ASSTT. ENGINEER (PIA) IWMP P.S. OSIAN

DETAILED PROJECT REPORT

OF

JODHPUR-XIV (IWMP)

(UNDER INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

BLOCK: OSIAN DISTRICT : JODHPUR

AGRO CLIMATIC ZONE- 1A

TOTAL GEOGRAPHICAL AREA – 3780 Hac.

TOTAL EFFECTIVE AREA- 3061 Hac.

TOTAL COST- 576.13 Lacs.

COST FROM PROJECT FUND- 459.15Lacs

COST FROM CONVERGENCE FUND- 116.98Lacs

SUBMITTED BY

ASTT. ENGINEER, WDSC

PANCHAYAT SAMITI -OSIAN

JODHPUR, (RAJASTHAN)

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- **CHAPTER – I INTRODUCTION**

Location.

JALU-GAGADI (JODHPUR XIV) Project is located in **OSIAN** Block, of **JODHPUR** district. The project area is between the latitudes **26^{0}30 TO 27^{0}35'N** & longitudes **72^{0}43' TO 72^{0}49' E**. It is at a distance of **45** km from its Block head quarters and **60** Kms from the district head quarters. There are 4 no. of habitations in the Project area and other details are given below.

General features of watershed

S.No.	Name of Project(as per GOI)	**Jelu-Gagadi (Jodhpur XIV)**
(a)	Name of Catchment	**37/1-5, 38/1-3, 39/1-8**
(b)	Name of watershed area(local name)	**Jelu – Gagadi**
©	Project Area	**3780 Ha**
(d)	Net treatable Area	**3061**
e)	Cost of Project	**459.15 Lac**
f)	Cost/hectare	**15000**
g)	Year of Sanction	**2009-10**
h)	Watershed Code	**37/1-5, 38/1-3, 39/1-8**
i)	No. of Gram Panchayats in project area	**1 (Jelu-Gagadi)**
j)	No. of villages in project area	**2**
k)	Type of Project	**Desert/**other
l)	Elevation (metres)	
m)	Major streams	**3, Near Sujan Nath Than, Khaklai Nala, Bijariya**
n)	Slope range (%)	**0 to 5%**

Macro/micro	Name of Gram Panchayat	Name of Villages Covered	Census code of villages	Area in Ha.total(efft.)
38/1, 2, 3,39/1 to 8	**Jelu Gagadi**	**Jelu**	**1940300**	**2006**
37/1, 2, 3,4,5		**Bijariya Bawadi**	**1940200**	**1055**
Total				3061

The watershed falls in Agroclimatic Zone IA.The soil texture is **Shallow/Gravelly** The average rainfall is **225.95** cm . The temperatures in the area are in the range between **43.4** centigrade during summer and **26.3** centigrade during winter. The major crops in the area are **Bajara, Wheat, Mustard, Ground Nut, Gowar, Jeera, Lahsun, Caster 41.77** % land is under cultivation **5.59**% land fallow, **44.89** land is wasteland. **11.64**% land is irrigated through **Deep tube well of 29** No of

households are BPL(**3.74**% households) **2** are landless households(**0.35**% households) and **530** household are small and marginal farmers(**94.30**% household) .Average land holding in the area is **3.38** ha. **30.13**% **(1139 Ha.)** area is single cropped area and **11.64**% is double cropped. The main source of irrigation is **Deep tube well** The average annual rainfall (5 years) in the area is 296.25 mm. The Major streams in the Watershed are **Near Sujan Nath Than, Khaklai Nala, Bijariya.** The major festivals in the village are **Holy, Deepawali, & Rakshabandhan**. At present this village is having **2340 + 1678 = 4018** population with Communities like **Jat, Rajput, Meghwal, Brahaman** and **Bheel, Harijan, Mali, Kumhar, Suthar.**

Climatic and Hydrological information

1	**Average Annual Rainfall mm)**		
	Year	Average Annual Rainfall(mm)	
1	**2001**	**324**	
2	**2002**	**94**	
3	**2003**	**483**	
4	**2004**	**192**	
5	**2005**	**260**	
6	**2006**	**209.5**	
7	**2007**	**200**	
8	**2008**	**267**	
9	**2009**	**139**	
10	**2010**	**435**	
2	**Average Monthly rainfall (last ten years)**		
	Month	Rainfall(mm)	
i)	June	**35.42**	
ii)	July	**101.22**	
iii)	August	**92.22**	
iv)	September	**29.39**	
3	**Maximum rainfall intensity (mm)**		
	Duration	rainfall intensity(mm)	
	i) 15 minute duration	**63**	
	ii) 30 minute duration	**52**	
	iii) 60 minute duration	**48**	
4	**Temperature (Degree C)**		
	Season	Max	Min
	i) Summer Season	**43.4**	**26.4**
	ii) Winter Season	**26.3**	**9.6**
	iii) Rainy Season	35.5	15.5

5	**Potential Evaporation Transpiration (PET) (mm/day)**			
	Season		PET	
	i) Summer		15	
	ii) Winter		3.8	
	iii) Rainy		8.8	
6	Total PET =		27.6	
	iii) Time of return of maximum flood	5 years	10 years	In-Year
	iv)Periodicity of Drought in village area	3 times in 5 year	7 times in 10 year	Alternate year

Other Development Schemes in the project area

S.No	Scheme	Name of the department	Key interventions under the Scheme	Targeted Beneficiaries	Provisions under the Scheme
1	IAY	Panchaytiraj & Rural development	Avas	BPL	Construction of Avas
2	MGNREGA	Panchaytiraj & Rural development	Providing employment – All section		Basic Infrastructure Developers
3	SFC	Panchaytiraj & Rural development	Providing employment village level community work	Village Level	Community work
4	TFC	Panchaytiraj & Rural development	Providing employment village level community work	Village Level	Community work
5	SGSY	Panchaytiraj & Rural development	Lively Hood	BPL	Providing Loan

Details of infrastructure in the project areas

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

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

SLNA Details

1	**2**	**3**
S.No	**Particulars**	**Details of SLNA**
1	Member Secretary	**Post-CEO**
2	Designation and Address	**Director Watershed development and soil conservation**
3	Telephone No.	**0141-2227858**
4	Fax No.	**0141-2227189**
5	E-Mail	**dir_wdsc@dataone.in**

DWDU:

1	2	3
S.No	**Particulars**	**Details of DWDU**
1.	PM ,DWDU	**X. En. Watershed Jodhpur**
2.	Address with contact no., website	**Near RTO office, Jodhpur 0291-2544171**
3.	Telephone	**0291-2544171**
4.	Fax	**0291-2570746**
5.	E-mail	**pm.dwdu.jodhpur@gmail.com**

PIA particulars

1	2	3
S.No	**Particulars**	**Details of PIA**
1.	Name of PIA	**Praveen Kumar Jain (A. En.)**
2.	Designation	**A.En.**
3.	Address with contact no., website	**-**
4.	Telephone	**9928882445**
5.	Fax	**-**
6.	E-mail	**iwmp.osian@gmail.com**

WDT Particulars:

1	2	3	4	5	6	7	8
S.No	Name of WDT member	M/F	Age	Qualification	Experience in watershed(Yrs)	Description of professional training	Role/ Function
1	Shiv Kumar Choudhary	M	38	B.E. Agri.	NIL	Agricultural Engineering	Engineering Work
2	Kishanlal Choudhary	M	24	Vetenary Dep. Science	NIL	Vetenary Dept.	Vetenary work
3	Archana Mathur	F	28	B.A. Sociology	NIL	Social Scientist	Social Work
4	Vacant					Ag.Science	

Details of Watershed Committees (WC)

S.N.	Name of WCs	Date of Gram Sabha for WC	Date of Registration as a Society (dd/mm/yyyy	Designation	Name	M/F	SC/ST/ OBC/General	Landless/MF/SF/ BF	Name of UG/SHG	Educational qualification
1	Jelu-	7/6/2010		President	Ugamo W/o Mishri Lal Meghwal	F	SC	SF	UG	Lit.
2	Gagadi			Secretary	Moolaram S/o Bhuraram	M	OBC	-	UG	B.A.
3	(Jodhp			Member	Guman Singh S/o Mesu Singh	M	GEN.	MF	UG	V
4	ur XIV)			Member	Kanwarlal S/o Dharma Ram	M	OBC	MF	UG	B.A.
5				Member	Kishna Ram S/o Gunesha Ram	M	SC	MF	UG	XII
6				Member	Deep Singh S/o Bhur Singh	M	GEN.	MF	UG	V
7			359/	Member	Dhapu W/o Hamira Ram Bheel	F	ST	-	UG	Illiterate
8			06.01.11	Member	Ummed Singh S/o Kishor Singh	M	GEN.	MF	UG	Literate
9				Member	Kadar Khan S/o Abdu Khan	M	OBC	SF	UG	Literate
10				Member	Mohani S/o Chotharam	F	OBC	MF	UG	Literate
11				Member	Bhawara Ram S/o Rajuram	M	OBC	LF	UG	V
12				Member	Bhagwana Ram S/o Ghamandaram	M	OBC	MF	UG	X
13				Member	Sagu Devi W/o Mangi Lal SHG	F	OBC	MF	SHG	Illiterate
14				Dept.	Jagdish choudhary	M	OBC			M.Tech.

Problems and scope of improvement in the project area

The socio economic conditions of the area can be improved through increased production which can be achieved through expansion in cultivated area and productivity enhancement. **106** ha land is arable wasteland and **210** ha is fallow can be brought under cultivation.

440 ha is only irrigated and with efforts this can be increased to **650**. 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)

30000 Quintal fodder scarcity can be met out through Pasture development .Improved animal Husbandry practices can increase the productivity of livestock. **42** no of persons migrate due to **Lack of 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.

CHAPTER – II Socio economic Features, Problems and Scope

Table 2.1 Population & Household Details:

Total Population				
Male	**Female**	**Total**	**SC**	**ST**
2063	1955	4018	547	86

Household Details						
BPL household	**L. Less**	**Small Farmer**	**M. Farmer**	**Total household**	**SC household**	**ST household**
29	**2**	**90**	**440**	**562**	**84**	**5**

Table 2.2 Development indicators

S. No.	Development Indicators	State	Project Area
1	Per capita income (Rs.)	16260	22000
2	Poverty ratio	0.22	-
3	Literacy (%)	0.604	56%
4	Sex Ratio	921	875
5	infant mortality rate	-	62/1000
6	maternal mortality ratio	-	4/1000

The table indicates poor socio economic conditions.

Table 2.3 Land Use

Land Use	Total area in Ha.				
	Private	-	-	-	Total
Agriculture Land	1895	-	-	-	1895
Temporary fallow	50	-	-	-	-
Permanent Fallow	110	-	-	-	-
Cultivated Rainfed	1139	-	-	-	-
Cultivated irrigated	440	-	-	-	-
Net Sown Area	1579	-	-	-	-
Net Area sown more than once	440	-	-	-	-
Forest Land	-	-	-	-	-
Waste Land	106	-	1591	-	1697
Pastures	-	67	-	-	67
Others	-	-	8	219	227
Total	-	-	-	-	3780

The project area has 106 ha of cultivable wasteland . 210 ha of fallow land (total 316 ha) can be brought under cultivation if some irrigation source can be provided through Construction of WHS like Khadin, Tanka, Farm ponds etc. and also through demonstration of rainfed varieties of crops. Construction of WHS can also increase in area under irrigation which is only 16.64%

440 ha. (42 % of the project area) 3780 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 66.85 hectare pasture land (1.76 %)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.

Cropping Status												
S. No.	Season	Crop sown	Rainfed				Irrigated				Total	
			Varieties	Area (ha)	Production (Ton)	Productivity (qt./ha)	Varieties	Area (ha)	Production (Ton)	Productivity (qt./ha)	Area (ha)	Production (Ton
1	Kharif	Bajara	WCC75 RSB2 RJ171	379	227.4	6					376	227.4
		Moonga	K851 RMG 62 SML 668 G-8	18	5.4	3					18	5.4
		Moth	RMO 40 RMO 435	107	32.1	3					107	32.1
		Til	RT 127 RT 125 RT 46	13	3.9	3					13	3.9
		Gowar	RGC 936 RGC 986 RGC 1003 HG 563 M 83	59	23.6	4					59	23.6
		Moongphali	M13 GG 20 GG 10 M 335					301	541.8	18	301	541.8
		Caster	GCH 4 RHC 8 Jyoti Mayco 6					52	20.8	4	52	20.8
		Chilly	NP 46A Mathania Long Jawar 218					13	15.6	12	13	15.6
		Gajar	Pusa Kesar Nentis Pusa Mandakani (S-5)					15	18.0	12	15	18.0
2	Rabi	Wheat	LOC 1 RJ 3077 HD 2329 RJ 1482					279	502.2	18	279	502.2
		Mustard	Bio 902 RH 819 RN 505 T. 59 (Varuna)					79	94.8	12	79	94.8
		Jeera	RS-1 RZ-19 RZ-209					20	12.0	6	20	12.0

		Lahsoon	**Ymuna White G-1, 2 (G-50) Gujrat**					**74**	**900.0**	**55**	**74**	**900.0**
3	**Zaid**											
	Total											**2365.5**

Table 2.4.b Abstract of cropped Area(ha)	
Area under Single crop	1455
Area under Double crop	440
Area under Multiple crop	-

****Write for each crop:** The farmers are using R1171 ,RSB2 varieties of Bajra, whereas varieties like RHB90 ,RHB121 can increase the production.

Crop Rotation**will vary from project to project

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

The table 2.4a shows that only 440 ha is (11.64%) 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	District	Project Area
Bajara	802	655	750	600
Moong	317	159	320	300
Moth	144	122	270	300
Wheat	2619	2762	2150	1800
TIL	310	149	270	260
Gowar	510	525	515	400

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 WCC 75 of Bajra R1 171 whereas the recommended varieties like RHB90, RHB121 provide 7 qt./ha yield
- Lack of Availability of good quality seeds of desired crop and variety in adequate quantities and time to the farmers.
- Availability of water for cultivation(11.64% is irrigated table 2.4a)

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

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

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

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	30	112	326.98	438.98	59.89	8.53	28.81	341.69	15.03
(ii) Small farmer	90	180	496.51	676.51	128.46	71.94		476.11	14.89
(iii) Marginal farmer	440	148	631.61	779.61	246.86	109.67		423.08	32.88
(iv) Landless person	2	-	-	-	-	-	-	-	-
(V)No. of BPL households		-	-	-	-	-	-	-	-
Total	562	440	1455	1895	435.21	190.14	26.81	1240.8	62.80

1215.61 ha land holdings belong to small and marginal farmers who own 76.98% of total cultivated area. 1579 Horticulture/vegetables could be more economical to Small and marginal farmers with irrigation source. For large farmers with no irrigation facility Horticulture/vegetables will be promoted in a part of land with farm pond/Tanka construction.

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

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

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

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

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

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

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

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

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

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

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

S.No.	Description of animals	Population in No.	Yield(milk/mutton/ Wool)	Equ. cow units	Dry matter requirement per year (7Kg per animal.) qt.	Total requirement in M.T.
1	Cows	538	1856	-	13746	1374.6
	Indigenous	526	1736	-	-	-
	Hybrid	12	120	-	-	-
2	Buffaloes	250	856	-	6388	638.8
3	Goat	3236	2003	population /2	82679	8267.9
4	Sheep	2484	7452	population /2	63466	6346.6
5	Camel	9	-	-	230	2.3
6	Poultry	-	-	NA	-	-
7	Piggery	-	-	NA	-	-
	Total	6805	14023	-	166509	1 6650.9

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 – Bardigo Castration
- Artificial insemination – HF Tharparkar
- Distribution of superior Breeding bulls for use in Cattle and Buffalo
- Breeding distribution crossbred rams (Chokala, Marwari)

Cattle - Tharparkar, Gir, Ratthi

Buffalo – Murrah,

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

Table 2.8 Existing area under fodder (ha)

S.No	Item	Unit	Area/Quantity
1	Existing Cultivable area under Fodder	Ha	579
2	Production of Green fodder	Tonns/year	8685
3	Production of Dry fodder	Tonns/ Year	4965
4	Area under Pastures	Ha	67
5	Production of fodder	Tonns/year	13650
6	Existing area under Fuel wood	Ha	-
7	Supplementary feed	Kgs/ day	8600
8	Silage Pits	No	120
9	Availability of fodder	Tones	13650
10	Deficiency/excess of fodder	Tones	3000

The table above shows there is fodder deficiency (Requirement is 16650 and availability 13650)

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

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

Table 2.9 Agriculture implements

1	2	3
S. No	**Implements**	**Nos.**
1	Tractor	121
2	Sprayers-manual/ power	60
3	Cultivators/Harrows	240
4	Seed drill	35
5	Any Other Trolley	121

Farm mechanization and seed banks: As discussed earlier ----% land holdings belong to small and marginal farmers who own only 13% of total cultivated area so owning of big farm implements by individual farmers is not economical so SHG would be promoted to buy farm implements and rent to farmer

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

Sr. no.	Name of village	Total No .of job cards	Employment Status	Activity taken up so far
1	Jelu	360	330	Road construction
2	Bijaria bawdi	170	150	Civil Works

Table 2.11 Migration Details

Name of village	No. of persons migrating	No. of days per year of migration	Major reason(s) for migrating	Distance of destination of migration from the village (km)	Occupation during migration	Income from such occupation (Rs. in lakh)
Jelu	27	9-12	Labour truck driver shop	320	Labour, Truck Driver, Shop,	3.2
Bijaria Bawdi	15	Permanent	Agriculture	320	Agriculture	

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

The existing livelihoods Village are given below

Table 2.12 (a) Major activities (On Farm)		
Name of activity	No of House holds	Average annual income from the
cultivators	560	28
Dairying	-	-
Poultry	-	-
Piggery	-	-
Landless Agri. Labourers	2	0.56

Table 2.12(b) Major activities (Off Farm)		
Name of activity	Households/individuals	Average annual income from the/Lacs
Artisans	-	-
Carpenter	18	3.4
Blacksmith	-	-
Leather Craft	-	-
Porter	-	-
Mason	40	9.6
Others specify (Cycle Repair ,STD,Craft etc)	35	8.4

The efforts for increase in income through off farm activities will be made under livelihood component through assistance to SHG or individuals

Table 2.13(a) Status of Existing SHG

S.No	Name of SHG	Members	Activity involved	Monthly income	Fund available	Assistance available	Source of assistance	Training received
1	Krishna	10	-	10 x 50 = 500	43500	-	-	-
2	Aip kash	10	-	10 x 50 = 500	12500	-	-	-
3	Jai Gurudev	12	-	12 x 100 =1200	8400	-	-	-
4	Dr. Ambedkar	10	-	10 x 100 = 1000	2000	-	-	-
5	Ma Ambey	10	-	10 x 100 = 1000	5000	-	-	-
6	Ma Jasa ma	10	-	10 x 100 = 1000	5000	-	-	-
7	Payal	11	-	11 x 20 = 220	8140	-	-	-
8	Devpura	10	-	10 x 20 = 200	14600	-	-	-

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

II. **Technical Features**

Table 2.14 Ground Water

S.No	Source	No.	Functional depth	Dry	Area irrigated	Water availability(days)
i)	Dug wells	2	-	2	-	-
ii)	Shallow tube wells	-	-	-	-	-
iii)	Pumping sets	-	-	-	-	-
iv)	Deep Tube Wells	57	440ft.	-	440 Ha.	12 Month
	Total	59	-	-	-	-

Table 2.15 Availability of drinking water

S.No	Name of the village	Drinking water requirement Ltrs/day	Present availability of drinking water Ltrs/day	No. of drinking water sources available	No. functional	No. requires repairs	No. defunct
1	Jelu-	260395	230395	6	6	-	-

Table 2.16 Water Use efficiency

Name of major crop	Area (Hectare)		
	through water saving devices(Sprinklers)	through water conserving agronomic practices#	Any other (pl. spec
Wheat	6.6kg/ha/mm	2.5	-
Maize	5.5kg/ha/mm	2.5	-
Vegetable	22.22kg/ha/mm	10.	-

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

Table 2.17 Slope details.

Slope of Watershed		
S.No.	Slope percentage	Area in hectares
1	0 to 3%	2623
2	3 to 5%	1157

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 2.18Water Budgeting
Table 2.18 a)Total available runoff(cum) use Stranges table

Area	Type of Catchment	Yield of runoff from catchment per ha.(cum.) use Stranges table	Total Runoff (cum.)
3780	average	204.33	772393
	Total		772393

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

S.No.	Name	No.	Storage Capacity (cum)	Area irrigated (ha)
i)	Major Irrigation Project	-	-	-
ii)	Medium Irrigation Project	-	-	-
iii)	Form Ponds/Tanks	20	205650	-
iv)	Anicuts	-	-	-
	Total	-	205650	-

Table 2.18 c) Balance available runoff (cum)

Total run off(cum.)	Net tapped Runoff(cum)	Balance Run off	Available for Harvesting (0.75*
1	**2**	3	4
772393	205650	566743	425057

The water budgeting indicates potential for water harvesting in the area

Table 2.19 Soil details

	Soil Profile	
S.No.	Major Soil Classes	Area in hectares
1	Sandy to Loamy sand soils	3780
	Soil Depth :	
B	Depth (Cms.)	Area in hectares
1	0.00 to 7.50	
2	7.50 to 45.00	3780
3	> 45.00	

C	Soil fertility Status	Kg/ha	Recommended
	N	0.07 to 0.18%	-
	P	3.5 to 10.8 kg/ha	-
	K	170 to 255 kg./ha.	-
	Micronutrients	PPM	-
			-

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

Table 2.20 Erosion details

Erosion status in project Area					
Cause	Type of erosion	Area affected (ha)	Run off(mm/ year)	Average soil loss (Tonnes/ ha/ year)	
Water erosion					
a	Sheet	2470	250	3425	
b	Rill	970	250	1732	
c	Gully	270	250	1705	
Sub-Total				6862	
Wind erosion		70		95	
Total for project				6957	

The need is:

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

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

A) Preparatory phase activities Capacity Building Trainings and EPA

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

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

S.no	Name of the Gram Panchayat	Date on which Grama Sabha approved EPA
1	Jelu-Gagadi	7/6/2010

1	4	5	6	7	8	9	10	11
S. No.	Names of village	Amount earmarked for EPA (lakh)	Entry Point Activities planned	Estimated cost	Expenditure incurred	Balance	Expected outcome	Actual outcome
	Jelu		1.Installation of Solar light DGSC item No. 12	3.06	3.06			Villagers are very happy
			2.Drinking water activities	9.17		9.17		
	Binjaria Bawdi		1.Installation of Solar light DGSC item No. 6	1.53	1.53			
			2.Drinking water activities	4.61		4.61		
		18.37		18.37	4.59	13.78		

S.no	Name of the village/Habitation	Date on which PRA conducted
1	Jelu	1/12/2010 to 28/12/2010
2	Bijaria-Bawadi	01/01/2010 to 17/12/2010

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

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 15/7/2010 to 21/11/2010 (dates) period covering all the households and primary data on demography, Land holdings, Employment status, Community activities etc. was collected as mentioned in chapter 2.

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

Various thematic layers provided by SRSAC are :

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

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

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कार्यालय ग्राम पंचायत ओसियां

पंचायत समिति - ओसियाँ, जिला - जोधपुर

क्रमांक

दिनांक 18/4/11

ग्राम सभा दिनांक 4/4/2011

प्रस्ताव 10 उपस्थित ग्राम वासियों को I.W.M.P योजना से सम्बन्धित प्रस्तावित प्रतिवेदन जल ग्रहण समिति ओसिया (जल ग्रहण क्षेत्र नेवटा रोड़ओसिया(C) की D.P.R पढ़ कर सुनाई गई जिस पर विचार विमर्श कर सर्वसम्मति से पारित किया गया इसकी अनुमानित राशि - 210.25 लाख (40.60 + 169.65 का अनुमोदन किया गया।

-sd
उपस्थित ग्राम वासी

सत्य प्रति

सुखराम

कार्यालय ग्राम पंचायत नेवारोड

क्रमांक/ग्रा.पं./802 दिनांक 15.5.21

प्रस्ताव क्र. 1 — नेवारोड जलग्रहण क्षेत्र IWMP योजना की विस्तृत परियोजना प्रतिवेदन (DPR) का अनुमोदन ग्राम सभा द्वारा सर्व सहमति से किया जाता है कुल 304.32 लाख में से 64.17 नरेगा योजना से तथा 240.15 परियोजना से स्वीकृत किया गया।

ग्राम सेवक पदेन सचिव

ग्राम पंचायत [illegible]रोड

कार्यालय पंचायत समिति ओसियां

क्रमांक :–पसओ/जिपजो/11–12/ 459 दिनांक :– 28/4/11

प्रेषित :–

मुख्य कार्यकारी अधिकारी

जिला परिषद् जोधपुर

विषय :– प्रस्ताव भिजवाने बाबत्।

उपरोक्त विषयान्तर्गत निवेदन है कि ग्राम पंचायत जेलू गगाड़ी, नेवरा रोड़ पंचायत समिति ओसियां की डी.पी.आर. आज दिनांक 28.04.2011 की साधरण सभा के प्रस्ताव सं0 11(1) के द्वारा अनुमोदन कर आवश्यक कार्यवाही हेतु प्रस्तुत है।

(1). नेवरा रोड़ – (जोधपुर xvi)

परियोजना मय आई.डब्ल्यू.एम.पी. –	452.85
नरेगा डवटेल –	127.97
	580.82

(2). जेलू गगाड़ी –(जोधपुर xiv)

परियोजना मय आई.डब्ल्यू.एम.पी. –	459.15
नरेगा डवटेल –	116.98
	576.13

विकास अधिकारी
पंचायत समिति ओसियां

विकास एवं उत्पादन समिति की विशेष बैठक का कार्यवाही विवरण
जिला परिषद जोधपुर दिनांक 29.04.11

आज दिनांक 29.04.11 को श्री भागीरथ बेनिवाल की अध्यक्षता में उत्पादन समिति जिला परिषद् जोधपुर में बैठक का आयोजन किया गया इस बैठक में निम्न लिखित सदस्य एवं अधिकारीगण उपस्थित हुये :–

1. श्री शिवाराम भील, सदस्य
2. श्रीमति भागू देवी विश्नोई, सदस्य
3. श्रीमति अणचकंवर, सदस्य
4. श्री सुरेश नवल, आर.ए.एस., अति.मु.कार्य.अधिकारी जिला परिषद्, जोधपुर।
5. श्री बजवीर सिंह चौधरी,. अधिशाषी अभियंता, (भू–संसाधन) एवं पदेन परियोजना प्रबन्धक जिला परिषद्, जोधपुर।
6. श्री नरेन्द्र सिंह ए.पी.ओ. (एल.आर.)जिला परिषद्, जोधपुर।
7. श्री सुरेश सिंह सिंघल, कृषि अनुसंधान अधिकारी, पावटा, जोधपुर।
8. श्री पीराराम चौधरी, सहायक कृषि अधिकारी, परियोजना प्रबन्धक, जोधपुर।
9. श्री जगदीश चौधरी, कनिष्ठ अभियंता, पंचायत समिति, औंसिया।

प्रस्ताव संख्या 1

सर्वप्रथम अध्यक्ष महोदय ने गत बैठक की कार्यवाही विवरण से समस्त सदस्यों को अवगत कराया जिनमें समस्त सदस्यों ने अनुमोदन की अनुशंसा की।

प्रस्ताव संख्या 2

श्री परियोजना प्रबन्धक डी.डब्ल्यू.डी.यू. जोधपुर में अवगत कराया कि आई.डब्ल्यू.एम.पी. के तहत जोधपुर जिले में स्वीकृत 20 परियोजनाओं में से 6 परियोजनाओं की डी.पी.आर. पूर्ण की जाकर उत्पादन समिति जिला परिषद्, जोधपुर को अनुशंसा हेतु प्राप्त हुई जिनका विवरण निम्नानुसार है–

क्र. सं.	पंचायत समिति का नाम	परियोजना का नाम	क्षेत्रफल (हैक्टेअर)	आई.डब्ल्यू.एम.पी. लागत (लाखों में)	कन्वरजेन्स लागत (लाखों में)	कुल लागत (लाखों में)
1.	प. स. गण्डोर	जोधपुर–VI पीथावास	4970	745.50	180.85	926.05
2.	पं. स. शेरगढ़	जोधपुर–XI जाटी भाण्डू सोइन्तरा	8234	948	391.40	1339.04
3.	पं. स. ओसिंया	जोधपुर–XIV जेलुगगाड़ी	3780	459.15	116.98	576.13
4.	पं. स. औसिया	जोधपुर–XVI नेवरा रोड़	3694	452.85	127.97	580.82
5.	पं. स. बावड़ी	जोधपुर–XV लवेड़ा कला	8489	466.02	131.12	597.32
6.	प. स. लूणी	जोधपुर–XVIII पीथावास	6000	900	48	948

उपरोक्त परियोजनाओं को बैठकं में अध्यक्ष महोदय एवं समस्त सदस्यों ने परियोजनाओं की अनुशंसा की।

प्रस्ताव संख्या 3

परियोजना प्रबन्धक, डी.डब्ल्यू.डी.यू. जोधपुर ने अवगत कराया कि भारत सरकार को वर्ष 11–12 की पंचायत समिति की वरीयता सूची के आधार पर एवं जिले को आवंटित लक्ष्य के अनुसार 20 परियोजनाओं निम्नानुसार राज्य सरकार को भिजवाई गयी है।

पंचायत समिति, बिलाड़ा की लाम्बा, पंचायत समिति बाप की सुरपुरा, अनोप नगर व जाम्बा, पंचायत समिति फलोदी की पीलवा, भोजासर व श्री लक्षमण नगर, पंचायत समिति भोपालगढ़ की नाड़सर व खारापुरा,

पंचायत समिति लूणी की काकेलाव बिरामी, पंचायत समिति मण्डोर की केरू ५ प. पंचायत समिति बालेसर की बेलवा व बावरली, पंचायत समिति शेरगढ़ की सुवालिया चाबा व भोमसागर चाबा औसिया की नौसर, भीकमकौर ।, एवं मालूंगा बावडी की कजूनउकलां व बिराई।

उक्त परियोजनाओं एवं वरीयता सूची का अध्यक्ष महोदय एवं समस्त सदस्यों ने अनुशंसा की।

प्रस्ताव संख्या 4

आई.डब्ल्यू.एम.पी. योजना में स्वीकृत जलग्रहण परियोजनाओं में कमेटी गठन के समय सम्बंधित जिला परिषद् सदस्य को विशेष रूप से आमंत्रित करने हेतु समस्त सदस्यों ने प्रस्ताव रखा जिसे सर्वसम्मति से पारित किया गया।

प्रस्ताव संख्या 5

आई.डब्ल्यू.एम.पी. योजना में जिले में स्वीकृत जलग्रहण परियोजनाओं में आयोजित की जाने वाली समस्त ग्राम सभा के बारें में समय समय पर जिला परिषद की विकास एवं उत्पादन समिति को आवश्यक रूप से अवगत कराने का प्रस्ताव रखा जिसे सर्वसम्मति से पारित किया गया।

अन्त में अध्यक्ष महोदय ने सधन्यवाद से बैठक समाप्त की।

अध्यक्ष
विकास एवं उत्पादन समिति
जिला परिषद जोधपुर

अतिरिक्त मुख्य कार्यकारी अधिकारी
जिला परिषद जोधपुर

क्रमांक 888 - 900 ·

दिनांक 3.5.2011

1– जिला प्रमुख महोदया, जोधपुर।
2– सदस्य विकास एवं उत्पादन स्थायी समिति श्री.....
3– अति.मुख्य कार्यकारी अधिकारी जिला परिषद जोधपुर।
4– उप निदेशक महिला एवं बाल विकास विभाग जोधपुर।
5– उप निदेशक सामाजिक न्याय एवं अधिकारिता विभाग जोधपुर।
6– उप निदेशक कृषि विभाग जोधपुर।
7– परियोजना अधिकारी जल संरक्षण जिला परिषद जोधपुर
8– गार्ड फाईल

अतिरिक्त मुख्य कार्यकारी अधिकारी
जिला परिषद जोधपुर

कार्यालय परियोजना प्रबन्धक, जिला जलग्रहण विकास इकाई, जोधपुर
क्रमांक :- ~~888~~ PC) / DWDU) DPR(9-10) 786-805 दिनांक :- 3-6-11
(1) विकास अधिकारी (समस्त) पंचा ---------
(2) AEn (PIA-IWMP) (समस्त) पंचा - Osian.
को भेजकर लेख है कि उक्त निर्णयों के अनुपालन परियोजनाओं के क्रियान्वयन की कार्यवाही समयान्तर्गत करावें। एवं निर्णयों के अनुपालन की कार्यवाही सुनिश्चित कर पालना से अवगत कावें।

CHAPTER –III

Proposed Development plan

STATE: **RAJASTHAN**
DISTRICT: JODHPUR

NAME OF THE BLOCK:Osian
NAME OF WATERSHED:Jodhpur-XIV **(IWMP)**

CATEGORY OF WATERSHED: **DESERT AREA**
TOTAL: 6530.00 Hac.

UNIT COST: **RS. 15000/- Hac.**
GEOGRAPHICAL AREA: 3780 **Hac**.
EFFECTIVE AREA: 3061Ha.
(I) ARABLE LAND: **1895 Hac**.
(II) NON ARABLE LAND: 1885**Hac**.

