Grand Total		**17296**		**751.65**	**744.45**	**17.2**	**94.21**	**17296**	**751.65**

Assistant Engineer, PIA
WD&SC P.S. Dantaramgarh

Project Manager, WCDC
WD&SC.Distt. Sikar

G.P. ROOPGARH CHAPTER -IV

PROJECT NAME : SULIYAWAS IWMP- 14(2011-12) BLOCK: DANTARAMGARH COST OF PROJECT : 188.25

ANNUAL ACTION PLAN THROUGH PROJECT FUND

(A)	**Preparatory phase activities capacity building trainings & EPA**								
Activity	**Unit**	**Quantity**	**Unit Cost**	**Total cost**	**Cost form Project Fund**	**Convergence Fund**	**Beneficiary Contribution**	**Qty.**	**Total Cost**
Admn.	10%			18.82	18.82	0.00	0.00	0	18.82
Monitoring	1%			1.88	1.88	0.00	0.00	0	1.88
Evaluation	1%			1.88	1.88	0.00	0.00	0	1.88
EPA	4%			7.53	7.53	0.00	0.00	0	7.53
I & CB	5%			9.41	9.41	0.00	0.00	0	9.41
DPR	1%			1.89	1.89	0.00	0.00	0	1.89
Total (A) 22%				**41.41**	**41.41**	**0.00**	**0.00**	**0**	**41.41**
(B)	**Natural resource management(56%)**								
(B) Conservation measures for arable land(private land) 5-10 % towards WDF									
Earthen Bund	No.	31		16.53	16.53	0.00	1.24	31	16.53
Tanka	No.	10	0.90	9.00	9.00	0.00	0.68	10	9.00
Khet talai	No.					0.00	0.00	0	0.00
Bank Stabilisation/Peripheral Bunds	Mt.					0.00	0.00	0	0.00
Water Harvesting Structure	No.	2		3.00	3.00	0.00	0.23	2	3.00

Conservation measures for non arable land

Pasture Development	Ha.	45	1.65	73.89	73.89	0.00	0.00	45	73.89
V - ditch	Mt.					0.00	0.00	0	0.00
Water Harvesting Structure	No.					0.00	0.00	0	0.00
Afforestation	Ha					0.00	0.00	0	0.00
Drainage line treatment						0.00	0.00	0	0.00
MMS	No.					0.00	0.00	0	0.00
LSCD	No.					0.00	0.00	0	0.00
WHS	No.					0.00	0.00	0	0.00
Gully Plugs(ECD)	No.					0.00	0.00	0	0.00
Ground water recharge Structure	No.	3	1.00	3.00	3.00	0.00	0.00	3	3.00
Total (B)		**91**		**105.42**	**105.42**	**0.00**	**2.14**	**91**	**105.42**

(C) Production System (10%) 10-20% towards project Cost

Agro foresty	No.	1880	0.001	1.88	1.88	0.00	0.28	1880	1.88
Horticulture plantation	No.	1128	0.0025	2.82	2.82	0.00	0.42	1128	2.82
Vegetables	No.	870	0.001	0.87	0.87	0.00	0.13	870	0.87
Vermi compost	No.	6	0.300	1.80	1.80	0.00	0.27	6	1.80
Crop Demonstration	No.	48	0.050	2.40	2.40	0.00	0.36	48	2.40
Compost pit		30	0.11	3.28	3.28	0.00	0.49	30	3.28
Livestock Management		0	0	0	0	0	0	0	0
(A) Animal Health Camp	No.	8	0.05	0.40	0.40	0.00	0.06	8	0.40
(B) Improved brid animal	No.	5	0.50	2.50	2.50	0.00	0.38	5	2.50
Distribution of Mangers		188	0.01	1.88	1.88	0.00	0.28	188	1.88
Distribution of Chaff Cutter		20	0.05	1.00	1.00	0.00	0.15	20	1.00
Total (C)		**4183**		**18.83**	**18.83**	**0.0**	**2.82**	**4183**	**18.83**

(D) Livelihood System 9%									
Revolving Fund to SHG (minmun 60 % amt.)	No.	45	0.25	11.44	11.44	0.00	0.00	45	11.44
Revolving Fund to enterprising individual (maximum 10 % amount)	No.	6	0.25	1.50	1.50	0.00	0.00	6	1.50
Grant in aid to enterprising SHG or Federation of SHG individual (maximum 30 % amount)	No.	2	2.00	4.00	4.00	0.00	0.00	2	4.00
Total (D)		**53.00**		**16.94**	**16.94**	**0.00**	**0.00**	**53**	**16.94**
(E) Consolidation				**5.65**	**5.65**	**0.00**	**0.00**	**0**	**5.65**
Grand Total		**4302.00**		**188.25**	**188.25**	**0.00**	**4.96**	**4302**	**188.25**
(F) Convergence with Agricultue Dept.									
Sprinklers and Drip irrigation	No.	6		1.80	0	1.80	0	6	1.80
Grand Total		**4308**		**190.05**	**188.25**	**1.80**	**4.96**	**4308**	**190.05**

Assistant Engineer, PIA
WD&SC P.S Dantaramgarh

Project Manager, WCDC
WD&SC.Distt. Sikar

G.P. MUNDIYAWAS CHAPTER -IV

PROJECT NAME : SULIYAWAS IWMP- 14(2011-12) BLOCK: DANTARAMGARH COST OF PROJECT : 38.25

ANNUAL ACTION PLAN THROUGH PROJECT FUND

(A)	**Preparatory phase activities capacity building trainings & EPA**								
Activity	**Unit**	**Quantity**	**Unit Cost**	**Total cost**	**Cost form Project Fund**	**Convergence Fund**	**Beneficiary Contribution**	**Qty.**	**Total Cost**
Admn.	10%			3.83	3.83	0.00	0.00	0.00	3.83
Monitoring	1%			0.39	0.39	0.00	0.00	0.00	0.39
Evaluation	1%			0.38	0.38	0.00	0.00	0.00	0.38
EPA	4%			1.53	1.53	0.00	0.00	0.00	1.53
I & CB	5%			1.91	1.91	0.00	0.00	0.00	1.91
DPR	1%			0.38	0.38	0.00	0.00	0.00	0.38
Total (A) 22%				**8.42**	**8.42**	**0.00**	**0.00**	**0.00**	**8.42**
(B)	**Natural resource management(56%)**								
(B) Conservation measures for arable land(private land) 5-10 % towards WDF									
Earthen Bund	No.	28		13.72	13.72	0.00	1.03	28	13.72
Tanka	No.	3	0.90	2.70	2.70	0.00	0.20	3	2.70
Khet talai	No.					0.00	0.00	0	0.00
Bank Stabilisation/Peripheral Bunds	Mt.					0.00	0.00	0	0.00
Water Harvesting Structure	No.	3		4.00	4.00	0.00	0.30	3	4.00

Conservation measures for non arable land

Pasture Development	Ha.					0.00	0.00	0	0.00
V - ditch	Mt.					0.00	0.00	0	0.00
Water Harvesting Structure	No.					0.00	0.00	0	0.00
Afforestation	Ha					0.00	0.00	0	0.00
Drainage line treatment						0.00	0.00	0	0.00
MMS	No.					0.00	0.00	0	0.00
LSCD	No.					0.00	0.00	0	0.00
WHS	No.					0.00	0.00	0	0.00
Gully Plugs(ECD)	No.					0.00	0.00	0	0.00
Ground water recharge Structure	No.	1	1.00	1.00	1.00	0.00	0.00	1	1.00
Total (B)		**35**	**1.90**	**21.42**	**21.42**	**0.00**	**1.53**	**35**	**21.42**
(C)									

Production System (10%) 10-20% towards project Cost

Agro foresty	No.	380	0.001	0.38	0.38	0.00	0.06	380	0.38
Horticulture plantation	No.	228	0.0025	0.57	0.57	0.00	0.09	228	0.57
Vegetables	No.	190	0.001	0.19	0.19	0.00	0.03	190	0.19
Vermi compost	No.	1	0.300	0.30	0.30	0.00	0.05	1	0.30
Crop Demonstration	No.	11	0.050	0.55	0.55	0.00	0.08	11	0.55
Compost pit		5	0.11	0.54	0.54	0.00	0.08	5	0.54
Livestock Management		0	0	0	0	0.00	0.00	0	0.00
(A) Animal Health Camp	No.	4	0.05	0.20	0.20	0.00	0.03	4	0.20
(B) Improved brid animal	No.	1	0.50	0.50	0.50	0.00	0.08	1	0.50
Distribution of Mangers		40	0.01	0.40	0.40	0.00	0.06	40	0.40
Distribution of Chaff Cutter		4	0.05	0.20	0.20	0.00	0.03	4	0.20
Total (C)		**864**		**3.83**	**3.83**	**0.0**	**0.59**	**864**	**3.83**

(D) Livelihood System 9%									
Revolving Fund to SHG (minmun 60 % amt.)	No.	12	0.25	3.19	3.19	0.00	0.00	12	3.19
Revolving Fund to enterprising individual (maximum 10 % amount)	No.	1	0.25	0.25	0.25	0.00	0.00	1	0.25
Grant in aid to enterprising SHG or Federation of SHG individual (maximum 30 % amount)	No.					0.00	0.00	0	0.00
Total (D)		**13**		**3.44**	**3.44**	**0.00**	**0.00**	**13**	**3.44**
(E) Consolidation				**1.14**	**1.14**	**0.00**	**0.00**	**0**	**1.14**
Grand Total		**906.00**		**38.25**	**38.25**	**0.00**	**2.11**	**906**	**38.25**
(F) Convergence with Agricultue Dept.									
Sprinklers and Drip irrigation	No.	1		0.30	0	0.30	0	1	0.30
Grand Total		**907**		**43.13**	**42.83**	**0.3**	**2.11**	**933**	**46.57**

Assistant Engineer, PIA
WD&SC P.S Dantaramgarh

Project Manager, WCDC
WD&SC.Distt. Sikar

G.P. RALAWATA CHAPTER -IV

PROJECT NAME : SULIYAWAS IWMP- 14(2011-12) BLOCK: DANTARAMGARH COST OF PROJECT : 185.55

ANNUAL ACTION PLAN THROUGH PROJECT FUND

(A)	**Preparatory phase activities capacity building trainings & EPA**								
Activity	**Unit**	**Quantity**	**Unit Cost**	**Total cost**	**Cost form Project Fund**	**Convergence Fund**	**Beneficiary Contribution**	**Qty.**	**Total Cost**
Admn.	10%			18.56	18.56	0.00	0.00	0	18.56
Monitoring	1%			1.85	1.85	0.00	0.00	0	1.85
Evaluation	1%			1.85	1.85	0.00	0.00	0	1.85
EPA	4%			7.42	7.42	0.00	0.00	0	7.42
I & CB	5%			9.28	9.28	0.00	0.00	0	9.28
DPR	1%			1.86	1.86	0.00	0.00	0	1.86
Total (A) 22%				**40.82**	**40.82**	**0.00**	**0.00**	**0**	**40.82**
(B)	**Natural resource management(56%)**								
(B) Conservation measures for arable land(private land) 5-10 % towards WDF									
Earthen Bund	No.	94		45.86	45.86	0.00	3.44	94	45.86
Tanka	No.	27	0.90	24.30	24.30	1.00	1.82	27	24.30
Khet talai	No.					2.00	0.00	0	0.00
Bank Stabilisation/Peripheral Bunds	Mt.					3.00	0.00	0	0.00
Water Harvesting Structure	No.	15		21.50	21.50	4.00	1.61	15	21.50

Conservation measures for non arable land

Pasture Development	Ha.	5		9.25	9.25	0.00	0.00	5	9.25
V - ditch	Mt.					0.00	0.00	0	0.00
Water Harvesting Structure	No.					0.00	0.00	0	0.00
Afforestation	Ha					0.00	0.00	0	0.00
Drainage line treatment						0.00	0.00	0	0.00
MMS	No.					0.00	0.00	0	0.00
LSCD	No.					0.00	0.00	0	0.00
WHS	No.					0.00	0.00	0	0.00
Gully Plugs(ECD)	No.					0.00	0.00	0	0.00
Ground water recharge Structure	No.	3	1.00	3.00	3.00	0.00	0.00	3	3.00
Total (B)		**144**		**103.91**	**103.91**	**10.00**	**6.87**	**144**	**103.91**

(C) Production System (10%) 10-20% towards project Cost

Agro foresty	No.	1800	0.001	1.80	1.80	0.00	0.27	1800	1.80
Horticulture plantation	No.	1080	0.0025	2.70	2.70	0.00	0.41	1080	2.70
Vegetables	No.	900	0.001	0.90	0.90	0.00	0.14	900	0.90
Vermi compost	No.	6	0.300	1.80	1.80	0.00	0.27	6	1.80
Crop Demonstration	No.	54	0.050	2.70	2.70	0.00	0.41	54	2.70
Compost pit		26	0.11	2.86	2.86	0.00	0.43	26	2.86
Livestock Management		0	0	0	0	0.00	0.00	0	0.00
(A) Animal Health Camp	No.	8	0.05	0.40	0.40	0.00	0.06	8	0.40
(B) Improved brid animal	No.	3	0.50	1.50	1.50	0.00	0.23	3	1.50
Distribution of Mangers		190	0.01	1.90	1.90	0.00	0.29	190	1.90
Distribution of Chaff Cutter		40	0.05	2.00	2.00	0.00	0.30	40	2.00
Total (C)		**4107**		**18.56**	**18.56**	**0.0**	**2.81**	**4107**	**18.56**

(D) Livelihood System 9%									
Revolving Fund to SHG (minmun 60 % amt.)	No.	44	0.25	11.20	11.20	0.00	1.68	44	11.20
Revolving Fund to enterprising individual (maximum 10 % amount)	No.	6	0.25	1.50	1.50	0.00	0.23	6	1.50
Grant in aid to enterprising SHG or Federation of SHG individual (maximum 30 % amount)	No.	2	2.00	4.00	4.00	0.00	0.60	2	4.00
Total (D)		**52.00**		**16.70**	**16.70**	**0.00**	**2.51**	**52**	**16.70**
(E) Consolidation				**5.56**	**5.56**	**0.00**	**0.00**	**0**	**5.56**
Grand Total		**4277**		**185.55**	**185.55**	**10.00**	**9.38**	**4277**	**185.55**
(F) Convergence with Agricultue Dept.		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Sprinklers and Drip irrigation	No.	6	0.300	1.80	0	1.80	0.00	6	1.80
Grand Total		**4283**		**187.35**	**185.55**	**11.8**	**9.38**	**4283**	**187.35**

Assistant Engineer, PIA
WD&SC P.S. Dantaramgarh

Project Manager, WCDC
WD&SC.Distt Sikar

G.P. SULIYAWAS CHAPTER -IV

PROJECT NAME : SULIYAWAS IWMP- 14(2011-12) BLOCK: DANTARAMGARH COST OF PROJECT : 227.85

ANNUAL ACTION PLAN THROUGH PROJECT FUND

(A)	**Preparatory phase activities capacity building trainings & EPA**								
Activity	**Unit**	**Quantity**	**Unit Cost**	**Total cost**	**Cost form Project Fund**	**Convergence Fund**	**Beneficiary Contribution**	**Qty.**	**Total Cost**
Admn.	10%			22.78	22.78	0.00	0.00	0	22.78
Monitoring	1%			2.28	2.28	0.00	0.00	0	2.28
Evaluation	1%			2.29	2.29	0.00	0.00	0	2.29
EPA	4%			9.11	9.11	0.00	0.00	0	9.11
I & CB	5%			11.39	11.39	0.00	0.00	0	11.39
DPR	1%			2.28	2.28	0.00	0.00	0	2.28
Total (A) 22%				**50.13**	**50.13**	**0.00**	**0.00**	**0**	**50.13**
(B)	**Natural resource management(56%)**								
(B) Conservation measures for arable land(private land) 5-10 % towards WDF									
Earthen Bund	No.	92		52.28	52.28	0.00	39.21	92	52.28
Tanka	No.	15	0.90	13.50	13.50	0.00	10.13	15	13.50
Khet talai	No.					0.00	0.00	0	0.00
Bank Stabilisation/Peripheral Bunds	Mt.					0.00	0.00	0	0.00
Water Harvesting Structure	No.	13		25.50	25.50	0.00	19.13	13	25.50

Conservation measures for non arable land

Pasture Development	Ha.	20	1.65	32.32	32.32	0.00	0.00	20	32.32
V - ditch	Mt.							0	0.00
Water Harvesting Structure	No.							0	0.00
Afforestation	Ha							0	0.00
Drainage line treatment								0	0.00
MMS	No.							0	0.00
LSCD	No.							0	0.00
WHS	No.							0	0.00
Gully Plugs(ECD)	No.							0	0.00
Ground water recharge Structure	No.	4	1.00	4.00	4.00	0.00	0.00	4	4.00
Total (B)		**144**	**18.00**	**127.60**	**127.60**	**0.00**	**68.46**	**144**	**127.60**

(C)

Production System (10%) 10-20% towards project Cost

Agro foresty	No.	2270	0.001	2.27	2.27	0.00	0.34	2270	2.27
Horticulture plantation	No.	1440	0.0025	3.60	3.60	0.00	0.54	1440	3.60
Vegetables	No.	1130	0.001	1.13	1.13	0.00	0.17	1130	1.13
Vermi compost	No.	7	0.300	2.10	2.10	0.00	0.32	7	2.10
Crop Demonstration	No.	61	0.050	3.05	3.05	0.00	0.46	61	3.05
Compost pit		34	0.11	3.72	3.72	0.00	0.56	34	3.72
Livestock Management	0	0	0	0	0	0.00	0.00	0	0.00
(A) Animal Health Camp	No.	8	0.05	0.40	0.40	0.00	0.06	8	0.40
(B) Improved brid animal	No.	4	0.50	2.00	2.00	0.00	0.30	4	2.00
Distribution of Mangers		225	0.01	2.25	2.25	0.00	0.34	225	2.25
Distribution of Chaff Cutter		45	0.05	2.25	2.25	0.00	0.34	45	2.25
Total (C)		**5224**		**22.77**	**22.77**	**0.00**	**3.43**	**5224**	**22.77**

(D) Livelihood System 9%									
Revolving Fund to SHG (minmun 60 % amt.)	No.	50	0.25	12.51	12.51	0.00	0.00	50	12.51
Revolving Fund to enterprising individual (maximum 10 % amount)	No.	8	0.25	2.00	2.00	0.00	0.00	8	2.00
Grant in aid to enterprising SHG or Federation of SHG individual (maximum 30 % amount)	No.	3	2.00	6.00	6.00	0.00	0.00	3	6.00
Total (D)		**61.00**	**2.50**	**20.51**	**20.51**	**0.00**	**0.00**	**61**	**20.51**
(E) Consolidation				**6.84**	**6.84**	**0.00**	**0.00**	**0.00**	**6.84**
Grand Total		**5397**		**227.85**	**227.85**	**0.00**	**71.88**	**5397**	**227.85**
(F) Convergence with Agricultue Dept.									
Sprinklers and Drip irrigation	No.	7		2.10	0	2.10	0	7	2.10
Grand Total		**5404**		**229.95**	**227.85**	**2.10**	**71.88**	**5404**	**229.95**