Cost from IWMP project :- 459.15 Lakh

Cost from convergence:- 116.98

Total cost 576.13

S.No.	Activity	Unit	Unit cost	Quantity	Total cost	Cost from project	Cost from convergence	Beneficiary contribution
A I	Administration cost	10%		-	45.92	45.92	-	-
II	Monitoring	1%		-	4.59	4.59	-	-
III	Evaluation	1%		-	4.59	4.59	-	-
IV	Preparatory Phase (Entry Point Activity)	4%		-	18.37	18.37	-	-
V	Institution And Capacity Building	5%		-	22.96	22.96	-	-
VI	Preparation of Detailed Project Report (DPR)	1%		-	4.59	4.59	-	-
	Total	**22%**		**-**	**101.02**	**101.02**	0	-
B	**Watershed Development Works (NRM)**	60%						-
I	Arable Land Conservation Measures							-
1	Earthen Bund	No.	0.09/0.10	1320	121.00	99.00	22	-
2	Gully Control Structure (Loose Stone Chack Dam)	No.	0.2	40	8.00	8.00	-	-
3	Water Harvesting Tanka	No.	0.76/0.85	189	152.55	68.40	84.15	-
4	Wasteweir	No.	0.5	40	20.00	20.00	-	-
	Total			**-**	**301.55**	**195.40**	106.15	-
II	**Non Arable Land Conservation Measures**							-

1	Ditch Cum Bund /Barbed wire Fencing	Mt.		3500	4.97	4.97	-	-
2	Contour Furrow in Pasture Land	Hac.	0.09	35	3.15	3.15	-	-
3	Contour Furrow in Non Arable Land	Hac.	0.09	105	9.45		9.45	-
4	Earthen Bund	No.	0.1	51	5.10	5.10	-	-
5	Gully Control Structure L.S.C.D)	No	0.10/0.20	50	7.50	7.50	-	-
6	Waste weir	No	0.76	6	4.56	4.56	-	-
	Total			**-**	**34.73**	**25.28**	**9.45**	-
III	**Drainage Line Treatment**							-
(1)	Dug-out /shunken pond	No.	2.00	5	10.00	10.00	-	-
(2)	L.S.C.D	No.	0.10/0.20	152	22.80	22.80	-	-
(3)	MMS (i)	No.	2.00	5	10	10.00	0	-
	(ii)	No.	4.00	3	12	12.00		-
	Total				**54.80**	**54.80**		-
	Total Watershed Development Works	**-**			**391.08**	**275.48**	**115.6**	-
C	**Production System and Micro Enterprises**							-
I	Arable Land Production System	15%		-	-		-	-
(1)	Crop/Fodder Demonstration			1124	13.15	13.15	-	-
(2)	Agro Forestry	No.		10000	1.90	1.90	-	-
(3)	Dry land Horticulture(Unit)	No.		115	7.70	7.70	-	-
(4)	Homestead Kitchen Garden	No.		150	0.45	0.45		-
(5)	Organic Farming						-	-
	i Compost Pit	No.	0.018	150	2.70	2.70		-
	ii Vermi Compost Unit	No.	0.022	150	3.30	3.30	-	-
(6)	Household Production System (For Marginal Farmer and landless Labour) & micro enterprises				17.32	17.32	-	-
	Total	**-**			**46.52**	46.52		-
II	Non Arable Land Production System							-
(1)	Plantation in Pasture land and Along DLT. line	No.		14000	8.00	8.00		-
(2)	Over seeding in Pasture land	Hac.		35	0.46	0.46		-
(3)	Over seeding in Non Arable land	Hac		105	1.38	0.00	1.38	-

	Total				**9.84**	8.46	1.38	-
III	Live Stock Management			-				-
(1)	Animal Health Camps	No.	0.15	36	5.40	5.40	0	-
(2)	Mangers Distribution	No.	0.005	300	1.50	1.50	0	-
3	Cattlecare and fodder storage center	No.	5.00	1	5.00	5.00	0	-
4	Bull Distribution	No.	0.50	4	2.00	2.00		-
	Total	-			**13.90**	13.90	0	-
	Total Production System	**-**			**70.26**	68.88	**1.38**	-
E.	**Consolidation**	**3%**			**13.77**	13.77	0.00	-
	Grand Total	**-**		-	**576.13**	**459.15**	**116.98**	-

CHAPTER –IV

ACTIVITY WISE ABSTRACT OF COST

STATE: **RAJASTHAN** UNIT COST: **RS. 15000/- Hac.**

DISTRICT: JODHPUR GEOGRAPHICAL AREA: 3780 **Hac**.

NAME OF THE BLOCK:Osian (I) ARABLE LAND: **1895 Hac**.

NAME OF WATERSHED:Jodhpur-XIV **(IWMP)** (II) NON ARABLE LAND: 1885 Hac.

CATEGORY OF WATERSHED: **DESERT AREA** Cost from IWMP project :- 459.15 Lakh

TOTAL: 6530.00 Hac. 116.98 Total cost 576.13

S.No.	Activity	Unit	Quantity	Unit cost	Total cost	Cost from project	Cost from convergence	Beneficiary contribution
A I	Administration cost	10%	-		45.92	45.92	-	-
II	Monitoring	1%	-		4.59	4.59	-	-
III	Evaluation	1%	-		4.59	4.59	-	-
IV	Preparatory Phase (Entry Point Activity)	4%	-		18.37	18.37	-	-
V	Institution And Capacity Building	5%	-		22.96	22.96	-	-
VI	Preparation of Detailed Project Report (DPR)	1%	-		4.59	4.59	-	-
	Total	**22%**	**-**		**101.02**	**101.02**	0	-
B	**Watershed Development Works (NRM)**	60%						-
I	Arable Land Conservation Measures							-
1	Earthen Bund	No.	1320	0.09	121.00	99.00	22.00	-
2	Gully Control Structure (Loose Stone Chack Dam)	No.	40	0.2	8.00	8.00	-	-
3	Water Harvesting Tanka	No.	189	0.76/0.85	152.55	68.40	84.15	-
4	Wasteweir	No.	40	0.5	20.00	20.00	-	-
	Total		**-**		**301.55**	**195.40**	106.15	-
II	**Non Arable Land Conservation Measures**							-
1	Ditch Cum Bund /Barbed wire Fencing	Mt.	3500		4.97	4.97	-	-
2	Contour Furrow in Pasture Land	Hac.	35	0.09	3.15	3.15	-	-
3	Contour Furrow in Non Arable Land	Hac.		0.09	9.45		9.45	-
4	Earthen Bund	No.	51	0.1	5.10	5.10	-	-
5	Gully Control Structure L.S.C.D)	No	50	0.10/0.20	7.50	7.50	-	-
6	Waste weir	No	6	0.76	4.56	4.56	-	-

	Total		**-**		**34.73**	**25.28**	**9.45**	-
III	**Drainage Line Treatment**							-
(1)	Dug-out /shunken pond	No.	5	2.00	10.00	10.00	-	-
(2)	L.S.C.D	No.	152	0.10/0.20	22.80	22.80	-	-
(3)	MMS (i)	No.	5	2.00	10	10.00	0	-
	(ii)	No.	3	4.00	12	12.00		-
	Total				**54.80**	**54.80**		-
	Total Watershed Development Works	**-**			**391.08**	**275.48**	**115.6**	-
C	**Production System and Micro Enterprises**							-
I	Arable Land Production System	15%	-		-		-	-
(1)	Crop/Fodder Demonstration		1124		13.15	13.15	-	-
(2)	Agro Forestry	No.	10000		1.90	1.90	-	-
(3)	Dry land Horticulture(Unit)	No.	115		7.70	7.70	-	-
(4)	Homestead Kitchen Garden	No.	150		0.45	0.45		-
(5)	Organic Farming						-	-
	i Compost Pit	No.	150	0.018	2.70	2.70		-
	ii Vermi Compost Unit	No.	150	0.022	3.30	3.30	-	-
(6)	Household Production System (For Marginal Farmer and landless Labour) & micro enterprises				17.32	17.32	-	-
	Total	**-**			**46.52**	46.52		-
II	Non Arable Land Production System							-
(1)	Plantation in Pasture land and Along DLT. line	No.	14000		8.00	8.00		-
(2)	Over seeding in Pasture land	Hac.	35		0.46	0.46		-
(3)	Over seeding in Non Arable land	Hac	105		1.38	0.00	1.38	-
	Total				**9.84**	8.46	1.38	-
III	Live Stock Management		-					-
(1)	Animal Health Camps	No.	36	0.15	5.40	5.40	0	-
(2)	Mangers Distribution	No.	300	0.005	1.50	1.50	0	-
3	Cattlecare and fodder storage center	No.	1	5.00	5.00	5.00	0	-
4	Bull Distribution	No.	4	0.50	2.00	2.00		-
	Total	-			**13.90**	13.90	0	-
	Total Production System	**-**			**70.26**	68.88	**1.38**	-
E.	**Consolidation**	**3%**			**13.77**	13.77	0.00	-

	Grand Total	**-**	-		**576.13**	**459.15**	**116.98**	-

CHAPTER –V

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5.1 CONSOLIDATED ANNUAL ACTION PLAN

STATE: **RAJASTHAN**
UNIT COST: **RS. 15000/- Hac.**
DISTRICT: **Jodhpur** GEOGRAPHICAL AREA: 3780 **Hac**.
NAME OF THE BLOCK: Osian (I) ARABLE LAND: **1895 Hac**.
NAME OF WATERSHED: Jelu-gagadi (Jodhpur XIV)**IWMP** (II) NON ARABLE LAND: 1885 **Hac**.
CATEGORY OF WATERSHED: **DESERT AREA**
TOTAL: 3061 Hac.
Cost from project fund 459.15 Cost from convergence 116.98 Lakh
Total cost 576.13 Lakh

S.No.	Activity	Unit		Quantity	Unit cost	Total cost	I st Year		II nd Year		III rd year		IV th Year		V th year		VI th year		VII th year	
							Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
A I	Administration cost	10	%	-		45.92	-	0.00	-	0.00	-	9.18		9.18	-	9.18		18.38		
II	Monitoring	1	%	-		4.59	-	0.46	-	0.92	-	0.92	-	0.92	-	0.92	-	0.46	-	
III	Evaluation	1	%	-		4.59	-		-	0.92	-	0.92	-	0.92	-	0.92	-	0.91	-	
IV	Preparatory Phase (Entry Point Activity)	4	%	-		18.37	-	18.37	-	-	-	-	-	0.00	-	0.00	-		-	
V	Institution And Capacity Building	5	%	-		22.96	-	4.59	-	4.59	-	4.59	-	4.59	-	2.29	-	2.31	-	
VI	Preparation of Detailed Project Report (DPR)	1	%	-		4.59	-	4.59	-	-	-	-	-	0.00	-	0.00	-		-	
	Total	**22**	%	**-**		101.02	-	**28.01**	**0**	**6.43**	**0**	**15.61**	**0**	**15.61**	**0**	**13.31**	**0**	**22.06**	**0**	
B	**Watershed Development Works (NRM)**	**60**	%																	
I	Arable Land Conservation Measures	-																		
1	Earthen Bund		No.	1320	0.09/0.10	121.00	-	-	200	18	300	28	400	37	320	29	100	9		
2	Gully Control Structure (L.C. D.M)		No.	40	0.20	8.00	-	-	10	2	10	2	10	2	10	2	-	-	-	
3	Water Harvesting Tanka		No.	189	0.76/.85	152.55			20	15.2	40	32.2	40	32.2	50	40.7	10	32.25		

4	Wasteweir		No.	40	0.50	20.00	-	-	-	-	10.00	5.00	10.00	5.00	10.00	5.00	10.00	5.00		
	Total			**-**		**301.55**	**0**	**0**		**35.2**		**67.2**		**76.2**		**76.7**		**46.25**		
II	**Non Arable Land Conservation Measures**	-																		
1	Ditch Cum Bund/ barbed wire Fencing		Mt.	3500		4.97	-	-			2000	2.84	1500	2.13	-	-	-	-	-	
2	Contour Furrow in Pasture Land		Hac.	35	0.09	3.15	-	-			20.00	1.80	15.00	1.35	-	-	-	-	-	
3	Contour Furrow in Non Arable Land		Hac.	105	0.09	9.45	-	-	-	-	-	-	55.00	4.95	50.00	4.50	-	-	-	
4	Earthen Bund		No.	51	0.10	5.10	-	-			10	1	10	1	10	1	21	2.1		
5	Gully Control Structure L.S.C.D)		No	50	0.10/0.20	7.50	-	-	10.00	1.50	10.00	1.50	10.00	1.50	10.00	1.50	10.00	1.50		
6	Tanka		No	6	0.76	4.56	-	-	-	-	2.00	1.52	2.00	1.52	2.00	1.52	-	-	-	
	Total			**-**		**34.73**	**-**	**0**	**-**	**1.5**	**-**	**8.66**		**12.45**		**8.52**		**3.6**		
III	**Drainage Line Treatment**	-																		
(1)	Dug-out/shunken pond		No.	10	1.00	10.00	-	-	-	-	4.00	4.00	4.00	4.00	2.00	2.00		-		
2	L.S.C.D.		No.	152	0.10/0.20	22.80			20.00	3.00	40.00	6.00	40.00	6.00	27.00	4.05	25.00	3.75		
3	MMS (i)		No.	5	2.00	10.00	-	-	-	-	1	2.00	2	4.00	1	2.00	1	2.00		
	(ii)		No.	3	4.00	12.00					1	4.00	1	4.00	1	4.00				
	Total			**-**		**54.80**		**0.00**	**-**	**3.00**		**16.00**		**18.00**		**12.05**		**5.75**		
	Total Watershed Development Works		**-**	**-**		**391.08**		**0.00**		**39.70**	**-**	**91.86**	**-**	**106.65**	**-**	**97.27**	**-**	**55.60**	**-**	**0.00**
C	**Production System and Micro Enterprises**		15%																	
I	Arable Land Production System			-																
(1)	Crop/Fodder Demonstration			1124	0.012	13.15	-	0	300	3.55	300	3.55	300	3.55	214	2.5				
(2)	Agro Forestry		No.	10000		1.90	-	0	3000	0.57	3000	0.57	4000	0.76	-	0	-	0	-	0
(3)	Dry land Horticulture(Unit)		No.	115	0.067	7.70	-	0	20	1.34	40	2.68	40	2.68	15	1	-	0	-	0
(4)	Homestead Kitchen Garden		No.	150	0.003	0.45	-	0			50	0.15	50	0.15	50	0.15				
(5)	Organic Farming																			
	i Compost Pit		No.	150	0.018	2.70					100	1.8	50	0.9	-	0	-	0	-	0
	ii Vermi Compost Unit		No.	150	0.022	3.30	-	0			50	1.1	50	1.1	50	1.1				
(6)	Household Production System (For Marginal Farmer and landless Labour) & Micro enterprises		No.			17.32				5		5		5		2.32				

	Total		**-**	**-**		**46.52**		**0**		**10.46**		**14.85**		**14.14**		**7.07**		**0.00**		**0.00**
II	Non Arable Land Production System																			
(1)	Plantation in Pasture land and Along DLT. line		No.	14000		8.00					5000	3	5000	3	4000	2	-		-	
(2)	Over seeding in Pasture land		Hac.	35	0.09	0.46	-				20	0.3	15	0.16	-		-		-	
(3)	Over seeding in Non Arable land		Hac	105		1.38	-		-	0		0	55	0.78	50	0.66	-		-	
	Total			**-**		**9.84**	**-**	**0**	**-**	**0.00**		**3.3**	**-**	**3.94**	**-**	**2.66**	**-**	**0**	**-**	**0**
III	Live Stock Management																			
(1)	Animal Health Camps		No.	36	0.15	5.40			6	**0.90**	8	**1.20**	8	**1.20**	8	**1.20**	6	**0.90**		
(2)	Mangers Distribution		No.	300	0.01	1.50			100	0.50	100	0.50	100	0.50						
-3	Cattlecare and fodder storage center		No.	1	5.00	5.00							1	5.00						
(4)	Bull /He Buffello Distribution		No.	4	0.50	2.00	-	0					2	1.00	2	1.00				
	Total		-	-		**13.90**	-	0.00	-	1.40	-	1.70	-	7.70	-	2.20	-	0.90	-	0.00
	Total Production System		**-**	**-**		**70.26**				11.86		19.85		25.78		11.93		0.90		0.00
D	**Consolidation**	**3**	**3%**	**-**		**13.77**	**-**	**0**		**0**		**0**		**0**				**6**		**7.67**
	Grand Total		**-**	**-**		**576.13**		**28.01**		**57.99**		**127.32**		**148.04**		**122.51**		**84.56**		**7.67**

CHAPTER –V

- - - - - - - - -

5.2 ANNUAL ACTION PLAN THROUGH PROJECT FUND

STATE: **RAJASTHAN**
UNIT COST: **RS. 15000/- Hac.**
DISTRICT: **Jodhpur**
NAME OF THE BLOCK: Osian
NAME OF WATERSHED: Jelu-gagadi (Jodhpur XIV)**IWMP**
CATEGORY OF WATERSHED: **DESERT AREA**

GEOGRAPHICAL AREA: 3780 **Hac**.
(I) ARABLE LAND: **1895 Hac**.
(II) NON ARABLE LAND: 1166 **Hac**.
TOTAL: 3061 Hac. 3061
459.1
5

S.No.	Activity	Unit		Quantity	Unit cost	Total cost	I st Year		II nd Year		III rd year		IV th Year		V th year		VI th year		VII th year	
							Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
A I	Administration cost	10	%	-		45.92	-	4.59	-	9.18	-	9.18		9.18	-	9.18		4.60		
II	Monitoring	1	%	-		4.59	-	0.46	-	0.92	-	0.92	-	0.92	-	0.92	-	0.46	-	
III	Evaluation	1	%	-		4.59	-		-	0.92	-	0.92	-	0.92	-	0.92	-	0.91	-	
IV	Preparatory Phase (Entry Point Activity)	4	%	-		18.37	-	18.37	-	-	-	-	-	0.00	-	0.00	-		-	
V	Institution And Capacity Building	5	%	-		22.96	-	4.59	-	4.59	-	4.59	-	4.59	-	2.29	-	2.31	-	
VI	Preparation of Detailed Project Report (DPR)	1	%	-		4.59	-	4.59	-	-	-	-	-	0.00	-	0.00	-		-	
	Total	**22**	%	**-**		101.01	-	**32.60**	**0**	**15.61**	**0**	**15.61**	**0**	**15.61**	**0**	**13.31**	**0**	**8.28**	**0**	
B	**Watershed Development Works (NRM)**	**60**	%																	
I	Arable Land Conservation Measures	-																		
1	Earthen Bund		No.	1100	0.09	99.00	-	-	200	18	200	18	300	27	300	27	100	9		
2	Gully Control Structure (L.C. D.M)		No.	40	0.20	8.00	-	-	10	2	10	2	10	2	10	2	-	-	-	
3	Water Harvesting Tanka		No.	90	0.76	68.40			20	15.2	20	15.2	20	15.2	20	15.2	10	7.6		
4	Wasteweir		No.	40	0.50	20.00	-	-	-	-	10.00	5.00	10.00	5.00	10.00	5.00	10.00	5.00		
	Total			**-**		**195.40**	**0**	**0**		**35.2**		**40.2**		**49.2**		**49.2**		**21.6**		
II	**Non Arable Land Conservation Measures**	-																		
1	Ditch Cum Bund/ barbed wire Fencing		Mt.	3500		4.97	-	-			2000	2.84	1500	2.13	-	-	-	-	-	

2	Contour Furrow in Pasture Land		Hac.	35	0.09	3.15	-	-			20.00	1.80	15.00	1.35	-	-	-	-	-	
3	Contour Furrow in Non Arable Land		Hac.				-	-	-	-	-	-	-	-	-	-	-	-	-	
4	Earthen Bund		No.	51	0.10	5.10	-	-			10	1	10	1	10	1	21	2.1		
5	Gully Control Structure L.S.C.D)		No	50	0.10/0.20	7.50	-	-	10.00	1.50	10.00	1.50	10.00	1.50	10.00	1.50	10.00	1.50		
6	Tanka		No	6	0.76	4.56	-	-	-	-	2.00	1.52	2.00	1.52	2.00	1.52	-	-	-	
	Total			**-**		**25.28**	**-**	**0**	**-**	**1.5**	**-**	**8.66**		**7.5**		**4.02**		**3.6**		
III	**Drainage Line Treatment**	-																		
(1)	Dug-out/shunken pond		No.	10	1.00	10.00	-	-	-	-	4.00	4.00	4.00	4.00	2.00	2.00		-		
2	L.S.C.D.		No.	152	0.10/0.20	22.80			20.00	3.00	40.00	6.00	40.00	6.00	27.00	4.05	25.00	3.75		
3	MMS (i)		No.	5	2.00	10.00	-	-	-	-	1	2.00	2	4.00	1	2.00	1	2.00		
	(ii)		No.	3	4.00	12.00					1	4.00	1	4.00	1	4.00				
	Total			**-**		**54.80**		**0.00**	**-**	**3.00**		**16.00**		**18.00**		**12.05**		**5.75**		
	Total Watershed Development Works		**-**	**-**		**275.48**		**0.00**		**39.70**	**-**	**64.86**	**-**	**74.70**	**-**	**65.27**	**-**	**30.95**	**-**	**0.00**
C	**Production System and Micro Enterprises**		15%																	
I	Arable Land Production System			-																
(1)	Crop/Fodder Demonstration			1124	0.012	13.15	-	0	300	3.55	300	3.55	300	3.55	214	2.5				
(2)	Agro Forestry		No.	10000		1.90	-	0	3000	0.57	3000	0.57	4000	0.76	-	0	-	0	-	0
(3)	Dry land Horticulture(Unit)		No.	115	0.067	7.70	-	0	20	1.34	40	2.68	40	2.68	15	1	-	0	-	0
(4)	Homestead Kitchen Garden		No.	150	0.003	0.45	-	0			50	0.15	50	0.15	50	0.15				
(5)	Organic Farming																			
	i Compost Pit		No.	150	0.018	2.70					100	1.8	50	0.9	-	0	-	0	-	0
	ii Vermi Compost Unit		No.	150	0.022	3.30	-	0			50	1.1	50	1.1	50	1.1				
(6)	Household Production System (For Marginal Farmer and landless Labour) & Micro enterprises		No.			17.32				5		5		5		2.32				
	Total		**-**	**-**		**46.52**		**0**		**10.46**		**14.85**		**14.14**		**7.07**		**0.00**		**0.00**
II	Non Arable Land Production System																			
(1)	Plantation in Pasture land and Along DLT. line		No.	14000		8.00					5000	3	5000	3	4000	2	-		-	
(2)	Over seeding in Pasture land		Hac.	35	0.09	0.46	-				20	0.3	15	0.16	-		-		-	
(3)	Over seeding in Non Arable		Hac	-		-	-		-	0		0	-		-		-		-	

	land																			
	Total			**-**		**8.46**	**-**	**0**	**-**	**0.00**		**3.3**	**-**	**3.16**	**-**	**2**	**-**	**0**	**-**	**0**
III	Live Stock Management																			
(1)	Animal Health Camps		No.	36	0.15	5.40			6	**0.90**	8	**1.20**	8	**1.20**	8	**1.20**	6	**0.90**		
(2)	Mangers Distribution		No.	300	0.01	1.50			100	0.50	100	0.50	100	0.50						
-3	Cattlecare and fodder storage center		No.	1	5.00	5.00							1	5.00						
(4)	Bull /He Buffello Distribution		No.	4	0.50	2.00	-	0					2	1.00	2	1.00				
	Total		-	-		**13.90**	-	0.00	-	1.40	-	1.70	-	7.70	-	2.20	-	0.90	-	0.00
	Total Production System		**-**	**-**		**68.88**				11.86		19.85		25.00		11.27		0.90		0.00
D	**Consolidation**	**3**	**3%**	**-**		**13.77**	**-**	**0**		**0**		**0**		**0**				**6**		**7.67**
	Grand Total		**-**	**-**		**459.14**		**32.60**		**67.17**		**100.32**		**115.31**		**89.85**		**46.13**		**7.67**

CHAPTER –V

- - - - - - - - -

5.3 ANNUAL ACTION PLAN CONVERGENCE FUND

STATE: **RAJASTHAN**
UNIT COST: **RS. 15000/- Hac.**

DISTRICT: **Jodhpur** GEOGRAPHICAL AREA: 3780 **Hac**.

NAME OF THE BLOCK: Osian (I) ARABLE LAND: **1895 Hac**.

NAME OF WATERSHED: Jelu-gagadi (Jodhpur XIV)**IWMP** (II) NON ARABLE LAND: 1885 **Hac**.

CATEGORY OF WATERSHED: **DESERT AREA** **TOTAL:**
3061 Hac.

S.No.	Activity	Unit		Quantity	Unit cost	Total cost	I st Year		II nd Year		III rd year		IV th Year		V th year		VI th year		VII th year	
							Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
A I	Administration cost		%	-																
II	Monitoring		%	-																
III	Evaluation		%	-																
IV	Preparatory Phase (Entry Point Activity)		%	-																
V	Institution And Capacity Building		%	-																
VI	Preparation of Detailed Project Report (DPR)		%	-																
	Total		%	**-**																
B	**Watershed Development Works (NRM)**		%																	
I	Arable Land Conservation Measures	-																		
1	Earthen Bund		No.	220	0.10	22.00	-	-			100	10	100	10	20	2				
2	Gully Control Structure (L.C. D.M)		No.															-	-	
3	Water Harvesting Tanka		No.	99	0.85	84.15					20	17	20	17	30	25.5	29	24.65		
4	Wasteweir		No.				-	-	-	-										
	Total			**-**	**-**	**106.15**	**0**	**0**		**0**		**27**		**27**		**27.5**		**24.65**		
II	**Non Arable Land Conservation Measures**	-																		
1	Ditch Cum Bund/ barbed wire		Mt.	**-**	**-**	**-**	-	-							-	-	-	-	-	

	Fencing																			
2	Contour Furrow in Pasture Land		Hac.	-	-	-	-	-							-	-	-	-	-	
3	Contour Furrow in Non Arable Land		Hac.	105	0.09	9.45	-	-	-	-	-	-	55.00	4.95	50.00	4.50	-	-	-	
4	Earthen Bund		No.	-	-	-	-	-							10	1	21	2.1		
5	Gully Control Structure L.S.C.D)		No	-	-	-	-	-												
6	Tanka		No	-	-	-	-	-											-	
	Total			**-**		**9.45**	**-**	**0**	**-**	**0**	**-**	**0**		**4.95**		**5.5**		**2.1**		
III	**Drainage Line Treatment**	-																		
(1)	Dug-out/shunken pond		No.				-	-	-	-								-		
2	L.S.C.D.		No.																	
3	MMS (i)		No.				-	-	-	-										
	(ii)		No.																	
	Total			**-**		**0.00**		**0.00**	**-**	**0.00**		**0.00**		**0.00**		**0.00**		**0.00**		
	Total Watershed Development Works		**-**	**-**		**115.60**		**0.00**		**0.00**	**-**	**27.00**	**-**	**31.95**	**-**	**33.00**	**-**	**26.75**	**-**	**0.00**
C	**Production System and Micro Enterprises**		15%																	
I	Arable Land Production System			-																
(1)	Crop/Fodder Demonstration						-													
(2)	Agro Forestry		No.				-										-	0	-	0
(3)	Dry land Horticulture(Unit)		No.				-										-	0	-	0
(4)	Homestead Kitchen Garden		No.				-													
(5)	Organic Farming																			
	i Compost Pit		No.												-	0	-	0	-	0
	ii Vermi Compost Unit		No.				-	0												
(6)	Household Production System (For Marginal Farmer and landless Labour) & Micro enterprises		No.																	
	Total		**-**	**-**		**0.00**		**0**		**0.00**		**0.00**		**0.00**		**0**		**0.00**		**0.00**
II	Non Arable Land Production System																			
(1)	Plantation in Pasture land and Along DLT. line		No.														-		-	

(2)	Over seeding in Pasture land		Hac.				-										-		-	
(3)	Over seeding in Non Arable land		Hac	105		1.38	-		-	0		0	55	0.72	50	0.66	-		-	
	Total			**-**		**1.38**	**-**	**0**	**-**	**0.00**		**0**	**-**	**0.72**	**-**	**0.66**	**-**	**0**	**-**	**0**
III	Live Stock Management																			
(1)	Animal Health Camps		No.																	
(2)	Mangers Distribution		No.																	
-3	Cattlecare and fodder storage center		No.																	
(4)	Bull /He Buffello Distribution		No.				-	0												
	Total		-	-		**0.00**	-	0.00	-	0.00	-	0.00	-	0.00	-	0.00	-	0.00	-	0.00
	Total Production System		**-**	**-**		**1.38**				0.00		0.00		0.72		0.66		0.00		0.00
D	**Consolidation**	**3**	**3%**	**-**		**0.00**	**-**	**0**		**0**		**0**		**0**				**6**		**7.67**
	Grand Total		**-**	**-**		**116.98**		**0.00**		**0.00**		**27.00**		**32.67**		**33.66**		**32.75**		**7.67**

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	134.15	137.20	Due to Increase in Number of Deep Tube wells
2	Ground water structures repaired/ rejuvenated	No.	-		
3	Quality of drinking water	Description	Satisfied		
4	Availability of drinking water	Description	12 Month		
5	Change in irrigated Area	Ha	440	920	
6	Change in cropping/ land use pattern	Description			
7	Area under agricultural crop	Ha	1579	1805	
	I Area under single crop	Ha	1139	975	
	Ii Area under double crop	Ha	440	920	
	Iii Area under multiple crop	Ha	-		
8	Change in cultivated Area	Ha			
9 yield of major crops of area	Yield of Bajra	q/ha	6	7	
	Yield of Wheat	q/ha	18	21	
	Yield of Gram	q/ha	-		
	Yield of Mustard	q/ha	12	14	
10 production of major crops of area	Production of Bajra	ton	22.74	26.50	
	Production of Wheat	ton	50.22	64.25	
	Production of Gram	ton	-	-	
	Production of Mustard	ton	9.48	12.70	
11	Area under vegetation	Ha			
12	Area under horticulture	Ha			
13	Area under fuel	Ha			
14	Area under Fodder	Ha			
15	Fodder production	Q	13650	17620	
16	Milk production	Litres/day	4715	5000	
17	SHGs Active	No.	8		
18	No. of livelihoods	No.	6805		
19	Income	Rs.in la			
20	Migration	No.			
21	SHG Federations formed	No.			

Critical Assumption

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

Means of Verification of **indicators**

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

TECHNICAL REPORT

NAME OF WORK	Construction of Water Harvesting structure
Panchayat	Jelu gagadi
District	Jodhpur
Name of Scheme	IWMP
Name of Village	Jelu, binjaria-bawdi
Panchayat Samiti	Osian

This project is taken in IWMP Scheme.The proposed anicut will not only reduce velocity of the runoff but also prevent the gullies from furthure soil erosion at the same time it will be very much fruitful in recharging of downstream wells as well as it will increase the moisture content of the soil . So an it improve its productivity the retain water behind the structure can also be used for irrigation , and driniking water for anmimals . The cross section and L-section have been surveyed by dumpy level and catchment area has been taken from G.T. sheet / Revenue map.

Basic Data of Project

		=		
1	Catch ment Area	=	60	Ha.
2	Maxmium Rain fall intencity	=	5	Cm./hr.
3	General nature of catchment Area			
a.	Agricultural land	=	10	Ha.
b.	Nonarable land Land	=	50	Ha.
4	Height of crest above G.L.	=	0.9	M.
5	Flood lift	=	0.4	M.
6	Free board	=	0.2	M.
7	Top width of Head wall	=	0.8	M.
8	Bottom width of Head wall	=	1.80	M.
9	Width of concrete Bed	=	2.10	M.
10	Length of crest	=	10	M.
11	Percentage slope of land	=	2.00	
12	No. of well benifited	=	4	
13	No of farmer benifited	=		
a.	S.C.	=	7	
b.	S.T.	=	0	
c.	Others	=	33	
	Total	=	40	

14	Area to be benifited	=	
a.	S.C.	=	
b.	S.T.	=	20
c.	Others	=	0
	Total	=	110
15		=	
a.	a)Raito of concrete at bed	=	
	(Cement : Sand :Aggregate)(1:4:8)	=	
b.	b) Raito of Masonary fondation & Super structure	=	
	Cement Mortar(1:6)	=	
c.	c) Raito of plastering and flush pointing of 25 mm.	=	
	Cement Mortar(1:6)	=	
d	Raito of Kharanja in cement mortar	=	
16	Cost of Project	=	200000.00
a.	Labour component	=	74150
b.	Material component	=	118167
c.	Contingency	=	7682

Rates are as per GKN 2011 Jodhpur wef 1.1.2011

The Estimate are here with submitted for technical approvel an necessary action

Preapared By Recommended By

J.En. A.En.

Name of work Construction of WHS

Catch ment Area	60	Ha.
Maxmium Rain fall intencity	5	Cm/hr
General nature of catchment Area		
Agricultural land	10	
Non arable land Land	50	
Height of crest above G.L.	0.9	
Length of crest	10	
Percentage slope of land	2.00	
No. of well benifited	4	
No of farmer benifited	40	
S.C.	7	
S.T.		
Others	33	
Total	40	
Area to be benifited		
S.C.	20	
S.T.	0	
Others	110	
Total	130	

GKN 2011 Jodhpur

Desgin calculation of WHS

A

Name of work-: Construction of WHS

I Available crest length 10 M

ii Total catchment Area 60 Ha. As per G.T.Sheet

iii Peak Runoff Rate

a) By Rational Method Use when catchment is <1300Ha.

Q_p = 0.0276 CIA Q=Run off in m3/sec.

C= Coefficient of runoff 0.5

K = $L^{3/2}/H^{1/2}$ I= Intensity of rain fall in cm/hr. 5

K = 3535.5 A= Catchment Area in Ha. 60

Tc = $0.0195K^{0.77}$ L=Maxmium length of travel by runoff water in m. 500

Tc = 10.53 H= Difference in elevation between most remote point and and outlet point in meter 10

$Q_{p=}$ 0.0276 0.50 X 5 X 60

Q_p = 4.14

b) By weir formula

Q = $1.71Lh^{3/2}$

4.14 = 1.71 10 $h^{3/2}$

h 0.39

Say h= 0.4

3 Free Board hw= Wave height in meter

F_b= $1.5h_w$ Df= Fetch length in meter 120 Meter.

$1.5X0.014(D_f)^{1/2}$

F_b= 0.23

Say Fb= 0.2

(B) STRUCTURAL DESGIN

1 Head wall

a) Height of Head wall H= 0.9

b) Top width(Tw) = $\frac{h}{(P-1)^{1/2}}$ P= Sp.ht. Of masonary 2.3

Tw= 0.35

Top width= 0.8

© Bottom width Bw $\overline{Tw+0.8H}$

Bw= 1.52

So Bottom Width= 1.80 Meter

2 Head wall extension

a) Length= H+h+1+Fb

0.9 + 0.4 + 1 + = 2.30 Meter

say Length of Right side wall = 3 Meter

say Length of left side wall = 3.0 Meter

b) Height of Head Extensionwall = H+h+Fb

0.9 + 0.4 + 0.2 = 1.5 Meter

c) Top width 0.6 Meter

d) Bottom Width= 0.5(H+h) = 0.5(0.9 + 0.4)= 0.65 Meter

3 Side wall

a) Length= 1.75H+0.75h+0.45 = 2.33

But as per site condition= 2.7 Meter

b) Height:

At H.W.End= H+h+Fb 0.9 + 0.4 + 0.2 = 1.5 Meter

At W.W.End= h+fb = 0.4 + 0.2 = 0.6 Meter

c) Top width= 0.6 Meter

d) Bottom width=

At H.W.End= 0.6+0.4(H+h) 1.1 Meter

At W.W.End= 0.6+0.4(1.5h) 0.8 Meter

But taken as= 1.0 Meter

4 Wing wall

a) Height h+Fb 0.4 + 0.2 = 0.6 Meter

b) Length= 2.25h 2.25 X 0.4 = 0.90 Meter Say 1.00 M

c) Top width 0.6 Meter

Bottom width of wing wall 0.6 Meter

5 Apron

a) Length= 10 Meter

b) Width= H+h+Fb 0.9 + 0.4 + 0.2 1.5 Meter

c) Thickness 0.6 Meter

6 Toe wall

a) Length= 10 Meter

b) Width= 0.3 Meter

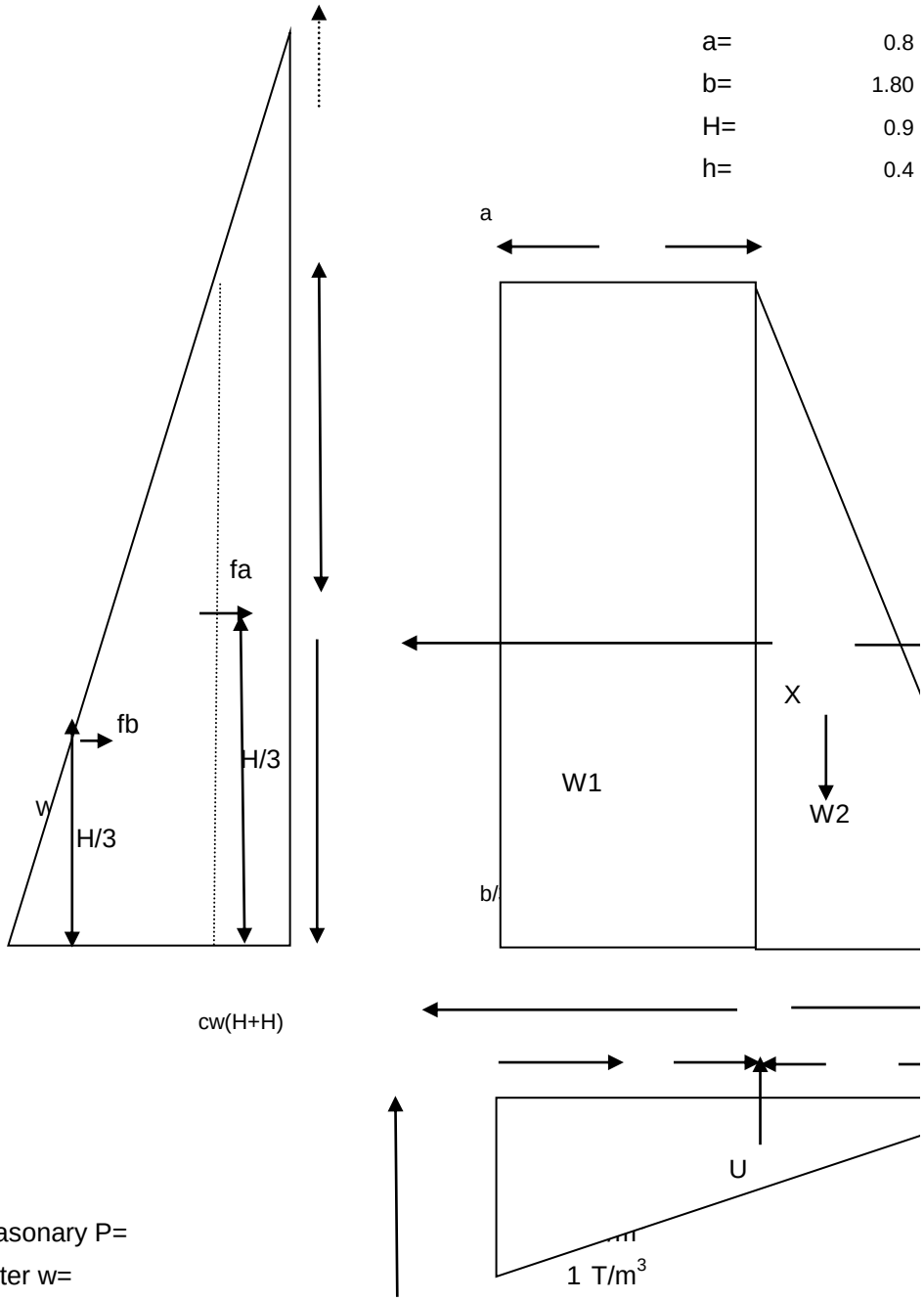
c) Height= 0.3 Meter

Preapared By Recommended By

J.En. A.En.

C= Coefficient of runoff			0.5
I= Intensity of rain fall in cm/hr.			5
A= Catchment Area in Ha.			60
L=Maxmium length of travel by runoff water in m.			500
H= Difference in elevation between most remote point and and outlet point in meter			10
h= Head over the crest in mtr.		0.39	0.4
Df= Fetch length in meter			120
Fb =Free board	10	0.23	0.2
Top width Tw=		0.80	0.8
Height of cerst		0.9	0.9
Bottom Width of Head wall Bw		1.52	1.80
Lenth of Head wall extension Left=		2.30	3
Lenth of Head wall extension Right=			3.0
Length of side wall=		2.33	2.65
Bottom Width of Side wall		1.12	1
		0.8	
Length of wing wall		0.90	1

FREE BODY DIAGRAM



Specific Wt. Of masonary P=

Specific Wt. of water w= 1 T/m^3

Cofficient of uplift pressure c= 0.6

cofficient of friction atbed surface and creep length = 0.75

Weight of Dam-:

Weight of Dam-:

W_1= aHP

W_1= T 1.656 T

W_2= $\frac{b-a}{2}$ HP= 1.035 T

W= W_1+W_2= 1.656 + 1.035 = 2.691 T

Water pressure

At Depth h= P_1 = wh = 1 X 0.4 = 0.4 T/m^2

At Depth H+h= P2 = w(H+h) =

1(0.90 + 0.4) = 1.3 T/m^2

Force aching due to water pressure I.e. Net horizontal

Water force P= $\frac{P1+P2}{2}$ H= = 0.765 T/m^2

Horizontal water pressure at depth h =Fa= wHh= = 0.36 T

At depth H+h = Fb= $\frac{P2-P1}{2}$ H = 0.405 T

Force due to water column at crest F3 = wha= = 0.32 T

Up lift pressure U = 1/2 cwb (H+h) = 0.702 T

Preapared By

Recommended By

J.En.

A.En.

STABILITY CHECKS

1 Safety against over turning

Over turning moment Mo = $Fa \frac{H}{2} + Fb \frac{H}{3} + u \frac{2}{3} b$

$0.36 \frac{0.9}{2} + 0.405 \frac{0.9}{3} + 0.7 \frac{2}{3} 1.80$

Mo= 1.126

Restoring Moment Mr = W1 (b-a/2) + W2 (b-a)2/3 + F3 (b-a/2)

Mr=

Mr= 2.318 + 0.690 + 0.448 = 3.46

Factor of safety $\frac{Mr}{Mo}$ $\frac{3.456}{1.126}$ = 3.07 >1.5 Hence

Structure is safe against over turning

2 Safety against Rupture from tension

Net Vertical Pressure V = W1+W2+F3-U

1.656 + 1.035 + 0.32 - 0.702 = 2.309

Position of resultant where it cut the base

X= $\frac{\text{Excess moment(Mr-Mo)}}{\text{Net vertical force}}$ = $\frac{3.456 - 1.126}{2.309}$ = 1.01

TRUE

3 Safety against crusing

Eccentricity e = b/2-X

-0.11

Crusting stress at the toe of theHead wall

Pc= $\frac{V}{b}$ (1+_6e/b)

Pc= 0.81537

Pc<<20 Hence it is safe

4 Safety against sliding

Net vertical Force V= 2.309 T

Restorin force = uV = 0.70 X 2.309 (u=0.65 to 0.75)

1.6163 T

Sliding force Net horizontal force= Fa+Fb

0.36 + 0.405 = 0.765 T

Factor of safety = Restoring force / Sliding force = 1.616 / 0.765 = 2.113 >1.3 Hence

Hence it is safe

Preapared By

Recommended By

J.En.

A.En.

DETAILED ESTIMATE OF WHS

NAME OF WORK **Construction of Water Harvesting structure**

Name of Village **Jelu, binjaria-bawdi**

Name of Scheme **IWMP**

General features of anicut-:

Height of crest=	0.9	M.			
Length of Crest	10	M.			
Depth of foundation for H.W. =	2.0	M.	Length of wing wall=	1.0	M.
Bottom width of H.W. =	1.8	M.	Height of Wing wall=	0.6	M.
Top of H.W =	0.8	M.	Bopttom width of Wing wall=	0.6	M.
Length of H.W.Ext =	3.0	M.	Depth of foundation for Wing wall =	0.9	M.
Height of H.W.Ext. at H.W. =	1.5	M.	Height of Toewall=	0.30	M.
Top Width of H.W.Ext.=	0.6	M.	Top & Bopttom width of Toe wall=	0.30	M.
Bottom width for H.W.Ext.	0.7	M.	Depth of foundation for Toe wall =	0.9	M.
Depth of foundation for H.W.Ext.:	1.2	M.	Thickness of Apron=	0.6	M.
Length of side wall=	2.7	M.	Width of Apron =	1.5	M.
Bottom Width of S.W.	1.00	M.	Berm for H.W Ext.	2.0	M.
Height of side wall at W.W.End=	0.60	M.			
Depth of foundation for side wall	1.2	M.			

S.No.	Item		No	L		B		H	Quantity
1	Dag belling 5cm. To 7.5cm deep(As per item no. page of W.D.& S.C. BSR of Jodhpur circle							Total	
2	Cutting and clearing of ordinary jungle includling bushes shrubs and disposal as per instructrion of engineer incharge			0	X	0.0		=	0 Sqm.

S.No.	Item		No		L		B		H		Quantity	
3	Benching of the base and depositing the execavated material for bund for bund canal dressing etc. all components									Total		Cum.
4	Earth work excavation for bund in hard dry or moist soil including laying in layer of 15cm. Breaking of clods dressing to require profile with manual compaction including intial lift up to 1.5 m and lead up to 30M.									Total		Cum
5	Earth work excavation for foundation in dry or moist soil including ramming of bottom scrapping of sides dipodal of soil intial lift up to 1.5 m and lead up to 30M.											
		H.W.	1	X	10	X	2.1	X	2.0	=	42.00	Cum.
		H.W.Ext Left	1	X	3.0	X	0.7	X	3.2	=	6.24	Cum.
		H.W.Ext Right	1	X	3.0	X	0.7	X	1.2	=	2.34	Cum.
		S.W.	2	X	2.7	X	1.20	X	3.2	=	20.35	Cum.
		W.W.	2	X	1.0	X	0.6	X	0.90	=	1.08	Cum.
		Apron	1	X	10	X	1.5	X	0.60	=	9.00	Cum.
		T.W.	1	X	10	X	0.30	X	0.9	=	2.70	Cum.
										Total	83.71	Cum.
1	Execavation in Hard soil								60%		50.23	Cum.
2	Disintigrated rock								30%		25.11	Cum.
3	Ordinary rock								10%		8.37	Cum.
	Extra Lift of execavcated soil from foundation abiove 1.5 M.						70% of total soil				58.60	Cum

S.No.	Item		No		L		B		H		Quantity	
6	Providing and laying of cement concrete well mixed in cement mortar 1:3:6 laying in position complete excluding curing with maxmium size of aggregate up to 50 mm. etc. complete using											
		H.W.	1	X	10.0	X	2.1	X	0.3	=	6.30	Cum.
		H.W.Ext	1	X	3	X	0.7	X	0.3	=	0.59	Cum.
			1	X	3	X	0.7	X	0.3	=	0.59	Cum.
		S.W.	2	X	2.65	X	0.65	X	0.3	=	1.03	Cum.
		W.W.	2	X	1	X	0.6	X	0.3	=	0.36	Cum.
		Apron	1	X	10.0	X	1.5	X	0.3	=	4.50	Cum.
		T.W.	1	X	10.0	X	0.30	X	0.3	=	0.90	Cum.
										Total	14.26	Cum.
7	I n Foundation Stone masonary cement sand mortar(1:6) for above 30 cm. Thick wall											
		H.W.	1	X	10.0	X	1.8	X	1.7	=	30.60	Cum.
		H.W.Ext	1	X	3.0	X	0.7	X	0.9	=	1.76	Cum.
		H.W.Ext	1	X	3.0	X	0.7	X	0.9	=	1.76	Cum.
		S.W.	2	X	2.7	X	0.65	X	0.9	=	3.10	Cum.
		W.W.	4	X	1.0	X	0.6	X	0.6	=	1.44	Cum.
		T.W.	1	X	10.0	X	0.15	X	0.6	=	0.90	Cum.
										Total	39.55	Cum.
8	In super structure Stone masonary above 30 cm. Thick in cement sand mortar(1:6)											
		H.W.	1	X	10.0	X	1.3	X	0.9	=	11.70	Cum.
		H.W.Ext	1	X	3.0	X	0.63	X	1.5	=	2.81	Cum.
		H.W.Ext	1	X	3.0	X	0.63	X	1.5	=	2.81	Cum.
		S.W.	2	X	2.7	X	0.8	X	1.05	=	4.45	Cum.
		W.W.	2	X	1.0	X	0.6	X	0.6	=	0.72	Cum.
		T.W.	1	X	10.0	X	0.30	X	0.30	=	0.90	Cum.
										Total	23.40	Cum.

S.No.	Item		No		L		B		H		Quantity	
9	Stone Kharanja in cement mortar 1:6 for bed and floor including cpaction etc. complete apron											
		Apron	1	X	10.0	X	1.5	X	0.30		4.50	Cum.
										Total	4.50	Cum.
10	Providing and laying of cement concrete well mixed in cement mortar 1:2:4 laying in position complete excluding curing with maxmium size of aggregate up to 20 mm. etc. complete											
		H.W.	1	X	10.0	X	0.8	X	0.05	=	0.40	Cum.
		H.W.Ext	1	X	3.0	X	0.6	X	0.05	=	0.09	Cum.
			1	X	3.0	X	0.6	X	0.05	=	0.09	Cum.
		S.W.	2	X	2.7	X	0.6	X	0.05	=	0.16	Cum.
		W.W.	2	X	1.0	X	0.6	X	0.05	=	0.06	Cum.
		T.W.	1	X	10.0	X	0.30	X	0.05	=	0.15	Cum.
		Apron	1	X	10.0	X	1.50	X	0.1	=	1.50	Cum.
										Total	2.45	Cum.
11	Flush pointing in cement motar (1:3)											
		H.W.	1	X	10.0	X	1.35			=	13.45	Sqm.
										Total	13.45	Sqm.
12	20 m.m thick plastering on new surface in cement mortar (1:4)											
		H.W.	1	X	10.0	X	0.9			=	9.00	Sqm.
		H.W.Ext.	1	X	3.0	X	1.5			=	4.50	Sqm.
		H.W.Ext.	1	X	3.0	X	1.5			=	4.50	Sqm.
		S.S	2	X	2.7	X	1.5			=	7.95	Sqm.
		W.W.	2	X	1.0	X	0.6			=	1.20	Sqm.
		T.W.	2	X	10.0	X	0.3			=	6.00	Sqm.
									Total	=	33.15	Sqm.
	E/W in excavation for embakement		2	X	18	X	4.25	X	2		306.00	cum
13	Dry stone pitching of Hammer dressed witch packing of voids of small stone including all lifts in require profile (23 cm depth)		10.0		X 10.00		X 0.23				23.00	Cum

Height of crest=	0.9	
Thickness of C.C. in (1:4:8)	0.3	M.
Length of Crest	10	M.
Depth of foundation for H.W. =	2.0	M
Bottom width of H.W. =	1.8	M
Top of H.W =	0.8	M
Length of H.W.Ext =	3.0	M
Height of H.W.Ext. at H.W. =	1.5	M
Top Width of H.W.Ext.=	0.6	M
Bottom width for H.W.Ext.	0.7	M
Depth of foundation for H.W.Ext.=	1.2	M
Length of side wall=	2.7	M
Bottom Width of S.W.	1.0	M
Height of side wall at W.W.End=	0.6	M
Depth of foundation for side wall =	1.2	M
Length of wing wall=	1.0	M
Height of Wing wall=	0.6	M
Bopttom width of Wing wall=	0.6	M
Depth of foundation for Wing wall =	0.9	M
Height of Toewall=	0.30	M
Top & Bopttom width of Toe wall=	0.3	M
Depth of foundation for Toe wall =	0.9	M
Thickness of Apron=	0.6	M
Width of Apron =	1.5	M
Embackment L	18	m

Height of Wing wall=				0.6	M
BW	7	TW	1.5	4.25	m
H				2	m

Height of Wing wall= 0.6 M

Height of Wing wall= 0.6 M

Abstract of Cost of WHS

NAME OF WORK **Construction of Water Harvesting structure**

Name of Village **Jelu, Binjaria -bawdi**

Name of Scheme **IWMP**

S.No.	Item	Quatity	Unit	Lab.rate	L.Amount	Rate	Amount
1	Dag belling 5cm. To 7.5cm deep(As per item no. page of W.D.&	0.00	Cum.			0.38	0
2	Cutting and clearing of ordinary jungle includling bushes shrubs and disposal as per instructrion of	0	Sqm.			0.70	0
3	Benching of the base and depositing the execavated material for bund for bund canal	0	Cum.				0
4	Earth work excavation for bund in hard dry or moist soil including laying in layer of 15cm. Breaking	0	Cum.			92.00	0
5	Earth work excavation for foundation in dry or moist soil including ramming of bottom	83.71	Cum.				0
	Execavation in Hard soil	50.23	Cum.	92.00	4620.9	92.00	4620.9024
	Disintigrated rock	25.11	Cum.	134.00	3365.22	134.00	3365.2224
	Ordinary rock	8.37	Cum.	178.00	1490.07	178.00	1490.0736
6	Extra Lift of execavcated soil from foundation abiove 1.5 M.	58.60	Cum.	10.80	632.863	10.80	632.86272
7	Providing and laying of cement concrete well mixed in cement mortar 1:3:6 laying in position complete excluding curing with	14.26	Cum.	320.1	4565.75	1894.0	27015.069
8	I n Foundation Stone masonary cement sand mortar(1:6) for	39.55	Cum.	419.8	16603.3	1503.00	59444.402
9	In super structure Stone masonary above 30 cm. Thick in cement sand mortar(1:6)	23.40	Cum.	554.8	12980.7	1641.00	38394.477

10	Stone Kharanja in cement mortar 1:6 for bed and floor including cpaction etc. complete apron	4.50	Cum.	419.8	1889.1	1503.0	6763.5
11	Providing and laying of cement concrete well mixed in cement mortar 1:2:4 laying in position complete excluding curing with	2.45	Cum.	247.1	605.148	2324.0	5691.476
12	Flush pointing in cement motar (1:	13.45	Sqm.	39.8	535.454	48.00	645.77395
13	20 m.m thick plastering on new surface in cement mortar (1:4)	33.15	Sqm.	25.7	851.955	133.00	4408.95
14	E/W forEmbakment	306.00	Cum.	85	26010	85.00	26010
15	Dry stone pitching of Hammer dressed witch packing of voids of small stone including all lifts in require profile (23 cm depth)	23.00	Cum.	174.8		590.00	13570
					74150.4	Total	192052.71

TOTAL	192053
Contingency %	7682
Say total Cost	199735
	200000.00

Prepared By

J.En.

Recommonded By

A.En.

Material Statement

NAME OF WORK Construction of Water Harvesting structure

Name of Village

Name of Scheme IWMP

S.No.	ITEM	Quantity Cum / Sqm	Cement Begs	Sand Cum	Aggrigate Cum	Stone Cum
1	Cement Concrete (1:4:8)	14.26	45.64	6.42	12.84	–
2	Plaster in C.C. (1:4)	33.15	5.62	0.80	–	–
3	Massonary in Cement sand mortar 1:6	62.95	88.13	18.88	–	62.95
4	Pointing in Cement	13.45	0.55	0.06	–	–
5	Stone Kharanja in cement mortar (1:6)	4.50	6.3	1.35	–	4.5
6	Cement concrete coping(1:2:4)	2.45	14.30	1.00	2.01	
7	Dry Stone Pitching	23.00	–	–	–	23.00
		TOTAL	160.55	28.51	14.85	90.45
		Say Bags or	161 8.05	MT.		

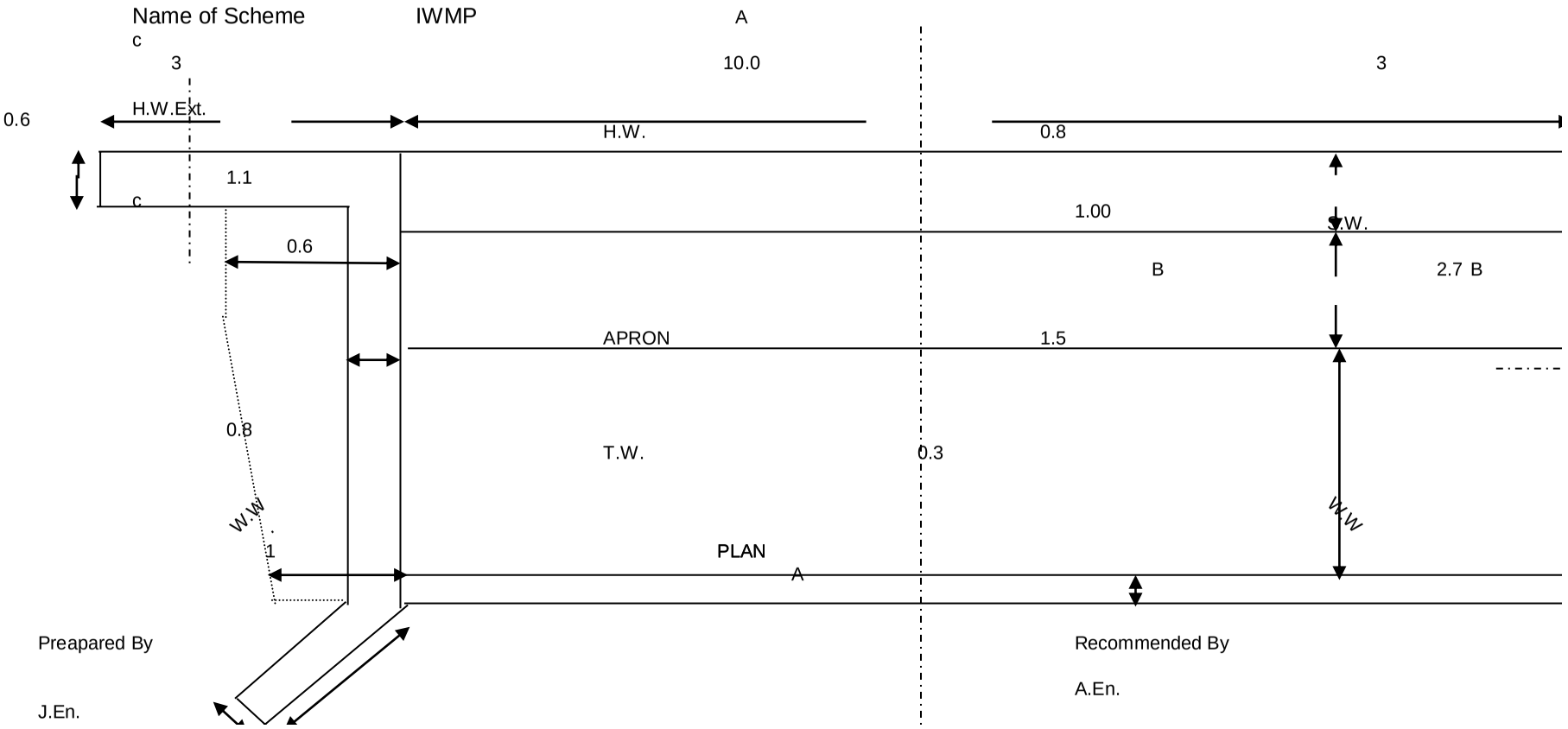
1	Cement	8.05	MT.
2	Sand	28.51	Cum.
3	Stones	90.45	Cum.
4	Aggregates	14.85	Cum.

Prepared By Recommonded By

J.En. A.En.

TYPICAL PLAN AND SECTION OF WHS

NAME OF WORK Construction of Water Harvesting structure
Name of Village Jelu, binjaria-bawdi
Name of Scheme IWMP

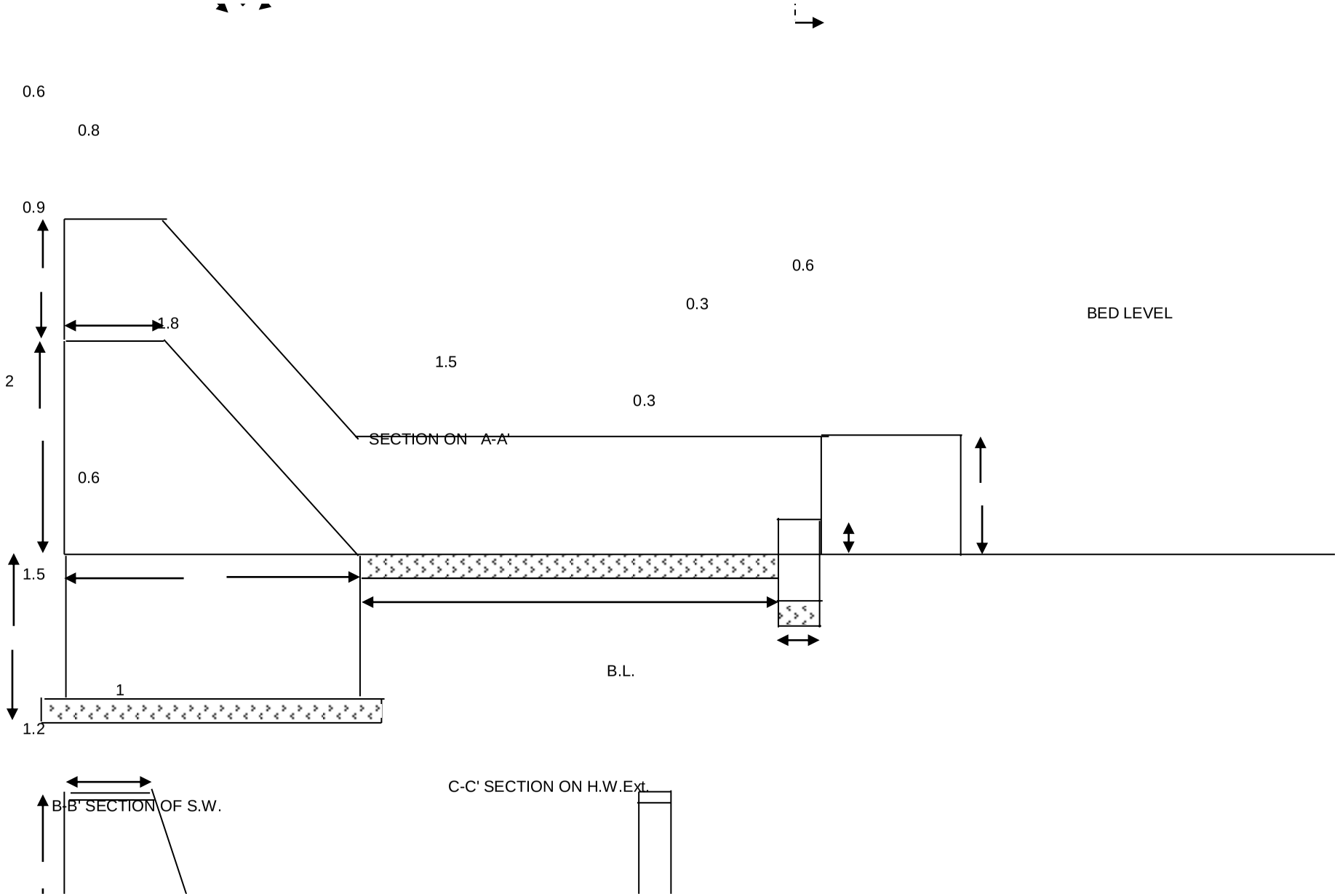


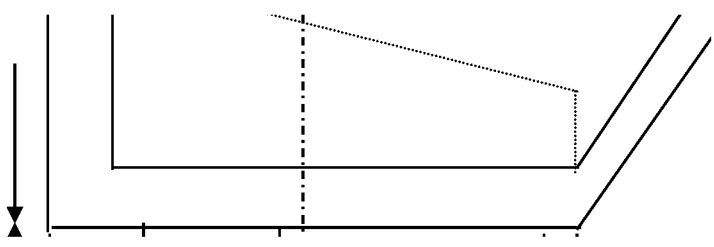
Preapared By

J.En.

Recommended By

A.En.


0.6
0.8
0.9
1.8
2
0.6
1.5
1.2
1
0.6
0.3
1.5
0.3
BED LEVEL
SECTION ON A-A'
B.L.
B-B' SECTION OF S.W.
C-C' SECTION ON H.W.Ext.



TECHNICAL REPORT

NAME OF WORK Construction of Water Harvesting structure
Panchayat Jelu Gagadi
District Jodhpur
Name of Scheme IWMP
Name of Village Jelu ,Binjaria Bawdi
Panchayat Samiti Osian

This project is taken in IWMP Scheme.The proposed anicut will not only reduce velocity of the runoff but also prevent the gullies from furthure soil erosion at the same time it will be very much fruitful in recharging of downstream wells as well as it will increase the moisture content of the soil . So an it improve its productivity the retain water behind the structure can also be used for irrigation , and driniking water for anmimals . The cross section and L-section have been surveyed by dumpy level and catchment area has been taken from G.T. sheet / Revenue map.

Basic Data of Project

		=		
1	Catch ment Area	=	200	Ha.
2	Maxmium Rain fall intencity	=	3	Cm./hr.
3	General nature of catchment Area			
a.	Agricultural land	=	120	Ha.
b.	Nonarable land Land	=	80	Ha.
4	Height of crest above G.L.	=	1.2	M.
5	Flood lift	=	0.4	M.
6	Free board	=	0.2	M.
7	Top width of Head wall	=	0.8	M.
8	Bottom width of Head wall	=	2.40	M.
9	Width of concrete Bed	=	2.70	M.
10	Length of crest	=	16	M.
11	Percentage slope of land	=	8.00	
12	No. of well benifited	=	12	
13	No of farmer benifited	=		
a.	S.C.	=	25	
b.	S.T.	=	0	
c.	Others	=	45	
	Total	=	70	

14	Area to be benifited	=	
a.	S.C.	=	
b.	S.T.	=	25
c.	Others	=	0
	Total	=	125
15		=	
a.	a)Raito of concrete at bed	=	
	(Cement : Sand :Aggregate)(1:4:8)	=	
b.	b) Raito of Masonary fondation & Super structure	=	
	Cement Mortar(1:6)	=	
c.	c) Raito of plastering and flush pointing of 25 mm.	=	
	Cement Mortar(1:6)	=	
d	Raito of Kharanja in cement mortar	=	
16	Cost of Project	=	400000.00
a.	Labour component	=	142463
b.	Material component	=	242191
c.	Contingency	=	15347

Rates are as per GKN 2011 Jodhpur wef 1.1.2011

The Estimate are here with submitted for technical approvel an necessary action

Preapared By Recommended By

J.En. A.En.

Name of work Construction of WHS

Catch ment Area	200	Ha.
Maxmium Rain fall intencity	3	Cm/hr
General nature of catchment Area		
Agricultural land	120	
Non arable land Land	80	
Height of crest above G.L.	1.2	
Length of crest	16	
Percentage slope of land	8.00	
No. of well benifited	12	
No of farmer benifited	70	
S.C.	25	
S.T.		
Others	45	
Total	70	
Area to be benifited		
S.C.	25	
S.T.	0	
Others	125	
Total	150	

GKN 2011 Jodhpur

Desgin calculation of WHS

A

Name of work-: Construction of WHS

I Available crest length 16 M

ii Total catchment Area 200 Ha. As per G.T.Sheet

iii Peak Runoff Rate

a) By Rational Method Use when catchment is <1300Ha.

Q_p = 0.0276 CIA Q=Run off in m3/sec.

C= Coefficient of runoff 0.5

K = $L^{3/2}/H^{1/2}$ I= Intensity of rain fall in cm/hr. 3

K = 3535.5 A= Catchment Area in Ha. 200

Tc = $0.0195K^{0.77}$ L=Maxmium length of travel by runoff water in m. 1000

Tc = 10.53 H= Difference in elevation between most remote point and and outlet point in meter 80

$Q_{p=}$ 0.0276 0.50 X 3 X 200

Q_p = 8.28

b) By weir formula

Q = $1.71Lh^{3/2}$

8.28 = 1.71 16 $h^{3/2}$

h 0.45

Say h= 0.4

3 Free Board hw= Wave height in meter

F_b= $1.5h_w$ Df= Fetch length in meter 120 Meter.