Assistant Engineer, PIA
WD&SC P.S. Dantaramgarh

Project Manager, WCDC
WD&SC.Distt. Sikar

PROJECT NAME : SULIYAWAS IWMP- 14(2011-12) BLOCK: DANTARAMGARH COST OF PROJECT : 30.90

ANNUAL ACTION PLAN THROUGH PROJECT FUND

(A)	**Preparatory phase activities capacity building trainings & EPA**								
Activity	**Unit**	**Quantity**	**Unit Cost**	**Total cost**	**Cost form Project Fund**	**Convergence Fund**	**Beneficiary Contribution**	**Qty.**	**Total Cost**
Admn.	10%			3.09	3.09	0.00	0.00	0.00	3.09
Monitoring	1%			0.30	0.30	0.00	0.00	0.00	0.30
Evaluation	1%			0.31	0.31	0.00	0.00	0.00	0.31
EPA	4%			1.24	1.24	0.00	0.00	0.00	1.24
I & CB	5%			1.55	1.55	0.00	0.00	0.00	1.55
DPR	1%			0.31	0.31	0.00	0.00	0.00	0.31
Total (A) 22%				**6.80**	**6.80**	**0.00**	**0.00**	**0**	**6.80**
(B)	**Natural resource management(56%)**								
(B) Conservation measures for arable land(private land) 5-10 % towards WDF									
Earthen Bund	No.	20		10.70	10.70	0.00	0.80	20	10.70
Tanka	No.	4	0.90	3.60	3.60	0.00	0.27	4	3.60
Khet talai	No.					0.00	0.00	0	0.00
Bank Stabilisation/Peripheral Bunds	Mt.					0.00	0.00	0	0.00
Water Harvesting Structure	No.	3		3.00	3.00	0.00	0.23	3	3.00

Conservation measures for non arable land									
Pasture Development	Ha.								
V - ditch	Mt.								
Water Harvesting Structure	No.								
Afforestation	Ha								
Drainage line treatment									
MMS	No.								
LSCD	No.								
WHS	No.								
Gully Plugs(ECD)	No.								
Ground water recharge Structure	No.								
Total (B)		**27**		**17.30**	**17.30**	**0.00**	**1.30**	**27**	**17.30**
(C)									
Production System (10%) 10-20% towards project Cost									
Agro foresty	No.	220	0.001	0.22	0.22	0.00	0.03	220	0.22
Horticulture plantation	No.	180	0.0025	0.45	0.45	0.00	0.07	180	0.45
Vegetables	No.	150	0.001	0.15	0.15	0.00	0.02	150	0.15
Vermi compost	No.	1	0.300	0.30	0.30	0.00	0.05	1	0.30
Crop Demonstration	No.	9	0.050	0.45	0.45	0.00	0.07	9	0.45
Compost pit		3	0.11	0.37	0.37	0.00	0.06	3	0.37
Livestock Management									
(A) Animal Health Camp	No.	4	0.05	0.20	0.20	0.00	0.03	4	0.20
(B) Improved brid animal	No.	1	0.50	0.50	0.50	0.00	0.08	1	0.50
Distribution of Mangers		30	0.01	0.30	0.30	0.00	0.05	30	0.30
Distribution of Chaff Cutter		3	0.05	0.15	0.15	0.00	0.02	3	0.15
Total (C)		**601**		**3.09**	**3.09**	**0.0**	**0.48**	**601**	**3.09**

(D) Livelihood System 9%									
Revolving Fund to SHG (minmun 60 % amt.)	No.	10	0.25	2.53	2.53	0.00	0.00	10	2.53
Revolving Fund to enterprising individual (maximum 10 % amount)	No.	1	0.25	0.25	0.25	0.00	0.00	1	0.25
Grant in aid to enterprising SHG or Federation of SHG individual (maximum 30 % amount)	No.					0.00	0.00	0	0.00
Total (D)		**11**		**2.78**	**2.78**	**0.00**	**0.00**	**11**	**2.78**
(E) Consolidation				**0.93**	**0.93**	**0.00**	**0.00**	**0**	**0.93**
Grand Total		**635**		**30.90**	**30.90**	**0.00**	**1.76**	**635**	**30.90**
(F) Convergence with Agricultue Dept.									
Sprinklers and Drip irrigation	No.	1	0.300	0.30	0	0.30	0	1	0.30
Grand Total		**636**		**31.2**	**30.9**	**0.30**	**1.76**	**636**	**31.20**

Assistant Engineer, PIA
WD&SC P.S. Dantarmagarh

Project Manager, WCDC
WD&SC.Distt. Sikar

G.P. KHANDELSAR CHAPTER -IV

PROJECT NAME : SULIYAWAS IWMP- 14(2011-12) BLOCK: DANTARAMGARH COST OF PROJECT : 73.65 DISTRICT : SIKAR

ANNUAL ACTION PLAN THROUGH PROJECT FUND

(A)	**Preparatory phase activities capacity building trainings & EPA**								
Activity	**Unit**	**Quantity**	**Unit Cost**	**Total cost**	**Cost form Project Fund**	**Convergence Fund**	**Beneficiary Contribution**	**Qty.**	**Total Cost**
Admn.	10%			7.37	7.37	0.00	0.00	0.00	7.37
Monitoring	1%			0.74	0.74	0.00	0.00	0.00	0.74
Evaluation	1%			0.73	0.73	0.00	0.00	0.00	0.73
EPA	4%			2.95	2.95	0.00	0.00	0.00	2.95
I & CB	5%			3.68	3.68	0.00	0.00	0.00	3.68
DPR	1%			0.73	0.73	0.00	0.00	0.00	0.73
Total (A) 22%				**16.20**	**16.20**	**0.00**	**0.00**	**0.00**	**16.20**
(B)	**Natural resource management(56%)**								
(B) Conservation measures for arable land(private land) 5-10 % towards WDF									
Earthen Bund	No.	27		15.34	15.34	0.00	1.15	27	15.34
Tanka	No.	6	0.90	5.40	5.40	0.00	0.41	6	5.40
Khet talai	No.					0	0.00	0	0.00
Bank Stabilisation/Peripheral Bunds	Mt.					0	0.00	0	0.00
Water Harvesting Structure	No.	9		19.50	19.50	0.00	1.46	9	19.50

Conservation measures for non arable land									
Pasture Development	Ha.					0	0.00	0	0.00
V - ditch	Mt.					0	0.00	0	0.00
Water Harvesting Structure	No.					0	0.00	0	0.00
Afforestation	Ha					0	0.00	0	0.00
Drainage line treatment						0	0.00	0	0.00
MMS	No.					0	0.00	0	0.00
LSCD	No.					0	0.00	0	0.00
WHS	No.					0	0.00	0	0.00
Gully Plugs(ECD)	No.					0	0.00	0	0.00
Ground water recharge Structure	No.	1	1.00	1.00	1.00	0	0.00	1	1.00
Total (B)		**43**		**41.24**	**41.24**	**0.00**	**3.02**	**43**	**41.24**
(C)									
Production System (10%) 10-20% towards project Cost									
Agro foresty	No.	590	0.001	0.59	0.59	0	0.09	590	0.59
Horticulture plantation	No.	620	0.0025	1.55	1.55	0	0.23	620	1.55
Vegetables	No.	370	0.001	0.37	0.37	0	0.06	370	0.37
Vermi compost	No.	2	0.300	0.60	0.60	0	0.09	2	0.60
Crop Demonstration	No.	17	0.050	0.85	0.85	0	0.13	17	0.85
Compost pit		3	0.22	0.66	0.66	0	0.10	3	0.66
Livestock Management									
(A) Animal Health Camp	No.	8	0.05	0.40	0.40	0	0.06	8	0.40
(B) Improved brid animal	No.	1	0.50	0.50	0.50	0	0.08	1	0.50
Distribution of Mangers		75	0.01	0.75	0.75	0	0.11	75	0.75
Distribution of Chaff Cutter		7	0.05	0.35	0.35	0	0.05	7	0.35
Total (C)		**1693**		**6.62**	**6.62**	**0**	**1.00**	**1693**	**6.62**

(D) Livelihood System 9%									
Revolving Fund to SHG (minmun 60 % amt.)	No.	16	0.25	4.13	4.13	0	0.00	16	4.13
Revolving Fund to enterprising individual (maximum 10 % amount)	No.	2	0.25	0.50	0.50	0	0.00	2	0.50
Grant in aid to enterprising SHG or Federation of SHG individual (maximum 30 % amount)	No.	1	2.00	2.00	2.00	0	0.00	1	2.00
Total (D)		**19**		**6.63**	**6.63**	**0**	**0.00**	**19**	**6.63**
(E) Consolidation				**2.21**	**2.21**	**0.00**	**0.00**	**0.00**	**2.21**
Grand Total		**1755**	**0**	**73.65**	**73.65**	**0.00**	**4.12**	**1755**	**73.65**
(F) Convergence with Agricultue Dept.									
Sprinklers and Drip irrigation	No.	3	0.300	0.90	0	0.90	0	3	0.90
Grand Total		**1758**	**0.3**	**74.55**	**73.65**	**0.90**	**4.12**	**1758**	**74.55**

Assistant Engineer, PIA
WD&SC P.S Dantaramgarh

Project Manager, WCDC
WD&SC.Distt. Sikar

CHAPTER -V (A) of Project Suliyawas

PROJECT NAME : SULIYAWAS | IWMP-14(2011-12) | BLOCK: DANTARAMGARH | DISTRICT : SIKAR | COST OF PROJECT : 744.45 Lacs

ANNUAL ACTION PLAN THROUGH PROJECT FUND

(A)	**Preparatory phase activities capacity building trainings & EPA**																	
Activity	**Unit**	**Quantity**	**Unit Cost**	**Total cost**	**1st year**		**2nd year**		**3rd year**		**4th year**		**5th year**		**6th year**		**Total**	
					Phy	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**
Admn.	10%			74.45	0	0.00	0	14.88	0	14.88	0	14.89	0	14.89	0	14.91	**0**	**74.45**
Monitoring	1%			7.44	0	0.00	0	0.21	0	1.80	0	1.80	0	1.80	0	1.83		**7.44**
Evaluation	1%			7.44	0	0.00	0	0.00	0	0.00	0	0.00	0	3.72	0	3.72		**7.44**
EPA	4%			29.78	0	0.00	0	23.82	0	5.96	0	0.00	0	0.00	0	0.00		**29.78**
I & CB	5%			37.22	0	0.00	0	11.16	0	11.14	0	6.84	0	4.35	0	3.73		**37.22**
DPR	1%			7.45	0	0.00	0	2.75	0	3.59	0	1.11	0	0.00	0	0.00		**7.45**
Total (A) 22%				**163.78**	**0**	**0.00**	**0**	**52.82**	**0**	**37.37**	**0**	**24.64**	**0**	**24.76**	**0**	**24.19**	**0**	**163.78**
(B)	**Natural resource management(56%)**																	
(B) Conservation measures for arable land(private land)																		
Earthen Bund	No.	292		154.43	0	0.00	0	0.00	70	43.10	92	53.55	61	28.98	69	28.80	**292**	**154.43**
Tanka	No.	65	0.90	58.50	0	0.00	0	0.00	15	13.50	18	16.20	17	15.30	15	13.50	**65**	**58.50**
Khet talai	No.	0		0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	**0**	**0.00**
Bank Stabilisation/Peripheral Bunds	Mt.	0		0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	**0**	**0.00**
Water Harvesting Structure	No.	45		76.50	0	0.00	0	0.00	7	12.50	15	18.50	10	15.00	13	30.50	**45**	**76.50**

Conservation measures for non arable land																		
Pasture Development	Ha.	70	1.65	115.46	0	0.00	0	0.00	10	15.26	45	70.41	15	25.89	0	3.90	**70**	**115.46**
V - ditch	Mt.	0		0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	**0**	**0.00**
Water Harvesting Structure	No.	0		0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	**0**	**0.00**
Afforestation	Ha	0		0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	**0**	**0.00**
Drainage line treatment																	**0**	**0.00**
MMS	No.	0		0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	**0**	**0.00**
LSCD	No.	0		0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	**0**	**0.00**
WHS	No.	0		0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	**0**	**0.00**
Gully Plugs(ECD)	No.	0		0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	**0**	**0.00**
Ground water recharge Structure	No.	12	1.00	12.00	0	0.00	0	0.00	0	0.00	5	5.00	4	4.00	3	3.00	**12**	**12.00**
Total (B)		**484**		**416.89**	**0**	**0.00**	**0**	**0.00**	**102**	**84.36**	**175**	**163.66**	**107**	**89.17**	**100**	**79.70**	**484**	**416.89**
(C)																		
Production measures for arable land																		
Agro foresty	No.	7140	0.001	7.14	0	0.00	0	0.00	1335	1.33	1865	1.87	2160	2.16	1780	1.78	**7140**	**7.14**
Horticulture plantation	No.	4676	0.0025	11.69	0	0.00	0	0.00	320	0.80	1400	3.50	1476	3.69	1480	3.70	**4676**	**11.69**
Vegetables	No.	3610	0.001	3.61	0	0.00	0	0.00	500	0.50	1080	1.08	770	1.04	990	0.99	**3340**	**3.61**
Vermi compost	No.	23	0.300	6.90	0	0.00	0	0.00	1	0.30	8	2.40	8	2.40	6	1.80	**23**	**6.90**
Crop Demonstration	No.	200	0.050	10.00	0	0.00	0	0.00	40	2.00	69	3.45	54	2.70	37	1.85	**200**	**10.00**
Compost pit		111	0.11	12.18	0	0.00	0	0.00	40	4.40	30	3.30	20	2.20	21	2.28	**111**	**12.18**
Livestock Management		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**	**0**
(A) Animal Health Camp	No.	40	0.05	2.00	0	0.00	0	0.00	10	0.50	10	0.50	10	0.50	10	0.50	**40**	**2.00**
(B) Improved brid animal	No.	15	0.50	7.50	0	0.00	0	0.00	1	0.50	7	3.50	5	2.50	2	1.00	**15**	**7.50**
Distribution of Mangers		748	0.01	7.48	0	0.00	0	0.00	130	1.30	207	2.07	215	2.15	196	1.96	**748**	**7.48**
Distribution of Chaff Cutter		119	0.05	5.95	0	0.00	0	0.00	21	1.05	33	1.65	35	1.75	30	1.50	**119**	**5.95**
Total (C)				**74.45**	**0**	**0.0**	**0**	**0.0**	**2398**	**12.68**	**4709**	**23.32**	**4753**	**21.09**	**4552**	**17.36**	**16412**	**74.45**

(D) Livelihood System 9%																		
Revolving Fund to SHG (minmun 60 % amt.)	No.	177	0.25	45.00	0	0.00	0	0.00	39	9.75	50	12.53	49	12.26	39	10.46	**177**	**45.00**
Revolving Fund to enterprising individual (maximum 10 % amount)	No.	24	0.25	6.00	0	0.00	0	0.00	6	1.50	7	1.75	5	1.25	6	1.50	**24**	**6.00**
Grant in aid to enterprising SHG or Federation of SHG individual (maximum 30 % amount)	No.	8	2.00	16.00	0	0.00	0	0.00	0	0.00	3	6.00	2	4.00	3	6.00	**8**	**16.00**
Total (D)		**209**		**67.00**	**0**	**0.00**	**0**	**0.00**	**45**	**11.25**	**60**	**20.28**	**56**	**17.51**	**48**	**17.96**	**209**	**67.00**
(E) Consolidation				**22.33**										**11.27**	**0.00**	**11.06**		**22.33**
Grand Total				**744.45**	**0**	**0.00**	**0**	**52.82**	**2490**	**141.44**	**4912**	**232.20**	**4906**	**166.14**	**4694**	**151.85**	**17002**	**744.45**
(F) Convergence with Agriculture Dept.			**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**00**	**0**
Sprinklers and Drip irrigation	No.	24	0.300	7.20	0	0.00	0	0.00	1	0.30	8	2.40	8	2.40	7	2.10	**24**	**7.20**
Grand Total				751.65	0	0.0	0	52.82	2491	141.74	4920	234.6	4914	168.54	4701	153.95	**17026**	**751.65**

Assistant Engineer, PIA
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Project Manager, WCDC
WD&SC.Distt. Sikar

G.P. ROOPGARH CHAPTER -V (A)

PROJECT NAME : SULIYAWAS IWMP- 14(2011-12) BLOCK: DANTARAMGARH DISTRICT : SIKAR COST OF PROJECT : 188.25 Lacs

ANNUAL ACTION PLAN THROUGH PROJECT FUND

(A)	**Preparatory phase activities capacity building trainings & EPA**																	
					1st year		**2nd year**		**3rd year**		**4th year**		**5th year**		**6th year**		**Total**	
Activity	**Unit**	**Quantity**	**Unit Cost**	**Total cost**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**
Admn.	10%			18.82				3.76		3.76		3.77		3.77		3.76	**0**	**18.82**
Monitoring	1%			1.88						0.47		0.47		0.47		0.47		**1.88**
Evaluation	1%			1.88										0.94		0.94		**1.88**
EPA	4%			7.53				6.02		1.51								**7.53**
I & CB	5%			9.41				2.82		2.82		1.89		0.94		0.94		**9.41**
DPR	1%			1.89				0.50		1.00		0.39						**1.89**
Total (A) 22%				**41.41**	**0**	**0.00**	**0**	**13.10**	**0**	**9.56**	**0**	**6.52**	**0**	**6.12**	**0**	**6.11**	**0**	**41.41**
(B)	**Natural resource management(56%)**																	
(B) Conservation measures for arable land(private land)																		
Earthen Bund	No.	31		16.53					8	5.20	9	5.35	6	2.38	8	3.60	**31**	**16.53**
Tanka	No.	10	0.90	9.00					2	1.80	2	1.80	3	2.70	3	2.70	**10**	**9.00**
Khet talai	No.																**0**	**0.00**
Bank Stabilisation/Peripheral Bunds	Mt.																**0**	**0.00**
Water Harvesting Structure	No.	2		3.00							1	2.00			1	1.00	**2**	**3.00**

Conservation measures for non arable land																		
Pasture Development	Ha.	45	1.65	73.89							30	48.30	15	23.19		2.40	**45**	**73.89**
V - ditch	Mt.																**0**	**0.00**
Water Harvesting Structure	No.																**0**	**0.00**
Afforestation	Ha																**0**	**0.00**
Drainage line treatment																	**0**	**0.00**
MMS	No.																**0**	**0.00**
LSCD	No.																**0**	**0.00**
WHS	No.																**0**	**0.00**
Gully Plugs(ECD)	No.																**0**	**0.00**
Ground water recharge Structure	No.	3	1.00	3.00							1	1.00	1	1.00	1	1.00	**3**	**3.00**
Total (B)		**91**		**105.42**	**0**	**0.00**	**0**	**0.00**	**10**	**7.00**	**43**	**58.45**	**25**	**29.27**	**13**	**10.70**	**91**	**105.42**
(C)																		
Production measures for arable land																		
Agro foresty	No.	1880	0.001	1.88							600	0.60	600	0.60	680	0.68	**1880**	**1.88**
Horticulture plantation	No.	1128	0.0025	2.82							300	0.75	400	1.00	428	1.07	**1128**	**2.82**
Vegetables	No.	870	0.001	0.87							300	0.30	300	0.30	270	0.27	**870**	**0.87**
Vermi compost	No.	6	0.300	1.80							2	0.60	2	0.60	2	0.60	**6**	**1.80**
Crop Demonstration	No.	48	0.050	2.40							22	1.10	15	0.75	11	0.55	**48**	**2.40**
Compost pit		30	0.11	3.28					12	1.30	8	0.88	5	0.55	5	0.55	**30**	**3.28**
Livestock Management																		
(A) Animal Health Camp	No.	8	0.05	0.40					2	0.10	2	0.10	2	0.10	2	0.10	**8**	**0.40**
(B) Improved brid animal	No.	5	0.50	2.50							3	1.50	2	1.00	0	0	**5**	**2.50**
Distribution of Mangers		188	0.01	1.88							64	0.64	62	0.62	62	0.62	**188**	**1.88**
Distribution of Chaff Cutter		20	0.05	1.00							8	0.40	6	0.30	6	0.30	**20**	**1.00**
Total (C)		**4183**	**1.0745**	**18.83**	**0**	**0.00**	**0**	**0.00**	**14**	**1.40**	**1309**	**6.87**	**1394**	**5.82**	**1466**	**4.74**	**4183**	**18.83**

(D) Livelihood System 9%																		
Revolving Fund to SHG (minmun 60 % amt.)	No.	45	0.25	11.44					9	2.25	12	3.00	12	3.00	12	3.19	**45**	**11.44**
Revolving Fund to enterprising individual (maximum 10 % amount)	No.	6	0.25	1.50					2	0.50	2	0.50	1	0.25	1	0.25	**6**	**1.50**
Grant in aid to enterprising SHG or Federation of SHG individual (maximum 30 % amount)	No.	2	2.00	4.00									1	2.00	1	2.00	**2**	**4.00**
Total (D)		**53.00**		**16.94**	**0**	**0.00**	**0**	**0.00**	**11**	**2.75**	**14**	**3.50**	**14**	**5.25**	**14**	**5.44**	**53**	**16.94**
(E) Consolidation				**5.65**										**2.82**		**2.83**	**0**	**5.65**
Grand Total		**4302.00**		**188.25**	**0**	**0.00**	**0**	**13.10**	**23**	**19.41**	**1357**	**75.42**	**1159**	**49.79**	**1493**	**30.53**	**4032**	**188.25**
(F) Convergence with Agriculture Dept.																		
Sprinklers and Drip irrigation	No.	6	0.300	1.80	0	0	0	0	0	0	2	0.60	2	0.60	2	0.60	**6**	**1.80**
Grand Total		**4308**	**0.3**	**190.05**	**0**	**0.0**	**0**	**13.1**	**23**	**19.41**	**1359**	**76.02**	**1161**	**50.39**	**1495**	**31.13**	**4038**	**190.05**

Assistant Engineer, PIA
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G.P. MUNDIYAWAS CHAPTER -V (A)

PROJECT NAME : IWMP-SULIYAWAS 14(2011-12) BLOCK: DANTARAMGARH DISTRICT : SIKAR COST OF PROJECT : 38.25 Lacs

ANNUAL ACTION PLAN
THROUGH PROJECT FUND

(A)	**Preparatory phase activities capacity building trainings & EPA**																	
					1st year		**2nd year**		**3rd year**		**4th year**		**5th year**		**6th year**		**Total**	
Activity	**Unit**	**Quantity**	**Unit Cost**	**Total cost**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**
Admn.	10%			3.83				0.76		0.76		0.77		0.77		0.77	**0**	**3.83**
Monitoring	1%			0.39						0.09		0.09		0.09		0.12		**0.39**
Evaluation	1%			0.38										0.19		0.19		**0.38**
EPA	4%			1.53				1.23		0.30								**1.53**
I & CB	5%			1.91				0.58		0.57		0.38		0.19		0.19		**1.91**
DPR	1%			0.38				0.10		0.20		0.08						**0.38**
Total (A) 22%				**8.42**	**0**	**0.00**	**0**	**2.67**	**0**	**1.92**	**0**	**1.32**	**0**	**1.24**	**0**	**1.27**	**0**	**8.42**
(B)	**Natural resource management(56%)**																	
(B) Conservation measures for arable land(private land)																		
Earthen Bund	No.	28		13.72					11	4.95	6	4.50	4	2.15	7	2.12	**28**	**13.72**
Tanka	No.	3	0.90	2.70					1	0.90	1	0.90	1	0.90			**3**	**2.70**
Khet talai	No.																**0**	**0.00**
Bank Stabilisation/Peripheral Bunds	Mt.																**0**	**0.00**
Water Harvesting Structure	No.	3		4.00							1	2.00	1	1.00	1	1.00	**3**	**4.00**

Conservation measures for non arable land																		
Pasture Development	Ha.																**0**	**0.00**
V - ditch	Mt.																**0**	**0.00**
Water Harvesting Structure	No.																**0**	**0.00**
Afforestation	Ha																**0**	**0.00**
Drainage line treatment																	**0**	**0.00**
MMS	No.																**0**	**0.00**
LSCD	No.																**0**	**0.00**
WHS	No.																**0**	**0.00**
Gully Plugs(ECD)	No.																**0**	**0.00**
Ground water recharge Structure	No.	1	1.00	1.00							1	1.00					**1**	**1.00**
Total (B)		**35**	**1.90**	**21.42**	**0**	**0.00**	**0**	**0.00**	**12**	**5.85**	**9**	**8.40**	**6**	**4.05**	**8**	**3.12**	**35**	**21.42**
(C)																		
Production measures for arable land																		
Agro foresty	No.	380	0.001	0.38							200	0.20	100	0.10	80	0.08	**380**	**0.38**
Horticulture plantation	No.	228	0.0025	0.57							100	0.25	76	0.19	52	0.13	**228**	**0.57**
Vegetables	No.	190	0.001	0.19							60	0.06	60	0.06	70	0.07	**190**	**0.19**
Vermi compost	No.	1	0.300	0.30							1	0.30					**1**	**0.30**
Crop Demonstration	No.	11	0.050	0.55					3	0.15	4	0.20	3	0.15	1	0.05	**11**	**0.55**
Compost pit		5	0.11	0.54					2	0.22	1	0.11	1	0.11	1	0.10	**5**	**0.54**
Livestock Management																		
(A) Animal Health Camp	No.	4	0.05	0.20					1	0.05	1	0.05	1	0.05	1	0.05	**4**	**0.20**
(B) Improved brid animal	No.	1	0.50	0.50						0	1	0.50	0	0	0	0	**1**	**0.50**
Distribution of Mangers		40	0.01	0.40						0	13	0.13	13	0.13	14	0.14	**40**	**0.40**
Distribution of Chaff Cutter		4	0.05	0.20						0	2	0.10	1	0.05	1	0.05	**4**	**0.20**
Total (C)		**864**	**1.0745**	**3.83**	**0**	**0.00**	**0**	**0.00**	**6**	**0.42**	**383**	**1.90**	**19**	**0.49**	**18**	**0.39**	**864**	**3.83**

(D) Livelihood System 9%																		
Revolving Fund to SHG (minmun 60 % amt.)	No.	12	0.25	3.19					3	0.75	3	0.75	3	0.75	3	0.94	**12**	**3.19**
Revolving Fund to enterprising individual (maximum 10 % amount)	No.	1	0.25	0.25							1	0.25					**1**	**0.25**
Grant in aid to enterprising SHG or Federation of SHG individual (maximum 30 % amount)	No.																**0**	**0.00**
Total (D)		**13**	**0.50**	**3.44**	**0**	**0.00**	**0**	**0.00**	**3**	**0.75**	**4**	**1.00**	**3**	**0.75**	**3**	**0.94**	**13**	**3.44**
(E) Consolidation				**1.14**										**0.57**		**0.57**	**0**	**1.14**
Grand Total		**906.00**		**38.25**	**0**	**0.00**	**0**	**2.67**	**18**	**8.67**	**395**	**12.93**	**263**	**7.51**	**230**	**6.47**	**906**	**38.25**
(F) Convrgence with Agriculture Dept.																		
Sprinklers and Drip irrigation	No.	1	0.300	0.30	0	0	0	0	0	0	1	0.30	0	0	0	0	**1**	**0.30**
Grand Total		**907**	**0.3**	**38.55**	**0**	**0.0**	**0**	**2.67**	**18**	**8.67**	**396**	**13.23**	**263**	**7.51**	**230**	**6.47**		

Assistant Engineer, PIA
WD&SC P.S Dantaramgarh

Project Manager, WCDC
WD&SC.Distt. Sikar

G.P. RALAWATA CHAPTER -V (A)

PROJECT NAME : IWMP-SULIYAWAS 14(2011-12) BLOCK: DANTARAMGARH DISTRICT : SIKAR COST OF PROJECT : 185.55 Lacs

ANNUAL ACTION PLAN THROUGH PROJECT FUND

(A)	**Preparatory phase activities capacity building trainings & EPA**																	
					1st year		**2nd year**		**3rd year**		**4th year**		**5th year**		**6th year**		**Total**	
Activity	**Unit**	**Quantity**	**Unit Cost**	**Total cost**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**
Admn.	10 %			18.56				3.71		3.71		3.71		3.71		3.72	**0**	**18.56**
Monitoring	1%			1.85						0.46		0.46		0.46		0.47		**1.85**
Evaluation	1%			1.85										0.92		0.93		**1.85**
EPA	4%			7.42				5.94		1.48								**7.42**
I & CB	5%			9.28				2.78		2.78		1.38		1.41		0.93		**9.28**
DPR	1%			1.86				0.50		1.00		0.36						**1.86**
Total (A) 22%				**40.82**	**0**	**0.00**	**0**	**12.93**	**0**	**9.43**	**0**	**5.91**	**0**	**6.50**	**0**	**6.05**	**0**	**40.82**
(B)	**Natural resource management(56%)**																	
(B) Conservation measures for arable land(private land)																		
Earthen Bund	No.	94		45.86					13	10.25	25	13.58	25	10.98	31	11.05	**94**	**45.86**
Tanka	No.	27	0.90	24.30					6	5.40	7	6.30	7	6.30	7	6.30	**27**	**24.30**
Khet talai	No.																**0**	**0.00**
Bank Stabilisation/Peripheral Bunds	Mt.																**0**	**0.00**
Water Harvesting Structure	No.	15		21.50							8	8.00	3	4.50	4	9.00	**15**	**21.50**

Conservation measures for non arable land																		
Pasture Development	Ha.	5	1.65	9.25							5	6.85		1.80		0.60	**5**	**9.25**
V - ditch	Mt.																**0**	**0.00**
Water Harvesting Structure	No.																**0**	**0.00**
Afforestation	Ha																**0**	**0.00**
Drainage line treatment																	**0**	**0.00**
MMS	No.																**0**	**0.00**
LSCD	No.																**0**	**0.00**
WHS	No.																**0**	**0.00**
Gully Plugs(ECD)	No.																**0**	**0.00**
Ground water recharge Structure	No.	3	1.00	3.00							1	1.00	1	1.00	1	1.00	**3**	**3.00**
Total (B)		**144**		**103.91**	**0**	**0.00**	**0.0**	**0.00**	**19**	**15.65**	**46**	**35.73**	**36**	**24.58**	**43**	**27.95**	**144**	**103.91**
(C)																		
Production measures for arable land																		
Agro foresty	No.	1800	0.001	1.80					600	0.60	250	0.25	700	0.70	250	0.25	**1800**	**1.80**
Horticulture plantation	No.	1080	0.0025	2.70					180	0.45	300	0.75	300	0.75	300	0.75	**1080**	**2.70**
Vegetables	No.	900	0.001	0.90					300	0.30	200	0.20	100	0.10	300	0.30	**900**	**0.90**
Vermi compost	No.	6	0.300	1.80					0	0	2	0.60	2	0.60	2	0.60	**6**	**1.80**
Crop Demonstration	No.	54	0.050	2.70					20	1.00	14	0.70	10	0.50	10	0.50	**54**	**2.70**
Compost pit		26	0.11	2.86					10	1.10	10	1.10	3	0.33	3	0.33	**26**	**2.86**
Livestock Management																		
(A) Animal Health Camp	No.	8	0.05	0.40					2	0.10	2	0.10	2	0.10	2	0.10	**8**	**0.40**
(B) Improved brid animal	No.	3	0.50	1.50					0	0	1	0.50	1	0.50	1	0.50	**3**	**1.50**
Distribution of Mangers		190	0.01	1.90					50	0.50	40	0.40	50	0.50	50	0.50	**190**	**1.90**
Distribution of Chaff Cutter		40	0.05	2.00					10	0.50	10	0.50	10	0.50	10	0.50	**40**	**2.00**
Total (C)		**4107**		**18.56**	**0**	**0.00**	**0**	**0.00**	**1172**	**4.55**	**829**	**5.1**	**1178**	**4.58**	**928**	**4.33**	**4107**	**18.56**

(D) Livelihood System 9%																		
Revolving Fund to SHG (minmun 60 % amt.)	No.	44	0.25	11.20					12	3.00	11	2.75	11	2.75	10	2.70	**44**	**11.20**
Revolving Fund to enterprising individual (maximum 10 % amount)	No.	6	0.25	1.50					2	0.50	1	0.25	1	0.25	2	0.50	**6**	**1.50**
Grant in aid to enterprising SHG or Federation of SHG individual (maximum 30 % amount)	No.	2	2.00	4.00							1	2.00			1	2.00	**2**	**4.00**
Total (D)		**52.00**		**16.70**	**0**	**0.00**	**0**	**0.00**	**14**	**3.50**	**13**	**5.00**	**12**	**3.00**	**13**	**5.20**	**52**	**16.70**
(E) Consolidation				**5.56**										**2.78**		**2.78**	**0**	**5.56**
Grand Total		**4277.00**		**185.55**	**0**	**0.00**	**0**	**12.93**	**1187**	**31.97**	**878**	**51.48**	**1227**	**42.15**	**985**	**47.02**	**4277**	**185.55**
(F) Convergence with Agriculture Dept.																		
Sprinklers and Drip irrigation	No.	6	0.300	1.80	0	0	0	0	0	0	2	0.60	2	0.60	2	0.60	**6**	**1.80**
Grand Total		**4283**		**187.35**	**0**	**0**	**0**	**12.93**	**1187**	**31.97**	**880**	**52.08**	**1229**	**42.75**	**987**	**47.62**	**4283**	**187.35**

Assistant Engineer, PIA
WD&SC P.S. Dantaramgarh

Project Manager, WCDC
WD&SC.Distt Sikar

G.P. SULIYAWAS CHAPTER -V (A)

PROJECT NAME : SULIYAWAS IWMP-14(2011-12) BLOCK: DANTARAMGARH DISTRICT : SIKAR COST OF PROJECT : 227.85 Lacs

ANNUAL ACTION PLAN

THROUGH PROJECT FUND

(A)	**Preparatory phase activities capacity building trainings & EPA**																	
					1st year		**2nd year**		**3rd year**		**4th year**		**5th year**		**6th year**		**Total**	
Activity	**Unit**	**Quantity**	**Unit Cost**	**Total cost**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**
Admn.	10 %			22.78				4.55		4.55		4.55		4.55		4.58	**0**	**22.78**
Monitoring	1%			2.28				0.00		0.57		0.57		0.57		0.57		**2.28**
Evaluation	1%			2.29				0.00						1.15		1.14		**2.29**
EPA	4%			9.11				7.28		1.83								**9.11**
I & CB	5%			11.39				3.41		3.41		2.29		1.14		1.14		**11.39**
DPR	1%			2.28				1.00		1.00		0.28						**2.28**
Total (A) 22%				**50.13**	**0**	**0.00**	**0**	**16.24**	**0**	**11.36**	**0**	**7.69**	**0**	**7.41**	**0**	**7.43**	**0**	**50.13**
(B)	**Natural resource management(56%)**																	
(B) Conservation measures for arable land(private land)																		
Earthen Bund	No.	92		52.28					26	15.70	36	20.92	15	7.72	15	7.94	**92**	**52.28**
Tanka	No.	15	0.90	13.50					5	4.50	5	4.50	3	2.70	2	1.80	**15**	**13.50**
Khet talai	No.																**0**	**0.00**
Bank Stabilisation/Peripheral Bunds	Mt.																**0**	**0.00**
Water Harvesting Structure	No.	13		25.50					4	9.50	4	5.50	2	2.50	3	8.00	**13**	**25.50**

Conservation measures for non arable land																		
Pasture Development	Ha.	20	1.65	32.32					10	15.26	10	15.26		0.90		0.90	**20**	**32.32**
V - ditch	Mt.																**0**	**0.00**
Water Harvesting Structure	No.																**0**	**0.00**
Afforestation	Ha																**0**	**0.00**
Drainage line treatment																	**0**	**0.00**
MMS	No.																**0**	**0.00**
LSCD	No.																**0**	**0.00**
WHS	No.																**0**	**0.00**
Gully Plugs(ECD)	No.																**0**	**0.00**
Ground water recharge Structure	No.	4	1.00	4.00							1	1.00	2	2.00	1	1.00	**4**	**4.00**
Total (B)		**144**	**18.00**	**127.60**	**0**	**0.00**	**0**	**0.00**	**45**	**44.96**	**56**	**47.18**	**22**	**15.82**	**21**	**19.64**	**144**	**127.60**
(C)																		
Production measures for arable land																		
Agro foresty	No.	2270	0.001	2.27					595	0.59	595	0.60	540	0.54	540	0.54	**2270**	**2.27**
Horticulture plantation	No.	1440	0.0025	3.60					120	0.30	440	1.10	440	1.10	440	1.10	**1440**	**3.60**
Vegetables	No.	1130	0.001	1.13					200	0.20	370	0.37	360	0.36	200	0.20	**1130**	**1.13**
Vermi compost	No.	7	0.300	2.10					1	0.30	2	0.60	2	0.60	2	0.60	**7**	**2.10**
Crop Demonstration	No.	61	0.050	3.05					17	0.85	20	1.00	16	0.80	8	0.40	**61**	**3.05**
Compost pit		34	0.11	3.72					10	1.10	8	0.88	8	0.88	8	0.88	**34**	**3.72**
Livestock Management																		
(A) Animal Health Camp	No.	8	0.05	0.40					2	0.10	2	0.10	2	0.10	2	0.10	**8**	**0.40**
(B) Improved brid animal	No.	4	0.50	2.00					1	0.50	1	0.50	1	0.50	1	0.50	**4**	**2.00**
Distribution of Mangers		225	0.01	2.25					60	0.60	60	0.60	60	0.60	45	0.45	**225**	**2.25**
Distribution of Chaff Cutter		45	0.05	2.25					10	0.50	10	0.50	15	0.75	10	0.50	**45**	**2.25**
Total (C)		**5224**		**22.77**	**0**	**0.00**	**0**	**0.00**	**1016**	**5.04**	**1508**	**6.25**	**1444**	**6.23**	**1256**	**5.27**	**5224**	**22.77**