$1.5X0.014(D_f)^{1/2}$

F_b= 0.23

Say Fb= 0.2

(B) STRUCTURAL DESGIN

1 Head wall

a) Height of Head wall H= 1.2

b) Top width(Tw) = $\frac{h}{(P-1)^{1/2}}$ P= Sp.ht. Of masonary 2.3

Tw= 0.35

Top width= 0.8

© Bottom width Bw $\overline{Tw+0.8H}$

Bw= 1.76

So Bottom Width= 2.40 Meter

2 Head wall extension

a) Length= H+h+1+Fb

1.2 + 0.4 + 1 + = 2.60 Meter

say Length of Right side wall = 5 Meter

say Length of left side wall = 8.0 Meter

b) Height of Head Extensionwall = H+h+Fb

1.2 + 0.4 + 0.2 = 1.8 Meter

c) Top width 0.6 Meter

d) Bottom Width= 0.5(H+h) = 0.5(1.2 + 0.4)= 0.80 Meter

3 Side wall

a) Length= 1.75H+0.75h+0.45 = 2.85

But as per site condition= 2.7 Meter

b) Height:

At H.W.End= H+h+Fb 1.2 + 0.4 + 0.2 = 1.8 Meter

At W.W.End= h+fb = 0.4 + 0.2 = 0.6 Meter

c) Top width= 0.6 Meter

d) Bottom width=

At H.W.End= 0.6+0.4(H+h) 1.2 Meter

At W.W.End= 0.6+0.4(1.5h) 0.8 Meter

But taken as= 1.0 Meter

4 Wing wall

a) Height h+Fb 0.4 + 0.2 = 0.6 Meter

b) Length= 2.25h 2.25 X 0.4 = 0.90 Meter Say 2.00 M

c) Top width 0.6 Meter

Bottom width of wing wall 0.6 Meter

5 Apron

a) Length= 16 Meter

b) Width= H+h+Fb 1.2 + 0.4 + 0.2 1.8 Meter

c) Thickness 0.6 Meter

6 Toe wall

a) Length= 16 Meter

b) Width= 0.3 Meter

c) Height= 0.3 Meter

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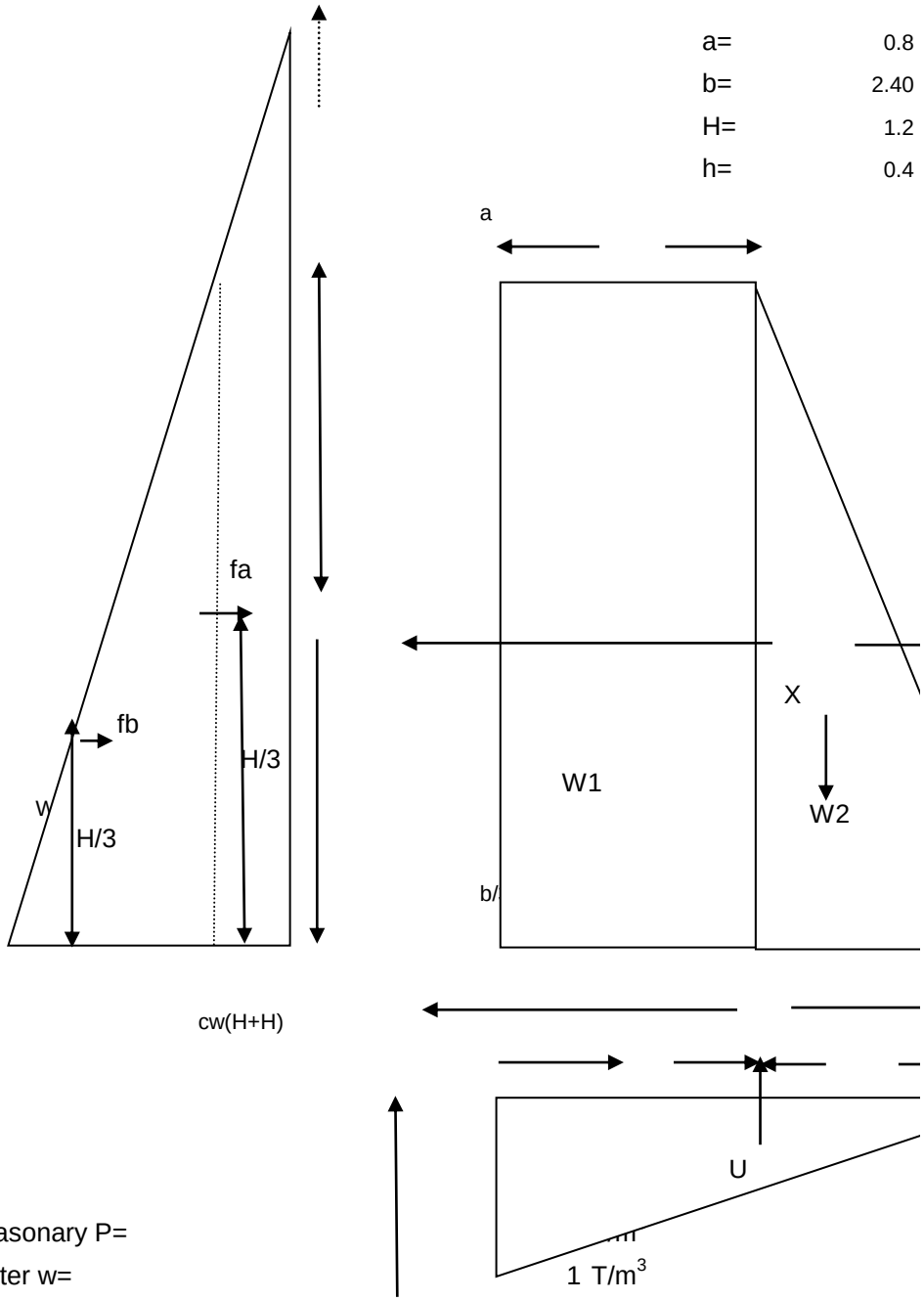
J.En. A.En.

C= Coefficient of runoff		0.5
I= Intensity of rain fall in cm/hr.		3
A= Catchment Area in Ha.		200
L=Maxmium length of travel by runoff water in m.		1000
H= Difference in elevation between most remote point and and outlet point in meter		80
h= Head over the crest in mtr.	0.45	0.4
Df= Fetch length in meter		120
Fb =Free board	0.23	0.2
Top width Tw=	0.80	0.8
Height of cerst	1.2	1.2
Bottom Width of Head wall Bw	1.76	2.40
Lenth of Head wall extension Left=	2.60	5
Lenth of Head wall extension Right=		8.0
Length of side wall=	2.85	2.65
Bottom Width of Side wall	1.24	1
	0.8	
Length of wing wall	0.90	2

FREE BODY DIAGRAM



Specific Wt. Of masonary P=

Specific Wt. of water w= 1 T/m^3

Cofficient of uplift pressure c= 0.6

cofficient of friction atbed surface and creep length = 0.75

Weight of Dam-:

Weight of Dam-:

W_1= aHP

W_1= T 2.208 T

W_2= $\frac{b-a}{2}$ HP= 2.208 T

W= W_1+W_2= 2.208 + 2.208 = 4.416 T

Water pressure

At Depth h= P_1 = wh = 1 X 0.4 = 0.4 T/m^2

At Depth H+h= P2 = w(H+h) =

1(1.20 + 0.4) = 1.6 T/m^2

Force aching due to water pressure I.e. Net horizontal

Water force P= $\frac{P1+P2}{2}$ H= = 1.2 T/m^2

Horizontal water pressure at depth h =Fa= wHh= = 0.48 T

At depth H+h = Fb= $\frac{P2-P1}{2}$ H = 0.72 T

Force due to water column at crest F3 = wha= = 0.32 T

Up lift pressure U = 1/2 cwb (H+h) = 1.152 T

Preapared By Recommended By

J.En. A.En.

STABILITY CHECKS

1 Safety against over turning

Over turning moment Mo = $Fa \frac{H}{2} + Fb \frac{H}{3} + u \frac{2}{3} b$

$0.48 \frac{1.2}{2} + 0.720 \frac{1.2}{3} + 1.15 \frac{2}{3} 2.40$

Mo= 2.419

Restoring Moment Mr = W1 (b-a/2) + W2 (b-a)2/3 + F3 (b-a/2)

Mr=

Mr= 4.416 + 2.355 + 0.640 = 7.41

Factor of safety $\frac{Mr}{Mo}$ $\frac{7.411}{2.419}$ = 3.063 >1.5 Hence

Structure is safe against over turning

2 Safety against Rupture from tension

Net Vertical Pressure V = W1+W2+F3-U

2.208 + 2.208 + 0.32 - 1.152 = 3.584

Position of resultant where it cut the base

X= $\frac{\text{Excess moment(Mr-Mo)}}{\text{Net vertical force}}$ = $\frac{7.411 - 2.419}{3.584}$ = 1.39

TRUE

3 Safety against crusing

Eccentricity e = b/2-X

-0.19

Crusting stress at the toe of theHead wall

Pc= $\frac{V}{b}$ (1+_6e/b)

Pc= 0.773333

Pc<<20 Hence it is safe

4 Safety against sliding

Net vertical Force V= 3.584 T

Restorin force = uV = 0.70 X 3.584 (u=0.65 to 0.75)

2.5088 T

Sliding force Net horizontal force= Fa+Fb

0.48 + 0.72 = 1.2 T

Factor of safety = Restoring force / Sliding force = 2.509 / 1.2 = 2.091 >1.3 Hence

Hence it is safe

Preapared By

Recommended By

J.En.

A.En.

DETAILED ESTIMATE OF WHS

NAME OF WATERSHED: JELU-GAGADI (JODHPUR XIV)

NAME OF WORK **Construction of Water Harvesting structure**

Name of Village

Name of Scheme **IWMP**

General features of anicut-:

Height of crest=	1.2	M.			
Length of Crest	16	M.			
Depth of foundation for H.W. =	2.0	M.	Length of wing wall=	2.0	M.
Bottom width of H.W. =	2.4	M.	Height of Wing wall=	0.6	M.
Top of H.W =	0.8	M.	Bopttom width of Wing wall=	0.6	M.
Length of H.W.Ext =	5.0	M.	Depth of foundation for Wing wall =	0.9	M.
Height of H.W.Ext. at H.W. =	1.8	M.	Height of Toewall=	0.30	M.
Top Width of H.W.Ext.=	0.6	M.	Top & Bopttom width of Toe wall=	0.30	M.
Bottom width for H.W.Ext.	0.8	M.	Depth of foundation for Toe wall =	0.9	M.
Depth of foundation for H.W.Ext.:	1.2	M.	Thickness of Apron=	0.6	M.
Length of side wall=	2.7	M.	Width of Apron =	1.8	M.
Bottom Width of S.W.	1.00	M.	Berm for H.W Ext.	2.0	M.
Height of side wall at W.W.End=	0.60	M.			
Depth of foundation for side wall	1.2	M.			

S.No.	Item		No	L		B		H	Quantity
1	Dag belling 5cm. To 7.5cm deep(As per item no. page of W.D.& S.C. BSR of Jodhpur circle							Total	
2	Cutting and clearing of ordinary jungle includling bushes shrubs and disposal as per instructrion of engineer incharge			0	X	0.0		=	0 Sqm.

S.No.	Item		No		L		B		H		Quantity	
3	Benching of the base and depositing the execavated material for bund for bund canal dressing etc. all components									Total		Cum.
4	Earth work excavation for bund in hard dry or moist soil including laying in layer of 15cm. Breaking of clods dressing to require profile with manual compaction including intial lift up to 1.5 m and lead up to 30M.									Total		Cum
5	Earth work excavation for foundation in dry or moist soil including ramming of bottom scrapping of sides dipodal of soil intial lift up to 1.5 m and lead up to 30M.											
		H.W.	1	X	16	X	2.7	X	2.0	=	86.40	Cum.
		H.W.Ext Left	1	X	5.0	X	0.8	X	3.2	=	12.80	Cum.
		H.W.Ext Right	1	X	8.0	X	0.8	X	1.2	=	7.68	Cum.
		S.W.	2	X	2.7	X	1.20	X	3.2	=	20.35	Cum.
		W.W.	2	X	2.0	X	0.6	X	0.90	=	2.16	Cum.
		Apron	1	X	16	X	1.8	X	0.60	=	17.28	Cum.
		T.W.	1	X	16	X	0.30	X	0.9	=	4.32	Cum.
										Total	150.99	Cum.
1	Execavation in Hard soil								30%		45.30	Cum.
2	Execavation in ordinary murram								40%		45.30	Cum.
3	Execavation in compacted murram								30%		60.40	Cum.
	Extra Lift of execavcated soil from foundation abiove 1.5 M.						70% of total soil				105.69	Cum

S.No.	Item		No		L		B		H		Quantity	
6	Providing and laying of cement concrete well mixed in cement mortar 1:3:6 laying in position complete excluding curing with maxmium size of aggregate up to 50 mm. etc. complete using											
		H.W.	1	X	16.0	X	2.7	X	0.3	=	12.96	Cum.
		H.W.Ext	1	X	5	X	0.8	X	0.3	=	1.20	Cum.
			1	X	8	X	0.8	X	0.3	=	1.92	Cum.
		S.W.	2	X	2.65	X	0.80	X	0.3	=	1.27	Cum.
		W.W.	2	X	2	X	0.6	X	0.3	=	0.72	Cum.
		Apron	1	X	16.0	X	1.8	X	0.3	=	8.64	Cum.
		T.W.	1	X	16.0	X	0.30	X	0.3	=	1.44	Cum.
										Total	28.15	Cum.
7	I n Foundation Stone masonary cement sand mortar(1:6) for above 30 cm. Thick wall											
		H.W.	1	X	16.0	X	2.4	X	1.7	=	65.28	Cum.
		H.W.Ext	1	X	5.0	X	0.8	X	0.9	=	3.60	Cum.
		H.W.Ext	1	X	8.0	X	0.8	X	0.9	=	5.76	Cum.
		S.W.	2	X	2.7	X	0.80	X	0.9	=	3.82	Cum.
		W.W.	4	X	2.0	X	0.6	X	0.6	=	2.88	Cum.
		T.W.	1	X	16.0	X	0.15	X	0.6	=	1.44	Cum.
										Total	82.78	Cum.
8	In super structure Stone masonary above 30 cm. Thick in cement sand mortar(1:6)											
		H.W.	1	X	16.0	X	1.6	X	1.2	=	30.72	Cum.
		H.W.Ext	1	X	5.0	X	0.7	X	1.8	=	6.30	Cum.
		H.W.Ext	1	X	8.0	X	0.7	X	1.8	=	10.08	Cum.
		S.W.	2	X	2.7	X	0.8	X	1.20	=	5.09	Cum.
		W.W.	2	X	2.0	X	0.6	X	0.6	=	1.44	Cum.
		T.W.	1	X	16.0	X	0.30	X	0.30	=	1.44	Cum.
										Total	55.07	Cum.

S.No.	Item		No		L		B		H		Quantity	
9	Stone Kharanja in cement mortar 1:6 for bed and floor including cpaction etc. complete apron											
		Apron	1	X	16.0	X	1.8	X	0.30		8.64	Cum.
										Total	8.64	Cum.
10	Providing and laying of cement concrete well mixed in cement mortar 1:2:4 laying in position complete excluding curing with maxmium size of aggregate up to 20 mm. etc. complete											
		H.W.	1	X	16.0	X	0.8	X	0.05	=	0.64	Cum.
		H.W.Ext	1	X	5.0	X	0.6	X	0.05	=	0.15	Cum.
			1	X	8.0	X	0.6	X	0.05	=	0.24	Cum.
		S.W.	2	X	2.7	X	0.6	X	0.05	=	0.16	Cum.
		W.W.	2	X	2.0	X	0.6	X	0.05	=	0.12	Cum.
		T.W.	1	X	16.0	X	0.30	X	0.05	=	0.24	Cum.
		Apron	1	X	16.0	X	1.80	X	0.1	=	2.88	Cum.
										Total	4.43	Cum.
11	Flush pointing in cement motar (1:3)											
		H.W.	1	X	16.0	X	2			=	32.00	Sqm.
										Total	32.00	Sqm.
12	20 m.m thick plastering on new surface in cement mortar (1:4)											
		H.W.	1	X	16.0	X	1.2			=	19.20	Sqm.
		H.W.Ext.	1	X	5.0	X	1.8			=	9.00	Sqm.
		H.W.Ext.	1	X	8.0	X	1.8			=	14.40	Sqm.
		S.S	2	X	2.7	X	1.8			=	9.54	Sqm.
		W.W.	2	X	2.0	X	0.6			=	2.40	Sqm.
		T.W.	2	X	16.0	X	0.3			=	9.60	Sqm.
									Total	=	64.14	Sqm.
	E/W in excavation for embakement		2	X	21	X	5	X	2.15		451.50	cum
13	Dry stone pitching of Hammer dressed witch packing of voids of small stone including all lifts in require profile (23 cm depth)			16.0		X	10.00	X	0.23		36.80	Cum

Height of crest=	1.2	
Thickness of C.C. in (1:4:8)	0.3	M.
Length of Crest	16	M.
Depth of foundation for H.W. =	2.0	M
Bottom width of H.W. =	2.4	M
Top of H.W =	0.8	M
Length of H.W.Ext =	5.0	M
Height of H.W.Ext. at H.W. =	1.8	M
Top Width of H.W.Ext.=	0.6	M
Bottom width for H.W.Ext.	0.8	M
Depth of foundation for H.W.Ext.=	1.2	M
Length of side wall=	2.7	M
Bottom Width of S.W.	1.0	M
Height of side wall at W.W.End=	0.6	M
Depth of foundation for side wall =	1.2	M
Length of wing wall=	2.0	M
Height of Wing wall=	0.6	M
Bopttom width of Wing wall=	0.6	M
Depth of foundation for Wing wall =	0.9	M
Height of Toewall=	0.30	M
Top & Bopttom width of Toe wall=	0.3	M
Depth of foundation for Toe wall =	0.9	M
Thickness of Apron=	0.6	M
Width of Apron =	1.8	M
Embackment L	21	m

Height of Wing wall=				0.6	M
BW	8	TW	2	5	m
H				2.15	m

Height of Wing wall= 0.6 M

Height of Wing wall= 0.6 M

Abstract of Cost of Anicut

NAME OF WORK **Construction of Water Harvesting structure**

Name of Village **0**

Name of Scheme **IWMP**

S.No.	Item	Quatity	Unit	Lab.rate	L.Amount	Rate	Amount
1	Dag belling 5cm. To 7.5cm deep(As per item no. page of W.D.&	0.00	Cum.			0.38	0
2	Cutting and clearing of ordinary jungle includling bushes shrubs and disposal as per instructrion of	0	Sqm.			0.70	0
3	Benching of the base and depositing the execavated material for bund for bund canal	0	Cum.				0
4	Earth work excavation for bund in hard dry or moist soil including laying in layer of 15cm. Breaking	0	Cum.			92.00	0
5	Earth work excavation for foundation in dry or moist soil including ramming of bottom	150.99	Cum.				0
	Execavation in Hard soil	45.30	Cum.	92.00	4167.38	92.00	4167.3792
	Disintigrated rock	45.30	Cum.	134.00	6069.88	134.00	6069.8784
	Ordinary rock	60.40	Cum.	178.00	10750.6	178.00	10750.63
6	Extra Lift of execavcated soil from foundation abiove 1.5 M.	105.69	Cum.	10.80	1141.5	10.80	1141.4995
7	Providing and laying of cement concrete well mixed in cement mortar 1:3:6 laying in position complete excluding curing with	28.15	Cum.	320.1	9011.46	1894.0	53319.888
8	I n Foundation Stone masonary cement sand mortar(1:6) for	82.78	Cum.	419.8	34749.4	1503.00	124412.33
9	In super structure Stone masonary above 30 cm. Thick in cement sand mortar(1:6)	55.07	Cum.	554.8	30551.7	1641.00	90366.588

10	Stone Kharanja in cement mortar 1:6 for bed and floor including cpaction etc. complete apron	8.64	Cum.	419.8	3627.07	1503.0	12985.92
11	Providing and laying of cement concrete well mixed in cement mortar 1:2:4 laying in position complete excluding curing with	4.43	Cum.	247.1	1094.41	2324.0	10292.996
12	Flush pointing in cement motar (1:	32.00	Sqm.	39.8	1273.6	48.00	1536
13	20 m.m thick plastering on new surface in cement mortar (1:4)	64.14	Sqm.	25.7	1648.4	133.00	8530.62
14	E/W forEmbakment	451.50	Cum.	85	38377.5	85.00	38377.5
15	Dry stone pitching of Hammer dressed witch packing of voids of small stone including all lifts in require profile (23 cm depth)	36.80	Cum.	174.8		590.00	21712
					142463	Total	383663.23

TOTAL	383663
Contingency %	15347
Say total Cost	399010
	400000.00

Prepared By

J.En.

Recommonded By

A.En.

Material Statement

NAME OF WORK — Construction of Water Harvesting structure

Name of Village — Jelu, Binjaria -bawdi

Name of Scheme — IWMP

S.No.	ITEM	Quantity Cum / Sqm	Cement Begs	Sand Cum	Aggrigate Cum	Stone Cum
1	Cement Concrete (1:4:8)	28.15	90.09	12.67	25.34	–
2	Plaster in C.C. (1:4)	64.14	10.88	1.54	–	–
3	Massonary in Cement sand mortar 1:6	137.84	192.98	41.35	–	137.84
4	Pointing in Cement	32.00	1.32	0.13	–	–
5	Stone Kharanja in cement mortar (1:6)	8.64	12.096	2.592	–	8.64
6	Cement concrete coping(1:2:4)	4.43	25.87	1.82	3.63	
7	Dry Stone Pitching	36.80	–	–	–	36.80
		TOTAL	333.23	60.10	28.97	183.28
		Say Bags or	334 16.70	MT.		

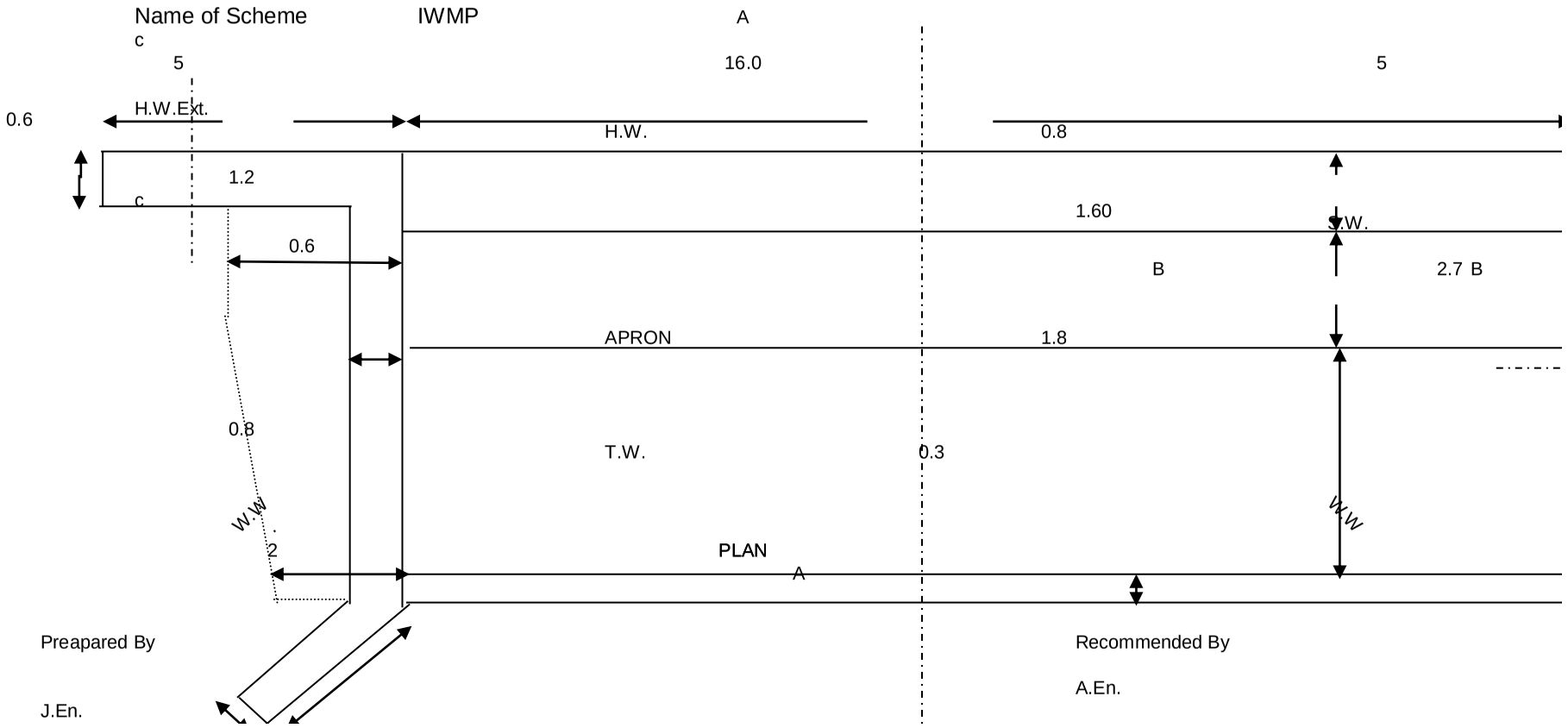
1	Cement	16.7	MT.
2	Sand	60.10	Cum.
3	Stones	183.28	Cum.
4	Aggregates	28.97	Cum.

Prepared By — Recommonded By

J.En. — A.En.

TYPICAL PLAN AND SECTION OF ANICUT

NAME OF WORK Construction of Water Harvesting structure
Name of Village Jelu ,Binjaria Bawdi
Name of Scheme IWMP

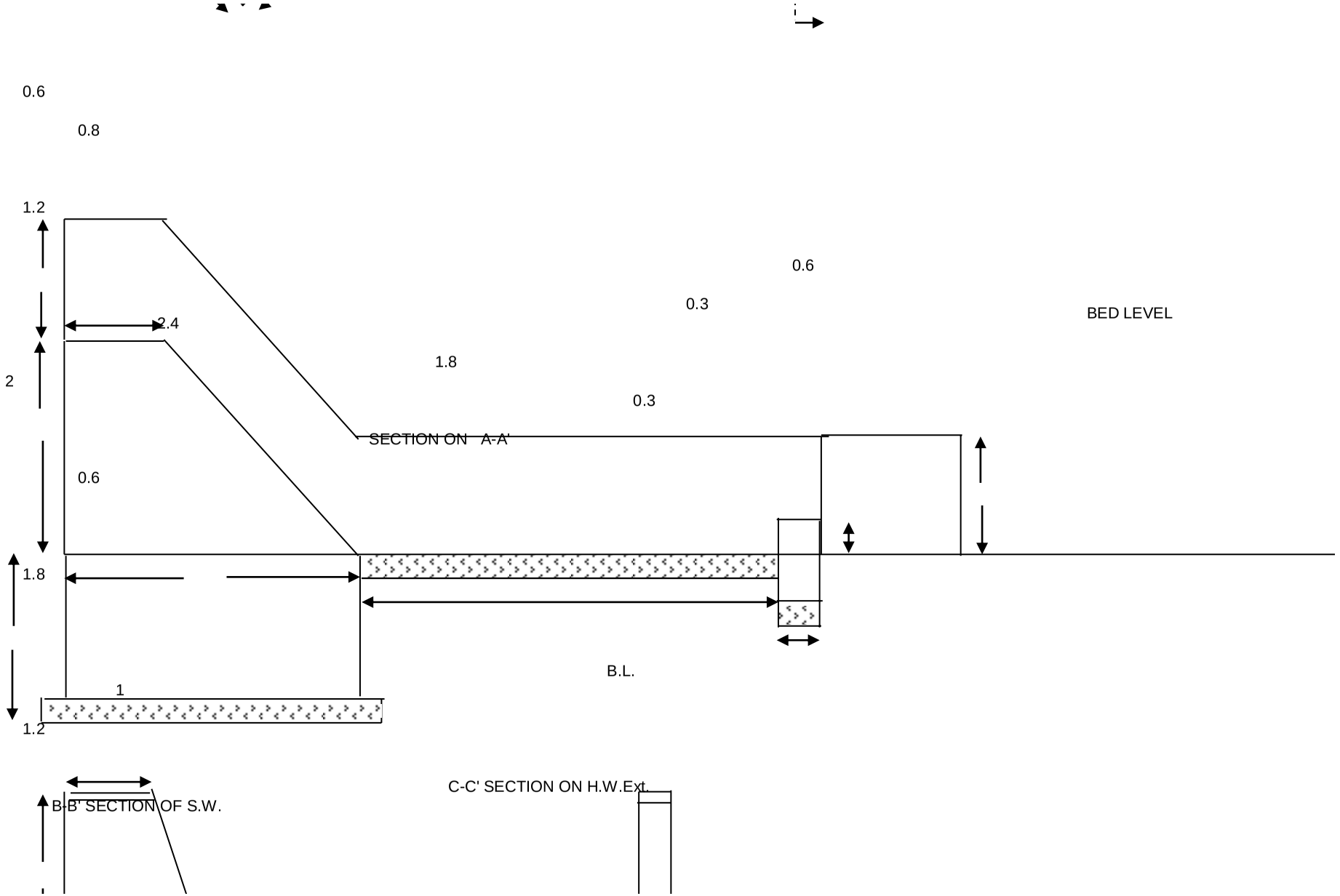


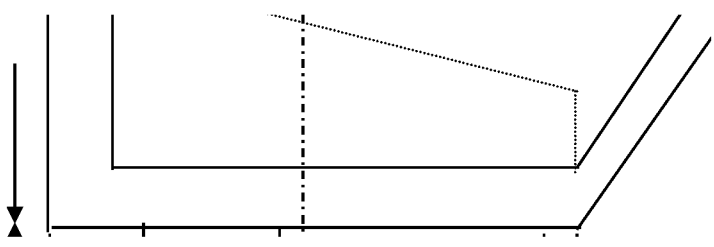
Preapared By

J.En.

Recommended By

A.En.


0.6
0.8
1.2
2.4
2
0.6
1.8
1
1.2
0.6
0.3
BED LEVEL
1.8
0.3
SECTION ON A-A'
B.L.
B-B' SECTION OF S.W.
C-C' SECTION ON H.W.Ext.



DESIGN OF BUND IN ARABLE LAND TYPE-I

Name of Water Shed : Jelu-Gagadi (Jodhpur XIV) IWMP Name of P.S. Osian

$$V.I = 0.305\ (XS+Y)$$

$$V.I = 0.305(\ 0.8 \times\ 1+\ 1.0)$$

V.I = 0.549

V.I	Vertical interval	
X=	Rain Fall Factor	0.8
Y=	Factor due to soil infiltration & Crop cover	1
S=	Percent slope	1

$$He = \frac{(Rex\ VI)^{1/2}}{(50)^{1/2}}$$

He= 0.549 Say 0.50 Cm.

He	Depth of impounding	
Re	24Hour rainfall excess in Cms. for 10 year recurrence interval	45.62
V.I	Vertical interval	0.549

Total Height of Bund= 0.50 + 0.30 = 0.80 Cms
Top width of Bund = 0.35 Cms.
Bottom width of Bund = 2.75

$$\text{Cross section of bund} = \frac{(\text{Top width of Bund} + \text{Bottom width of Bund})}{2} \times \text{Height}$$

$$\text{X Section} = \frac{(\ 0.35+ 2.75)}{2} \times .8$$

X Section= 1.24 Sqmt.

DESIGN OF EARTHEN BUND TYPE-II

Name of Water Shed : Jelu-Gagadi (Jodhpur XIV) IWMP Name of P.S. Osian

V.I = 0.305 (XS+Y)

0.305(0.8 x 2+ 1.0)

V.I = 0.793

V.I	Vertical interval	
X=	Rain Fall Factor	0.8
Y=	Factor due to soil infiltration & Crop cover	1
S=	Percent slope	2

$$He = \frac{(Rex\ VI)^{1/2}}{(50)^{1/2}}$$

He= 0.723 Say 0.75 Cm.

He	Depth of impounding	
Re	24Hour rainfall excess in Cms. for 10 year recurrence interval	45.62
V.I	Vertical interval	1.037

Total Height of Bund= 0.75 + 0.45 = 1.20 Cms
Top width of Bund = 0.6 Cms.
Bottom width of Bund = 4.20

Cross section of bund = $\frac{(\text{Top width of Bund} + \text{Bottom width of Bund}) \times \text{Height}}{2}$

X Section= $\frac{(0.6 + 4.20) \times 1.20}{2}$

X Section= 2.88 Sqmt.

DESIGN OF EARTHEN BUND TYPE -III

Name of Water Shed : Jodhpur XIV (IWMP) Name of Block: Osian

V.I = 0.305 (XS+Y)

0.305(0.8 x 3+ 1.)

V.I = .946

V.I	Vertical interval	
X=	Rain Fall Factor	0.8
Y=	Factor due to soil infiltration & Crop cover	1
S=	Percent slope	3

$$He = \frac{(Rex\ VI)^{1/2}}{(50)^{1/2}}$$

He= .946 Say 0.95Cm.

He	Depth of impounding	
Re	24Hour rainfall excess in Cms. for 10 year recurrence interval	45.62
V.I	Vertical interval	0.95

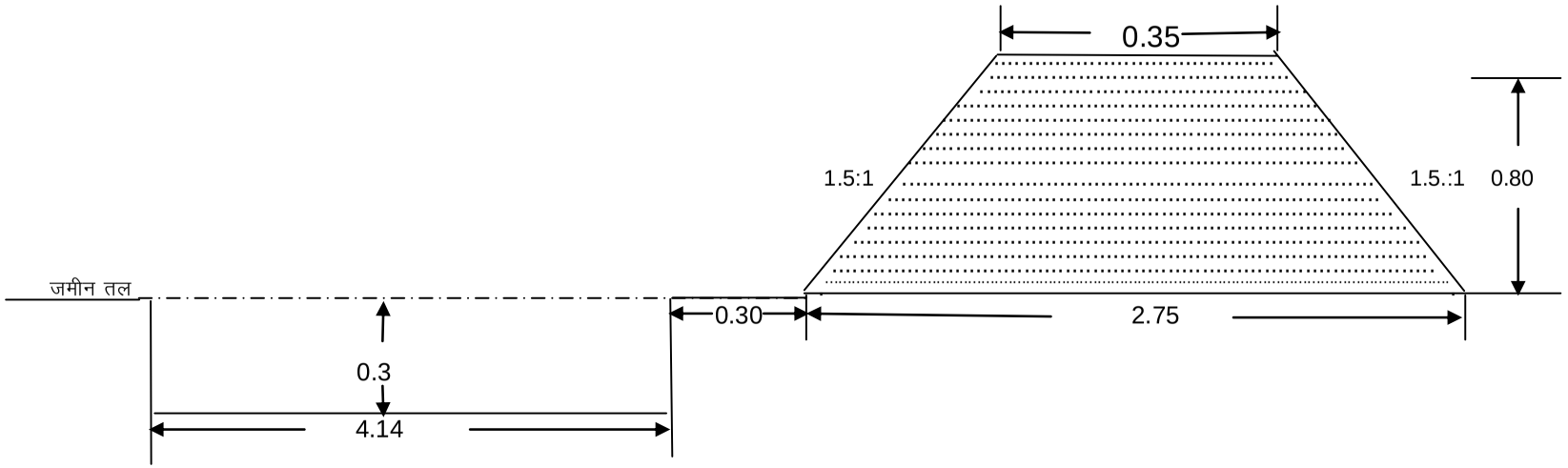
Total Height of Bund= 0.95 + 0.55 = 1.50 ms
Top width of Bund = 0.75 ms.
Bottom width of Bund = 5.25

Cross section of bund = (Top width of Bund +Bottom width of Bund) x Height/ 2 X Section= (0.75+ 5.25)x 1.50

2

X Section= 4.50 sqmt. Say 4.50 sqmt.

CROSS SECTION OF EARTHAN BUND TYPE I

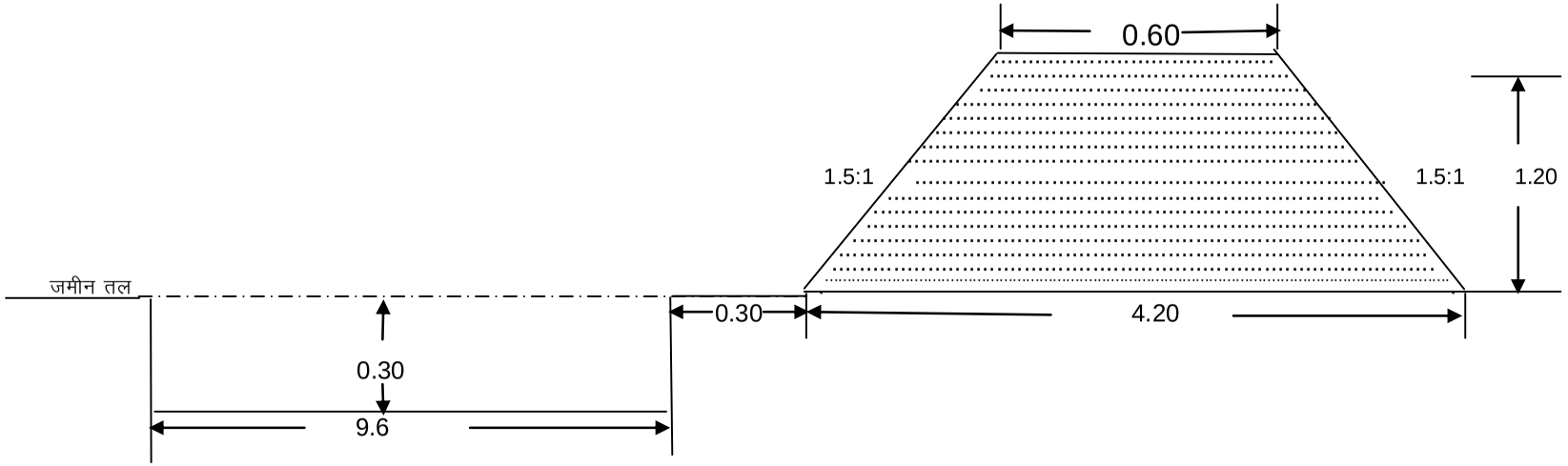


(All Measurement in Meter)

Cross Sec.= $\frac{((2.75+0.35))x0.80}{2}$

= 1.24 Sqm

CROSS SECTION OF EARTHAN BUND TYPE - II

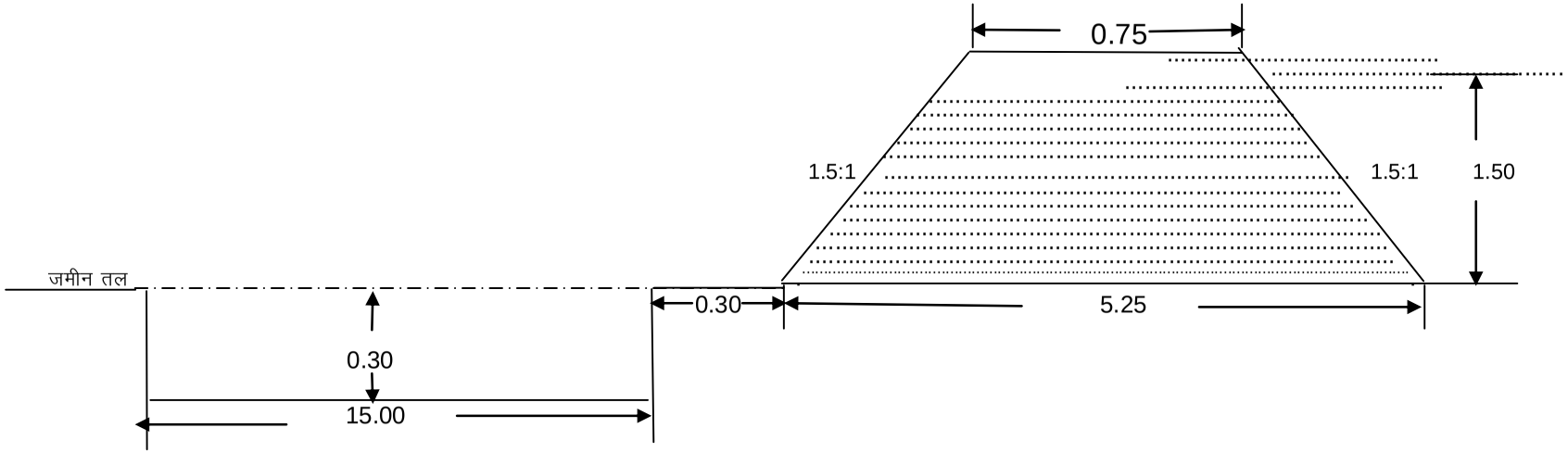


All Measurement in Meter)

Cross Sec.= $\frac{((4.20+0.60))}{2}$x1.20= 2.88 Say 2.88 sqmt.

Cross Sec.= 2.88 sqmt.

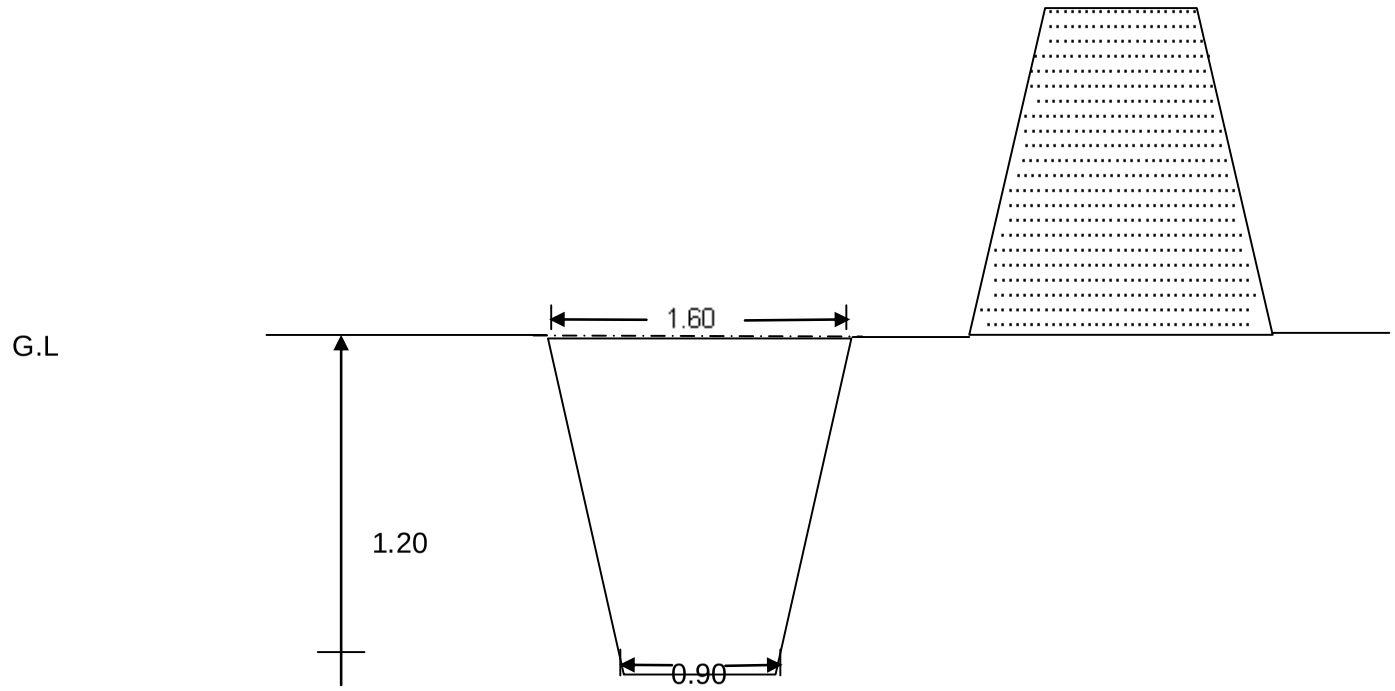
CROSS SECTION OF EARTHAN BUND TYPE - III



(All Measurement in Meter)

Cross Sec.= ((5.25+0.75) /2)x1.50
= 4.50 Sqm

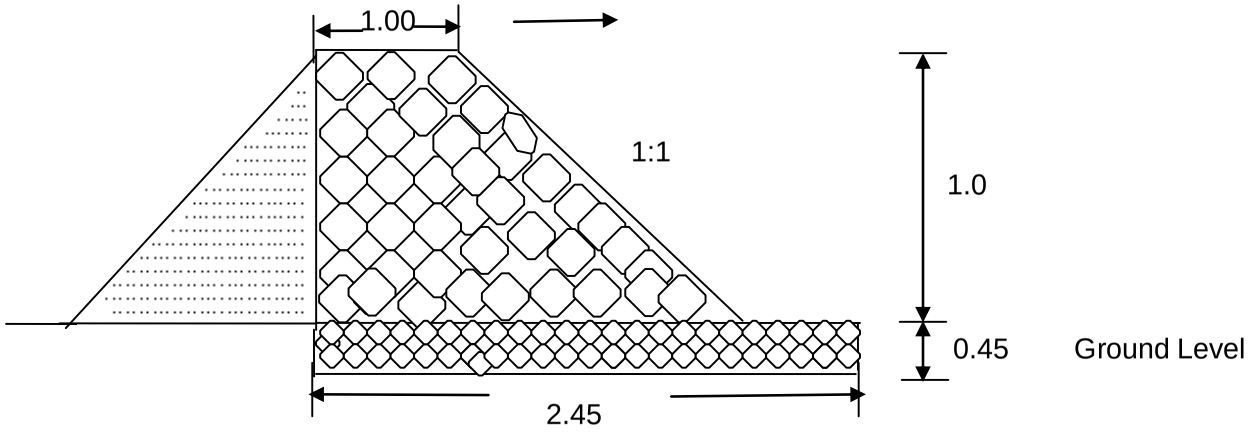
CROSS SECTION OF DITCH CUM BUND FENCINGH



Cross Sec.= $\frac{((1.50+0.0.90)}{2}$)x1.20

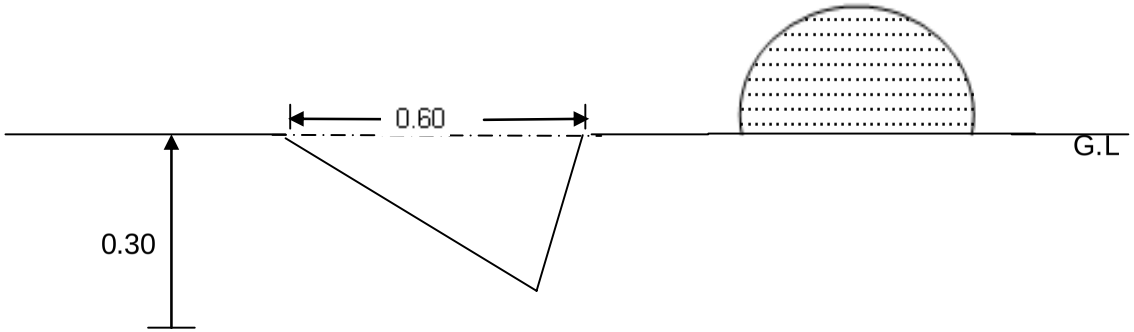
= 1.44 Sqm

CROSS SECTION OF L.S.C.D



Cross Sec.= ((1.00+2.00) /2)x1.00
= 1.50 Sqm

CROSS SECTION OF CONTOUR FURROW



Cross Sec.= 1/2x0.60x0.30

= 0.09 sqm.

लागत तकमीना

नाम जल ग्रहण क्षेत्र–जेलू

कार्य का नाम–चरागाह भूमि पर खाई फेंसिंग

नाम :जेलू

क्षैत्रफलः 35 हैक्टेयर 35.00

क्र.सं.	विवरण	मात्रा	इकाई	दर		राि ा	
				श्रम	कुल	श्रम	कुल
1	डाग बेलिंग 2.5 से 5 सेमी गहराई तक (जि.स्त. दर.अनु.)	3530.00	मीटर	0.7	0.70	2471.00	2471.00
2	नीव, खाई परनाला में 1.5 गहराई तक मिटट्ी का खुदाई करना, तल को कूटना, पानी डालना,बगल को संवारना,खुदी मिट्टीको बाहर निकालना, नीवं भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर दूरी तक निस्तारण करना। सख्त मिट्टी में। खाई हेतु	5083.20	घ.मी.	92	92.00	466954.40	466954.40
3	डिबलिंग विधि से वानिकी बीज बुवाई कार्य	10500.00	मीटर	0.6	0.60	6300.00	6300.00
4	वानिकी बीजों की राशि	50.00	कि.ग्रा	-	40.00		2000.00
5							
	योग					**476425.40**	**478425.40**
	योग						**478425.40**
	जोडा 4: कन्टोजेन्सी						**19137.02**
	योग						**497562.42**
	लागत श्रम भाग						**476425.40**
	लागत सामग्री भाग						**21137.02**
	कुल योग						**497562.42**
						Say	**497000.00**

लागत तकमीना

नाम जल ग्रहण क्षेत्र– जलू

कार्य का नाम– कृशि भूमि पर
वेजीटेटिव कन्टूरबन्ड

1 80

क्र.सं.	विवरण	मात्रा	इकाई	दर		राि ा	
				श्रम	कुल	श्रम	कुल
1	डाग बेलिंग 2.5 से 5 सेमी गहराई तक (जि.स्त. दर.अनु.2011)	160.00	मीटर	0.7	0.70	112.00	112.00
2	मिट्टी का कार्य बन्ध में (सूखी या गीली) 15 सेमी परत में डालना, ढेलों को तोडना, घास–पात तथा कंकर बीनकर अलग करना तथा मिट्टी की दरेसी करना 1.5 मी0 उठाना तथा 50 मीटर दूरी के लिए। कठोर मिट्टी में मिट्टी की कुटाई मानव द्वारा या प्लेन रोलर द्वारा ।(जि.स्त.दर.अनु.2011)	920	घ.मी.	8	8.00	8432.00	8432.00
3	धामन/घास बीज बुवाई बनाये गये रिज पर दो लाईनों में (जि.स्त.दर.अनु.2011)	240.00	मीटर	0.6	0.60	144.00	144.00
4	धामन घास बीज	1.00	कि.ग्रा	-	61.50		61.50
	योग					**8688.00**	**8749.50**
	योग						**8749.50**
	जोडा 4: कन्टोजेन्सी						**349.98**
	योग						**9099.48**
	लागत श्रम भाग						**8688.00**
	लागत सामग्री भाग						**411.48**
	कुल योग						**9099.48**
						Say	**9000.00**

विस्तृत तकमीना

नाम जल ग्रहण क्षेत्र–
गॉव का नाम :

कार्य का नाम–अकृषि भूमि पर कन्टूर फर्रो
क्षैत्रफलः 35 हैक्टर

क्र.सं.	विवरण	ल.गचौ.गग. त्र कुल मात्रा
1	ए फ्रेम लेवल से 8 से 15 मीटर क्षैतिज अन्तराल में समोच्च रेखा पर ले आउट का कार्य	35 हैक्टयर / 800मी0 / हैक्टेयरत्र28000 मी0
2	डाग बेलिंग 2.5 से 5 सेमी गहराई तक (जि.स्त.दर.अनु.2010पृ.सं0 25 क्र.सं. 182)	28000 मी.
3	नीव, खाई परनाला में 1.5 गहराई तक मिटट्ी का खुदाई करना, तल को कूटना, पानी डालना,बगल को संवारना,खुदी मिट्टीको बाहर निकालना, नीवं भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर दूरी तक निस्तारण करना।सख्त,चिकनी, कंकर, मिट्टी में। नीवं हेतु(जि.स्त.दर.अनु.2010पृ.सं05 क्र.सं. 2ब)	28000 मीग1ध2ग0ण60ग0ण30त्र2520
4	बीज बुवाई बनाये गये रिज पर	28000 मी.
5	बीज की मात्रा (धामण)	28000 मी. / 1 कि.ग्रा. / 100 मीटरत्र280

लागत तकमीना

नाम जल ग्रहण क्षेत्र– कार्य का नाम–अकृषि भूमि पर कन्टूर फर्रो

गॉव का नाम : क्षैत्रफलः 35 हैक्टर 35.00

क्र.सं.	विवरण	मात्रा	इकाई	दर		रा ि ा	
				श्रम	कुल	श्रम	कुल
1	ए फ्रेम लेवल से 8 से 15 मीटर क्षैतिज अन्तराल में समोच्च रेखा पर ले आउट का कार्य	2000	मी.	0.30	0.30	21000.00	21000.00
2	डाग बेलिंग 2.5 से 5 सेमी गहराई तक (जि.स्त.दर.अनु.	2000	मी.	0.07	0.07	1900.00	1900.00
3	नीव, खाई परनाला में 1.5 गहराई तक मिटट्ी का खुदाई करना, तल को कूटना, पानी डालना,बगल को संवारना,खुदी मिट्टीको बाहर निकालना, नीवं भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर दूरी तक निस्तारण करना ।सख्त,चिकनी, कंकर, मिट्टी में। नीवं हेतु(जि.स्त.दर.अनु.	2520	घ.मी.	9.00	9.00	23180.00	23180.00
4	बीज बुवाई बनाये गये रिज पर	2000	मी.	0.60	0.60	1600.00	1600.00
5	बीज की मात्रा (धामण)	20	कि.ग्रा.	-	61.50	-	1220.00
	योग					**289240.00**	**306460.00**
				8			
	योग						**306460.00**
	जोडा 4: कन्टोजेन्सी						**9193.80**
	योग						**315653.80**
	लागत श्रम भाग						**289240.00**
	लागत सामग्री भाग						**26413.80**
	कुल योग						**315653.80**
						Say	**315000.00**

लागत तकमीना

नाम जल ग्रहण क्षेत्र–जेलू

कार्य का नाम– कृशि भूमि पर वेजीटेटिव बन्ड

1.00 35.00

क्र.सं.	विवरण	मात्रा	इकाई	दर		राि ा	
				श्रम	कुल	श्रम	कुल
1	डाग बेलिंग 2.5 से 5 सेमी गहराई तक (जि.स्त. दर.अनु.2010पृ.सं025 क्र.सं. 182)	0.00	मीटर	0.7	0.0	490	490
2	मिट्टी का कार्य बन्ध में (सूखी या गीली) 15 सेमी परत में डालना, ढेलों को तोडना, घास–पात तथा कंकर बीनकर अलग करना तथा मिट्टी की दरेसी करना 1.5 मी0 उठाना तथा 50 मीटर दूरी के लिए। कठोर मिट्टी में मिट्टी की कुटाई मानव द्वारा या प्लेन रोलर द्वारा ।(जि.स्त.दर	100.0	घ.मी.	8	8.00	8680	8680
3	धामन/घास बीज बुवाई बनाये गये रिज पर दो लाईनों में (जि.स्त.दर.अनु.2010पृ.सं020 क्र.सं. 129)	105.00	मीटर	0.6	0.60	63.00	63.00
4	धामन घास बीज	1.00	कि.ग्रा	-	61.50		61.50
	योग					**8680.00**	**8741.50**
	योग						**8741.50**
	जोडा 4: कन्टोजेन्सी						**349.66**
	योग						**9091.16**
	लागत श्रम भाग						**8680.00**
	लागत सामग्री भाग						**411.16**
	कुल योग						**9091.16**
						Say	**9000.00**

लागत तकमीना

नाम जल ग्रहण क्षेत्र–जेलू

कार्य का नाम– कृशि भूमि पर
वेजीटेटिव बन्ड

1.00 22.50

क्र.सं.	विवरण	मात्रा	इकाई	दर		राि ा	
				श्रम	कुल	श्रम	कुल
1	डाग बेलिंग 2.5 से 5 सेमी गहराई तक (जि.स्त. दर.अनु.	45.00	मीटर	0.7	0.0	31.50	31.50
2	मिट्टी का कार्य बन्ध में (सूखी या गीली) 15 सेमी परत में डालना, ढेलों को तोडना, घास–पात तथा कंकर बीनकर अलग करना तथा मिट्टी की दरेसी करना 1.5 मी0 उठाना तथा 50 मीटर दूरी के लिए। कठोर मिट्टी में मिट्टी की कुटाई मानव द्वारा या प्लेन रोलर द्वारा ।(जि.स्त.दर	101.25	घ.मी.	8	8.00	806.25	806.25
3	धामन/घास बीज बुवाई बनाये गये रिज पर दो लाईनों में (जि.स्त.दर.अनु.)	675.0	मीटर	0.6	0.60	40.50	40.50
4	धामन घास बीज	1.00	कि.ग्रा	-	61.50		61.50
	योग					**8678.25**	**8739.75**
	योग						**8739.75**
	जोडा 4: कन्टोजेन्सी						**349.59**
	योग						**9089.34**
	लागत श्रम भाग						**8678.25**
	लागत सामग्री भाग						**411.09**
	कुल योग						**9089.34**
						Say	**9000.00**

NAME OF WATERSHED: JELU GAGADI (JODHPUR-XIV) BLOCK: OSIAN
DISTRICT: JODHPUR

MODEL ESTIMATE

नाम जल ग्रहण क्षेत्र– कार्य का नाम–कृषि भूमि पर वानिकी पौधारोपण

पौधो की संख्याः 100

क्र.सं.	विवरण	मात्रा	इकाई	दर		रा ि ा	
				श्रम	कुल	श्रम	कुल
1	45ग45ग45 सेमी. माप के गड्डे करना कठोर मिट्टी 400 गड्डे/हैक्टर (जि.स्त.दर.अनु.	100	संख्या	6.θ	6.θ	6θ.00	6θ.00
2	पौधे रोपण करना (जि.स्त.दर.अनु.2011	100	संख्या	3.00	3.00	300.00	300.00
3	पौधों की कीमत	108	संख्या	-	5.00	-	540.00
4	पौधों का परिवहन पौधे भराई एवं खाली कराई सहित 5 कि0मी. दूरी तक के लिए	108	संख्या /1000	-	θ8.21		9.09
5	पौधे रोपण के समय डीएपी डालना	3	कि.ग्रा.	-	10.00	-	30.00
6	दीमक नियन्त्रण हेतु एन्डोंसल्फान 4ः चूर्ण	10	कि.ग्रा.	-	12.00	-	120.00
7	पौधो में उर्वरक एवं कीट ना ाक दवाई डालना	100	संख्या	0.21	0.21	21.00	21.00
	योग					**1001.00**	**1789.09**
	योग						**1789.09**
	जोडा 4ः कन्टोजेन्सी						**71.56**
	योग						**1860.65**
	लागत श्रम भाग						**1001.00**
	लागत सामग्री भाग						**859.65**
	कुल योग						**1860.65**
						Say	**1900.00**

ैल 19 रू / पौधा

NAME OF WATERSHED: JELU GAGADI (JODHPUR-XIV) BLOCK: OSIAN
DISTRICT: JODHPUR

MODEL ESTIMATE FOR PLANTATION IN PASTURE

क्र.सं.	विवरण	मात्रा	इकाई	दर		रा ि ा	
				श्रम	कुल	श्रम	कुल
1	**अग्रिम मदा कार्य :–** 45ग45ग45 सेमी. माप के गड्डे करना कठोर मिट्टी 400 गड्डे/हैक्टर	14000	संख्या	13.40	13.40	1[illegible]800.00	1[illegible]800.00
2	पौधे रोपण करना	14000	संख्या	3.00	3.00	42000.00	42000.00
3	पौधों की कीमत	1[illegible]500	संख्या	-	5.00	-	[illegible]500.00
4	पौधो को उपलब्ध पानी पिलाना 15 लीटर/पौधों पौधोरोपण के समय	14000	संख्या	1.[illegible]	1.[illegible]	25200.00	25200.00
5	पौधे रोपण के समय डीएपी डालना	420.00	कि.ग्रा.	-	10.00	-	4200.00
6	पौधों का परिवहन पौधे भराई एवं खाली कराई सहित 5 किमी दूरी तक के लिए	1[illegible]500	संख्या /1000	-	[illegible]821	-	15[illegible].68
7	थावला बनाना कम से कम 50 सेमी अर्द्ध व्यास का साधारण जमीन में (जि.स्त.दर.अनु.2011	14000	संख्या	2.40	2.40	33600.00	33600.00
8	**रखरखाबः–** पौधों को उपलब्ध पानी पिलाना 15 लीटर। पौधों (जि.स्त.दर.अनु.2011)	140000	संख्या	1.[illegible]	1.[illegible]	252000.00	252000.00
9	पौधों की निराई गुडाई करना 15 सेमी गहराई तक एवं 45 सेमी अर्द्धव्यास तक (जि.स्त.दर.अनु.2011)	42000	संख्या	1.20	1.20	50400.00	50400.00
10	पानी का परिवहन 5 किमी दूरी तक के लिए	2100000	लीटर/	-	2[illegible]	-	62643.00
11	दीमक नियन्त्रण हेतु एन्डोंसल्फान 4ः चूर्ण	1050	कि.ग्रा.	-	12.00	-	12600.00
12	पौधो में उर्वरक एवं कीट ना ाक दवाई डालना (जि.स्त.दर.अनु.2011	21000	संख्या	0.21	0.21	4410.00	4410.00
	ँजबी – ूंतक	[illegible]		33[illegible].00	33[illegible].00	324000.00	324000.00
	योग					**595210.00**	**778046.68**
	योग						**778046.68**
	जोडा 4ः कन्टोजेन्सी						**23341.40**
	योग						**801388.08**
	लागत श्रम भाग						**595210.00**
	लागत सामग्री भाग						**206178.08**
	कुल योग						**801388.08**
						Say	**800000.00**

NAME OF WATERSHED: JELU GAGADI (JODHPUR-XIV) BLOCK: OSIAN
DISTRICT: JODHPUR

लागत तकमीना

कार्य का नाम – कम्पोस्ट पिट यूनिट

क्र.सं.	विवरण	मात्रा	इकाई	दर		राि ा	
				श्रम	कुल	श्रम	कुल
1	नीव, खाई परनाला में 1.5 गहराई तक मिटट्ी का खुदाई करना, तल को कूटना, पानी डालना,बगल को संवारना,खुदी मिट्टीको बाहर निकालना, नीवं भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर दूरी तक निस्तारण करना। सख्त,चिकनी,	10.00	घ.मी	92.00	92.00	9.60	9.60
2	सिंगल सुपर फास्फेट	150.00	कि.ग्रा.	-	3.60	-	540.00
3	यूरिया	30.00	कि.ग्रा.		5.00	-	150.00
4	कल्चर पैकिंट	3.00	संख्या	-	10.00	-	30.00
	योग					**993.60**	**1713.60**
	योग						**1713.60**
	जोडा 4: कन्टोजेन्सी						**68.54**
	योग						**1782.14**
	लागत श्रम भाग						**993.60**
	लागत सामग्री भाग						**788.54**
	कुल योग			137%			**1782.14**
						Say	**1800.00**

NAME OF WATERSHED: JELU GAGADI (JODHPUR-XIV) BLOCK: OSIAN
DISTRICT: JODHPUR

लागत तकमीना

कार्य का नाम– फलदार पौधों की यूनिट

यूनिट का क्षैत्रफलः 0.20 हैक्टेयर(55 पौधे/यूनिट)

क्र.सं.	विवरण	मात्रा	इकाई	दर		राि ा	
				श्रम	कुल	श्रम	कुल
1	नीव, खाई परनाला में 1.5 गहराई तक मिटट्ी का खुदाई करना, तल को कूटना, पानी डालना,बगल को संवारना,खुदी मिट्टीको बाहर निकालना, नीवं भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर दूरी तक निस्तारण करना। सख्त,चिकनी,	40.09	घ.मी.	92.00	92.00	3688.28	3688.28
2	गोबर की खाद	550	कि.ग्रा.	-	2.50	-	1375.00
3	सुपरफास्फेट	20	कि.ग्रा.	-	3.50		70.00
4	पोटाश	5.00	कि.ग्रा.	-	4.00	-	20.00
5	यूरिया	12	कि.ग्रा.	-	5.00	-	60.00
6	दीमक की रोकथाम हेतु कीटनाशक दवाई (एन्डोसल्फान 4ः चूर्ण)	6	कि.ग्रा.	-	12.00		72.00
7	पौधे रोपण करना (जि.स्त.दर.अनु.2011)	55	संख्या	3.00	3.00	165.00	165.00
8	पौधों की कीमत	55	संख्या	-	15.00	-	825.00
9	पौधो पर लगने वाले कीडे मकोडो के नियंन्त्रण हेतु मोनोक्रोटोफॉस 36 इ.सी	0.25	लीटर	-	360.00	-	90.00
10	पौधों में उर्वरक एवं दवाई डालना (जि.स्त.दर.अनु.2011)	110	संख्या	0.21	0.21	23.10	23.10
	योग					**3876.38**	**6388.38**
	योग						**6388.38**
	जोडा 4ः कन्टोजेन्सी						**255.54**
	योग						**6643.92**
	लागत श्रम भाग						**3876.38**
	लागत सामग्री भाग						**2767.54**
	कुल योग						**6643.92**
						Say	**6700.00**

विस्तृत तकमीना

नाम जल ग्रहण क्षेत्र–
गॉव का नाम :

कार्य का नाम– फलदार पौधों की यूनिट
यूनिट का क्षैत्रफलः 0.20हैक्टेयर(55 पौधे/यूनिट)

क्र.सं.	विवरण	ल.गचौ.गग. त्र कुल मात्रा
1	नीव, खाई परनाला में 1.5 गहराई तक मिटट्ी का खुदाई करना, तल को कूटना, पानी डालना,बगल को संवारना,खुदी मिट्टीको बाहर निकालना, नीवं भरने के बाद खाली स्थानों को पुनः मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर दूरी तक निस्तारण करना। सख्त,चिकनी,	55ग0ण90ग0ण90ग0ण90त्र 40ण09 घ.मी
2	गोबर की खाद	55 गडड्े / 10 कि.ग्रा./गड्डा त्र550 कि.ग्रा.
3	सुपरफास्फेट	55 गडड्े / 0ण35 कि.ग्रा./गड्डा त्र19ण25 कि.ग्रा.ंल 20 कि.ग्रा.
4	पोटाश	55 गडड्े / 0ण08 कि.ग्रा./गड्डा त्र4ण4 कि.ग्रा.ंल 5ण00 कि.ग्रा.
5	यूरिया	55 गडड्े / 0ण22 कि.ग्रा./गड्डात्र12ण10 कि.ग्रा.ंल 12ण00 कि.ग्रा.
6	दीमक की रोकथाम हेतु कीटनाशक दवाई (एन्डोसल्फान 4ः चूर्ण)	55 गडड्े / 0ण10 कि.ग्रा./गड्डा त्र5ण50 कि.ग्रा.ंल 6ण00 कि.ग्रा.
7	पौधे रोपण करना	55
8	पौधों की कीमत	55
9	पौधो पर लगने वाले कीडे मकोडो के नियंन्त्रण हेतु मोनोक्रोटोफॉस 36 इ.सी	0ण25 लीटर./यूनिट
10	पौधों में उर्वरक एवं दवाई डालना	110 10 यूनिट

NAME OF WATERSHED: JELU GAGADI (JODHPUR-XIV) BLOCK: OSIAN
DISTRICT: JODHPUR

लागत तकमीना

नाम जल ग्रहण क्षेत्र–
गॉव का नाम :

कार्य का नाम – चरागाह भूमि पर घास बीज बुवाई कार्य
क्षैत्रफलः 35 हैक्टर

क्र.सं.	विवरण	मात्रा	इकाई	दर		रा ि ा	
				श्रम	कुल	श्रम	कुल
1	चरागाह हेतु घास बीज बुवाई कार्य 6 से 8 कि. ग्रा./हैक्टर ट्रेक्टर द्वारा जुताई से	35.00	घ.मी	41.00	78.25	1435.00	2743.75
2	बीज की राशि (धामण)	20.00	कि.ग्रा.	-	61.50	-	1220.00
	योग					**1435.00**	**44563.75**
	योग						**44563.75**
	जोडा 4ः कन्टोजेन्सी						**1782.55**
	योग						**46346.30**
	लागत श्रम भाग						**1435.00**
	लागत सामग्री भाग						**44911.30**
	कुल योग						**46346.30**
						Say	**46000.00**

Farm pond construction :-

Harlaya

Amount : 43780.189

S.No	Details of work		No.	Measurements Dia	B	H
1	Complete O/O		1	12.5	0	12.5
2	Hall I/I		1	10		12
5	E/W		1	122.6953	1	10.5
6	Concrete		1	122.6953	1	0.5
7	Masonary		1	36.1215	1.25	11.75
					0	
8	G.L to P.L		1			2
9	Aslat	Around	2	11	1	0.5
12	Door		1	1.5	1.5	1
13	Ventilater		-2	0	1	1
16	Flooring in side	Cement	1	78.525	1	1
17	Flooring on top	Cement	1	122.695	1	1
		Deduction	1	1.5	1.5	1

3 साधारण/मुलायम मिट्टी में 3.2004

4 सख्त, चिकनी, कंकर मिट्टी में

3.5 विघटित चट्टान

DETAILS OF WORK AND ABSTRACT OF COST

S.no.		no	L	B	W	Qty.	Qyy.mks		Lab.rate	total rate	lab amt	total amt.
1	Earth work in excavation in foundatin lift 1.5m and lead up to 50m	0.785	13	13	11.5	1525.648						
						0						
						0						
						0						
						1525.648	43.175824	cum.	68.00	68.00	2935.956	2935.956
	Extra Lift											
	First lift 1	0.785	13	13	5	663.325	18.772098	cum.	8.00	8.00	150.17678	150.17678
	Second lift 2	0.785	13	13	1.5	198.9975	5.6316293	cum.	16.00	16.00	90.106068	90.106068
2	P/L cement concrete in 1:4:8	0.785	13	13	0.5	66.3325						lhe
						0						
						0						
						0						
						0						
						66.3325	1.87	cum.	245.00	1510.00	458.15	2823.70
3	RRSM in foundation in 1:6 cement mortar	3.14	11.25	1.25	11.75	518.8359						lhe
						0						
						0						
						518.8359	14.68	cum.	370.80	1453.00	5443.344	21330.04
4	Lintel in cement mortar											lhe
		2	10	1	0.5	10						
						10	0.280	cum.	944.00	3520.00	264.32	985.60
5	Jodhper stone patti roofing in 1:4 cement mortar	0.785	12.5	12.5	1	122.6563						lhe
						0						
	gate	-1	1.5	1.5	1	-2.25						
						120.4063	11.18	sqm.	215.00	605.00	2403.7	6763.90
6	P/L cement concrete in 1:2:4 50mm thick on rooffing	0.785	12.5	12.5	1	122.6563						lhe
		-1	1.5	1.5	1	-2.25						
						120.4063	11.18	sqm.	71.80	178.00	802.724	1990.04
7		0.785	10	10	1	78.5						
						0						
						78.5	7.29	sqm.	71.80	178.00	523.422	1297.62
8	25mm cement plaster in 1:6 cement mortar	3.14	10	1	12	376.8						
						0						
						376.8	35	sqm.	61.30	111.00	2145.5	3885.00
9	Flush pointing in 1:3 cement mortar	3.14	12.5	1	2	78.5						
						0						
						78.5	7.29	sqm.	36.30	45.00	264.627	328.05
10	C.R. facingin II sort						0		88.00	88.00	0	0.00
10	P/F iron gate	1	1.5	1.5	1	2.25						

						2.25	0.2	sqm.	68.00	850.00	13.6	500.00
						0						
						0	7	MD	100	100	700	700.00
						0					0	0
											16195.626	43780.189

	Quantity	Rate	Amount
Skilled labo	25.17	225	5663
Unskilled la	#REF!	100	#REF!
Water			#REF!
			#REF!