(D) Livelihood System 9%																	
Revolving Fund to SHG (minmun 60 % amt.)	No.	50	0.25	12.51					8	2.00	17	4.25	17	4.26	8	2.00	**50**	**12.51**
Revolving Fund to enterprising individual (maximum 10 % amount)	No.	8	0.25	2.00					2	0.50	2	0.50	2	0.50	2	0.50	**8**	**2.00**
Grant in aid to enterprising SHG or Federation of SHG individual (maximum 30 % amount)	No.	3	2.00	6.00							1	2.00	1	2.00	1	2.00	**3**	**6.00**
Total (D)		**61.00**	**2.50**	**20.51**	**0**	**0.00**	**0**	**0.00**	**10**	**2.50**	**20**	**6.75**	**20**	**6.76**	**11**	**4.50**	**61**	**20.51**
(E) Consolidation				**6.84**										**3.42**		**3.42**	**0**	**6.84**
Grand Total		**5397**	**21.98**	**227.85**	**0**	**0.00**	**0**	**16.24**	**1055**	**63.05**	**1575**	**67.78**	**1483**	**40.36**	**1284**	**40.42**	**5397**	**227.85**
(F) Convergence with Agriculture Dept.																		
Sprinklers and Drip irrigation	No.	7	0.300	2.10	0	0	0	0	1	0.30	2	0.60	2	0.60	2	0.60	**7**	**2.10**
Grand Total		**5404**		**229.95**	**0**	**0.0**	**0**	**16.24**	**1056**	**63.35**	**1577**	**68.38**	**1485**	**40.96**	**1286**	**41.02**	**5404**	**229.95**

Assistant Engineer, PIA
WD&SC P.S.
Dantaramgarh

Project Manager, WCDC
WD&SC.Distt. Sikar

G.P. DUDHWA CHAPTER -V (A)

PROJECT NAME : SULIYAWAS | IWMP-14(2011-12) | BLOCK: DANTARAMGARH | DISTRICT : SIKAR | COST OF PROJECT : 30.90 Lacs

ANNUAL ACTION PLAN THROUGH PROJECT FUND

(A)	Preparatory phase activities capacity building trainings & EPA																	
					1st year		2nd year		3rd year		4th year		5th year		6th year		Total	
Activity	**Unit**	**Quantity**	**Unit Cost**	**Total cost**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**
Admn.	10%			3.09				0.62		0.62		0.62		0.62		0.61	**0**	**3.09**
Monitoring	1%			0.30				0.06		0.06		0.06		0.06		0.06		**0.30**
Evaluation	1%			0.31										0.15		0.16		**0.31**
EPA	4%			1.24				0.99		0.25								**1.24**
I & CB	5%			1.55				0.47		0.46		0.16		0.30		0.16		**1.55**
DPR	1%			0.31				0.15		0.16								**0.31**
Total (A) 22%				**6.80**	**0**	**0.00**	**0**	**2.29**	**0**	**1.55**	**0**	**0.84**	**0**	**1.13**	**0**	**0.99**	**0**	**6.80**
(B)	**Natural resource management(56%)**																	
(B) Conservation measures for arable land(private land)																		
Earthen Bund	No.	20		10.70					2	1.50	8	4.40	7	3.15	3	1.65	**20**	**10.70**
Tanka	No.	4	0.90	3.60							1	0.90	1	0.90	2	1.80	**4**	**3.60**
Khet talai	No.																**0**	**0.00**
Bank Stabilisation/Peripheral Bunds	Mt.																**0**	**0.00**
Water Harvesting Structure	No.	3		3.00							1	1.00	1	1.00	1	1.00	**3**	**3.00**

Conservation measures for non arable land																		
Pasture Development	Ha.																**0**	**0.00**
V - ditch	Mt.																**0**	**0.00**
Water Harvesting Structure	No.																**0**	**0.00**
Afforestation	Ha																**0**	**0.00**
Drainage line treatment																	**0**	**0.00**
MMS	No.																**0**	**0.00**
LSCD	No.																**0**	**0.00**
WHS	No.																**0**	**0.00**
Gully Plugs(ECD)	No.																**0**	**0.00**
Ground water recharge Structure	No.																**0**	**0.00**
Total (B)		**27**		**17.30**	**0**	**0.00**	**0**	**0.00**	**2**	**1.50**	**10**	**6.30**	**9**	**5.05**	**6**	**4.45**	**27**	**17.30**
(C)																		
Production measures for arable land																		
Agro foresty	No.	220	0.001	0.22							70	0.07	70	0.07	80	0.08	**220**	**0.22**
Horticulture plantation	No.	180	0.0025	0.45							60	0.15	60	0.15	60	0.15	**180**	**0.45**
Vegetables	No.	150	0.001	0.15							50	0.05	50	0.05	50	0.05	**150**	**0.15**
Vermi compost	No.	1	0.300	0.30							0	0	1	0.30	0	0	**1**	**0.30**
Crop Demonstration	No.	9	0.050	0.45							3	0.15	4	0.20	2	0.10	**9**	**0.45**
Compost pit		3	0.11	0.37							1	0.12	1	0.12	1	0.13	**3**	**0.37**
Livestock Management																		
(A) Animal Health Camp	No.	4	0.05	0.20					1	0.05	1	0.05	1	0.05	1	0.05	**4**	**0.20**
(B) Improved brid animal	No.	1	0.50	0.50							1	0.50	0	0	0	0	**1**	**0.50**
Distribution of Mangers		30	0.01	0.30							10	0.10	10	0.10	10	0.10	**30**	**0.30**
Distribution of Chaff Cutter		3	0.05	0.15							1	0.05	1	0.05	1	0.05	**3**	**0.15**
Total (C)		**601**		**3.09**	**0**	**0.00**	**0**	**0.00**	**1**	**0.05**	**197**	**1.24**	**198**	**1.09**	**205**	**0.71**	**601**	**3.09**

(D) Livelihood System 9%																		
Revolving Fund to SHG (minmun 60 % amt.)	No.	10	0.25	2.53					3	0.75	3	0.78	2	0.50	2	0.50	**10**	**2.53**
Revolving Fund to enterprising individual (maximum 10 % amount)	No.	1	0.25	0.25									1	0.25			**1**	**0.25**
Grant in aid to enterprising SHG or Federation of SHG individual (maximum 30 % amount)	No.																**0**	**0.00**
Total (D)		**11**		**2.78**	**0**	**0.00**	**0**	**0.00**	**3**	**0.75**	**3**	**0.78**	**3**	**0.75**	**2**	**0.50**	**11**	**2.78**
(E) Consolidation				**0.93**										**0.47**		**0.46**	**0**	**0.93**
Grand Total		**635**	**0**	**30.90**	**0**	**0.00**	**0**	**2.29**	**6**	**3.85**	**209**	**9.21**	**208**	**8.57**	**212**	**6.98**	**635**	**30.90**
(F) Convergence with Agriculture Dept.																		
Sprinklers and Drip irrigation	No.	1	0.300	0.30	0	0	0	0	0	0	0	0	1	0.30	0	0	**1**	**0.30**
Grand Total		**636**		**31.2**	**0**	**0.0**	**0**	**2.29**	**6**	**3.85**	**209**	**9.21**	**209**	**8.87**	**212**	**6.98**	**636**	**31.2**

Assistant Engineer, PIA
WD&SC P.S.
Dantarmagarh

Project Manager, WCDC
WD&SC.Distt. Sikar

G.P. KHANDELSAR CHAPTER -V (A)

PROJECT NAME : SULIYAWAS | IWMP-14(2011-12) | BLOCK: DANTARAMGARH | DISTRICT : SIKAR | COST OF PROJECT : 73.65 Lacs

ANNUAL ACTION PLAN THROUGH PROJECT FUND

(A)	**Preparatory phase activities capacity building trainings & EPA**																	
					1st year		**2nd year**		**3rd year**		**4th year**		**5th year**		**6th year**		**Total**	
Activity	**Unit**	**Quantity**	**Unit Cost**	**Total cost**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**	**Phy**	**Fin**
Admn.	10%			7.37				1.48		1.48		1.47		1.47		1.47	**0**	**7.37**
Monitoring	1%			0.74				0.15		0.15		0.15		0.15		0.14		**0.74**
Evaluation	1%			0.73										0.37		0.36		**0.73**
EPA	4%			2.95				2.36		0.59								**2.95**
I & CB	5%			3.68				1.10		1.10		0.74		0.37		0.37		**3.68**
DPR	1%			0.73				0.50		0.23								**0.73**
Total (A) 22%				**16.20**	**0**	**0.00**	**0**	**5.59**	**0**	**3.55**	**0**	**2.36**	**0**	**2.36**	**0**	**2.34**	**0**	**16.20**
(B)	**Natural resource management(56%)**																	
(B) Conservation measures for arable land(private land)																		
Earthen Bund	No.	27		15.34					10	5.50	8	4.80	4	2.60	5	2.44	**27**	**15.34**
Tanka	No.	6	0.90	5.40					1	0.90	2	1.80	2	1.80	1	0.90	**6**	**5.40**
Khet talai	No.																**0**	**0.00**
Bank Stabilisation/Peripheral Bunds	Mt.																**0**	**0.00**
Water Harvesting Structure	No.	9		19.50					3	3.00			3	6.00	3	10.50	**9**	**19.50**

Conservation measures for non arable land																		
Pasture Development	Ha.																**0**	**0.00**
V - ditch	Mt.																**0**	**0.00**
Water Harvesting Structure	No.																**0**	**0.00**
Afforestation	Ha																**0**	**0.00**
Drainage line treatment																	**0**	**0.00**
MMS	No.																**0**	**0.00**
LSCD	No.																**0**	**0.00**
WHS	No.																**0**	**0.00**
Gully Plugs(ECD)	No.																**0**	**0.00**
Ground water recharge Structure	No.	1	1.00	1.00							1	1.00					**1**	**1.00**
Total (B)		**43**		**41.24**	**0**	**0.00**	**0**	**0.00**	**14**	**9.40**	**11**	**7.60**	**9**	**10.40**	**9**	**13.84**	**43**	**41.24**
(C) Production measures for arable land																		
Agro foresty	No.	590	0.001	0.59					140	0.14	150	0.15	150	0.15	150	0.15	**590**	**0.59**
Horticulture plantation	No.	620	0.0025	1.55					20	0.05	200	0.50	200	0.50	200	0.50	**620**	**1.55**
Vegetables	No.	370	0.001	0.37					0	0	100	0.10	170	0.17	100	0.10	**370**	**0.37**
Vermi compost	No.	2	0.300	0.60					0	0	1	0.30	1	0.30	0	0.00	**2**	**0.60**
Crop Demonstration	No.	17	0.050	0.85					0	00	6	0.30	6	0.30	5	0.25	**17**	**0.85**
Compost pit		13	0.11	1.41					6	0.64	2	0.22	2	0.22	3	0.33	**13**	**1.41**
Livestock Management																		
(A) Animal Health Camp	No.	8	0.05	0.40					2	0.10	2	0.10	2	0.10	2	0.10	**8**	**0.40**
(B) Improved brid animal	No.	1	0.50	0.50					0	0	0	0	1	0.50	0	0	**1**	**0.50**
Distribution of Mangers		75	0.01	0.75					20	0.20	20	0.20	20	0.20	15	0.15	**75**	**0.75**
Distribution of Chaff Cutter		7	0.05	0.35					1	0.05	2	0.10	2	0.10	2	0.10	**7**	**0.35**
Total (C)		**1703**		**7.37**	**0**	**0.00**	**0**	**0.00**	**189**	**1.18**	**483**	**1.97**	**554**	**2.54**	**477**	**1.68**	**1703**	**7.37**

(D) Livelihood System 9%																			
Revolving Fund to SHG (minmun 60 % amt.)	No.	16	0.25	4.13					4	1.00	4	1.00	4	1.00	4	1.13	**16**	**4.13**
Revolving Fund to enterprising individual (maximum 10 % amount)	No.	2	0.25	0.50							1	0.25			1	0.25	**2**	**0.50**
Grant in aid to enterprising SHG or Federation of SHG individual (maximum 30 % amount)	No.	1	2.00	2.00							1	2.00					**1**	**2.00**
Total (D)		**19**		**6.63**	**0**	**0.00**	**0**	**0.00**	**4**	**1.00**	**6**	**3.25**	**4**	**1.00**	**5**	**1.38**	**19**	**6.63**
(E) Consolidation		**0**	**0**	**2.21**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1.21**	**0**	**1.00**	**0**	**2.21**
Grand Total		**1755**	**0.00**	**73.65**	**0**	**0.00**	**0**	**5.59**	**201**	**14.49**	**498**	**15.38**	**566**	**17.76**	**490**	**20.43**	**1755**	**73.65**
(F) Convergence with Agriculture Dept.																		
Sprinklers and Drip irrigation	No.	3	0.300	0.90	0	0	0	0	0	0	1	0.30	1	0.30	1	0.30	**3**	**0.90**
Grand Total		**1758**		**74.55**	**0**	**0.0**	**0**	**5.59**	**201**	**14.49**	**499**	**15.68**	**567**	**18.06**	**491**	**20.73**	**1758**	**74.55**

Assistant Engineer, PIA
WD&SC P.S Dantaramgarh

Project Manager, WCDC
WD&SC.Distt. Sikar

CHAPTER – VI EXPECTED OUT COMES

1	2	3	4	5	6
S. No.	**Item**	**Unit of measurement**	**Pre-project Status**	**Expected Post-project Status**	**Remarks**
1	Status of water table (Depth to Ground water level)	Meters	75	70	
2	Ground water structures repaired/ rejuvenated	No.	3	8	
3	Quality of drinking water	Description	Partial potable	Good	
4	Availability of drinking water	Description			
5	Change in irrigated Area	Ha	611	650	
6	Change in cropping/ land use pattern	Description			
7	Area under agricultural crop	Ha	4057	4110	
	I Ha	2910	3000		
	Ii Ha	611	921		
	Iii Ha	90	110		
8	Change in cultivated Area	Ha	Nil	353.82	
9 yield of major crops of area	Yield of Bajra	q/ha	823	835	
	Yield of Wheat	q/ha	2581	2650	
	Yield of Gram	q/ha	905	935	
	Yield of Mustard	q/ha	902	940	
10 production of major crops of area	Production of Bajra	ton	230.69	233.69	
	Production of Wheat	ton	642.66	710.43	
	Production of Gram	ton	125.79	140.81	
	Production of Mustard	ton	104.63	114.28	
11	Area under vegetation	Ha	1	10	
12	Area under horticulture	Ha	6	15	
13	Area under fuel	Ha	Nil	-	
14	Area under Fodder	Ha	90	110	
15	Fodder production	Q	13840.99	15000	

16	Milk production	Litres/day	12138	13010	
17	SHGs Active	No.	39	56	
18	No. of enterprising individuals	No.	502	550	
19	Income	Rs.in la	238.40	339.60	
20	Migration	No.	566	450	
21	SHG Federations formed	No.	Nil	1	

Critical Assumption

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

Means of Verification of indicators

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

CHAPTER VII 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 provided by the Department is to be used & if not vailable than rates of Agriculture/Horticulture/ Animal Husbandry should be used.

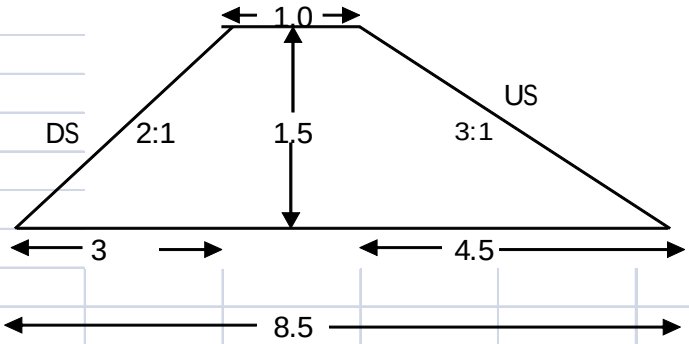
For Livelihood activities, project norms provided by the Department is to be used & if not available than cost norms of NABARD, NRLM etc can be used.

Suliyawas IWMP

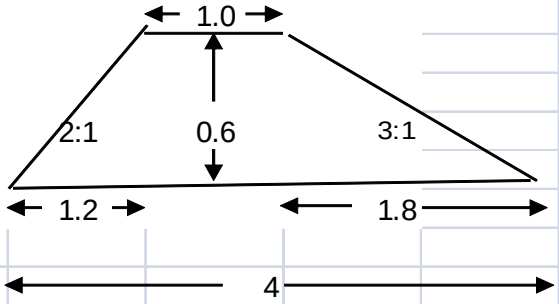
Earthen chack dam

Length in m 16

Maximum cross section



Minimum cross section on both sides



CS $\frac{(Tw+Bw)}{2} * Hight$

CS 7.125

CS 1.5

Average Cross section 3.375

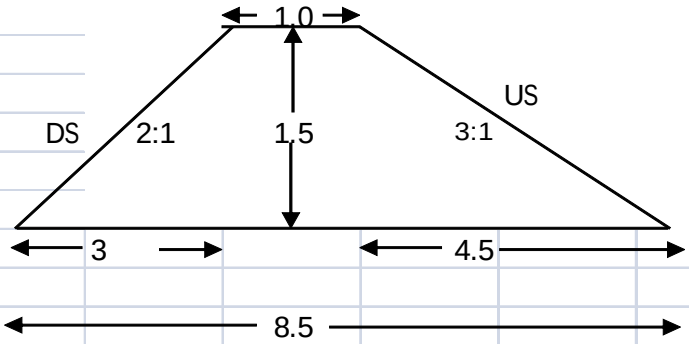
Sr.no.	Name of work	BSR Itam No	Length	Cross secction	Qty	Unit	Rate	Amount
1	Earth work Excavation in hard soil up to 1.5 mt Hight and deposited excavated	119 B	16	3.38	54.00	Cum	95	5130.00
2	Dry stone pitching 23cm thick	124	16.00	4.50	16.56	Cum	1062	17586.72
3	Vegetation				Ls			600
								23316.72
						3% contengency		699.50
	Total							**24016.22**
						Say		**24000**

Suliyawas IWMP

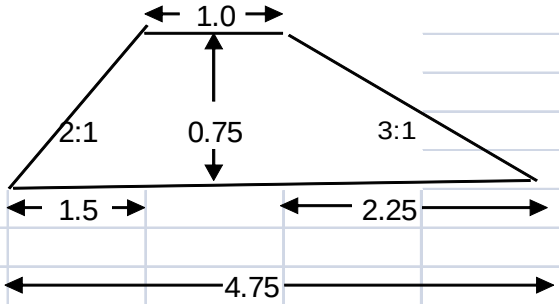
Earthen chack dam

Length in m 55

Maximum cross section



Minimum cross section on both sides



CS $\frac{(Tw+Bw)}{2}$ *Hight

CS 7.125

CS 2.15625

Average Cross section 3.8125

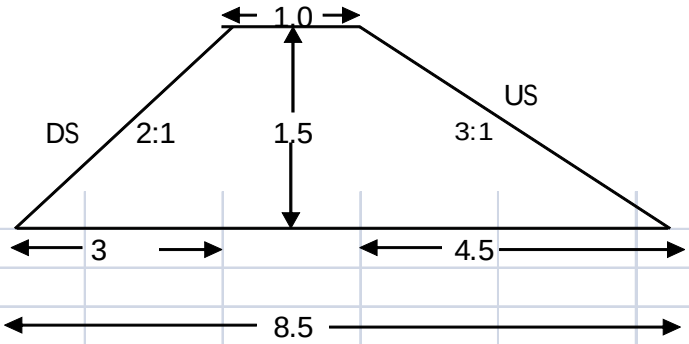
Sr.no.	Name of work	BSR Itam No	Length	Cross secction	Qty	Unit	Rate	Amount
1	Earth work Excavation in hard soil up to 1.5 mt Hight and deposited excavated	119 B	55	3.81	209.69	Cum	95	19920.31
2	Dry stone pitching 23cm thick	124	55.00	4.50	56.93	Cum	1062	60454.35
3	Vegetation				Ls			2500
								82874.66
						3% contengency		2486.24
	Total							**85360.90**
						Say		**85000**

Suliyawas IWMP

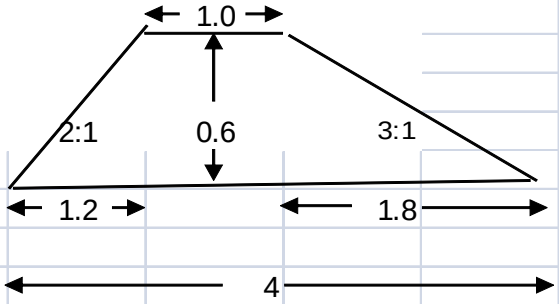
Earthen chack dam

Length in m 30

Maximum cross section



Minimum cross section on both sides



CS $\frac{(Tw+Bw)}{2} * Hight$

CS 7.125

CS 1.5

Average Cross section 3.375

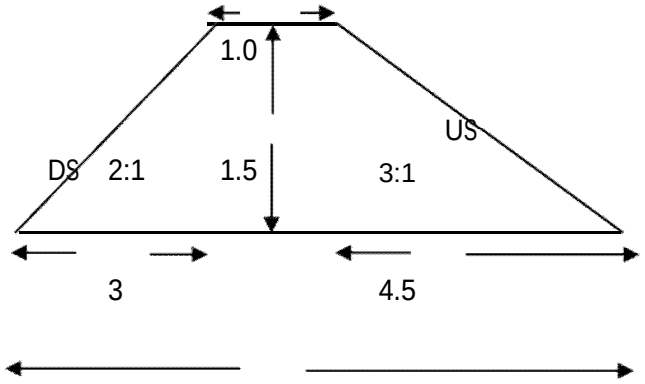
Sr.no.	Name of work	BSR Itam No	Length	Cross secction	Qty	Unit	Rate	Amount
1	Earth work Excavation in hard soil up to 1.5 mt Hight and deposited excavated	119 B	30	3.38	101.25	Cum	95	9618.75
2	Dry stone pitching 23cm thick	124	30.00	4.50	31.05	Cum	1062	32975.10
3	Vegetation				Ls			1400
								43993.85
						3% contengency		1319.82
	Total							**45313.67**
						Say		**45000**

Suliyawas IWMP

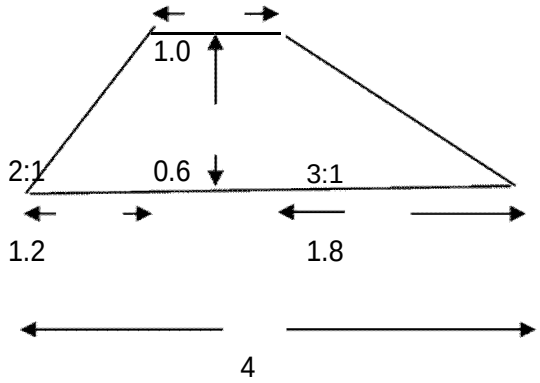
Earthen chack dam

Length in m 23

Maximum cross section



Minimum cross section on both sides



CS $\frac{(Tw+Bw)}{2}$ *Hight

CS 7.125

CS 1.5

Average Cross section 3.375

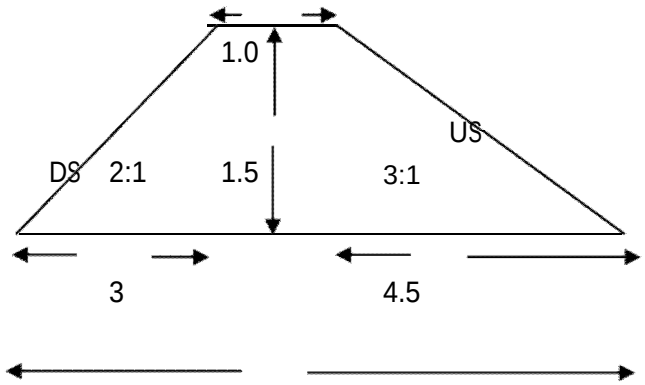
Sr.no.	Name of work	BSR Itam No	Length	Cross secction	Qty	Unit	Rate	Amount
1	Earth work Excavation in hard soil up to 1.5 mt Hight and deposited excavated meterial lead op to 50	119 B	23	3.38	77.63	Cum	95	7374.38
2	Dry stone pitching 23cm thick	124	23.00	4.50	23.81	Cum	1062	25280.91
3	Vegetation				Ls			1400
								34055.29
						3% contengency		1021.66
	Total							**35076.94**
						Say		**35000**

Suliyawas IWMP

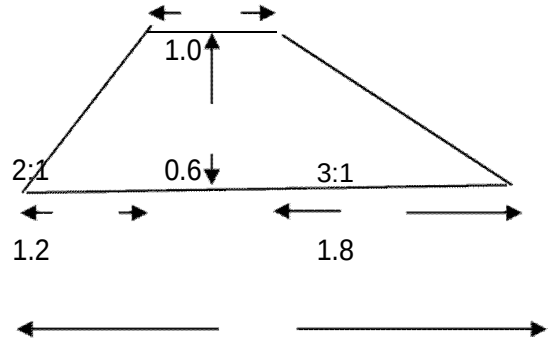
Earthen chack dam

Length in m 30

Maximum cross section



Minimum cross section on both sides



CS $\frac{(Tw+Bw)}{2}$ *Hight

CS 7.125

CS 1.5

Average Cross section 3.375

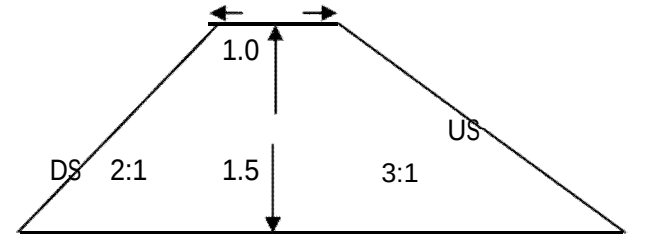
Sr.no.	Name of work	BSR Itam No	Length	Cross secction	Qty	Unit	Rate	Amount
1	Earth work Excavation in hard soil up to 1.5 mt Hight and deposited excavated meterial lead op to 50	119 B	30	3.38	101.25	Cum	95	9618.75
2	Dry stone pitching 23cm thick	124	30.00	4.50	31.05	Cum	1062	32975.10
3	Vegetation				Ls			1400
								43993.85
						3% contengency		1319.82
	Total							**45313.67**
						Say		**45000**

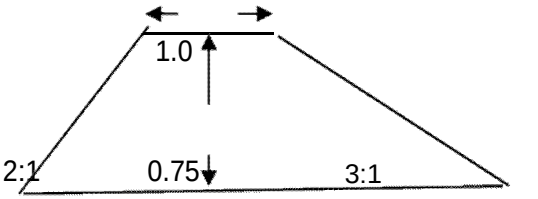
Suliyawas IWMP

Earthen chack dam

Length in m 32

Maximum cross section Minimum cross section on both sides





$$CS = \frac{(\overline{Tw+Bw}) * Hight}{2}$$

CS 7.125 CS 2.15625

Average Cross section 3.8125

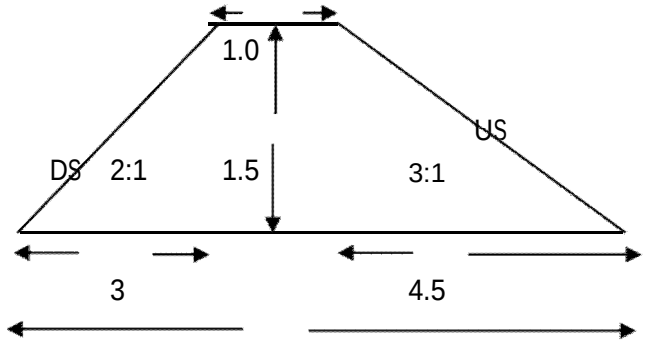
Sr.no.	Name of work	BSR Itam No	Length	Cross secction	Qty	Unit	Rate	Amount
1	Earth work Excavation in hard soil up to 1.5 mt Hight and deposited excavated meterial lead op to 50	119 B	32	3.81	122.00	Cum	95	11590.00
2	Dry stone pitching 23cm thick	124	32.00	4.50	33.12	Cum	1062	35173.44
3	Vegetation				Ls			1900
								48663.44
						3% contengency		1459.90
	Total							**50123.34**
						Say		**50000**

Suliyawas IWMP

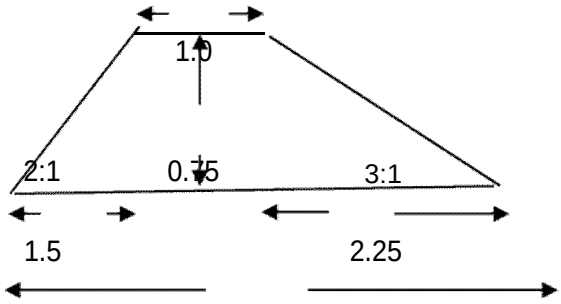
Earthen chack dam

Length in m 35

Maximum cross section



Minimum cross section on both sides



(Tw+Bw)

CS *Hight

2

CS 7.125

CS 2.15625

Average Cross section 3.8125

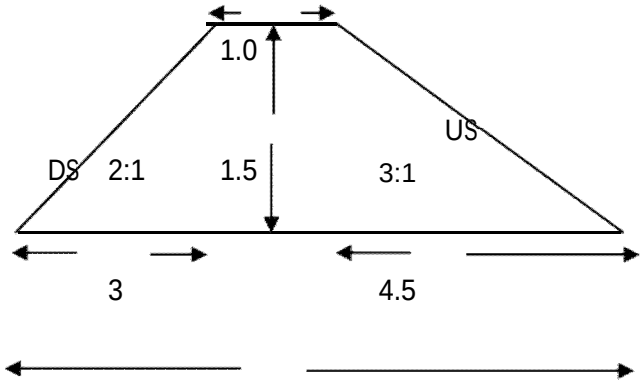
Sr.no.	Name of work	BSR Itam No	Length	Cross secction	Qty	Unit	Rate	Amount
1	Earth work Excavation in hard soil up to 1.5 mt Hight and deposited excavated meterial lead op to 50	119 B	35	3.81	133.44	Cum	95	12676.56
2	Dry stone pitching 23cm thick	124	35.00	4.50	36.23	Cum	1062	38470.95
3	Vegetation				Ls			2700
								53847.51
						3% contengency		1615.43
	Total							**55462.94**
						Say		**55000**

Suliyawas IWMP

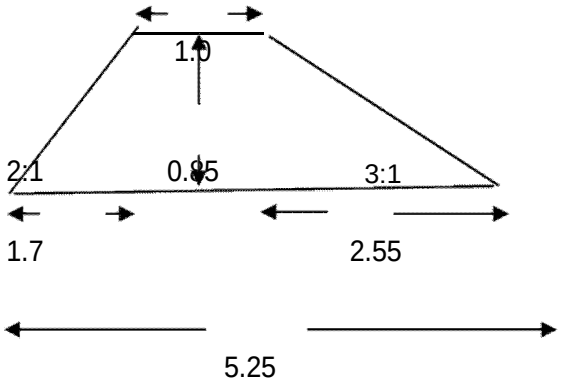
Earthen chack dam

Length in m 40

Maximum cross section



Minimum cross section on both sides



$$CS = \frac{(\overline{Tw+Bw}) * Hight}{2}$$

CS 7.125

CS 2.65625

Average Cross section 4.145833

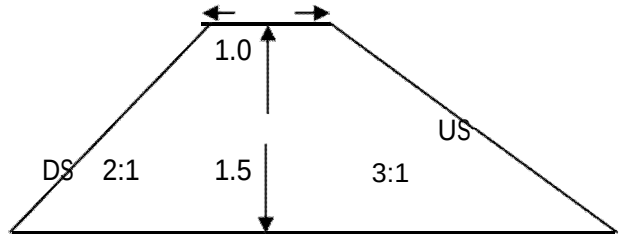
Sr.no.	Name of work	BSR Itam No	Length	Cross secction	Qty	Unit	Rate	Amount
1	Earth work Excavation in hard soil up to 1.5 mt Hight and deposited excavated meterial lead op to 50	119 B	40	4.15	165.83	Cum	95	15754.17
2	Dry stone pitching 23cm thick	124	40.00	4.50	41.40	Cum	1062	43966.80
3	Vegetation				Ls			3800
								63520.97
						3% contengency		1905.63
	Total							**65426.60**
						Say		**65000**

Suliyawas IWMP

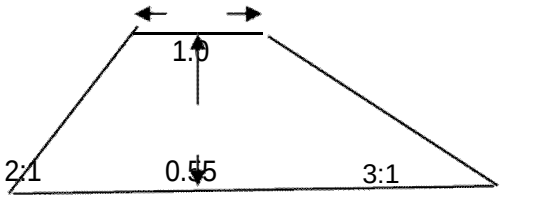
Earthen chack dam

Length in m 50

Maximum cross section



Minimum cross section on both sides



$$CS = \frac{(\overline{Tw+Bw}) * Hight}{2}$$

CS 7.125

CS 1.30625

Average Cross section 3.245833

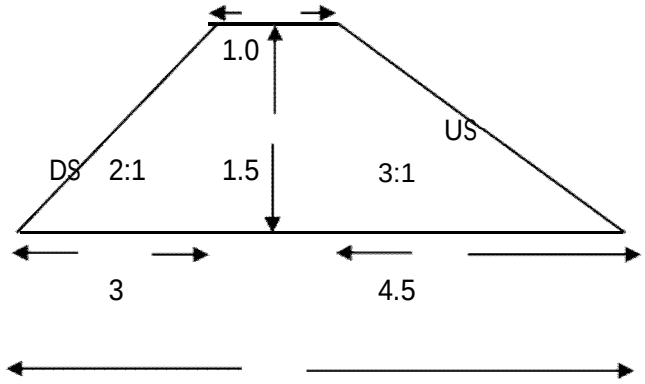
Sr.no.	Name of work	BSR Itam No	Length	Cross secction	Qty	Unit	Rate	Amount
1	Earth work Excavation in hard soil up to 1.5 mt Hight and deposited excavated meterial lead op to 50	119 B	50	3.25	162.29	Cum	95	15417.71
2	Dry stone pitching 23cm thick	124	50.00	4.50	51.75	Cum	1062	54958.50
3	Vegetation				Ls			2500
								72876.21
						3% contengency		2186.29
	Total							**75062.49**
						Say		**75000**

Suliyawas IWMP

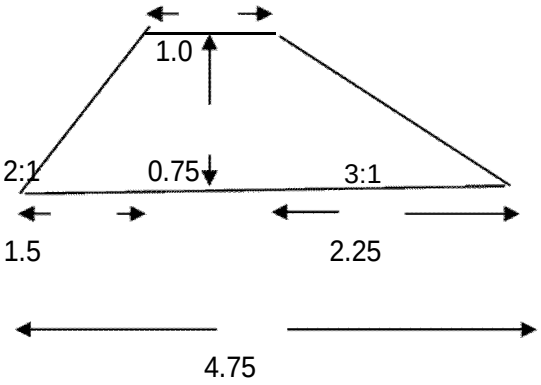
Earthen chack dam

Length in m 55

Maximum cross section



Minimum cross section on both sides



(Tw+Bw)

CS *Hight

2

CS 7.125

CS 2.15625

Average Cross section 3.8125

Sr.no.	Name of work	BSR Itam No	Length	Cross secction	Qty	Unit	Rate	Amount
1	Earth work Excavation in hard soil up to 1.5 mt Hight and deposited excavated meterial lead op to 50	119 B	55	3.81	209.69	Cum	95	19920.31
2	Dry stone pitching 23cm thick	124	55.00	4.50	56.93	Cum	1062	60454.35
3	Vegetation				Ls			2500
								82874.66
						3% contengency		2486.24
	Total							**85360.90**
						Say		**85000**

Model estimate

Agroforestry plant

Name of Plant

Cost per plant

S.No	Discription	Total		Qty	Unit	Rate	Amount
		Year	No./Year				
1	Diging of pit		1	1.00	nos	7.5	7.50
2	Mixing with soil & filling pit		1	0.09	cum.	45	4.10
3	Plant cost		1	1	No	5	5.00
4	Warering of plant	3	12	36	no	2.2	79.20
5	Planting tree			1	No.	3.7	3.70
6	Weeding & hoeing	3	1	3	No.	1.5	4.50
	TOTAL						**104.00**
							104.00
						Say	**104.00**

Note :-

Farmer will be traind for Agroforestory palntation in Treaning programme be conducted by watershed (PIA)

Farmer will ensured for Watch and Ward by himself

Model estimate

Horticulture *Cost per plant*

Pit size 0.9x0.9x0.9

S.No	Discription	Total		Unit	Qty	Rate	Amount
		Year	No./Year				
1	Diging of pit		1	cum.	0.73	95	69.35
2	Apply of manure						
	(A) Compost Khad			kg.	5.00	0.4	2.00
	(B) S.S.P. (16%)			kg.	1.00	5	5.00
	(C) Endosulphan (4%)			kg.	0.10	30	3.00
3	Mixing with soil & filling pit		1	cum.	0.73	45	32.81
4	Plant cost		1	No	1.00	25	25.00
5	Planting tree			No.	1.00	5	5.00
6	Watering of Plant	3	12	No	36.00	2.2	79.20
7	Weeding & hoeing	3	2	No.	6.00	1.5	9.00
8	Sprey					5	
	(A) Endosulphan (35 ec)	3	0.01	Ltr.	0.03	280	8.40
	(B) Sulpher	3	0.02		0.06	200	12.00
	TOTAL						**250.76**
						Say	**251.00**