राशि		
श्रम	A	16195.626
सामग्री	B	27584.563
कुल	C	43780.189
Add 3% for conti. D=(C*0.03)		0
dqy ;ksx (C+D)		43780.189

0

dz-la-	dqy lkexzh vko';drk	bZdkbZ	ek=k	nj	jkf'k	
1	jsr@ctjh	?k-eh-	8.19	340	2785.0114	
2	fxêh iRFkj dh 40 fe-eh- ukeh; eki dh	?k-eh-	1.68	350	589.05	
3	fxêh iRFkj dh 20 fe-eh- ukeh; eki dh	?k-eh-	0.89	500	443.525	
4	iRFkj	?k-eh-	14.68	500	7340	
5	lhesUV	fd-xzk-	40.9	210	8586.506	0.8177625
6	iRFkj ds fljny 15 ls-eh- eksVkbZ rd	?k-eh-	0.28	2300	644	
7	iRFkj dh ifê;ka	o-eh-	13.42	285	3823.56	
8	QsDV^{a}h esa cus njokts	o-eh-	0.200	850.00	170	
					24381.652	
	अन्य				0	
			कुल योग		24381.652	

dz-la-	dqy lkexzh vko';drk	bZdkbZ	ek=k	nj	jkf'k	
1	jsr@ctjh	?k-eh-	0.67	340	227.5484	
2	fxêh iRFkj dh 40 fe-eh- ukeh; eki dh	?k-eh-	0.56	350	195.65	
3	fxêh iRFkj dh 20 fe-eh- ukeh; eki dh	?k-eh-	0.00	500	0	
4	iRFkj	?k-eh-	0.00	500	0	
5	lhesUV	fd-xzk-	5.9	210	1237.5745	0.1178642
6	iRFkj ds fljny 15 ls-eh- eksVkbZ rd	?k-eh-	0.00	2300	0	
7	iRFkj dh ifê;ka	o-eh-	0.00	285	0	
8	QsDV^{a}h esa cus njokts	o-eh-	2785.011	850.00	2367259.7	
					2368920.5	
	अन्य				0	
			कुल योग		2368920.5	

21.195

			M.Rate	Actual M.	T&P	dkjhxj @ etnwj vko';drk		
						dkjhxj	etnwj	;uh¼jk'kh½
						0	0.6	0.005
						0	#REF!	14.67978
esUV fd-x	ctjh ?k-eh	êh iRFkj dh				dkjhxj	etnwj	;uh¼jk'kh½
160	0.45	0.9				0.1	1.63	0.0147
299.200	0.842	1.683	1265.00	1140		0.19	3.05	41.50839
esUV fd-x	ctjh ?k-eh	iRFkj				dkjhxj	etnwj	;uh¼jk'kh½
70	0.3	1				0.71	1.4	0.0145
1027.60	4.40	14.68	1082.20	896		10.42	20.55	309.2856
esUV fd-x	ctjh ?k-eh	Fkjds fljny				dkjhxj	etnwj	;uh¼jk'kh½
		0.28	2576.00					
esUV fd-x	ctjh ?k-eh	Fkj dh ifê;ka				dkjhxj	etnwj	;uh¼jk'kh½
3.42	0.09	1.2				0.55	#REF!	0.005
38.2356	1.0062	13.416	390.00	386.964		6.15	#REF!	33.8195
esUV fd-x	ctjh ?k-eh	êh iRFkj dh				kkjhxj	etnwj	;uh¼jk'kh½
25.67	0.057	0.05				0.19	0.41	0.01
286.9906	0.63726	0.559	106.20	152.194		2.1242	4.5838	19.9004
सीमेन्ट कि.ग्रा	बजरी घ.मी.	गिट्टी पत्थर की				कारीगर	मजदूर	पानी(राशी)
15.6	0.022	0.045				0.15	0.23	0.0145
113.724	0.16038	0.32805	106.20	95.5		1.09	1.68	18.81549
सीमेन्ट कि.ग्रा	बजरी घ.मी.					कारीगर	मजदूर	पानी(राशी)
7.67	0.032					0.13	0.2	0.015
268.45	1.12		49.70	43.094		4.55	7.00	58.275
सीमेन्ट कि.ग्रा	बजरी घ.मी.					कारीगर	मजदूर	पानी(राशी)
1.4	0.003					0.08	0.11	0.015
10.206	0.02187		8.70	6.9		0.58	0.80	4.92075
						कारीगर	मजदूर	पानी(राशी)

	दरवाजे,				0.3	0.3	0
	#REF!	782.00	#REF!		0.1	0.1	0
		6366	#REF!		25.17	#REF!	501.20
				Total	4530.546	#REF!	501.20

C.C. 1:2:4

RR Stone Masonary 1:6
1'6" Thick

C.C. 1:4:8

DRAWING OF TANKA

12.50

10.00

1.5x1.5

Ground Level

11.75

12.5

10.50

0.5

Farm pond construction :-

Harlaya

Amount : 92419.563

S.No	Details of work		No.	Measurements Dia	B	H
1	Complete O/O		1	12.5	0	12.5
2	Hall I/I		1	10		12
5	E/W		1	122.6953	1	10.5
6	Concrete		1	122.6953	1	0.5
7	Masonary		1	36.1215	1.25	11.75
					0	
8	G.L to P.L		1			2
9	Aslat	Around	2	11	1	0.5
12	Door		1	1.5	1.5	1
13	Ventilater		-2	0	1	1
16	Flooring in side	Cement	1	78.525	1	1
17	Flooring on top	Cement	1	122.695	1	1
		Deduction	1	1.5	1.5	1

3	साधारण/मुलायम मिट्टी में	3.2004
4	सख्त, चिकनी, कंकर मिट्टी में	
3.5	विघटित चट्टान	

B/W

DETAILS OF WORK AND ABSTRACT OF COST

S.no.		no	L	B	W	Qty.	Qyy.mks		Lab.rate	total rate	lab amt	total amt.
1	Earth work in excavation in foundatin lift 1.5m and lead up to 50m	0.785	13	13	11.5	1525.648						
		0.785	20.5	2	2	64.37						
						0						
						0						
						1590.018	44.997495	cum.	68.00	68.00	3059.8297	3059.8297
	Extra Lift											
	First lift 1	0.785	13	13	5	663.325	18.772098	cum.	8.00	8.00	150.17678	150.17678
	Second lift 2	0.785	13	13	1.5	198.9975	5.6316293	cum.	16.00	16.00	90.106068	90.106068
2	P/L cement concrete in 1:4:8	0.785	13	13	0.5	66.3325						Ihe
						0						
						0						
						0						
						0						
						66.3325	1.87	cum.	245.00	1510.00	458.15	2823.70
3	P/L cement concrete in 1:6:12 under floor of catchment	3.14	25.25	12.75	0.25	252.7209	7.15	cum.	245.00	1263.00	1751.75	9030.45
3	RRSM in foundation in 1:6 cement mortar	3.14	11.25	1.25	11.75	518.8359						Ihe
		3.14	20.5	2	2	257.48						
		3.14	20.5	1.5	2.5	241.3875						
						0						
						1017.703	28.81	cum.	370.80	1453.00	10682.748	41860.93
4	Lintel in cement mortar											Ihe
		2	10	1	0.5	10						
						10	0.280	cum.	944.00	3520.00	264.32	985.60
5	Jodhper stone patti roofing in 1:4 cement mortar	0.785	12.5	12.5	1	122.6563						Ihe
						0						
	gate	-1	1.5	1.5	1	-2.25						
						120.4063	11.18	sqm.	215.00	605.00	2403.7	6763.90
6	P/L cement concrete in 1:2:4 50mm thick on rooffing	0.785	12.5	12.5	1	122.6563						Ihe
		-1	1.5	1.5	1	-2.25						
						120.4063	11.18	sqm.	71.80	178.00	802.724	1990.04
7		0.785	10	10	1	78.5						
		3.14	20.5	1	1.5	96.555						
		3.14	25.25	1	12.75	1010.884						
						1185.939	110.17	sqm.	71.80	178.00	7910.206	19610.26
8	25mm cement plaster in 1:6 cement mortar	3.14	10	1	12	376.8						
						0						
						376.8	35	sqm.	61.30	111.00	2145.5	3885.00

9	Flush pointing in 1:3 cement mortar	3.14	12.5	1	2	78.5						
		3.14	22	1	2.5	172.7						
						78.5	7.29	sqm.	36.30	45.00	264.627	328.05
10	C.R. facingin II sort						7.29		88.00	88.00	641.52	641.52
10	P/F iron gate	1	1.5	1.5	1	2.25						
						2.25	0.2	sqm.	68.00	850.00	13.6	500.00
						0						
						0	7	MD	100	100	700	700.00
						0					0	0
											31338.958	92419.563

	Quantity	Rate	Amount
Skilled labo	50.63	325	16456
Unskilled la	#REF!	100	#REF!
Water			#REF!
			#REF!

राशि		
श्रम	A	31338.958
सामग्री	B	61080.605
कुल	C	92419.563
Add 3% for conti. D=(C*0.03)		0
dqy ;ksx (C+D)		92419.563

0

dz-la-	dqy lkexzh vko';drk	bZdkbZ	ek=k	nj	jkf'k	
1	jsr@ctjh	?k-eh-	14.69	340	4995.8138	
2	fxêh iRFkj dh 40 fe-eh- ukeh; eki dh	?k-eh-	1.68	350	589.05	
3	fxêh iRFkj dh 20 fe-eh- ukeh; eki dh	?k-eh-	5.52	500	2758.325	
4	iRFkj	?k-eh-	28.81	500	14405	
5	lhesUV	fd-xzk-	92.8	210	19481.424	1.8553737
6	iRFkj ds fljny 15 ls-eh- eksVkbZ rd	?k-eh-	0.28	2300	644	
7	iRFkj dh ifê;ka	o-eh-	13.42	285	3823.56	
8	QsDV^{a}h esa cus njokts	o-eh-	0.200	850.00	170	
					46867.172	
	अन्य				0	
			कुल योग		46867.172	

dz-la-	dqy lkexzh vko';drk	bZdkbZ	ek=k	nj	jkf'k	
1	jsr@ctjh	?k-eh-	0.67	340	227.5484	
2	fxêh iRFkj dh 40 fe-eh- ukeh; eki dh	?k-eh-	0.56	350	195.65	
3	fxêh iRFkj dh 20 fe-eh- ukeh; eki dh	?k-eh-	0.00	500	0	
4	iRFkj	?k-eh-	0.00	500	0	
5	lhesUV	fd-xzk-	5.9	210	1237.5745	0.1178642
6	iRFkj ds fljny 15 ls-eh- eksVkbZ rd	?k-eh-	0.00	2300	0	
7	iRFkj dh ifê;ka	o-eh-	0.00	285	0	
8	QsDV^{a}h esa cus njokts	o-eh-	4995.814	850.00	4246441.7	
					4248102.5	
	अन्य				0	
			कुल योग		4248102.5	

21.195

			M.Rate	Actual M.	T&P	dkjhxj @ etnwj vko';drk		
						dkjhxj	etnwj	;uh¼jk'kh½
						0	0.6	0.005
						0		15.29915
esUV fd-x	ctjh ?k-eh	êh iRFkj dh				dkjhxj	etnwj	;uh¼jk'kh½
160	0.45	0.9				0.1	1.63	0.0147
299.200	0.842	1.683	1265.00	1140		0.19	3.05	41.50839
esUV fd-x	ctjh ?k-eh	iRFkj				dkjhxj	etnwj	;uh¼jk'kh½
70	0.3	1				0.71	1.4	0.0145
2016.70	8.64	28.81	1082.20	896		20.46	40.33	606.9835
esUV fd-x	ctjh ?k-eh	Fkjds fljny				dkjhxj	etnwj	;uh¼jk'kh½
		0.28	2576.00					
esUV fd-x	ctjh ?k-eh	Fkj dh ifê;ka				dkjhxj	etnwj	;uh¼jk'kh½
3.42	0.09	1.2				0.55	#REF!	0.005
38.2356	1.0062	13.416	390.00	386.964		6.15	#REF!	33.8195
esUV fd-x	ctjh ?k-eh	êh iRFkj dh				कारीगर	मजदूर	पानी(राशी)
25.67	0.057	0.05				0.19	0.41	0.01
286.9906	0.63726	0.559	106.20	152.194		2.1242	4.5838	19.9004
सीमेन्ट कि.ग्रा	बजरी घ.मी.	गिट्टी पत्थर की				कारीगर	मजदूर	पानी(राशी)
15.6	0.022	0.045				0.15	0.23	0.0145
1718.652	2.42374	4.95765	106.20	95.5		16.53	25.34	284.3488
सीमेन्ट कि.ग्रा	बजरी घ.मी.					कारीगर	मजदूर	पानी(राशी)
7.67	0.032					0.13	0.2	0.015
268.45	1.12		49.70	43.094		4.55	7.00	58.275

सीमेन्ट कि.ग्रा	बजरी घ.मी.					कारीगर	मजदूर	पानी(राशी)
1.4	0.003					0.08	0.11	0.015
10.206	0.02187		8.70	6.9		0.58	0.80	4.92075
						कारीगर	मजदूर	पानी(राशी)
		दरवाजे,				0.3	0.3	0
		0	782.00	0		0.1	0.1	0
			6366	2720.652		50.63	#REF!	1065.06
					Total	9114.12	#REF!	1065.06

C.C. 1:2:4

RR Stone Masonary 1:6

1'6" Thick

C.C. 1:4:8

DRAWING OF TANKA

12.50

10.00

1.5x1.5

Ground Level

11.75

12.5

10.50

0.5

Farm pond construction :-

Amount : 72790.486

S.No	Details of work		No.	Measurements Dia	B	H
1	Complete O/O		1	12.5	0	13
2	Hall I/I		1	10		12.5
5	E/W		1	122.6953	1	11
6	Concrete		1	122.6953	1	0.5
7	Masonary		1	36.1215	1.25	12
					0	
8	G.L to P.L		1			2
9	Aslat	Around	2	11	1	0.5
12	Door		1	1.5	1.5	1
13	Ventilater		-2	0	1	1
16	Flooring in side	Cement	1	78.525	1	1
17	Flooring on top	Cement	1	122.695	1	1
		Deduction	1	1.5	1.5	1

B/W

3	साधारण/मुलायम मिट्टी में	3.3528
4	सख्त, चिकनी, कंकर मिट्टी में	
4	विघटित चट्टान	

DETAILS OF WORK AND ABSTRACT OF COST

S.no.		no	L	B	W	Qty.	Qyy.mks		Lab.rate	total rate	lab amt	total amt.
1	Earth work in excavation in foundatin lift 1.5m and lead up to 50m	0.785	13	13	12	1591.98						
		0.785	20.5	2	2	64.37						
						0						
						0						
						1656.35	46.874705	cum.	68.00	68.00	3187.4799	3187.4799
	Extra Lift											
	First lift 1	0.785	13	13	5	663.325	18.772098	cum.	8.00	8.00	150.17678	150.17678
	Second lift 2	0.785	13	13	2	265.33	7.508839	cum.	16.00	16.00	120.14142	120.14142
2	P/L cement concrete in 1:4:8	0.785	13	13	0.5	66.3325						lhe
						0						
						0						
						0						
						0						
						66.3325	1.87	cum.	245.00	1510.00	458.15	2823.70
3	P/L cement concrete in 1:6:12 under floor of catchment					0	0	cum.	245.00	1263.00	0	0.00
3	RRSM in foundation in 1:6 cement mortar	3.14	11.25	1.25	12	529.875						lhe
		3.14	20.5	2	2	257.48						
		3.14	20.5	1.5	2.5	241.3875						
						0						
						1028.743	29.12	cum.	370.80	1453.00	10797.696	42311.36
4	Lintel in cement mortar											lhe
		2	10	1	0.5	10						
						10	0.280	cum.	944.00	3520.00	264.32	985.60
5	Jodhper stone patti roofing in 1:4 cement mortar	0.785	12.5	12.5	1	122.6563						lhe
						0						
	gate	-1	1.5	1.5	1	-2.25						
						120.4063	11.18	sqm.	215.00	605.00	2403.7	6763.90
6	P/L cement concrete in 1:2:4 50mm thick on rooffing	0.785	12.5	12.5	1	122.6563						lhe
		-1	1.5	1.5	1	-2.25						
						120.4063	11.18	sqm.	71.80	178.00	802.724	1990.04
7		0.785	10	10	1	78.5						
		3.14	20.5	1	1.5	96.555						
						0						
						175.055	16.26	sqm.	71.80	178.00	1167.468	2894.28
8	25mm cement plaster in 1:6 cement mortar	3.14	10	1	12.5	392.5						
						0						
						392.5	36.46	sqm.	61.30	111.00	2234.998	4047.06

9	Flush pointing in 1:3 cement mortar	3.14	12.5	1	2	78.5						
		3.14	22	1	2.5	172.7						
						78.5	7.29	sqm.	36.30	45.00	264.627	328.05
10	C.R. facingin II sort						7.29		88.00	88.00	641.52	641.52
10	P/F iron gate	1	1.5	1.5	1	2.25						
						2.25	0.2	sqm.	68.00	850.00	13.6	500.00
11	Catchment of gravel/murrum	3.14	25.25	12.75	0.5	505.4419	14.304005	cum.		45	0	643.68
							14.304005			92.8	0	1327.41
							14.304005	cum.	26	26	371.90413	371.90
							14.304005	cum.	14.3	14.3	204.54727	204.55
						0	7	MD	100	100	700	700.00
						0					0	0
											23783.053	69990.851

	Quantity	Rate	Amount
Skilled labo	36.96	325	12011
Unskilled la	60.29	100	6029
Water			5743
			23783

Amt.		
Labour	A	23783.053
Material	B	46207.799
Total	C	69990.851
Add 4% for conti. D=(C*0.04)		2799.6341
Total	(C+D)	72790.486

S.no.	Material requried	Unit	Qty.	Rate	Amt.
1	Sand	cum.	12.7	340	4340.38
2	40mm aggregate	cum.	1.68	350	588
3	20mm aggregate	cum.	1.29	500	645.35
4	Stone	cum.	29.12	500	14560
5	Cement	bag	64.1	210	13466.6129
6	15cm. Thick lintel	cum.	0.28	2300	644
7	Stone slab	sqm	13.42	28	383.56
8	Door	sqm.	0.200	80.00	17
					38394447
					2963406
			Total		41039087

21.195

			M.Rate	Actual M.	T&P	dkjhxj @ etnwj vko';drk		
						dkjhxj	etnwj	;uh¼jk'kh½
						0	0.6	0.005
						0		15.9374
esUV fd-x	ctjh ?k-eh	êh iRFkj dh				dkjhxj	etnwj	;uh¼jk'kh½
160	0.45	0.9				0.1	1.63	0.0147
299.200	0.842	1.683	1265.00	1140		0.19	3.05	41.50839
esUV fd-x	ctjh ?k-eh	iRFkj				dkjhxj	etnwj	;uh¼jk'kh½
70	0.3	1				0.71	1.4	0.0145
2038.40	8.74	29.12	1082.20	896		20.68	40.77	613.5147
esUV fd-x	ctjh ?k-eh	Fkjds fljny				dkjhxj	etnwj	;uh¼jk'kh½
		0.28	2576.00					
esUV fd-x	ctjh ?k-eh	Fkj dh ifê;ka				dkjhxj	etnwj	;uh¼jk'kh½
3.42	0.09	1.2				0.55		0.005
38.2356	1.0062	13.416	390.00	386.964		6.15	0.00	33.8195
esUV fd-x	ctjh ?k-eh	êh iRFkj dh				कारीगर	मजदूर	पानी(राशी)
25.67	0.057	0.05				0.19	0.41	0.01
286.9906	0.63726	0.559	106.20	152.194		2.1242	4.5838	19.9004
सीमेन्ट कि.ग्रा	बजरी घ.मी.	गिट्टी पत्थर की				कारीगर	मजदूर	पानी(राशी)
15.6	0.022	0.045				0.15	0.23	0.0145
253.656	0.35772	0.7317	106.20	95.5		2.44	3.74	41.96706
सीमेन्ट कि.ग्रा	बजरी घ.मी.					कारीगर	मजदूर	पानी(राशी)
7.67	0.032					0.13	0.2	0.015
279.6482	1.16672		49.70	43.094		4.74	7.29	60.7059

सीमेन्ट कि.ग्रा	बजरी घ.मी.					कारीगर	मजदूर	पानी(राशी)
1.4	0.003					0.08	0.11	0.015
10.206	0.02187		8.70	6.9		0.58	0.80	4.92075
						कारीगर	मजदूर	पानी(राशी)
		दरवाजे,				0.3	0.3	0
		0	782.00	0		0.1	0.1	0
			6366	2720.652		36.96	60.29	832.27
					Total	6652.332	4401.433	832.27

DRAWING OF TANKA

12.50

10.00

1.5x1.5

C.C. 1:2:4

Ground Level

12.00

11.00 12.50

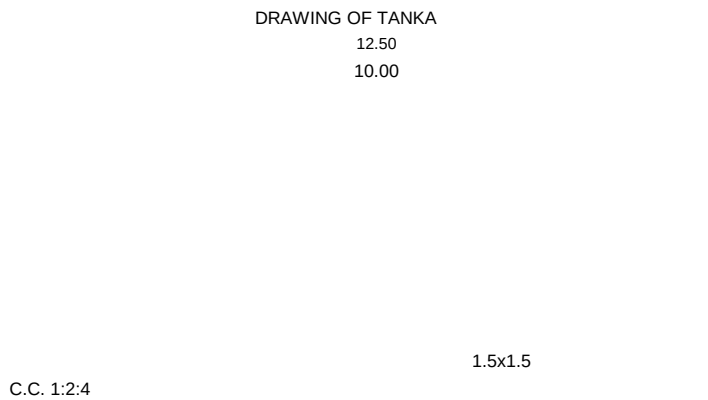
RR Stone Masonary 1:6
1'6" Thick

c.c.in 1:2:4

C.C. 1:4:8

0.5

DRAWING OF TANKA



11.00

RR Stone Masonary 1:6
1'6" Thick

c.c.in 1:2:4

C.C. 1:4:8
0.5

Name of W/S :- Jelu Gagadi (Jodhpur XIV)
Name of Village :- Jelu
Name of work :- Tanka construction

Amoun 75942

S. No	Details of work	No.	Measurements Dia	B	H
1	Complete O/O	1	13	0	13
2	Hall I/I	1	10		12.5
5	E/W	1	132.7	1	11
6	Concrete	1	132.7	1	0.5
7	Masonary	1	36.12	1.5	12
				0	
8	G.L to P.L	1			2
9	Aslat Arou	2	11	1	0.5
12	Door	1	1.5	1.5	1
13	Ventilater	-2	0	1	1
16	Flooring in side Cem	1	78.5	1	1
17	Flooring on top Cem	1	133	1	1
	Dedu	1	1.5	1.5	1

3	Ordinary soil
4	Hard soil
4	Disintigrated rock

DETAILS OF WORK AND ABSTRACT OF COST

S. no		no	L	B	W	Qty.	Qyy. mks		Lab.rate	total rate	lab amt	total amt.
1	Earth work in excavation in foundatin lift 1.5m and lead up to 50m	0.785	13.5	13.5	12	1716.8						
						0						
						0						
						1716.8	48.59	cum.	92.00	92.00	4469.85	4469.847
	Extra Lift											
	First lift 1	0.785	13.5	13.5	5	715.33	20.24	cum.	10.80	10.80	218.634	218.6338
	Second lift 2	0.785	13.5	13.5	2	286.13	8.098	cum.	21.60	21.60	174.907	174.9071
2	P/L cement concrete in 1:4:8	0.785	13.5	13.5	0.5	71.533						lhe
						0						
						0						
						0						
						0						
						71.533	2.02	cum.	320.10	1586.00	646.602	3203.72
3	RRSM in foundation in 1:6 cement mortar	3.14	11.5	1.5	12	649.98						lhe
						0						
						649.98	18.40	cum.	419.80	1503.00	7724.32	27655.20
4	Lintel in cement mortar											lhe
		2	10	1	0.5	10						
						10	0.280	cum.	944.00	3598.00	264.32	1007.44
5	Jodhper stone patti roofing in 1:4 cement mortar	0.785	13	13	1	132.67						lhe
						0						
	gat e	-1	1.5	1.5	1	-2.25						
						130.42	12.11	sqm.	218.50	609.00	2646.04	7374.99
6	P/L cement concrete in 1:2:4 50mm thick on rooffing	0.785	13	13	1	132.67						lhe
		-1	1.5	1.5	1	-2.25						
						130.42	12.11	sqm.	79.80	186.00	966.378	2252.46
7		0.785	10	10	1	78.5						

						0						
						78.5	7.29	sqm.	79.80	186.00	581.742	1355.94

8	25mm cement plaster in 1:6 cement mortar	3.14	10	1	12.5	392.5						
						0						
						392.5	36.46	sqm.	67.90	117.00	2475.63	4265.82
9	Flush pointing in 1:3 cement mortar	3.14	13	1	2	81.64						
		3.14	22	1	2.5	172.7						
						81.64	7.58	sqm.	39.80	48.00	301.684	363.84
10	C.R. facingin II sort						7.58		93.00	93.00	704.94	704.94
10	P/F iron gate	1	1.5	1.5	1	2.25						
						2.25	0.2	sqm.			0	500.00
	Iron jali											200.00
11	Stone chap boundry in 1:4 cement mortar	3.14	33		3	310.86	28.88	sqm.	380.00	555.00	10972.8	16026.06
12	Catchment of gravel/murrum	3.14	22.5	10	0.5	353.25	9.997	cum.		45	0	449.86
	Carriage						9.997	cum.		92.8	0	927.72
	Watering and compaction						9.997	cum.	37	37	369.888	369.89
13	Hand pump						1	Nos.			0	1500.00
						0					0	0
											32517.7	73021.27

	Quantity	Rate	Amount
Skille	28.73	325	9336
Unsk	43.88	135	5924
Water			17258
			32518

Amt.		
Labour	A	32517.73
Material	B	40503.54
Total	C	73021.27
D=(C*0.04)		2920.851
Total (C+D)		75942.12
Say Rs		76000

S. no.	Material requried	Unit	Qty.	Rate	Amt.
1	Sand	cum.	9.56	380	3632
2	40mm aggregate	cum.	1.38	400	272
3	20mm aggregate	cum.	0.93	550	513.5
4	Stone	cum.	18.40	57	1058
5	Cement	bag	47.3	220	10417
6	15cm. Thick lintel	cum.	0.28	2400	672
7	Stone slab	sqm	14.53	300	4360
8	Door	sqm.	1.000		500
	Hand pump	Nos.	1.0	1500.00	1500
	Stone chap	sqm.	30.320	200.00	6064
					385
	Contigency				291
			Total		418

	W.S. :- Jelu Gagadi								
1	Farm pond		6nos						
				Quantity					
	Cement			246	Bag				
	Sand			57.354	cum				
	Aggt.	20mm		5.6013	cum				
		40mm		10.098	cum				
	Stone			110.4	cum				
	Stone slab			8.19	sqm				
	Stone lintel 15cm thick			1.68	cum				
	Stone chap			18.9	sqm				
	gate 45X45 cm size			6	nos.				
	For GLR		4 nos.						
	Cement			36	Bag				
	Sand			26	Cum.				
	Aggt 20mm			51.6	Cum.				
	Iron in RCC work			182	Kg.				
	Angle iron			322.4	Kg.				
	gate			4	Nos.				
	Paint			20	Lt.				
	winding wire			48.48	Kg.				
	GI pipe and taps	2 inch		3	m				
		1 inch		3	m				
		3taps		3	nos.				
	PVC pipe 63mm dia. 6kg/sq.cm pressure				5000mtr.				

	W/S Jelu Gagad	Material requiriment							
	Cement			622	Bag				
	Sand			8.354	cum				
	Aggt.	20mm		57.201	cum				
		40mm		10.998	cum				
	Stone			110.4	cum				
	Stone slab			7.12	sqm				
	Stone lintel 15cm thick			1.68	cum				
	Stone chap			12	sqm				
	gate 45X45 cm size			6	nos.				
	Iron in RCC work			182	Kg.				
	Angle iron			322.4	Kg.				
	gate			4	Nos.				
	Paint			20	Lt.				
	winding wire			48.48	Kg.				
	GI pipe and taps	2 inch		3	m				
		1 inch		3	m				
		3taps		3	nos.				
	PVC pipe 63mm dia. 6kg/sq.cm pressure				5000mtr.				

	Nevera Road W.S.			
	Osian			
	GLR 10KL with kheli			
	Cement		9	Bag
	Sand		6.5	Cum.
	Aggt 20mm		12.9	Cum.
	Iron in RCC work		463	Kg.
	Angle iron		0.6	Kg.
	gate		1	Nos.
	Paint		5	Lt.
	winding wire		12.12	Kg.
	GI pipe and taps	2 inch	3	m
		1 inch	3	m
		3taps	3	nos.
	PVC pipe 63mm dia. 6kg/sq.cm pressure			700mtr.

Dhundhada

1	Cement		9	Bag	
2	Sand		6.5	Cum.	
3	Aggt 20mm		12.9	Cum.	
4	Iron in RCC work		463	Kg.	
5	Angle iron		0.6	Kg.	
6	gate		1	Nos.	
7	Paint		5	Lt.	
8	winding wire		12.12	Kg.	
9	GI pipe and taps	2 inch	3	m	
		1 inch	3	m	
		3taps	3	nos.	
10	PVC pipe 63mm dia. 6kg/sq.cm pressure			700mtr.	

	Material required for BCK repairing work						
1	Cement			100	Bag		
2	Sand			20	cum		
3	Aggt.12mm			10	cum		
4	Aggt.40mm			1	cum		
5	Angle iron			65	Kg.		
6	Almira G.I. sheet gate			8.5	Sqm.		
7	Hand pump			1	Nos.		
8	Syntex tank 500 Lt. capacity			1			
9	Chaina clay tile			5	Sqm.		
10	Marble			85	Sqm.		
11	Iron rod 6mm			185	Kg.		
12	Winding wire			7	Kg.		
13	Enamel paint			20	lt.		
14	Red oxide			4.00	lt.		
15	Sanitary fitting pipe,taps,flush cock etc						
16	W.C. of indian style			1.00			
17	Wash basin			1.00			
18	Iron gate			######	Kg.		
19	Stone			10.00	cum		
20	PVC pipe 63mm			35.00	m		
21	PVC pipe 75mm			30.00	m		
22	Iron jali 14-24 guage for window			22.00	Sqm.		
23	Gate of water tanka			1.00			
24	Machinery (vibrater etc)						
25	White washing						
26	Water supply						
27	GI pipe and taps	2 inch		6	m		
		1 inch		6	m		
		3taps		6	nos.		