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

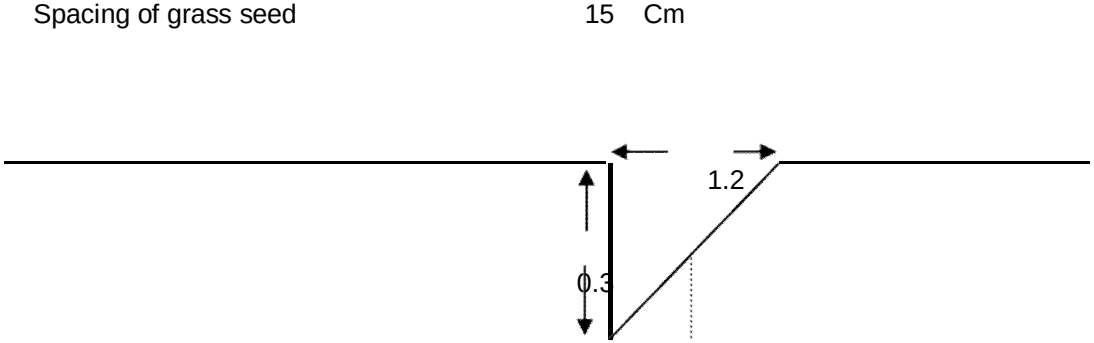
Farmer will ensured for Watch and Ward by himself

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

Estimate for V.Ditch

Area	Length	Width	Interwell	No of row	Length
Ha	mtr	mtr	mtr		mtr
5	400	125	5	80	10000

Dhaman require =5 kg/ha	25	Kg
Spacing	5	mtr
Spacing of grass seed	15	Cm

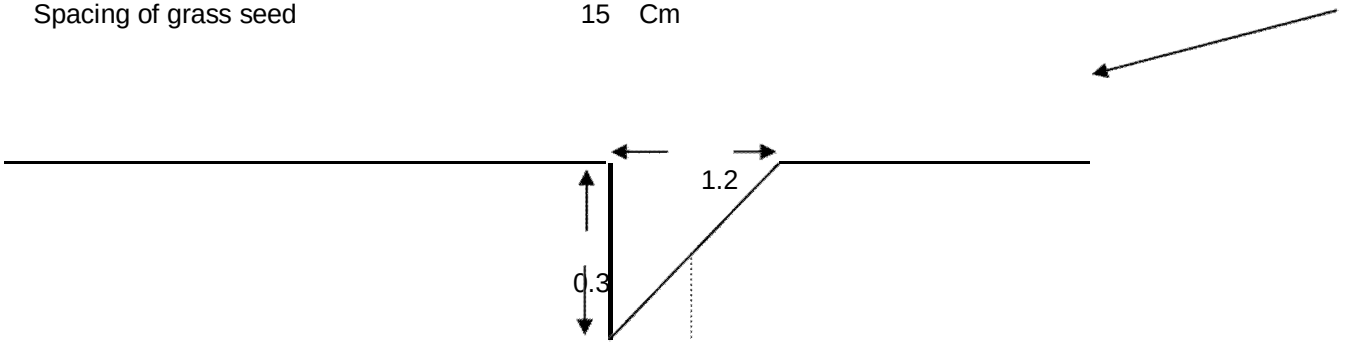


Sr. no.	Name of work	Item no.	No	Length	Width	Hight	Qty	Unit	Rate	Amount
1	Jungal clearence July flora	87		10000	1.5		15000	Sqm	6.37	95550
2	Earth work Excavation in hard soil up to 1.5 mt Hight and deposited excavated meterial lead op to 50	119(b)	0.5	10000	1.20	0.3	1800.00	Cum	95	171000.0
			Kg							
3	Sowing of grass seed over bund						10000	Rm	0.25	2500.0
4	Cost of seed	LS					25	Kg	120	3000.0
										272050.0
							Add 3% contengecy			8161.5
								Total		280211.5
								Say		**280000**

Estimate for V.Ditch

Area	Length	Width	Interwell	No of row	Length
Ha	mtr	mtr	mtr		mtr
10	400	250	5	80	20000

Dhaman require =5 kg/ha	50	Kg
Spacing	5	mtr
Spacing of grass seed	15	Cm



Sr. no.	Name of work	Item no.	No	Length	Width	Hight	Qty	Unit	Rate	Amount
1	Jungal clearence July flora	87		10000	1.5		15000	Sqm	6.37	95550
2	Earth work Excavation in hard soil up to 1.5 mt Hight and deposited excavated meterial lead op to 50	119(b)	0.5	20000	1.20	0.3	3600.00	Cum	95	342000.0
			Kg							
3	Sowing of grass seed over bund						10000	Rm	0.25	2500.0
4	Cost of seed	LS					25	Kg	120	3000.0
										443050.0
							Add 3% contengecy			13291.5
								Total		456341.5
								Say		**456000**

Silvi Pasture Development

Area 5 ha

Abstruct of Cost

Name of work	Cost	
V ditches	280000	
Planation	468000	
Fencing	177000	
	925000	
Say	**925000**	Lacs

Model estimate

	Length	***Width***	***Area***			
Plant to pant Spacing	*5*	*5*	*#*	***Sqm***	***No of plant***	***2000***
Avalable Area			***5***	***Ha***	***Gap filling 20%***	***400***
					Total no of Plants	***2400***

Plantation *Cost per plant*

S.No	Discription	Item no	Total		Length	Width	Hight	Qty	Unit	Rate	Amount	Amount for 5 ha.
			Year	No./Year								
1	Diging of pit in Hard soil	112		1	0.45	0.45	0.45	1	No	7.5	7.50	18000
2	Mixing with soil & filling pit	5		1	0.45	0.45	0.3	0	cum.	45	2.73	6561

3	Cost of Plant including 20%gap filling	As per forest						1	No.	5	5.00	12000
4	Planting tree	113(b)						1	No.	3.7	3.70	8880
5	Making thavla	117(b)	3	2				6	No.	2.2	39.60	79200
6	Hoeing & weeding	116	3	2				6	No.	1.5	9.00	18000
7	Insectiside treatment	Market rate	3	3	5 ml			0	Ltr	300	13.50	27000
8	Watering	115	3	6				18	no	2.2	39.60	79200
9	Watch & ward	Minimu m weges	3	26				26	Month	4316	56	112216
10	Proction of plant from frost using pulla or other locally available material	As per forest	2	1				2	no	4.8	9.60	19200
				Water require per watering	Waterring per year	No of plant		Water requirement				
11	Supply of water tanker		3	15	6	1		270	per3000lt	340	30.60	61200
12	grass seed sowing by Tractor	As per forest						4	Ha	2532.5		10130
13	Cost of Seed 5x4=20kg	Ls						20		120		2400
	TOTAL										**217**	**453987**
	Cost per plant		113.50						Contengency 3%			13620
									Grand total			**467607**
											Say	**468000**

Problem & solution:- NEEL GAY (Roz) can destroy all plantation work. Such that Watch and ward require on agriment

Note :- We have Chokidar for this Area in this estimate. We supplying water by Tanker .
Estimate include gap filling 20 %

Model estimate

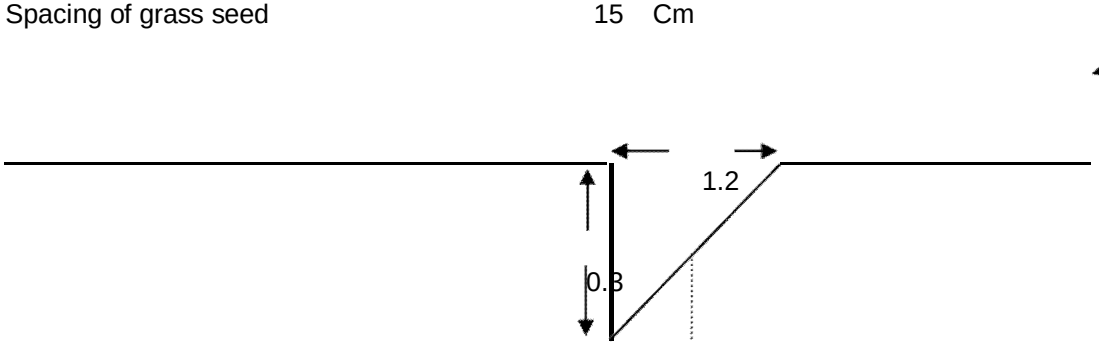
Fencing post

S.No	Discription	Item no.	No	Quantity	Unit	Rate	Amount
1	Cement concrete(1:2:4) post (15+25)/2x30=0.0127cum	123	350	4.445	cum	3318	14748.51
2	Loading & unloading of blocks	Forest BSR item	350	350.00	No	1.35	472.50
3	Digging of pits including local transportation size.3x.3x.35	Forest BSR item	350	550.00	No	8.15	4482.50
4	Supplying of angle iron 2m length 30mmx30mmx5mm size	79	350	1540.00	kg	72.3	111342.00
5	Supply of barberbed wire fencing 14 gauge 550x6=3300m,3300x0.1=330kg	2	6	330	Kg	65	21450.00
6	Tidening of barberded wire	Forest BSR item	6	6300	mtr	1.3	8190.00
7	Interlocking of barbedwire with locally available bussy material	Forest BSR item	1	1050.00	No	9.2	9660.00
8	Planting of forest seed of tree species along the fancing at spacing of 30cm	Forest BSR item	1	1050	No	0.4	420.00
9	Cost of seed	Ls		8	kg	120	960.00
				Total			**171725.51**
				Add 3% contengency			5151.77
							176877.28
					Say		**177000**

Estimate for V.Ditch

Area	Length	Width	Interwell	No of row	Length
Ha	mtr	mtr	mtr		mtr
5	400	125	5	80	10000

Dhaman require =5 kg/ha 25 Kg
Spacing 5 mtr
Spacing of grass seed 15 Cm



Sr. no.	Name of work	Item no.	No	Length	Width	Hight	Qty	Unit	Rate	Amount
1	Jungal clearence July flora	87		10000	1.5		15000	Sqm	6.37	95550
2	Earth work Excavation in hard soil up to 1.5 mt Hight and deposited excavated meterial lead op to 50	119(b)	0.5	10000	1.20	0.3	1800.00	Cum	95	171000.0
			Kg							
3	Sowing of grass seed over bund						10000	Rm	0.25	2500.0
4	Cost of seed	LS					25	Kg	120	3000.0
										272050.0
							Add 3% contengecy			8161.5
								Total		280211.5
								Say		**280000**

Silvi Pasture Development

Area 10 ha

Abstruct of Cost

Name of work	Cost
V ditches	456000
Planation	807000
Fencing	353000
	1616000
Say	**1616000** Lacs

Model estimate

	Length	***Width***	***Area***			
Plant to pant Spacing	*5*	*5*	***25***	***Sqm***	***No of plant***	***4000***
Avalable Area			***10***	***Ha***	***Gap filling 20%***	***800***
					Total no of Plants	***4800***

Plantation *Cost per plant*

S.No	Discription	Item no	Total		Length	Width	Hight	Qty	Unit	Rate	Amount	Amount for 5 ha.
			Year	No./Year								
1	Diging of pit in Hard soil	112		1	0.45	0.45	0.45	1	No	7.5	7.50	36000
2	Mixing with soil & filling pit	5		1	0.45	0.45	0.3	0	cum.	45	2.73	13122
3	Cost of Plant including 20%gap filling	As per forest						1	No.	5	5.00	24000
4	Planting tree	113(b)						1	No.	3.7	3.70	17760

5	Making thavla	117(b)	3	2				6	No.	2.2	39.60	158400
6	Hoeing & weeding	116	3	2				6	No.	1.5	9.00	36000
7	Insectiside treatment	Market rate	3	3	5 ml			0	Ltr	300	13.50	54000
8	Watering	115	3	6				18	no	2.2	39.60	158400
9	Watch & ward	Minimum weges	3	26				26	Month	4316	28	112216
10	Proction of plant from frost using pulla or other locally available material	As per forest	2	1				2	no	4.8	9.60	38400
				Water require per watering	Waterring per year	No of plant		Water requirement				
11	Supply of water tanker		3	15	6	1		270	per3000lt	340	30.60	122400
12	grass seed sowing by Tractor	As per forest						4	Ha	2532.5		10130
13	Cost of Seed 5x4=20kg	Ls						20		120		2400
	TOTAL										**189**	**783228**
	Cost per plant		195.81						Contengency 3%			23497
									Grand total			**806725**
											Say	**807000**

Problem & solution:- NEEL GAY (Roz) can destroy all plantation work. Such that Watch and ward require on agriment

Note :- We have Chokidar for this Area in this estimate. We supplying water by Tanker .
Estimate include gap filling 20 %

Model estimate

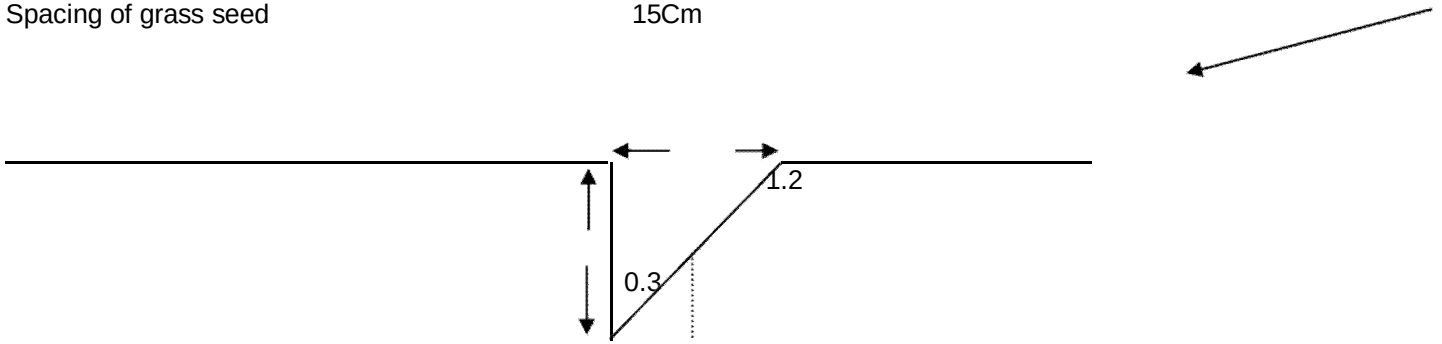
Fencing post

S.No	Discription	Item no.	No	Quantity	Unit	Rate	Amount
1	Cement concrete(1:2:4) post (15+25)/2x30=0.0127cum	123	700	8.89	cum	3318	29497.02
2	Loading & unloading of blocks	Forest BSR item	700	700.00	No	1.35	945.00
3	Digging of pits including local transportation size.3x.3x.35	Forest BSR item	700	1100.00	No	8.15	8965.00
4	Supplying of angle iron 2m length 30mmx30mmx5mm size	79	700	3080.00	kg	72.3	222684.00
5	Supply of barberbed wire fencing 14 gauge 1100x6=6600m,6600x0.1=660kg	2	12	660	Kg	65	42900.00
6	Tidening of barberded wire	Forest BSR item	12	12600	mtr	1.3	16380.00
7	Interlocking of barbedwire with locally available bussy material	Forest BSR item	2	2100.00	No	9.2	19320.00
8	Planting of forest seed of tree species along the fancing at spacing of 30cm	Forest BSR item	1	2100	No	0.4	840.00
9	Cost of seed	Ls		8	kg	120	960.00
				Total			**342491.02**
				Add 3% contengency			10274.73
							352765.75
					Say		**353000**

Estimate for V.Ditch

Area	Length	Width	Interwell	No of row	Length
Ha	mtr	mtr	mtr		mtr
10	400	250	5	80	20000

Dhaman require =5 kg/ha 50Kg
Spacing 5mtr
Spacing of grass seed 15Cm



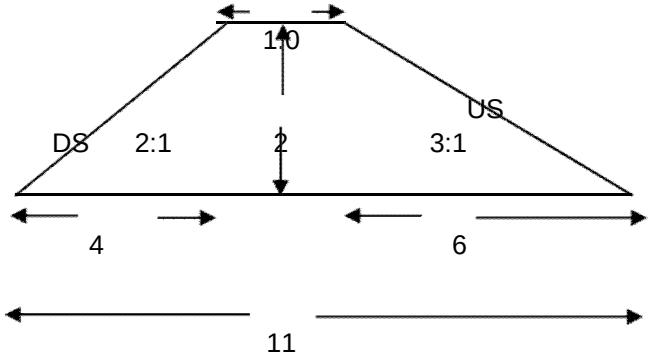
Sr. no.	Name of work	Item no.	No	Length	Width	Hight	Qty	Unit	Rate	Amount
1	Jungal clearence July flora	87		10000	1.5		15000	Sqm	6.37	95550
2	Earth work Excavation in hard soil up to 1.5 mt Hight and deposited excavated meterial lead op to 50	119(b)	0.5	20000	1.20	0.3	3600.00	Cum	95	342000.0
			Kg							
3	Sowing of grass seed over bund						10000	Rm	0.25	2500.0
4	Cost of seed	LS					25	Kg	120	3000.0
										443050.0
							Add 3% contengecy			13291.5
								Total		456341.5
								Say		**456000**

Suliyawas IWMP

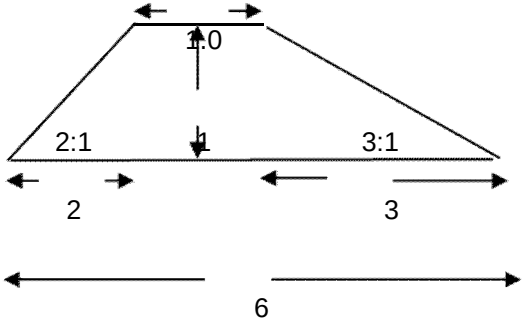
Earthen bund

Length in m 163

Maximum cross section



Minimum cross section on both sides



CS $\frac{(\overline{Tw+Bw})}{2}$ *Hight

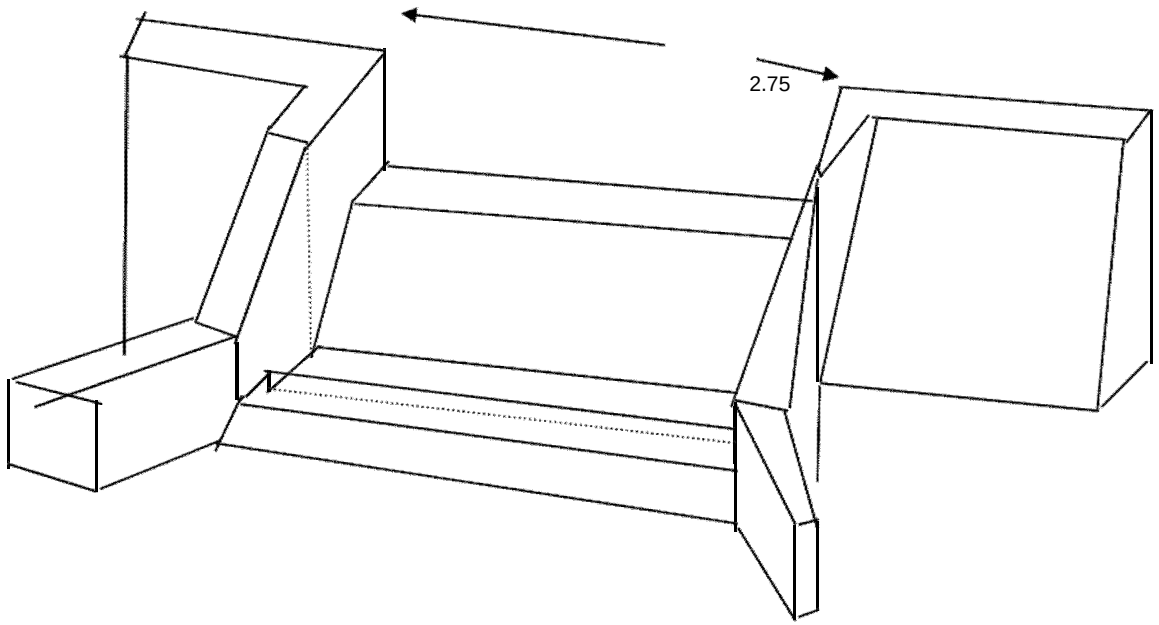
CS 12

CS 3.5

Average Cross section 6.333333

Sr.no.	Name of work	BSR Itam No	Length	Cross secction	Qty	Unit	Rate	Amount
1	Earth work Excavation in hard soil up to 1.5 mt Hight and deposited excavated meterial lead op to 50	119 B	163	6.33	1032.33	Cum	95	98071.67
2	Dry stone pitching 23cm thick	123	163.00	4.50	168.71	Cum	1062	179164.71
3	Vegetation				Ls			2500
								279736.38
						3% contengency		8392.09
	Total							**288128.47**

Model Estimate
Water Harvesting Structure
Suliyawas
IWMP



Design as per field topography

Area	5	ha.
Slope	1 to 4 %	
maximum hight	2	mtr.
maximum lenth of treval	180	mtr.

Abstruct of cost

Cost of waste weir	61968
Cost of earthen bund	288128
Total	**350097**
Say	**3.5 lac.**

Water Harvesting Structure

Data to put

A	C	*L*	*H*	h	I	Df
5	0.2	180	1	0.3	10	30

Hydrologic Design

Q=0.0276 CIA

Q= Peak rate run off in Cum/Sec.

C= Weighted cofficient of run off

I= Intencity of rain fall in Cm./hr.

for equal to time of constration at a given Frequency

A= Catchment area in Hectares

Q	Cofficient	I	A	C
0.773	0.0276	28	5	0.2

$TC=0.0195\ K^{0.77}$

TC=Time of constration in minute

TC=Time of constration in minute

$K= L^{3/2}/H^{½}$

L= Max. length of travel in Mtr.

H=Diffrence elevation in Mtr.

K	*L*	$L^{3/2}$	*H*	$H^{½}$
2415	180	2415	1	1.000

TC	Cofficient	K	$K^{.77}$
7.85	0.0195	2415	402.6

28 Use this As I As Reference

10 I=one hour rain fall intensity in cm/hour

Hydraulic Design

Q	Cofficient	L	h	$h^{1.5}$
0.773	1.71	2.75	0.3	0.164

h=head over the crest in mtr

L=length of the crest wall in mtr

9.021

F	Cofficient	h_w
0.115	1.5	0.077

F=free board in mtr

0.2

h_w	Cofficient	D_f	$D_f^{0.5}$
0.077	0.014	30	5.48

D_f=fatch length in mtr

hw=wave length in mtr

d	h	F
0.5	0.3	0.2

Structural Design

H	h	d	p
1	0.3	0.5	2.3

1	Top width of head wall a	$a=h/(p-1)^{0.5}$	h	p	p-1	$(p-1)^{0.5}$	
		0.26	0.3	2.3	1.3	1.14	
		Say 0.45					
2	Bottom width of head wall b	$b=h+H/(p-1)^{0.5}$	h	H	H+h	p	p-1
		1.140	0.3	1	1.3	2.3	1.3
		Say 1.20					
3	Length of head wall ext l	l=H+d+1	H	d	cofficient		
		2.5	1	0.5	1		
4	Hight of head wall ext	H+d	H	d			
		1.5	1	0.5			
5	Bottom width of head wall ext	0.5(H+h)	H	h	H+h	cofficient	
		0.65	1	0.3	1.3	0.5	
		0.75					
6	Top width of head wall ext	0.4*H	H	cofficient			
		0.4	1	0.4			
7	Length of basin LB	0.75(H+d)+H	H	d	H+d	0.75(H+d)	
		2.13	1	0.5	1.5	1.125	
8	Thickness of basin	t					
		0.5					
9	Hight of the side wall at head wall joint	H+d	H	d			
		1.5	1	0.5			
10	Hight of the side wall at toe wall joint	1.5*h	cofficient	h			
		0.45	1.5	0.3			
11	Length of wing wall	2.25*h	cofficient	h			
		0.675	2.25	0.3			
12	Height of wing wall	1.5*h	cofficient	h			
		0.45	1.5	0.3			
13	Top width of toe wall	0.35					
14	Height of toe wall	0.3					
15	Thickness of side wall	0.45					

Suliyawas IWMP

0 0 0 0 0 0

a .= Top width of head wall in m.
b = Bottom width of head wall in m.
Fa = Water force in Kg

Fb = Water force in Kg
Fc = Water force in Kg

U = uplift force in Kg
ρ = Specific gravity of dam material kg/cum(2300kg/cum)
w = Unit weight of water in kg/cum(1000 kg/cum)
H = Height of head wall
h = head over the crest
C = Coefficient in uplift (0.5)
μ = Coefficient of friction (0.65 to 0.75)

a	b	H	h	ρ	C	w
0.45	1.20	1	0.3	2300	0.5	1000

W1 =

a Hρ	a	H	ρ
1035	0.45	1	2300

W2 =

½(b-a)Hρ	b	a	H	ρ	cofficient
862.5	1.20	0.45	1	2300	0.5

U =

½Cw(H+h)b	w	H	h	H+h	b	cofficient
390	1000	1	0.3	1.3	1.20	0.5

Fa =

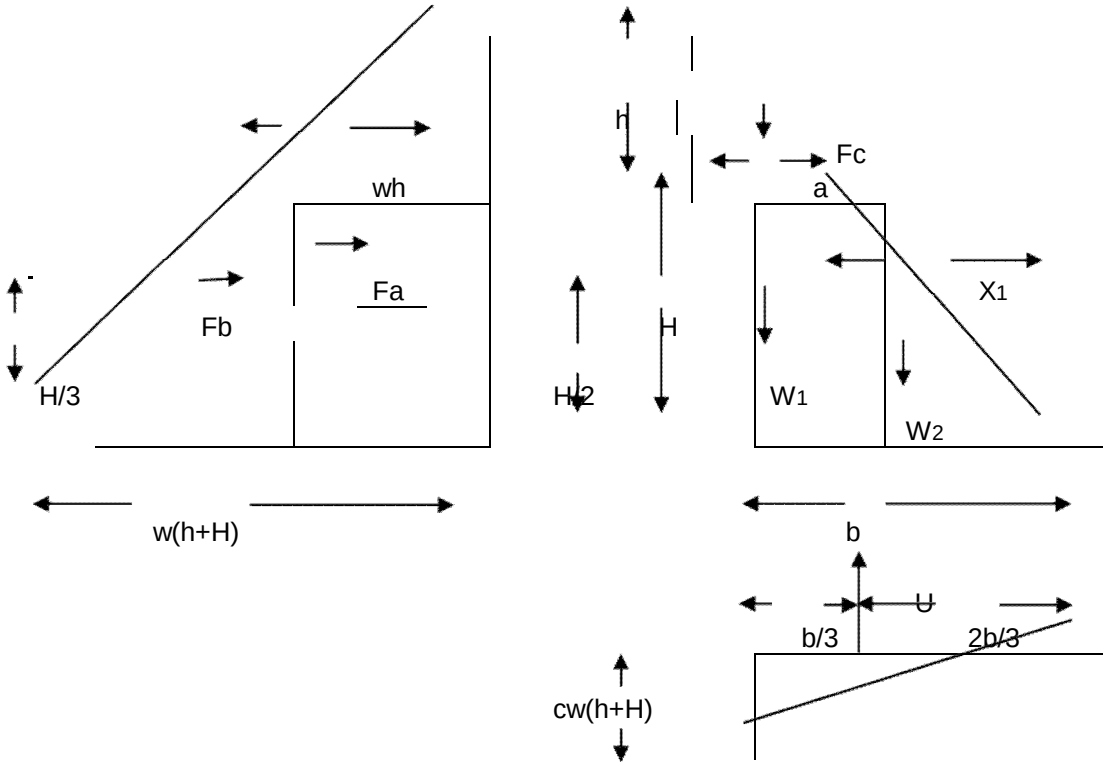
whH	w	h	H
300	1000	0.3	1

Fb =

$wH^2 / 2$	w	H	H	H^2	cofficient
500	1000	1	1	1	0.5

Fc =

wah	w	a	h
135	1000	0.45	0.3



H	1.00
h	0.3
a	0.45
b	1.20
w	1000

W1	1035
W2	862.5
U	390
Fa	300
Fb	500
Fc	135

Safety against overturning

W1	x1	Fc	Fa	Fb	U	a	b	W_2
1035	0.975	135	300	500	390	0.45	1.20	862.5

	H	U
	1	390

RM	$W_1x_1+Fcx_1+W_2.2(b-a)/3$						
	W_1x_1	Fcx_1	$W_2.2(b-a)/3$	b	a	b-a	coffi
1567.69	1009.125	131.625	426.94	1.20	0.45	0.75	0.66

OM	$F_axH/2+F_bxH/3+Ux2b/3$		
	$F_axH/2$	$F_bxH/3$	Ux2b/3
628.6667	150	166.6667	312

RM	OM	RM/OM		
1567.69	628.6667	2.49367	>1.5	Hance safe

Safety against sliding

Tv	W1	W2	Fc	U	
1642.5	1035	862.5	135	390	
Th	Fa	Fb		Frictional	cofficient
800	300	500			0.8
C.F*Tv/Th	1.64	>1.3	Hence safe		

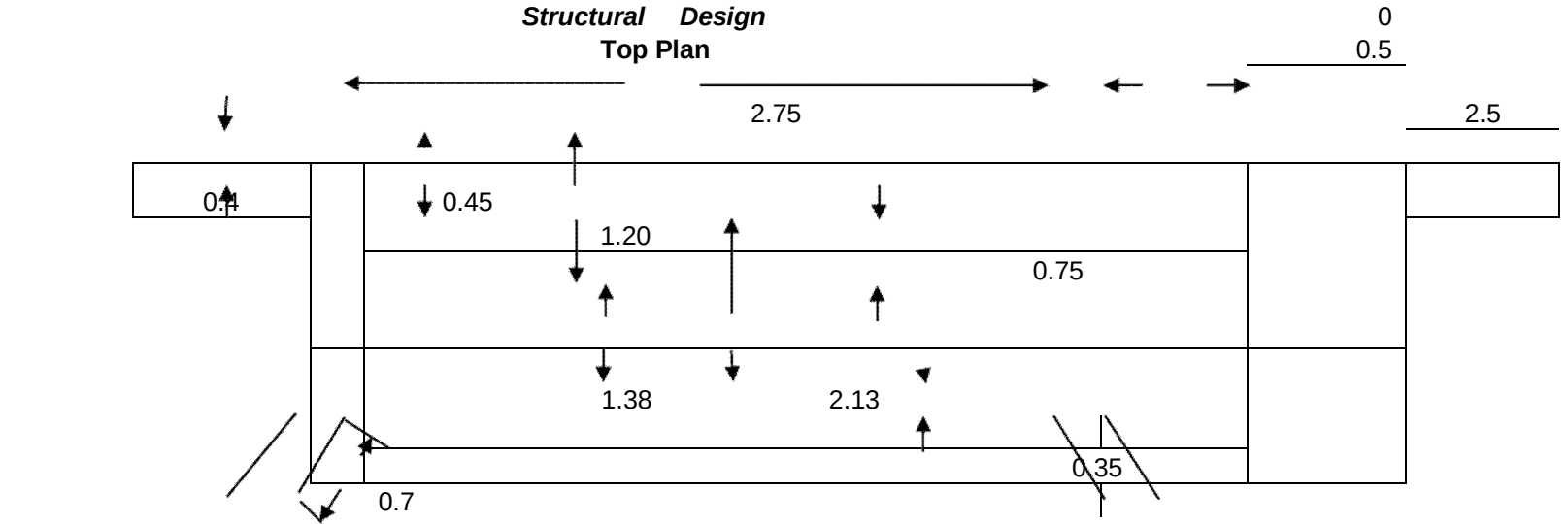
Safety against tension at base

X=(RM-OM)/Tv		RM-OM	Tv
0.572		939.02	1642.5
E=b/2-X	b/2	X	
0.028	0.6	0.572	

e	b/6	
0.028	0.200	b/6>e
		Hance safe

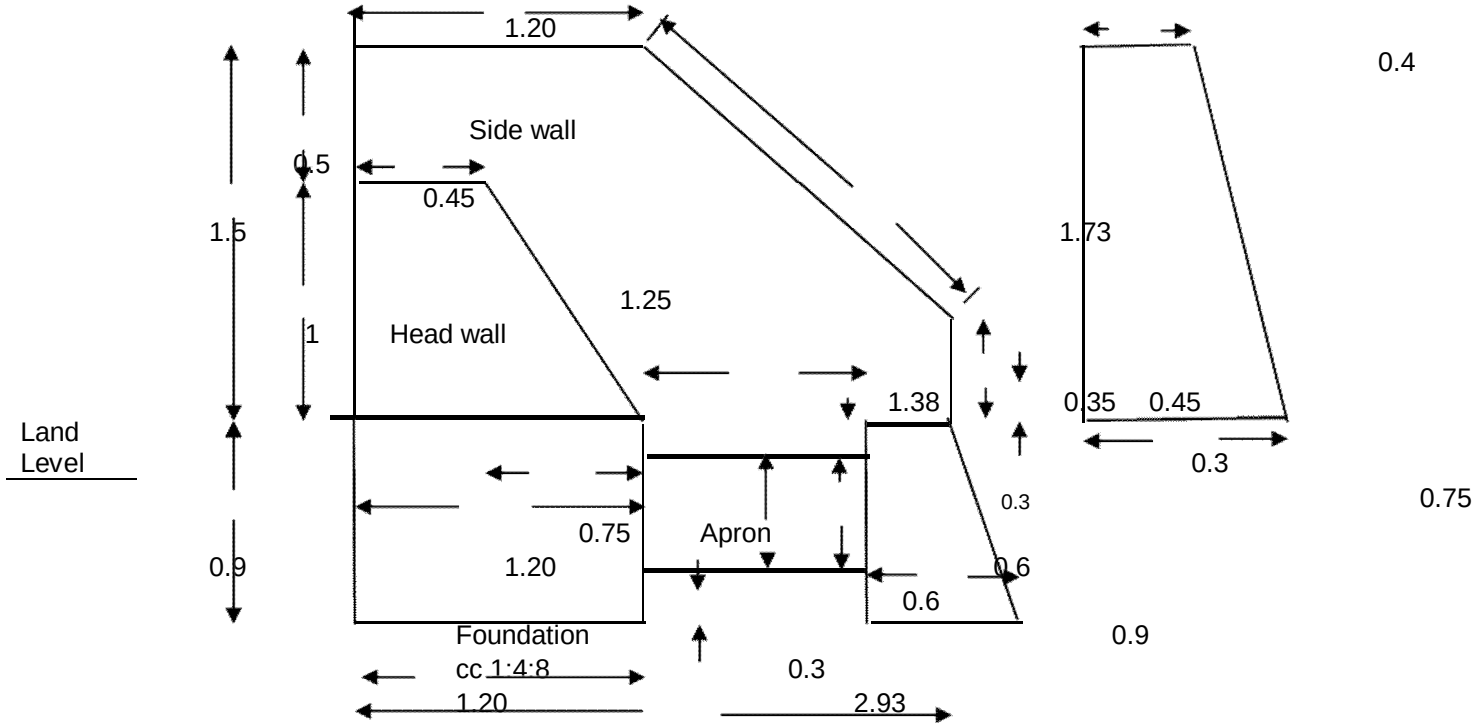
Structural Design

Top Plan



Elivation

Head wall extention



Estimate

				Head wall	H.W.E	Side wall		Toe Wall	
	Average			0.825	0.575	2.06	0.625		
Sr. no.	Name of work	Item no.	No	Length	Width	Hight	Qty	rate	amount
1	Earth work Excavation in hard soil up to 1.5 mt Hight and deposited excavated meterial lead op to 150	2B							
	Head wall		1	2.75	1.20	0.9	2.97		
	Head wall extention		2	2.5	0.75	0.9	3.38		
	side wall		2	2.93	0.45	0.9	2.37		
	Appron		1	2.75	1.38	0.9	3.40		
	Toe wall		1	2.75	0.9	0.9	2.23		
	Wing Wall		1	0.675	0.6	0.6	0.24		
							14.59	113	1648.56
2	Cement concrete 1:4:8 (1cement:4 sand:8 concrete) 40/25 mm concrete Using mixture & vibrater	11B							
	Head wall		1	2.75	1.20	0.3	0.99		
	Head wall extention		2	2.5	0.75	0.3	1.13		
	side wall		2	2.93	0.45	0.3	0.79		
	Appron		1	2.75	1.38	0.3	1.13		
	Toe wall		1	2.75	0.9	0.3	0.74		
	Wing Wall		1	0.68	0.6	0.3	0.12		
							4.90	2419	11861.6
3	RR stone mesonary in Cement sand mortar 1 : 6								
	Head wall	121	1	2.75	1.20	0.6	1.98		
	Head wall extention		2	2.5	0.75	0.6	2.25		
	side wall		2	2.93	0.45	0.6	1.58		
	Appron		1	2.75	1.38	0.15	0.57		
	Toe wall		1	2.75	0.9	0.6	1.49		
	Wing Wall		1	0.68	0.6	0.3	0.12		
							7.98	2061	16454.4
4	RR stone mesonary in Cement sand mortar 1 : 6	121							
	Head wall		1	2.75	0.825	1	2.27		
	Head wall extention		2	2.5	0.575	1.5	4.31		
	side wall		2	2.06	0.45	1.05	1.95		
	side wall		2	2.93	0.45	0.45	1.18		
	Appron		1	2.75	1.38		0.00		
	Toe wall		1	2.75	0.625	0	0.00		
	Wing Wall		1	0.68	0.6	0.45	0.18		
							9.90	2061	20398.7
							cf		50363.3