Material required for W/S Nevera road

1	Cement			194	Bag		
2	Sand			33	cum		
3	Aggt.12mm			35	cum		
4	Aggt.40mm			2	cum		
5	Angle iron			227	Kg.		
6	Almira G.I. sheet gate			8.5	Sqm.		
7	Hand pump			1	Nos.		
8	Syntex tank 500 Lt. capacity			1			
9	Chaina clay tile			5	Sqm.		
10	Marble			85	Sqm.		
11	Iron rod			1111	Kg.		
12	Winding wire			32	Kg.		
13	Enamel paint			25	lt.		
14	Red oxide			4.00	lt.		
15	Sanitary fitting pipe,taps,flush						
16	W.C. of indian style			1.00			
17	Wash basin			1.00			
18	Iron gate			#####	Kg.		
19	Stone			10.00	cum		
20	PVC pipe 63mm			#####	m		
21	PVC pipe 75mm			30.00	m		
22	Iron jali 14-24 guage for window			22.00	Sqm.		
23	Gate of water tanka			1.00			
24	GI pipe and taps	2 inch		6	m		
		1 inch		6	m		
		3taps		6	nos.		
25	Machinery (vibrater etc)						
26	White washing						
27	Water supply						

			M.Rate	Actual M.	T&P	dkjhxj @ etnwj vko';drk		
						dkjhxj	etnwj	{uh¼jk'kh½
						0	0.6	0.005
						0		22.34924
esUV fd-xctjh ?k-eh		êh iRFkj dh				dkjhxj	etnwj	{uh¼jk'kh½
160	0.45	0.9				0.1	1.63	0.0147
323.200	0.909	1.818	1265.90	1235		0.20	3.29	47.09468
esUV fd-xctjh ?k-eh		iRFkj				dkjhxj	etnwj	{uh¼jk'kh½
70	0.3	1				0.71	1.4	0.0145
1288.00	5.52	18.40	1083.20	997		13.06	25.76	401.0004
esUV fd-xctjh ?k-eh		Fkjds fljny				dkjhxj	etnwj	{uh¼jk'kh½
		0.28	2654.00					
esUV fd-xctjh ?k-eh		Fkj dh ifê;ka				dkjhxj	etnwj	{uh¼jk'kh½
3.42	0.09	1.2				0.55		0.005
41.4162	1.0899	14.532	390.50	409.248		6.66	0.00	36.87495
esUV fd-xctjh ?k-eh		êh iRFkj dh				कारीगर	मजदूर	पानी(राशी)
25.67	0.057	0.05				0.19	0.41	0.01
310.8637	0.69027	0.6055	106.20	162.108		2.3009	4.9651	22.5246
सीमेन्ट कि.ग्रा	बजरी घ.मी.	गिट्टी पत्थर की				कारीगर	मजदूर	पानी(राशी)
15.6	0.022	0.045				0.15	0.23	0.0145

113.724	0.16038	0.32805	106.20	101.75		1.09	1.68	19.66113

सीमेन्ट कि.ग्रा	बजरी घ.मी.					कारीगर	मजदूर	पानी(राशी)
7.67	0.032					0.13	0.2	0.015
279.6482	1.16672		49.10	45.908		4.74	7.29	63.9873
सीमेन्ट कि.ग्रा	बजरी घ.मी.					कारीगर	मजदूर	पानी(राशी)
1.4	0.003					0.08	0.11	0.015
10.612	0.02274		8.20	7.3		0.61	0.83	5.4576
						कारीगर	मजदूर	पानी(राशी)
		दरवाजे,				0.3	0.3	0
		0	0.00	0		0.1	0.1	0
			5663.3	2958.314		28.73	43.88	618.95
					Total	5170.878	3203.255	618.95

DRAWING OF TANKA

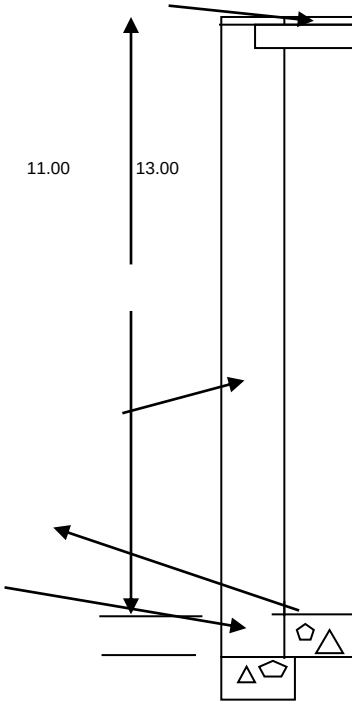
13.00

10.00

1.5x1.5

C.C. 1:2:4

Ground Level



12.00

11.00 13.00

RR Stone Masonary 1:6
1'6" Thick

c.c.in 1:2:4

C.C. 1:4:8

0.5

DRAWING OF TANKA

13.00

10.00

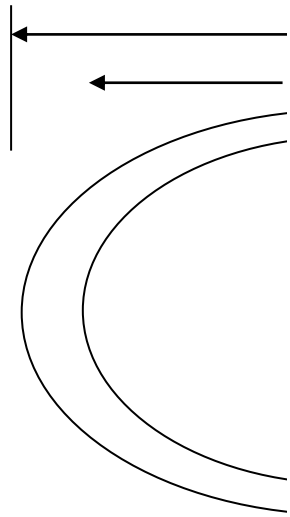
1.5x1.5

C.C. 1:2:4

Ground Level

12.00

13

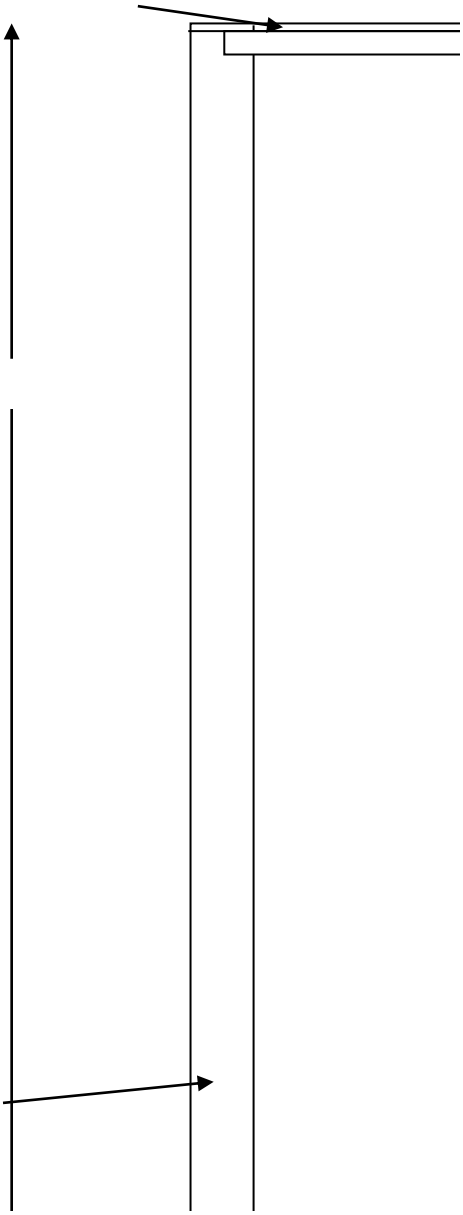


11.00

RR Stone Masonary 1:6
1'6" Thick

c.c.in 1:2:4

C.C. 1:4:8
0.5



Name of W/S :- Jelu Gagadi (Jodhpur XIV)
Name of Village :- Jelu
Name of work :- Tanka construction for NREGS

Amoun 84709.9

S. No	Details of work		No.	Measurements Dia	B	H
1	Complete O/O		1	13	0	13
2	Hall I/I		1	10		12.5
5	E/W		1	132.7	1	11
6	Concrete		1	132.7	1	0.5
7	Masonary		1	36.12	1.5	12
					0	
8	G.L to P.L		1			2
9	Aslat	Arou	2	11	1	0.5
12	Door		1	1.5	1.5	1
13	Ventilater		-2	0	1	1
16	Flooring in side	Cem	1	78.5	1	1
17	Flooring on top	Cem	1	133	1	1
		Dedu	1	1.5	1.5	1

3	Ordinary soil
4	Hard soil
4	Disintigrated rock

DETAILS OF WORK AND ABSTRACT OF COST

S. no			no	L	B	W	Qty.	Qyy. mks		Lab.rate	total rate	lab amt	total amt.
1	Earth work in excavation in foundatin lift 1.5m and lead up to 50m		0.785	13.5	13.5	12	1716.8						
							0						
							0						
							1716.8	48.59	cum.	92.00	92.00	4469.85	4469.847
	Extra Lift												
		First lift 1	0.785	13.5	13.5	5	715.331	20.24	cum.	10.80	10.80	218.634	218.6338
		Second lift 2	0.785	13.5	13.5	2	286.133	8.098	cum.	21.60	21.60	174.907	174.9071
2	P/L cement concrete in 1:4:8		0.785	13.5	13.5	0.5	71.5331						
							0						
							0						
							0						
							0						
							71.5331	2.02	cum.	320.10	1586.00	646.602	3203.72
3	RRSM in foundation in 1:6 cement mortar		3.14	11.5	1.5	12	649.98						
							0						
							649.98	18.40	cum.	419.80	1503.00	7724.32	27655.20
4	Lintel in cement mortar												
			2	10	1	0.5	10						
							10	0.280	cum.	944.00	3598.00	264.32	1007.44
5	Jodhper stone patti roofing in 1:4 cement mortar		0.785	13	13	1	132.665						
							0						
		gate	-1	1.5	1.5	1	-2.25						
							130.415	12.11	sqm.	218.50	609.00	2646.04	7374.99
6	P/L cement concrete in 1:2:4 50mm thick on rooffing		0.785	13	13	1	132.665						
			-1	1.5	1.5	1	-2.25						
							130.415	12.11	sqm.	79.80	186.00	966.378	2252.46
7			0.785	10	10	1	78.5						

						0						
						78.5	7.29	sqm.	79.80	186.00	581.742	1355.94
8	25mm cement plaster in 1:6 cement mortar	3.14	10	1	12.5	392.5						
						0						
						392.5	36.46	sqm.	67.90	117.00	2475.63	4265.82
9	Flush pointing in 1:3 cement mortar	3.14	13	1	2	81.64						
		3.14	22	1	2.5	172.7						
						81.64	7.58	sqm.	39.80	48.00	301.684	363.84
10	C.R. facingin II sort						7.58		93.00	93.00	704.94	704.94
10	P/F iron gate	1	1.5	1.5	1	2.25						
						2.25	0.2	sqm.			0	500.00
	Iron jali											200.00
11	Stone chap boundry in 1:4 cement mortar	3.14	33		3	310.86	28.88	sqm.	380.00	555.00	10972.8	16026.06
12	Catchment of gravel/murrum	3.14	22.5	10	0.5	353.25	9.997	cum.		45	0	449.86
	Carriage						9.997	cum.		92.8	0	927.72
	Watering and compaction						9.997	cum.	37	37	369.888	369.89
13	Hand pump						1	Nos.			0	1500.00
						0					0	0
											32517.7	73021.27
14	Change in labour cost in NREGS										40948.3	81451.79
	Total											

	Quantity	Rate	Amount
Skille	40.00	325	13000
Unsk	80.00	119	9520
Water			18428
			40948

Amt.		
Labour		
	A	40948.25
Material	B	40503.54
Total	C	81451.79
D=(C*0.04)		3258.072
Total (C+D)		84709.86
Say Rs		85000

S. no.	Material requried	Unit	Qty.	Rate	Amt.
1	Sand	cum.	9.56	380	3633
2	40mm aggregate	cum.	1.82	400	728
3	20mm aggregate	cum.	0.93	550	511.5
4	Stone	cum.	18.40	573	10550
5	Cement	bag	47.3	220	10406
6	15cm. Thick lintel	cum.	0.28	2400	672
7	Stone slab	sqm	14.53	300	4359
8	Door	sqm.	1.000		500
	Hand pump	Nos.	1.0	1500.00	1500
	Stone chap	sqm.	30.320	200.00	6064
					383
	Contigency				3258
			Total		42211

	W.S. :- Jelu Gagadi								
1	Farm pond		6nos						
				Quantity					
	Cement			246	Bag				
	Sand			57.36	cum				
	Aggt.	20mm		5.58	cum				
		40mm		10.92	cum				
	Stone			110.4	cum				
	Stone slab			78.8	sqm				
	Stone lintel 15cm thick			1.68	cum				
	Stone chap			18.92	sqm				
	gate 45X45 cm size			6	nos.				
	For GLR		4 nos.						
	Cement			36	Bag				
	Sand			26	Cum.				
	Aggt 20mm			51.6	Cum.				
	Iron in RCC work			182	Kg.				
	Angle iron			322.4	Kg.				
	gate			4	Nos.				
	Paint			20	Lt.				
	winding wire			4848	Kg.				
	GI pipe and taps	2 inch		3	m				
		1 inch		3	m				
		3taps		3	nos.				
	PVC pipe 63mm dia. 6kg/sq.cm pressure				5000mtr.				

	W/S Jelu Gagad	Material requiriment							
	Cement			622	Bag				
	Sand			8.36	cum				
	Aggt.	20mm		57.18	cum				
		40mm		10.92	cum				
	Stone			110.4	cum				
	Stone slab			71.8	sqm				
	Stone lintel 15cm thick			1.68	cum				
	Stone chap			12	sqm				
	gate 45X45 cm size			6	nos.				
	Iron in RCC work			182	Kg.				
	Angle iron			322.4	Kg.				
	gate			4	Nos.				
	Paint			20	Lt.				
	winding wire			48.48	Kg.				
	GI pipe and taps	2 inch		3	m				
		1 inch		3	m				
		3taps		3	nos.				
	PVC pipe 63mm dia. 6kg/sq.cm pressure				5000mtr.				

	Nevera Road W.S.			
	Osian			
	GLR 10KL with kheli			
	Cement		9	Bag
	Sand		6.5	Cum.
	Aggt 20mm		12.9	Cum.
	Iron in RCC work		463	Kg.
	Angle iron		0.6	Kg.
	gate		1	Nos.
	Paint		5	Lt.
	winding wire		12.12	Kg.
	GI pipe and taps	2 inch	3	m
		1 inch	3	m
		3taps	3	nos.
	PVC pipe 63mm dia. 6kg/sq.cm pressure			700mtr.

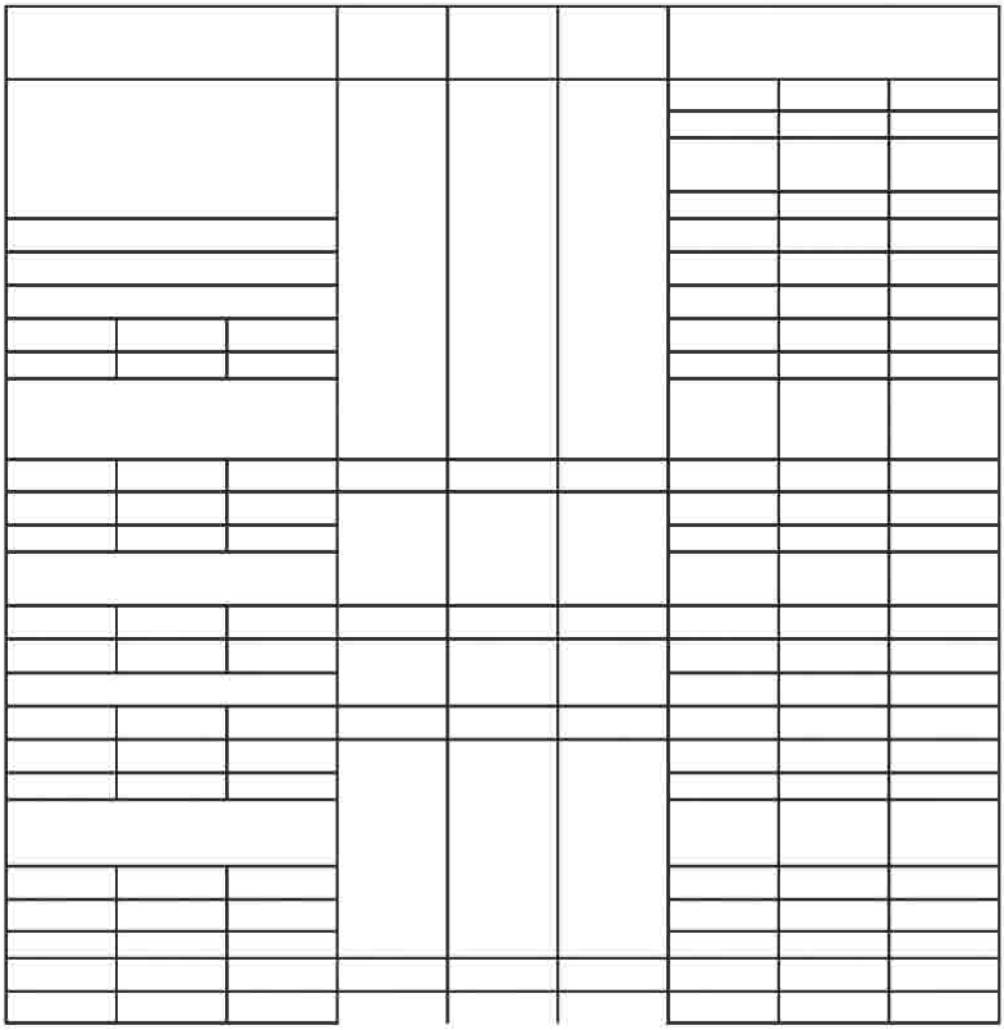
Dhundhada

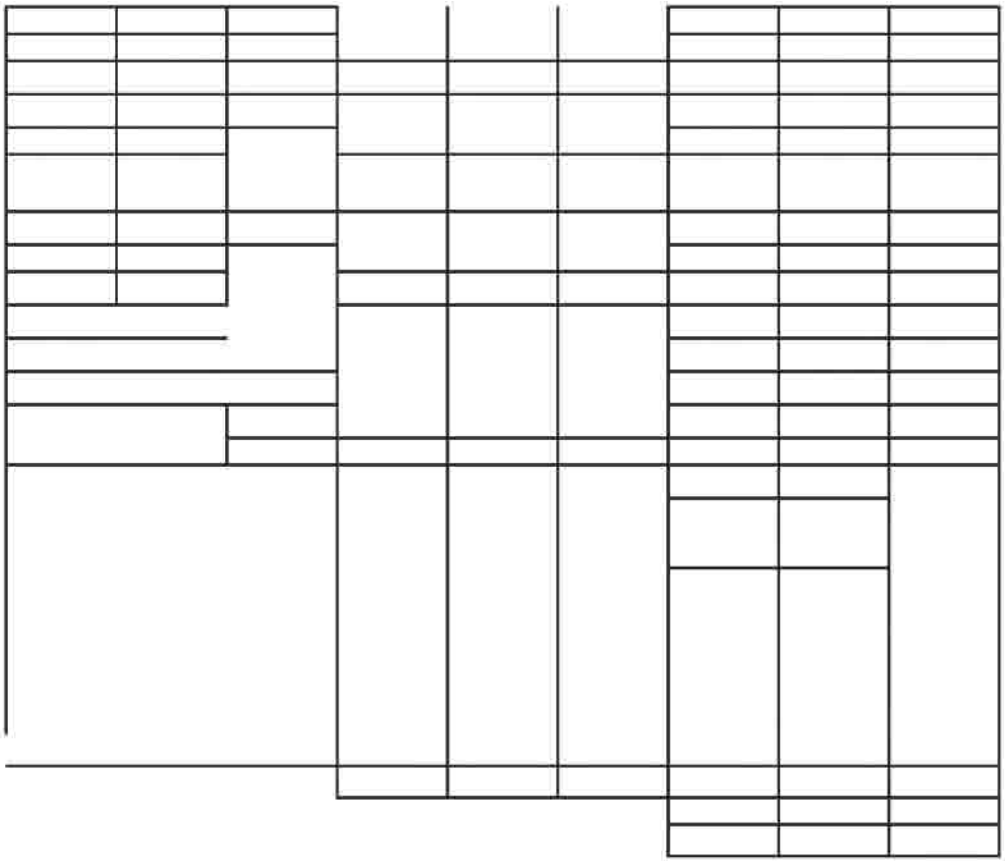
1	Cement		9	Bag	
2	Sand		6.5	Cum.	
3	Aggt 20mm		12.9	Cum.	
4	Iron in RCC work		463	Kg.	
5	Angle iron		0.6	Kg.	
6	gate		1	Nos.	
7	Paint		5	Lt.	
8	winding wire		12.12	Kg.	
9	GI pipe and taps	2 inch	3	m	
		1 inch	3	m	
		3taps	3	nos.	
10	PVC pipe 63mm dia. 6kg/sq.cm pressure			700mtr.	

	Material required for BCK repairing work						
1	Cement			100	Bag		
2	Sand			20	cum		
3	Aggt.12mm			10	cum		
4	Aggt.40mm			1	cum		
5	Angle iron			65	Kg.		
6	Almira G.I. sheet gate			8.5	Sqm.		
7	Hand pump			1	Nos.		
8	Syntex tank 500 Lt. capacity			1			
9	Chaina clay tile			5	Sqm.		
10	Marble			85	Sqm.		
11	Iron rod 6mm			185	Kg.		
12	Winding wire			7	Kg.		
13	Enamel paint			20	lt.		
14	Red oxide			4.00	lt.		
15	Sanitary fitting pipe,taps,flush cock etc						
16	W.C. of indian style			1.00			
17	Wash basin			1.00			
18	Iron gate			#####	Kg.		
19	Stone			10.00	cum		
20	PVC pipe 63mm			35.00	m		
21	PVC pipe 75mm			30.00	m		
22	Iron jali 14-24 guage for window			22.00	Sqm.		
23	Gate of water tanka			1.00			
24	Machinery (vibrater etc)						
25	White washing						
26	Water supply						
27	GI pipe and taps	2 inch		6	m		
		1 inch		6	m		
		3taps		6	nos.		

Material required for W/S Nevera road

1	Cement			194	Bag		
2	Sand			33	cum		
3	Aggt.12mm			35	cum		
4	Aggt.40mm			2	cum		
5	Angle iron			227	Kg.		
6	Almira G.I. sheet gate			8.5	Sqm.		
7	Hand pump			1	Nos.		
8	Syntex tank 500 Lt. capacity			1			
9	Chaina clay tile			5	Sqm.		
10	Marble			85	Sqm.		
11	Iron rod			1111	Kg.		
12	Winding wire			32	Kg.		
13	Enamel paint			25	lt.		
14	Red oxide			4.00	lt.		
15	Sanitary fitting pipe,taps,flush						
16	W.C. of indian style			1.00			
17	Wash basin			1.00			
18	Iron gate			#####	Kg.		
19	Stone			10.00	cum		
20	PVC pipe 63mm			#####	m		
21	PVC pipe 75mm			30.00	m		
22	Iron jali 14-24 guage for window			22.00	Sqm.		
23	Gate of water tanka			1.00			
24	GI pipe and taps	2 inch		6	m		
		1 inch		6	m		
		3taps		6	nos.		
25	Machinery (vibrater etc)						
26	White washing						
27	Water supply						

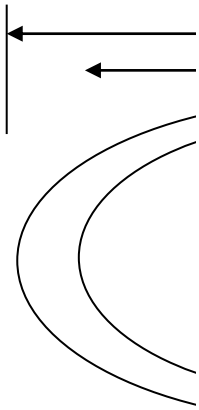




DRAWING OF TANKA

13.00

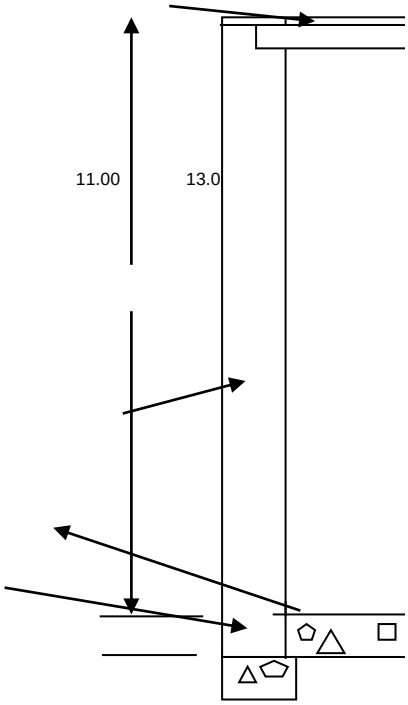
10.00



1.5x1.5

C.C. 1:2:4

Ground Level



12.00

11.00

13.0

RR Stone Masonary 1:6
1'6" Thick

c.c.in 1:2:4

C.C. 1:4:8

0.5

DRAWING OF TANKA

13.00

10.00

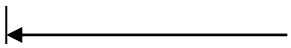
1.5x1.5

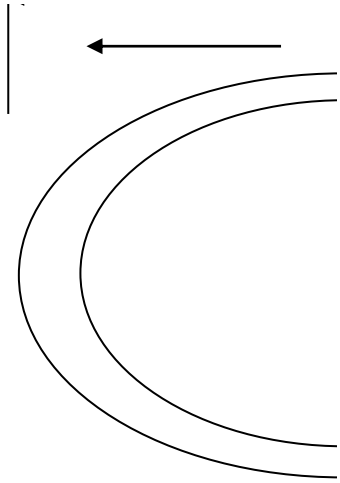
C.C. 1:2:4

Ground Level

12.00

13



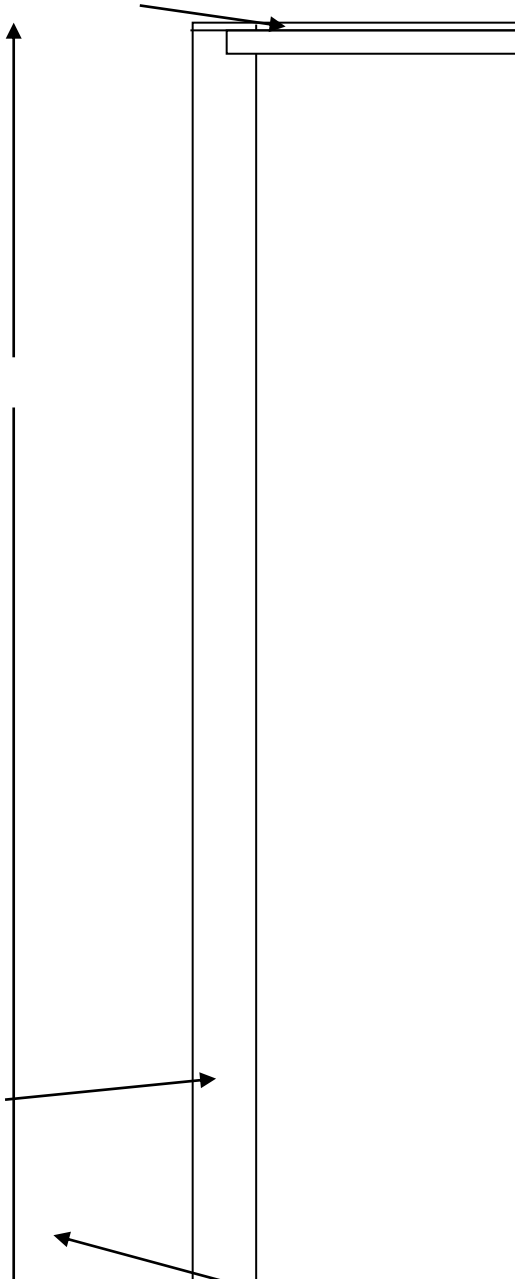


11.00

RR Stone Masonary 1:6
1'6" Thick

c.c.in 1:2:4

C.C. 1:4:8
0.5



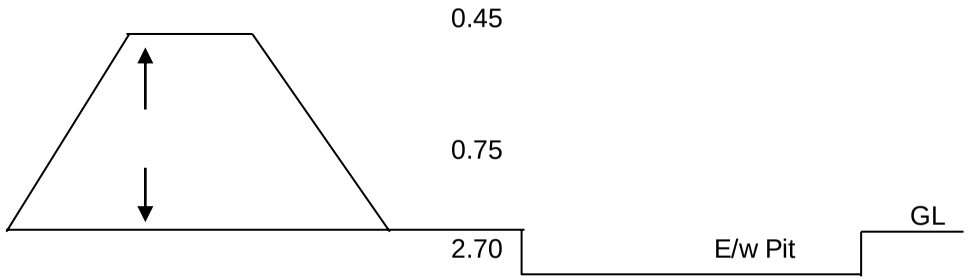
Inter Field WHS at Lower Reaches of Field (Details)

ेषि भूमि पर कार्य तकमीना

जलग्रहण क्षेत्र का नाम :- खेतरली'पाली- आइ डबलु एम पी- 6

पंचायत समिति - बाली **कुल लम्बाई** 1

क्र.सं.	कार्य विवरण	नाप						मात्रा
1	डाग बेलिंग देना		1.00	X	1	=	1	1 र.मी.
2	बंड हेतू मिट्टी का कार्य (सुखी या गीली) 15 सेमी परत में डालना ढेलों को तोडना, घास-पात तथा कंकर बीनकर अलग करना तथा मिट्टी की ड्रेसिंग करना कठोर मिट्टी में	1 X(2.70 + 0.45) /	2.00	X	0.75	=	1.181	1.181 घ.मी.
3	धामण घास के बीज की बुवाई बंड पर		1.00	X	5.00	=	5	5 न0



Inter Field WHS at Lower Reaches of Field (Abst.)

कृषि भूमि पर लागत तकमीना

जलग्रहण क्षेत्र का नाम :- खेतरली'पाली- आइ डबलु एम पी- 6

पंचायत समिति - बाली **कुल लम्बाई** 1

क्र.सं.	कार्य विवरण	मात्रा	दर	इकाई	राशि
1	डाग बेलिंग देना	1.000	0.250	र.मी.	0.25
2	बंड हेतू मिट्टी का कार्य (सुखी या गीली) 15 सेमी परत में डालना ढेलों को तोडना, घास-पात तथा कंकर बीनकर अलग करना तथा मिट्टी की ड्रेसिंग करना कठोर मिट्टी में	1.188	68000	घ.मी.	80.33
3	धामण घास के बीज की बुवाई बंड पर	5.000	0.240	र.मी.	1.20
				TOTAL	81.78
				G. TOTAL	**81.775**

Beanch Terracing For Slope More Than 8% Cultivable Land

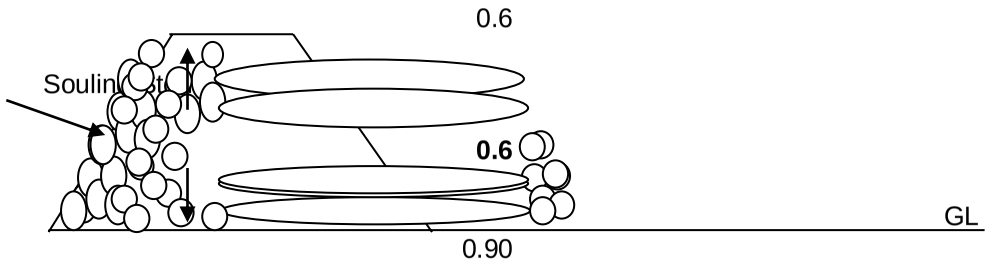
ंषि भूमि पर कार्य तकमीना

जलग्रहण क्षेत्र का नाम :- खेतरली'पाली- आइ डबलु एम पी- 6

पंचायत समिति - बाली

कुल लम्बाई 1

क्र.सं.	कार्य विवरण	नाप	मात्रा
1	सुखे पत्थरों से मेडबंदी का कार्य अधिक ढलान कृषि योग्य भूमि हेतु।	1 ग; 0ण्60 . 0ण्90 द्ध ध 2ण्00 ग 0ण्60 त्र 0ण्450	0ण्450 घ.मी.



Beanch Terracing For Slope More Than 8% Cultivable Land

ेंषि भूमि पर लागत तकमीना

जलग्रहण क्षेत्र का नाम :- खेतरली'पाली- आइ डबलु एम पी- 6

पंचायत समिति - बाली

कुल लम्बाई 2500

क्र.सं.	कार्य विवरण	मात्रा	दर श्रम	कुल दर	इकाई	श्रम राशि	कुल राशि
1	सुखे पत्थरों से मेडबंदी का कार्य अधिक ढलान कृषि योग्य भूमि हेतु।	0ण्450	239ण्00	749ण्00	घ.मी.	107ण्55	337ण्05
					TOTAL		337.05
					G. TOTAL		**842625**

Note : 272 Hect. & 60 Mtr./Hect.

अकृषि भूमि पर घास बीज बुवाई का लागत तकमीना

जलग्रहण क्षेत्र का नाम :- खेतरली'पाली- आइ डबलु एम पी- 6

पंचायत समिति - बाली प्रभावी क्षेत्रफल 1

क्र.सं.	कार्य विवरण	मात्रा	दर	प्रति	राशि
1	चारागाह हेतु घास बीज बुवाई का कार्य 6 से 8 किलो प्रति हैक्टर ट्रेक्टर द्वारा जुताई सहित	200	28000	हैक्टर	2000.00
	योग				2000.00

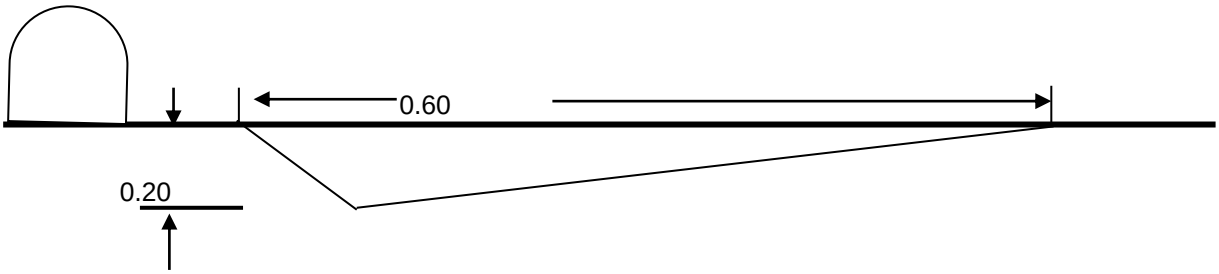
अकृषि भूमि पर वेजिटेटिव ट्रेंच का कार्य तकमीना

जलग्रहण क्षेत्र का नाम :- खेतरली'पाली- आइ डबलु एम पी- 6

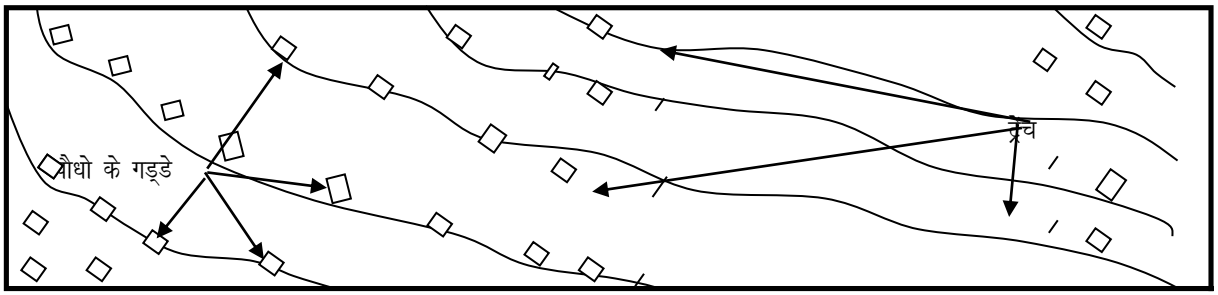
पंचायत समिति - बाली **प्रभावी क्षेत्रफल 1**

क्र.सं.	कार्य विवरण	नाप	मात्रा	
1	डॉग बेलिंग देना 2.50 से 5.00 सेमी गहरी		1.000	मी.
2	कन्टूर ट्रेंच हेतू खुदाई का कार्य सख्त मिट्टी में	1 X 0.45 X 0.45 =	0.203	मी.
3	धामण घास बीज की आपुर्ति	1 X 0.001 =	0.001	किलो
4	धामण घास बीज की बुवाई बनाये गये रिज पर		1.000	मी.

ट्रेंच का क्रास - सेक्शन



ट्रेंच का ले-आउट



अकृषि भूमि पर वेजिटेटिव ट्रेंच का लागत तकमीना

जलग्रहण क्षेत्र का नाम :- खेतरली'पाली- आइ डबलु एम पी- 6

पंचायत समिति - बाली प्रभावी क्षेत्रफल 1

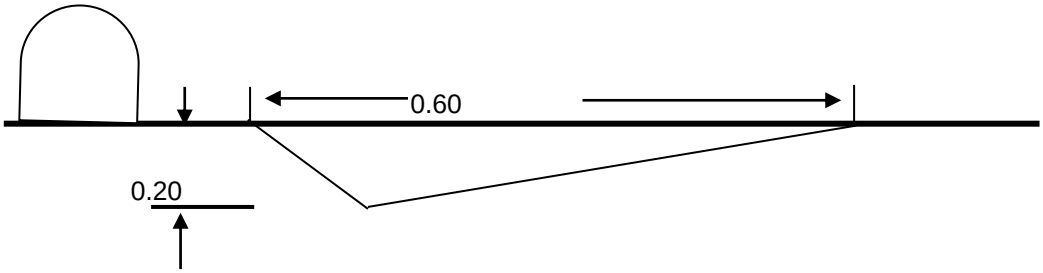
क्र.सं.	कार्य विवरण	मात्रा	दर	प्रति	राशि
1	डॉग बेलिंग देना 2.50 से 5.00 सेमी गहरी	1.000	0.340	मी.	0.340
2	कन्टूर ट्रेंच हेतू खुदाई का कार्य सख्त मिट्टी में	0.203	92.000	घ.मी.	18630
3	धामण घास बीज की आपुर्ति	0.001	40.000	किलो	0.040
4	धामण घास बीज की बुवाई बनाये गये रिज पर	1.000	0.600	प्रति मी.	0.600
	योग				19610
	कुल लम्बाई	Length =Eff. Area X 225 M(per Hact)=			225.000
	धामण घास की मात्रा	Length X .001 Kg=			**0.225** Kg.
	कुल लागत	Length X 19610			**4412.25**

प्रति र.मी. लागत रू Kg.