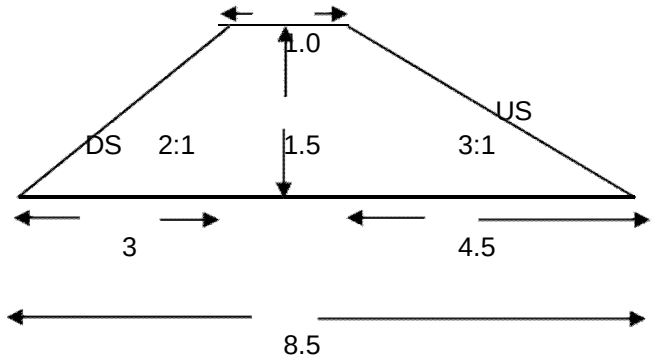
Sr. no.	Name of work		Item no.	No	Length	Width	Hight	Qty	rate	amount
5	Cement concrete 1:3:6 (1cement:3 sand:6 concrete) mm concrete Using mixture & vibrater	40/25	122A					bf		50363.26
	Head wall			1	2.75	0.45	0.1	0.124		
	Head wall extention			2	2.50	0.4	0.08	0.16		
	side wall			2	1.20	0.45	0.08	0.0864		
	side wall			2	1.73	0.45	0.08	0.125		
	Appron			1	2.75	1.38	0.08	0.303		
	Toe wall			1	2.75	0.35	0.08	0.077		
	Wing Wall			1	0.68	0.6	0.08	0.032		
								0.907	2553	2314.754
6	Cement Plaster 1 : 6 (1 cement : 6 sand) 25 mm thick		68A							
	Head wall			1	2.75	0.45		1.238		
	Head wall			1	2.75	1		2.75		
	Head wall extention			2	2.50	0.4		2.00		
	Head wall extention			2	2.50	1.5		7.50		
	side wall			2	1.20	0.45		1.08		
	side wall			2	1.73	0.45		1.56		
	side wall			2	2.93	0.45		2.63		
	side wall			2	2.06	1.05		4.33		
	side wall			2	0.45	1.5		1.35		
	Appron			1	2.75	1.38		3.78		
	Toe wall			1	2.75	0.95		2.61		
	Wing Wall			2	0.68	0.6		0.81		
	Wing Wall			2	0.68	0.45		0.6075		
	Wing Wall			2	0.45	0.6		0.54		
								32.79	164	5377.709
7	Cement concrete 1:2:4 (1cement:2 sand:4 concrete) mm concrete Using mixture & vibrater	25								
	Appron		123	1	2.75	1.375	0.15	0.57	3318	1882.173
8	Pointing 1:3 (1 Cement : 3 Sand)		70A							
	Head wall			1	2.75	1.25		3.44	65.6	225.5293
								Total		60163.42
					3% contengency				**1805**	
	TOTAL								**61968.32**	

Suliyawas IWMP

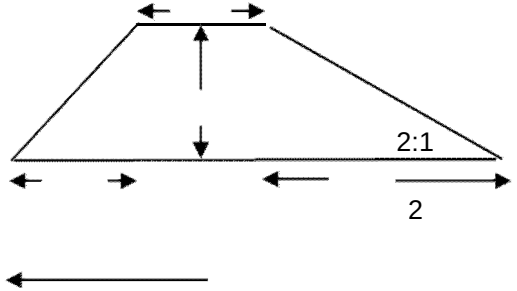
Earthen bund

Length in m 100

Maximum cross section



Minimum cross s



$$CS = \frac{(\overline{Tw+Bw}) * Hight}{2}$$

CS 7.125

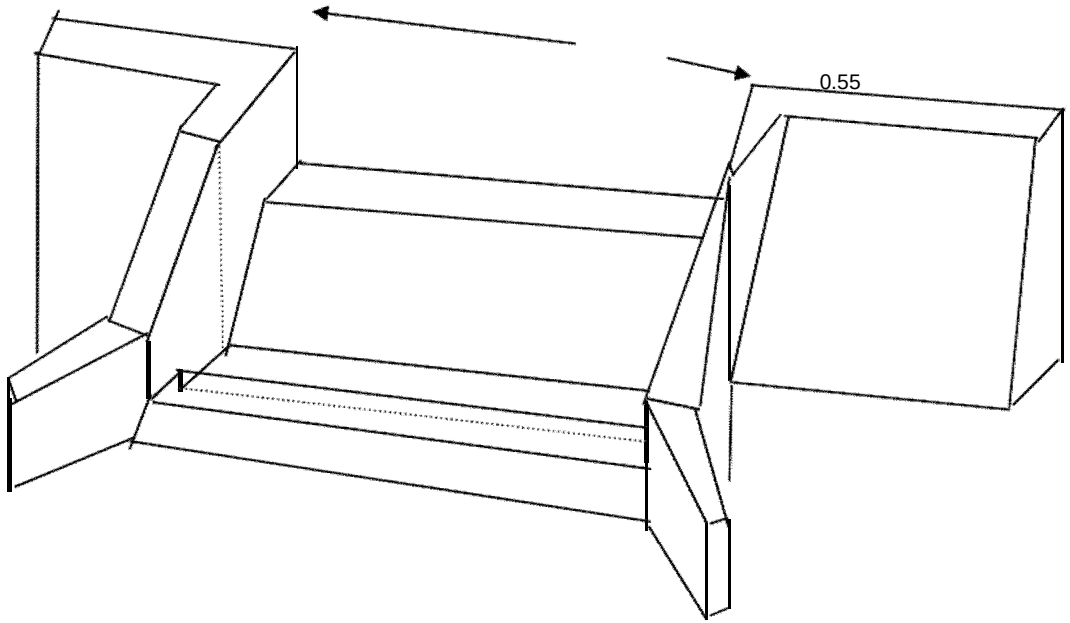
Average Cross section 4.708333

Sr.no.	Name of work	BSR Itam No	Length	Cross secction	Qty	Unit
1	Earth work Excavation in hard soil up to 1.5 mt Hight and deposited excavated meterial lead op to 50	119 B	100	4.71	470.83	Cu
2	Dry stone pitching 23cm thick	123	100.00	4.50	103.50	Cum
3	Vegetation				Ls	

3% co

Total

Model Estimate
Water Harvesting Structure
suliyawas
IWMP



Design as per field topography

Area		1	ha.
Slope	1 to 4 %		
maximum hight		2	mtr.
maximum lenth of treval		80	mtr.

Abstruct of cost

Cost of waste weir		40552
		160000
		200552
	say	**200000**

Sr. no.	Name of work	Item no.	No	Length	Width	Hight	Qty	rate	amount
5	Cement concrete 1:3:6 (1cement:3 sand:6 concrete) 40/25 mm concrete Using mixture & vibrater	122A					bf		33646.63
	Head wall		1	0.55	0.45	0.1	0.025		
	Head wall extention		2	2.50	0.4	0.08	0.16		
	side wall		2	1.20	0.45	0.08	0.0864		
	side wall		2	1.73	0.45	0.08	0.125		
	Appron		1	0.55	1.38	0.08	0.061		
	Toe wall		1	0.55	0.35	0.08	0.015		
	Wing Wall		1	0.68	0.6	0.08	0.032		
							0.504	2553	1286.783
6	Cement Plaster 1 : 6 (1 cement : 6 sand) 25 mm thick	68A							
	Head wall		1	0.55	0.45		0.248		
	Head wall		1	0.55	1		0.55		
	Head wall extention		2	2.50	0.4		2.00		
	Head wall extention		2	2.50	1.5		7.50		
	side wall		2	1.20	0.45		1.08		
	side wall		2	1.73	0.45		1.56		
	side wall		2	2.93	0.45		2.63		
	side wall		2	2.06	1.05		4.33		
	side wall		2	0.45	1.5		1.35		
	Appron		1	0.55	1.38		0.76		
	Toe wall		1	0.55	0.95		0.52		
	Wing Wall		2	0.68	0.6		0.81		
	Wing Wall		2	0.68	0.45		0.6075		
	Wing Wall		2	0.45	0.6		0.54		
							24.48	164	4015.512
7	Cement concrete 1:2:4 (1cement:2 sand:4 concrete) 25 mm concrete Using mixture & vibrater								
	Appron	123	1	0.55	1.375	0.15	0.11	3318	376.4345
8	Pointing 1:3 (1 Cement : 3 Sand)	70A							
	Head wall		1	0.55	1.25		0.69	65.6	45.10586
							Total		**39370.46**
				3% contengency					**1181**
	TOTAL								**40551.58**
							Say		**40000.00**

Suliyawas
IWMP

Earthen bund

Length in m 68

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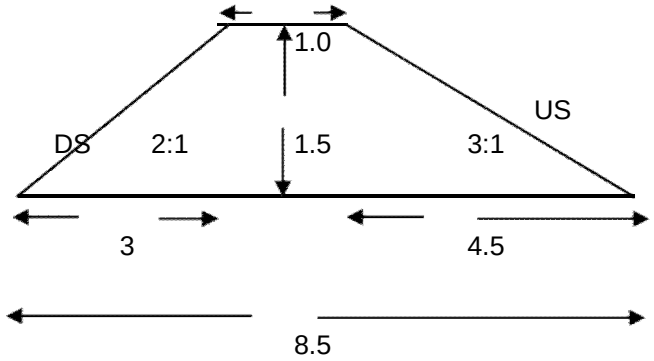
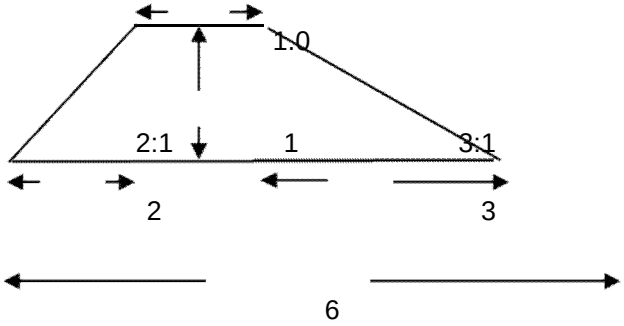
Maximum cross section



Minimum cross section on both sides



CS $\frac{(\overline{Tw+Bw})}{2}$ *Hight

CS 7.125

CS 3.5

Average Cross section 4.708333

Sr.no.	Name of work	BSR Itam No	Length	Cross secction	Qty	Unit	Rate	Amount
1	Earth work Excavation in hard soil up to 1.5 mt Hight and deposited excavated meterial lead op to 50	119 B	68	4.71	320.17	Cum	95	30415.83
2	Dry stone pitching 23cm thick	123	68.00	4.50	70.38	Cum	1062	74743.56
3	Vegetation				Ls			1300
								106459.39
						3% contengency		3193.78
	Total							**109653.18**
						say		**109600**

Estimate

				Head wall	H.W.E	Side wall	Toe Wall		
	Average			0.825	0.575	2.06	0.625		
Sr. no.	Name of work	Item no.	No	Length	Width	Hight	Qty	rate	amount
1	Earth work Excavation in hard soil up to 1.5 mt Hight and deposited excavated meterial lead op to 150	2B							
	Head wall		1	0.55	1.20	0.9	0.59		
	Head wall extention		2	2.5	0.75	0.9	3.38		
	side wall		2	2.93	0.45	0.9	2.37		
	Appron		1	0.55	1.38	0.9	0.68		
	Toe wall		1	0.55	0.9	0.9	0.45		
	Wing Wall		1	0.675	0.6	0.6	0.24		
							7.71	113	870.959
2	Cement concrete 1:4:8 (1cement:4 sand:8 concrete) 40/25 mm concrete Using mixture & vibrater	11B							
	Head wall		1	0.55	1.20	0.3	0.20		
	Head wall extention		2	2.5	0.75	0.3	1.13		
	side wall		2	2.93	0.45	0.3	0.79		
	Appron		1	0.55	1.38	0.3	0.23		
	Toe wall		1	0.55	0.9	0.3	0.15		
	Wing Wall		1	0.68	0.6	0.3	0.12		
							2.61	2419	6312.86
3	RR stone mesonary in Cement sand mortar 1 : 6								
	Head wall	121	1	0.55	1.20	0.6	0.40		
	Head wall extention		2	2.5	0.75	0.6	2.25		
	side wall		2	2.93	0.45	0.6	1.58		
	Appron		1	0.55	1.38	0.15	0.11		
	Toe wall		1	0.55	0.9	0.6	0.30		
	Wing Wall		1	0.68	0.6	0.3	0.12		
							4.76	2061	9805.29
4	RR stone mesonary in Cement sand mortar 1 : 6	121							
	Head wall		1	0.55	0.825	1	0.45		
	Head wall extention		2	2.5	0.575	1.5	4.31		
	side wall		2	2.06	0.45	1.05	1.95		
	side wall		2	2.93	0.45	0.45	1.18		
	Appron		1	0.55	1.38		0.00		
	Toe wall		1	0.55	0.625	0	0.00		
	Wing Wall		1	0.68	0.6	0.45	0.18		
							8.08	2061	16657.5
							cf		33646.6

Sr. no.	Name of work	Item no.	No	Length	Width	Hight	Qty	rate	amount
5	Cement concrete 1:3:6 (1cement:3 sand:6 concrete) 40/25 mm concrete Using mixture & vibrater	122A					bf		33646.63
	Head wall		1	0.55	0.45	0.1	0.025		
	Head wall extention		2	2.50	0.4	0.08	0.16		
	side wall		2	1.20	0.45	0.08	0.0864		
	side wall		2	1.73	0.45	0.08	0.125		
	Appron		1	0.55	1.38	0.08	0.061		
	Toe wall		1	0.55	0.35	0.08	0.015		
	Wing Wall		1	0.68	0.6	0.08	0.032		
							0.504	2553	1286.783
6	Cement Plaster 1 : 6 (1 cement : 6 sand) 25 mm thick	68A							
	Head wall		1	0.55	0.45		0.248		
	Head wall		1	0.55	1		0.55		
	Head wall extention		2	2.50	0.4		2.00		
	Head wall extention		2	2.50	1.5		7.50		
	side wall		2	1.20	0.45		1.08		
	side wall		2	1.73	0.45		1.56		
	side wall		2	2.93	0.45		2.63		
	side wall		2	2.06	1.05		4.33		
	side wall		2	0.45	1.5		1.35		
	Appron		1	0.55	1.38		0.76		
	Toe wall		1	0.55	0.95		0.52		
	Wing Wall		2	0.68	0.6		0.81		
	Wing Wall		2	0.68	0.45		0.6075		
	Wing Wall		2	0.45	0.6		0.54		
							24.48	164	4015.512
7	Cement concrete 1:2:4 (1cement:2 sand:4 concrete) 25 mm concrete Using mixture & vibrater								
	Appron	123	1	0.55	1.375	0.15	0.11	3318	376.4345
8	Pointing 1:3 (1 Cement : 3 Sand)	70A							
	Head wall		1	0.55	1.25		0.69	65.6	45.10586
							Total		**39370.46**
				3% contengency					**1181**
TOTAL									**40551.58**

ekud ykxr vueku Vkdk fuek.k

1- dk; dk uke % tyd.M dk fuek.k
2- xfrfof/k dk uke % Ñf"k Hkfe lj{k.k dk;
3- ;kstuk dk uke % vkb- MCy- ,e- ih- lfy;kokl] ipk;r lfefr & nkrkjkex< ¼lhdj½
4- ty d.M dk fooj.k % d.M dk 0;kl ¼ckgj½ 3-50 eh
d.M dk 0;kl ¼vUnj½ 3-05 eh
d.M dh [knkb 3-20 eh
d.M dh fpukb 3-65 eh
d.M dh {kerk 22000 yh-
ik;Fku 9-50 eh-

Ø- l-	dk; dk fooj.k	l[;k	y-	pk-	m-	ek=k	bdkb	nj	dy jkf'k
1	uho e 1-5 ehVj xgjkb rd feVVh dh [knkb djuk]ry dk dVuk ikuh Mkyuk] [knh ehVVh dk ckgj fudkyuk] uho Hkju d ckn [kyh LFkkuk dk iuh feVVh l Hkjuk rFkk cph gb feVh dk 50 ehVj dh njh rd fuLrkj.k djuk l[r feVVh e 3.14/4X3.50X3.50X1.50=14.42						14.42	?k- eh-	95	1369.90
2.	uho dh [knkb ,d vfrfjDr mBku lfgr 1-5 l 3 eh- rd 3.14/4X3.50X3.50X1.50=14.42						14.42	?k- eh-	108	1557.36
3.	vfrfjDr mBku 3 eh- l 3-5 eh- rd 3.14/4X3.50X3.50X0.20=1.92						1.92	?k- eh-	121	232.32
4.	d.M e lheV ddjhV 1¼5¼10 e iRFkj dh feVVh 40 eheh d lkFk feykdj Mkyuk] dVuk o rjkb djukA $0.785X3.50^2X0.15=1.44$						1.44	?k- eh-	2165	3117.60
5.	uho , dlh e iFke J.kh dh bV dh fpukb lheV ctjh 1¼6 e e; cxy dh >hjh cUn dju rFkk rjkb ler $0.785X(3.50^2-3.05^2)X3.65=7.52$						7.52	?k- eh-	2672	20093.44
6.	iRFkj dk fyVu yxku dk dk; 7-50 leh ekVkb 2X3.50X.30=2.10						2.10	o- eh-	983	2064.30

7.	v0o; nt dh iRFkj dh iVVh;k dh Nr Mkyuk] mij o uhp dh tkMk d iRFkj d fpi d lkFk 1¼4 e lheV elky l Hkjuk 0.785X3.50 =9.61					9.61	o- eh	1067	10253.87
8.	50 eheh ekVkb e Q'k e lhevV ddjhV 1½2¼4 e iRFkj dh xhVh 12 eheh d lkFk feykdj Mkyuk dVuk o rjkb djuk 3.14/4*9.50*9.5=70.84					70.84	o- eh-	258	18276.00
9.	Ukho ,o dlh e iFke J.kh dh bV dh fpukb lheV ctjh 1¼6 e e; cxy dh >hjh cUn dju rFkk rjkb ler 112 eheh ekVkb 3.14*9.5*.30=8.95					8.95	o- eh-	349	3123.55
10.	ik;Fku gr iRFkj dk [kjtk dk; 1¼3 fleV jr elyk e o tkMk dk Hkjuk .785(9.5^2-3.50^2)*.15=9.18					9.18	o- eh-	1014.80	9315.86
11.	d.M e lheV lykLVj dk dk; 1¼4 e lheV ctjh feydkj tkMk dk djnuk rFkk rjkb lfgr 20 eheh ekVkb e								
	in ij	0.785	3.05	3.05		7.30	o- eh		
	vUnj	3.14	3.05	3.50		33.51	o- eh-		
	ckgj	3.14	3.50	0.50		5.49	o- eh-		
	Åij	0.785	9.50	9.50		70.84	o- eh		
	LdfVx	3.14	9.50	.45		13.42	o-eh		
				dy ek=k		130.56	o- eh	126	16450.56
12.	,yeuh;e <Ddu o ykg dh tkyh ykuk o yxku dk dk;								1450
				;kx					87304.76
	dVhtUlh pktt @3¼								2619.14
				egk;kx					89923.90

Say : 90000/-

Model Estimate of Compost Pit

S.No.	Item	Qty.	Rate	Amount (Rs.)
1	E/W for excavation in H/S			
	3.50 X 3.50 X 1	12.25 Cum	113	1384.25
2	Bricks Masonry in CM (1:6)			
	2x3.50x1x0.23			
	2x3.0x1x0.23			
		2.99 Cum	2527	7555.73
3	Cement Plaster in CM (1:6)			
	4x3x1	12.00 Sqm	110	1320.00
4	50 mm C.C (1:2:4)			
	2x3.5x0.23			
	2x3.0x0.23			
		2.99Sqm	258	771.42
	Total			**11001.40**
	Say			**11000**

CHAPTER - VIII Enclosures -

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

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

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

e. Treatment map (Indicate proposed works)

f. Cadastral Map on watershed boundary

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

h. Land Use Land Cover map

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

j. 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

Proceeding of Standing Committee of P.S. for DPR approval.

Proceeding of Standing Committee of Z.P. for DPR approval.

Assistant Engineer, PIA
WD&SC P.S. Dantarmagarh

Project Manager, WCDC
WD&SC.Distt. Sikar