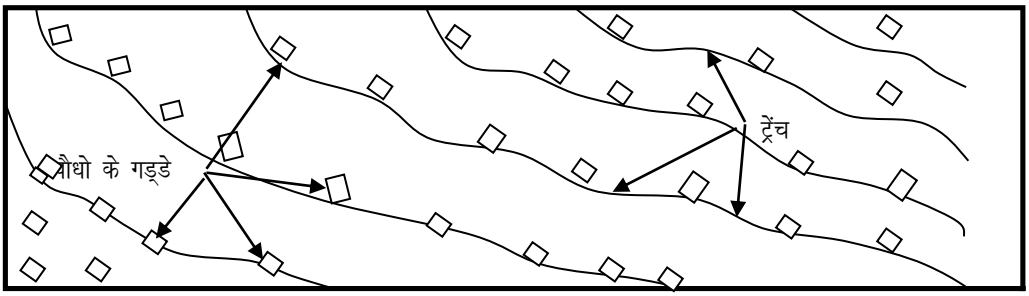
प्रति हैक्टर लागत रू

कुल लागत रू

ट्रेंच का क्रास - सेक्शन



ट्रेंच का ले-आउट



Loose stone checkdam (L.S.C.D)

Name of watershed: JELU GAGADI (Jodhpur-XIV)

Block:Osian **District: Jodhpur** **No.** 1

Length **9.000**

क्र.सं.	कार्य विवरण	नाप											मात्रा
1	डाग बेलिंग देना					1	X	2.00	X	9.000	=	18.000	18.000 मी.
2	नींव ट्रेंचेज में मिट्टी खुदाई का कार्य सख्त मिट्टी में			1	X	9.00	X	2.40	X	0.45	=	9.720	
				1	X	9.00	X	1.50	X	0.30	=	4.050	
		1	X	2.00	X	1.00	X	0.60	X	1.35	=	1.620	
												15.390	15.390 घ.मी.
3	सुखे पत्थर की चुनाई का कार्य 3 मी. की उचाई तक मुख्य दिवार एंव नींव हेतु			1	X	9.00	X	2.40	X	0.45	=	9.720	
				1	X	9.00	X	1.50	X	0.30	=	4.050	
	मुख्य दिवार प्रथम चरण	1	X	9.00	X	(2.4	+	0.6	) /2	X	0.75	=	10.125
	मुख्य दिवार द्वितीय चरण		1	X	2.00	X	1.00	X	0.60	X	1.35	=	1.620
												25.515	25.515 घ.मी.

Loose stone checkdam (L.S.C.D)

Name of watershed: JELU GAGADI (Jodhpur-XIV)

Block:Osian **District: Jodhpur**

L

क्र.सं.	कार्य विवरण	मात्रा	श्रम दर	कुल दर	प्रति	श्रम राशि	कुल राशि
1	डॉग बेलिंग देना	18.000	0.700	0.700	घ.मी.	12.600	12.600
2	नींव ट्रेंचेज में मिट्टी खुदाई का कार्य सख्त मिट्टी में	15.390	92.000	92.000	घ.मी.	1415.880	1415.880
3	सुखे पत्थर की चुनाई का कार्य 3 मी. की उचाई तक मुख्य दिवार एंव नींव हेतु	25.515	28.100	701.000	घ.मी.	274.327	1786.015
	Total						1914.495
	contigency 4%						772.5798
	Grand total						20087.07
						Say	20000.000

Loose stone checkdam (L.S.C.D)

Name of watershed: JELU GAGADI (Jodhpur-XIV)

Block:Osian **District: Jodhpur** **No.** 1

Length **4.000**

क्र.सं.	कार्य विवरण	नाप											मात्रा
1	डाग बेलिंग देना					1	X	2.00	X	4.000	=	8.000	8.000 मी.
2	नींव ट्रेंचेज में मिट्टी खुदाई का कार्य सख्त मिट्टी में			1	X	4.00	X	2.40	X	0.45	=	4.320	
				1	X	4.00	X	1.50	X	0.30	=	1.800	
		1	X	2.00	X	1.00	X	0.60	X	1.35	=	1.620	
												7.740	7.740 घ.मी.
3	सुखे पत्थर की चुनाई का कार्य 3 मी. की उचाई तक मुख्य दिवार एंव नींव हेतु			1	X	4.00	X	2.40	X	0.45	=	4.320	
				1	X	4.00	X	1.50	X	0.30	=	1.800	
	मुख्य दिवार प्रथम चरण	1	X	4.00	X (	2.4	+	0.6	) /2	X	0.75	=	4.500	
	मुख्य दिवार द्वितीय चरण		1	X	2.00	X	1.00	X	0.60	X	1.35	=	1.620	
													12.240	12.240 घ.मी.

Loose stone checkdam (L.S.C.D)

Name of watershed: JELU GAGADI (Jodhpur-XIV)

Block:Osian **District: Jodhpur**

क्र.सं.	कार्य विवरण	मात्रा	श्रम दर	कुल दर	प्रति	श्रम राशि	कुल राशि
1	डॉग बेलिंग देना	8.000	0.700	0.700	घ.मी.	5.600	5.600
2	नींव ट्रेंचेज में मिट्टी खुदाई का कार्य सख्त मिट्टी में	7.40	9.000	9.000	घ.मी.	72.000	72.000
3	सुखे पत्थर की चुनाई का कार्य 3 मी. की उचाई तक मुख्य दिवार एंव नींव हेतु	12.240	28.000	71.000	घ.मी.	348.400	869.240
	Total						929.240
	contigency 4%						371.9168
	Grand total						1301.157
						Say	10000.000

	No.	1
	Length	**9.000**

Loose stone checkdam (L.S.C.D)
Name of watershed: JELU GAGADI (Jodhpur-XIV)

Block:Osian **District: Jodhpur** **No.** 1

Length **6.500**

क्र.सं.	कार्य विवरण	नाप											मात्रा
1	डाग बेलिंग देना					1	X	2.00	X	6.500	=	13.000	13.000 मी.
2	नींव ट्रेंचेज में मिट्टी खुदाई का कार्य सख्त मिट्टी में			1	X	6.50	X	2.40	X	0.45	=	7.020	
				1	X	6.50	X	1.50	X	0.30	=	2.925	
		1	X	2.00	X	1.00	X	0.60	X	1.35	=	1.620	
												11.565	11.565 घ.मी.
3	सुखे पत्थर की चुनाई का कार्य 3 मी. की उचाई तक मुख्य दिवार एंव नींव हेतु			1	X	6.50	X	2.40	X	0.45	=	7.020	
				1	X	6.50	X	1.50	X	0.30	=	2.925	
	मुख्य दिवार प्रथम चरण	1	X	6.50	X (	2.4	+	0.6	) /2	X	0.75	=	7.313
	मुख्य दिवार द्वितीय चरण	1	X	2.00	X	1.00	X	0.60	X	1.35	=	1.620	
												18.878	18.878 घ.मी.

Loose stone checkdam (L.S.C.D)

Name of watershed:JELU GAGADI (Jodhpur-XIV)

Block:Osian **District: Jodhpur**

क्र.सं.	कार्य विवरण	मात्रा	श्रम दर	कुल दर	प्रति	श्रम राशि	कुल राशि
1	डॉग बेलिंग देना	13.000	0.700	0.700	घ.मी.	9100	9100
2	नींव ट्रेंचेज में मिट्टी खुदाई का कार्य सख्त मिट्टी में	11.565	92.000	92.000	घ.मी.	1063.98	1063.98
3	सुखे पत्थर की चुनाई का कार्य 3 मी. की उचाई तक मुख्य दिवार एंव नींव हेतु	187	28.000	71.000	घ.मी.	5330.08	13233.128
	Total						14306.208
	contigency 4%						572.2483
	Grand total						14878.456
						Say	15000.000

No.	1
Length	**9.000**

Scheme: IWMP

Panchayat Samiti: Osian

Watershed: JELU GAGADI……

Didtrict: Jodhpur

Gram Panchayat: JELU GAGADI……

DETAILS OF WORK AND ABSTRACT OF COST

कार्य का नाम :–पतथर की पêी से कांटेदार फेंसिंग का कार्य .....

L 3280

क.सं.	कार्य का विवरण	सं.	विशेष विवरण			मात्रा		ईकाई	दर		राशि	
			ल.	चौ.	ऊं/ग.	फीट	कुल मी.		श्रम	कुल	श्रम	कुल
1	कॉटेदार लोहे के तारे से फेन्सिग -180 सेमी उंचाई की फेन्सिग पत्थर की पêी की 3 मीटर दूरी से व 45 सेमी जमीन में सीमेन्ट कंकरीट 1:2:4 (30x 45x 60 सेमी) साथ में 6 लाईन व 2 डायोगनल लाईन में काला कॉटेवाला तार दो पोस्ट के बीच फिट व फिक्स करना जी.आई. स्टेपल तार से (मिटट्री के खुदाई का कार्य सम्मलित)	1	3280			3280						
						3280	1000	RM	15.20	231.00	15196	230941
											15196	230941

राशि		
श्रम	A	15196
सामग्री	B	215745
कुल	C	230941
Add 4% for conti. D=(C*.04)		9238
कुल C+D		240178
	Say	**240178**

सामग्री की आवश्यकता

कार्य का नाम :–पतथर की पêी से कांटेदार फेंसिंग का कार्य .....

क.सं.	कुल सामग्री आवश्यकता	ईकाई	मात्रा	दर	राशि
1	सीमेन्ट	बेग	167.0	260	43420.00
2	बजरी	घन मी.	14.00	400	5600
3	एग्रीटग 12 मिमी	घन मी.	27.00	425	11475.00
4	पत्थर की पêी	वर्ग. मी.	226.00	300	67800.00
5	कांटेदार तार	कि.ग्रा.	1085.00	50	54250.00
6	पानी व अन्य				33200.00
			कुल योग		215745

Note:-Rate has been taken from the BSR issued by Zila Parisad Jodhpurb on 8/4/2011 .

Scheme: IWMP

Watershed: ……Jelu gagadi (jodhpur XIV)….

DETAILS OF WORK AND ABSTRACT OF CO

कार्य का नाम :– एंगल आयरन से कांटेदार फेंसिंग का कार्य .....

क.सं.	कार्य का विवरण	सं.	विशेष विवरण			मात्रा		ईकाई
			ल.	चौ.	ऊं/ग.	फीट	कुल मी.	
1	कॉटेदार लोहे के तारे से फेन्सिग -180 सेमी उंचाई की फेन्सिग लोहे के पोस्ट 50x 50 x 6 मिमि के 3 मीटर दूरी से व 45 सेमी जमीन में सीमेन्ट कंकरीट 1:2:4 (30x 30x 60 सेमी) कोरनर व प्रत्येक 10 वां पोस्ट को 50x 50x 6 लोहे के पोस्ट से सपोर्ट किया हुआ साथ में 6 लाईन व 2 डायोगनल लाईन में काला कॉटेवाला तार दो पोस्ट के बीच फिट व फिक्स करना जी.आई. स्टेपल तार से (मिटट्ी के खुदाई का कार्य सम्मलित)	1	3280			3280		
						3280	1000	RM

सामग्री की आवश्यकता

कार्य का नाम :–एंगल आयरन से कांटेदार फेंसिंग का कार्य .....

क.सं.	कुल सामग्री आवश्यकता	ईकाई	मात्रा	दर	राशि
1	सीमेन्ट	बेग	167.0	260	43420.00
2	बजरी	घन मी.	14.00	400	5600
3	एग्रीटग 12 मिमी	घन मी.	27.00	425	11475.00
4	एंगल आयरन	कि.ग्रा.	4764.00	43	204852.00
5	कांटेदार तार	कि.ग्रा.	1085.00	50	54250.00
6	पानी व अन्य				16017.00

			कुल योग		335614

Note:-Rate has been taken from the BSR issued by Zila Parisad Jodhpurb on 8/4/2011 .

Panchayat Samiti: Osian

Didtrict: Jodhpur

ST

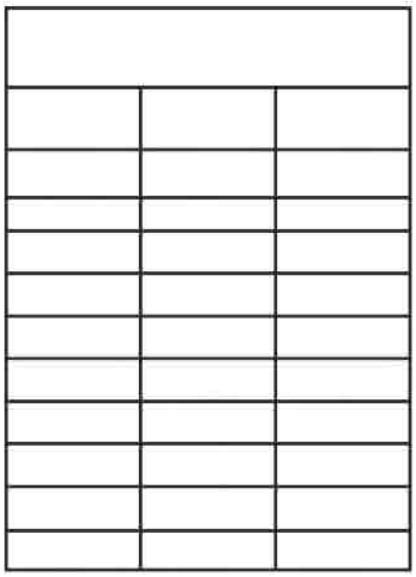
L 3280

दर		राशि		
श्रम	कुल	श्रम	कुल	
24.30	360.00	24294	359908	

24294 359908

राशि		
श्रम	A	24294
सामग्री	B	335614
कुल	C	359908
Add 4% for conti. D=(C*.04)		14396
कुल C+D		374304

Say **374304**



Construction of Waste Weir

NAME OF WATERSHED: JELU GAGADI(JODHPUR XIV) Amount : 49627

SCHEME : IWMP BLOCK: OSIAN

DETAILS OF WORK AND ABSTRACT OF COST

L of HW	Ht of SW	Ht of HW
18	5	2.5

NAME OF WATERSHED: JELU GAGADI(JODHPUR XIV)

क.सं.	कार्य का विवरण	सं.	विशेष विवरण			मात्रा		ईकाई	दर		राशि	
			ल.	चौ.	ऊं/ग.	फीट	कुल मी.		श्रम	कुल	श्रम	कुल
1	नींव, खाई तथा नाला आदि के लिए 1.5 मी. गहराई तक मिट्टी की खुदाई करना, तल को कुटना, पानी डालना बगल को संवारना, खुदी मिट्टी को बाहर निकालना नीवं भरने के बाद खाली स्थानों को पुन: मिट्टी से भरना तथा बची हुई मिट्टी को 50 मीटर की दूरी तक निस्तारण करना	2	8	3	3.25	156						
		4	3.5	3	3.25	136.5						
		1	17.5	4	3.5	245						
						0						
						0						
						0						
						537.5	15.21	cum.	92.00	92.00	1399.3	1399.3
2	सीमेन्ट कांक्रीट नींव या फर्श में 40 मि. मी. नामीय माप की पत्थर गिट्टी/ईट गिट्टी, सीमेन्ट – रेत मसाला में 1 सीमेन्ट : 4 रेत : 8 गिट्टी अनुपात में मिलाकर डालना तथा कुटाई करना, तराई समेत।	2	8	3	0.5	24						
		4	3.5	3	0.5	21						
		1	17.5	4	0.5	35						
						0						
						0						
						80	2.26	cum.	320.10	1586.00	723.43	3584.4
3	नींव तथा कुर्सी मे पत्थर की वे रद्धा–ढोका सीमेंट–बजरी 1 : 3, 1 : 6 या 1 : 8 मसाले मे, मय बगल की झिरी बन्द करना तथा तराई आदि।	2	8	2.5	2.75	110						
		4	3.5	2.5	2.75	96.25						
		2	17.5	3.5	3	367.5						
						0						
						573.75	16.23	cum.	419.80	1503.00	6813.4	24394
4	अधिरचना में सीमेंट मसाला 1:8 मे पत्थर की चुनाई का कार्य	2	8	1.25	5	100						
		4	3.5	1.5	5	105						
		1	18	2.5	2.5	112.5						
				(3+2)/2								
	योग					317.5	8.98	cum.	554.80	1641.00	4982.1	14736
5	फर्श के नीचे सुखे पत्थरो का खरंजा डालना।	1	18	2.75	0.3333	16.5						
						0						
						16.5	0.46	cum.	174.80	590.00	80.408	271.4
6	कोपिंग का कार्य C:C (1:2:4)	1	18	2.75	1	49.5						
		1	18	2	1	36						
		1	30	1.5	1	45						
						130.5	12.12	sqm.	79.80	186.00	967.18	2254.3

7	पत्थर की चुनाई पर सीमेण्ट मसाला १:६ से टीपो का कार्य	2	8	5	1	80							
		4	4	5	1	80	7.432	sqm.					
		2	18	2.5	1	90							
	उप योग					250							
	कटोतियां	2	2	2.5	1	10							
	शेष					240	22.29	sqm.	39.80	48.40	887.14	1078.8	
											15852	47718	

	Quantity	Rate	Amount
Skilled labour	24.00	325	7800
Unskilled labour	57.00	135	7695
Water			546
			16041

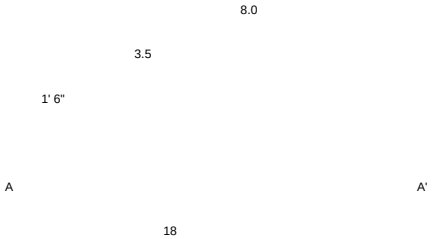
Upto plinth	सीमेंट	2	
	सीमेंट	2	

राशि		
श्रम	A	15852
सामग्री	B	31866
कुल	C	47718
Add 3% for conti. D=(C*0.04)		1908.7
dqy (C+D)		49627
Say		50000

dz-	कुल सामग्री आवश्यकता	ईकाई	मात्रा	दर	राशि	बजि	
1	चूना	कि.ग्रा.	0.0	2.25	0		
2	रेत/बजरी	घ.मी.	8.910000	380	3385.8	315	
3	गिट्टी पत्थर की 40 मि.मी. नामीय माप की	घ.मी.	2.0	400	800	70.7	
4	गिट्टी पत्थर की 20 मि.मी. नामीय माप की	घ.मी.	0.55	550	302.5	19.4	
5	पत्थर	घ.मी.	25.2	575	14490	890	
6	सीमेन्ट	कि.ग्रा.	1980.10	220	8712.44	39.6	Bag
					27690.7		
	अन्य				1908.72		
			कुल योग		29599.5		

CROSS SECTION AT A A'

Construction of Waste Weir



PLAN

Construction of Waste Weir

Scheme :- IWMP Panchayat Samiti : OSIAN
Watershed :- JELU GAGADI (JODHPUR –XIV) District :- Jodhpur

MODEL ESTIMATE FOR ANIMAL HEALTH CAMP

In western Rajasthan due to lack of rainfall the climate is very drastic. Due to which the live-stock of western Rajasthan face many problems related to their feed & to maintain their body immunity against climate. Due to which they can face many types of diseases due to unfavorable climate conditions & mostly by the owner who can use the animals till the animal can gave milk after that he cannot take care of the animals. Due to this many types of diseases like parasitic diseases it may be inner or outer, milk fever, Mastitis, Manage, tympany, Diahorria, fever, Infertility, Pyrometra, Indigestion, FMD, HS, BQ, ETV etc. are many types of diseases which the animal can generally face due to which owner can face double loss first loss of money on treatment & on effect on animal production. For this in IWMP scheme the animal health camp can be organized in the villages which can comes under this scheme. For this one or two camps at Rs. 15,000/- each is organized. Before this first the information of the camp date can be informed to the villages by various means like posters, banner, gosthi & various other means. After than camp can be organized in which free medicine can be distributed.

Besides that for the seasonal diseases & many other diseases which can be controlled through vaccination the vaccination camp can also be organized in which vaccine for various controlled diseases like FMD, HS & BQ, ETV, Sheep pox, PPR etc. animals can be vaccinated yearly or half yearly.

- **Per camp cost** :-

Medicine	-	13300/-
Rent of Jeep (for two days)	-	1100/-
Govt. Doctor or Staff	-	600/-
TOTAL	-	**15000/-**

- **General Medicine**:-
  - Antibiotic :- - inj. - OTC - 100 ml.
    - inj. - Enrocin - 100 ml.
  - Ointment :- - ont. - Loroxine - 100 g.
    - ont. - Vetmox - 50 g.
  - Cottons :- 100 gm.
    - Instruments :-
      - Catha tor
      - Trokar Canvla
      - Forseps
      - Teat Syphin
  - Bandage :- 6"
  - Syringe :- 50 ml
  - Needle :- 16"
  - Mineral Mixtuse :- pow. - Calfos Ao3 - 1 Kg.
  - Vitamin :- inj. - Vitasef

- **Primary Treatment** :-
  - P.P. - 100 g - (5)
  - Mag Sulph - 100 g - (20)
  - Soda by Carb - 100 g - (20)
  - T.T. Oil - 100 ml - (3)
  - Liq. - Notadome
  - Bolus - Feedone/Rumtrion

- **Milk Fever** :- inj. - omifex - 450 ml
  CBG - 1000 ml

- **Mastitis** :- Tub. - Penclastin & H-Z gm

- Mange :- inj. - Avil 100 ml
  inj. - Dexona/100 ml.

- Tympany :- Liq. - Afanil - 100 ml
  Bolus - Boost nix
  Bolus - Ruwinox

- Diahorria :- Bolus - Botrim
  Bolus - SDM
  inj. - Biotin3
- Fever :- inj. - proxyvet mp.
  inj. - Oxy
  Tab. - Proxivet mp.
- Inferility :- inj. - Lutalysis - 10 ml.
  Tab. - Cocuplus
  Bolus - Cyclomin -
- Pyometra/metritis :- surp. - Luracin - 60 ml.
  Liq. - Betadine 100 ml.
  Bolus - Furia/Urimine/Liton
- Indiestion :- Pow. - Soda by carb - 100 g
  Pow. - Mag. Sulph - 100 g
  inj. - Bcomplex (Belayle) 100 ml
  inj. - oxy 100 ml
- Beworning :- Pow. - Albedazole - 30 g
  Liq. - Suprazole - 1000 ml
  inj. - mect/Ivemaction - 100 ml
  Bolus - Albemor 1.5 g
  Pow. - Neilverm (Sheep & Goat)
- Vaccination :-
  - Sheep pox = .50p/dose
  - PPR = 1 Rs./dose
  - HS = 1 Rs./dose
  - BQ = 1 Rs./dose
  - FMD = 12 Rs./dose
  - ETV = .50 p/dose

Model Estimate of Tool Kit

Household Production System(for Marginal farmer and Land less labour)

Service sector- Tool Kit Specification Trade wise Detail of tools requirement in one set

1. One set of carpentry tools **COST RS. 4000/ Kit**

S.No.	Name of tools	Specification	Quantity
1	Hand saw	Size 15”	1 No
2	Hand saw	Size 12”	1 No
3	Screw driver	Size 8”x25mm	1 No
4	Combination pliers	Size 8”Make – Taparia	1 No
5	Charsi with handle	Size 25 mm	1 No
6	Charsi with handle	Size 18 mm	1 No
7	Charsi with handle	Size 10 mm	1 No
8	Wooden Randda	Big- Made of Sagwan	1 No
9	Wooden Randda	Small – Made of Sagwan	1 No
10	File half round	Make JK	1 No
11	File regular	Make JK	1 No
12	Tee Bar carpenter frame (shikanja) for wooden frame	Size 4’x2”	1 No
13	Stone silly	Size 6”- ISI Mark	1 No
14	Basola with handle	Weight 800 gram	1 No
15	Ball peen harmmer	Weight 300 gram Make Ambica	1 No
16	Cross peen hammer	Weight 500 gram – Make Ambica	1 No
17	Measurement tape	Size 10 feet- Make Freeman	1 No
18	Pincer	Size 200 mm-	1 No
19	Girmit	Size ½ “	1 No
20	Tri Square	Size 8”	1 No
21	Hand Operated drill	Size ¼ “	1 No
22	Steel box for Tools	Size(22”x11”) – G.I. sheet	1 No

2. One set of Mason tools **COST RS. 2000/ Kit**

S.No.	Name of tools	Specification	Quantity
1	Karni	Size – Big-	1 No
2	Karni	Size – small	1 No
3	Mashtar wooden	Size 36” Made of Sagwan	1 No
4	Mashtar wooden	Size 24 “ Made of Sagwan	1 No
5	Mashtar wooden	Size 15” Made of Sagwan	1 No
6	Gurmala		1 No
7	Soot		1 No
8	Sabbal	Heavy iron	1 No
9	L shape measurement (Gunia)		1 No
10	Level pipe(25 foot)	5 mm	1 No
11	Chiesal	Size 6” , 8” Make – Taparia	1 No
12	Ball pine hammer	Weight 500 gm Make – Ambica	1 No
13	Cross pine hammer	Weight 300 gm Make – Ambica	1 No
14	Aluminium rib	Size 60” x 4”x 1.5”	1 No
15	Measurement tape	Size 10 feet Make – Freemans	1 No
16	Canvas bag for above tools	Made of Heavy canvas	1 No

3 . One set of Pottery Tools **COST RS. 12000/ Kit**

S.No.	Name of tools	Specification	Quantity
1	Clay lump beating hammer	MS pat. Size – D 100 – 120 mm x T5-6mm. with iron pipe handle	1
2	Wooden hammer(Thapa)	Sheesam Wood. Size – D6-7”x T1.25”. handle- L6”	1
3	Tasla	MS Sheet. Size- D15”. SWG-20	1
4	Spade (Phawda)	MS sheet. Size L 10 “x w10”. SWGT-20. fitted with Wooden Handle	1
5	Kamdai	Wooden Size- 2”x 1-1.25” approx. Arc. Shap	
6	Pindi Cement	Various Sizes	3
7	Decoration tools	MS (Banki, Sua. Piyali. Patti)	8
8	Decoration Wheel	Size- H 16” x D 12-15”. Tripod Structure. Fitted with double Ball Bearing. Iron sheet 5 mm	1
9	Manual Potter Wheel	Outer Dia- inner plate size – D-300mm x T-20mm. T-WT- 17 kg minimum (Casted iron body). Tripod Casted Iron Structure with Ball bearing. 2 nos. of outer rings made of T or steal of 12 mm Dia. Cross Wooden Support Structure.	1
10	Electric Potter wheel	Structure dimension (25”x16”x16”) iron angle (iron angle structure 35-5) casted iron wheel dia 23”. Ball bearing -2 (6206) sealed. Shaft dia 2”. V-belt pully, WT 23-25 kg.	1

4. One set of Footwear(Mojari) Tools **COST RS. 12000/ Kit**

S.No.	Name of tools	Specification	Quantity
1	Hummer Ball Pane	Drop forged steel. Induction hardened. Seasoned wood handle. WT- 300 gms with wooden handle. Nylon hammer (L 240 mm. head size L80x D300mm)	
2	Wooden Block	Size- L 18"x W4"x T 4"	1
3	Pincer	Size – 8"	1
4	Scissors	Size- 9". Steel Body. Brass Handle	1
5	Bodam / Shoe anvil	Graded CI with 3 phases. WT – 4 kg . approx.	1
6	Cutting Blade Set (Ramp)	Steel with Wooden Handle. Size- L 150x W30X T6mm	set
7	Stitching Awl	Steel with Sheesham Wood Handle	1
8	Sharpening Stone	Size- 150x50x25mm. 109 no.	1
9	Shoe measuring Tape	Size—2' fibre/ good quality plastic material	1
10	Lock Punch Set	Steel	1
11	Eye let setting tool	Steel	1
12	Round whole punch set	Steel, Size – L 100 Range- 1 to 10	1 set(10 pcs.)
13	Design punch Set	En-9 steel. Size – L100	1 set(3 pcs.)
14	Zig zag Steel Scissors	Steel, Size- 81/2". Grooves on cutting edge.	1
15	Pattern Cutting Knife	Steel, Size – 6"	1
16	PP Block	Size- L 6" x W 6" x T 20mm	1
17	Steel Scale	Size-12" and 24"	1
18	Leather Scraping Brush	Size- 8" with wooden Handle	1
19	Adhesive Brush	Size- 10 mm. 12 mm. 25 mm	1
20	Spring Divider	Steel- Size 9"	1
21	Sant	Steel- H 6" WT – 1 kg.	1
22	Sizzeore Passing	Steel- Size 8"	1
23	Thread Cutter	Steel with plaste handle. Size- L 100 mm	1
24	Number sety	Steel	Set of 10
25	Capsol Punch	Size (8-10-12-16)	Set
26	Brush	Size 10 mm. 12mm.25mm	1
	Machine Tools		1
27	HD Flat Bad Swing Machine	31 K. Branded Company	1

5. One set of Blacksmith Tools **COST RS. 6000/ Kit**

S.No.	Name of tools	Specification	Quantity
1	Big Hammer	Ghon – 5 kg	1
2	Hammer	Ghon – 1 kg	1
3	Hammer	Ghon – ½ kg	1
4	Anvil- chouka	Ghon – 10 kg	1
5	Chisel- 3 Nos	Ghon – 1 kg,500 kg. 750gm	1
6	Meaurement tape	3 MTR	1
7	Tringle	6”	1
8	Plie Taparia	8”	1
9	Scra drive	10” Tapana	1
10	Tin	10”	1
11	Hand operated electric hand drill	-	1
12	Sansasi- flat and round	-	1
13	Table Vice	-	1
14	Haksa Frame Poland type	-	1

6 One set of Cycle Mechanic Tools **COST RS. 6000/ Kit**

S.No.	Name of tools	Specification	Quantity
1	Hammer	500gm	60.00
2	Hammer	1 kg	100.00
3	Plies	8” Taparia	180.00
4	Screw driver Taparia	6”-8”-12”	250.00
5	Pincer- 6”	6”	100.00
6	Nose plier-6”	6”	100
7	Alignment equipment cycle wheel		1000
8	Anivil – Chowka	5 kg	500.00
9	Screw wrench	10”	150.00
10	Hexa Frame polaud type		120.00
11	Spanner Set fix type 8 pcs	8 pcs	380.00
12	Electric hand drill machine		2000.00
13	Hand Skipper	10”	100.00
14	Solution		50.00
15	Water Pump Plier		100.00
16	Punch	6”	50.00
17	Hand Scissors	8”	120.00
18	Oil cane	250 gm	80.00

CHAPTER - VIII Enclosures -

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

b.Map of Jelu Gagadi (Jodhpur XIV) IWMP Project (Watershed Boundary demarcation in cadastral & Topo Sheet)

c. Counter map

d.Cadastral Map on watershed boundary

e.Land Use Land Cover map

Documents of Agreements:

Proceedings of gram sabha for DPR approval

DPR approval by Panchayat Samiti

DPR approval by district

Watershed Committee Registration certificate

GEOREFERENCED KHASRA MAP WITH CONTOUR

WATERSHED PROJECT - JODHPUR- XIV, JELU GAGADI, PANCHAYAT SAMITI - OSIAN

MACRO / MICRO WATERSHEDS NO. - [37/1,2,3,4,5], [38/1,2,3], [39/1,2,3,4,5,6,7,8]

SCHEME- IWMP (2009-10)

DISTRICT- JODHPUR

TOTAL GEOGRAPHICAL AREA- 4060 Ha.

EFFECTIVE AREA- 3061Ha.

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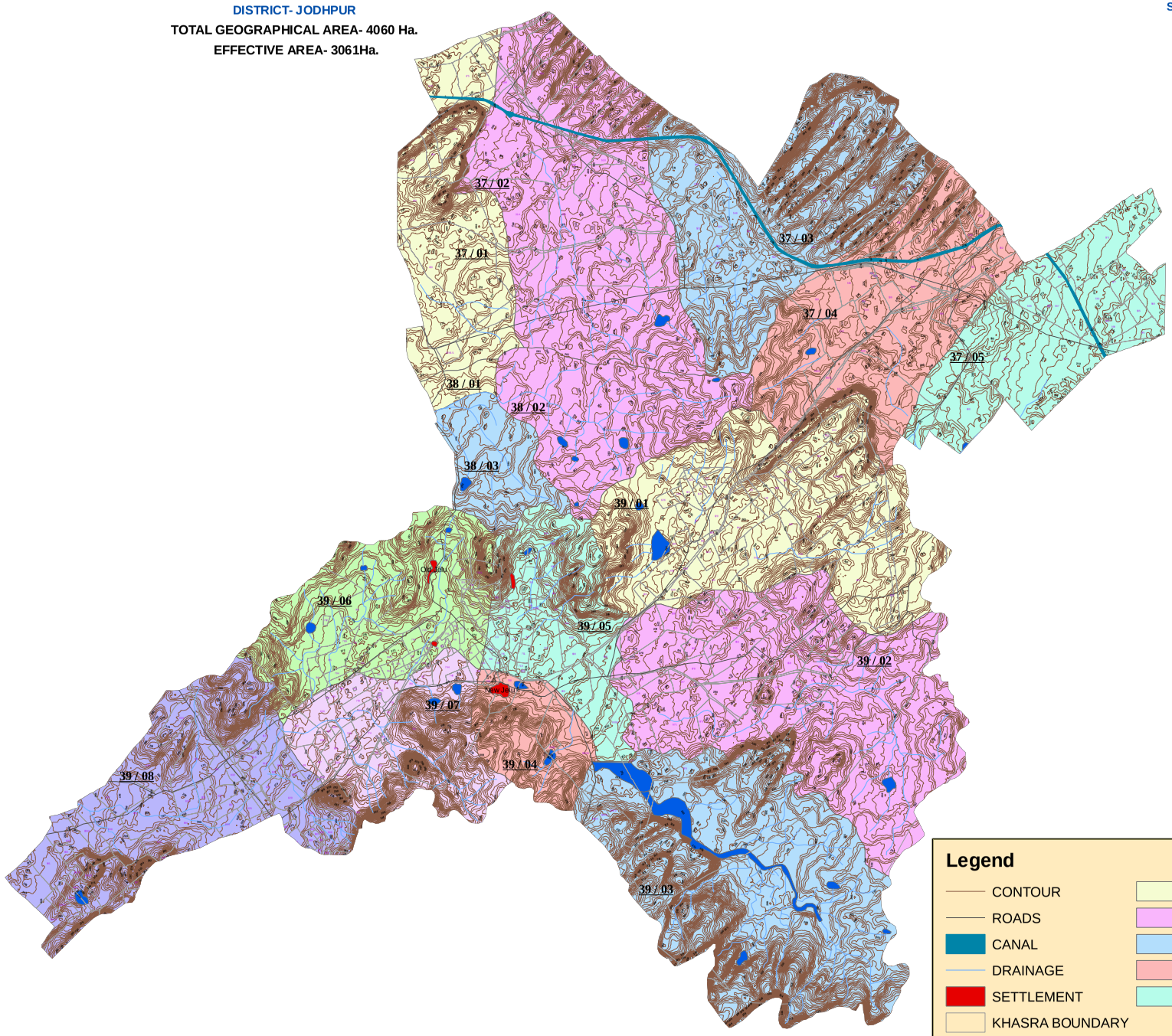
SCALE 1:10,000



Legend

- CONTOUR
- ROADS
- CANAL
- DRAINAGE
- SETTLEMENT
- KHASRA BOUNDARY
- DRAINP

MICRO

01 02 03 04 05 06 07 08

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CARTOSAT-1(MERGE) SATELLITE IMAGE

WATERSHED PROJECT - JODHPUR- XIV, JELU GAGADI, PANCHAYAT SAMITI - OSIAN

MACRO / MICRO WATERSHEDS NO. - [37/1,2,3,4,5], [38/1,2,3], [39/1,2,3,4,5,6,7,8]

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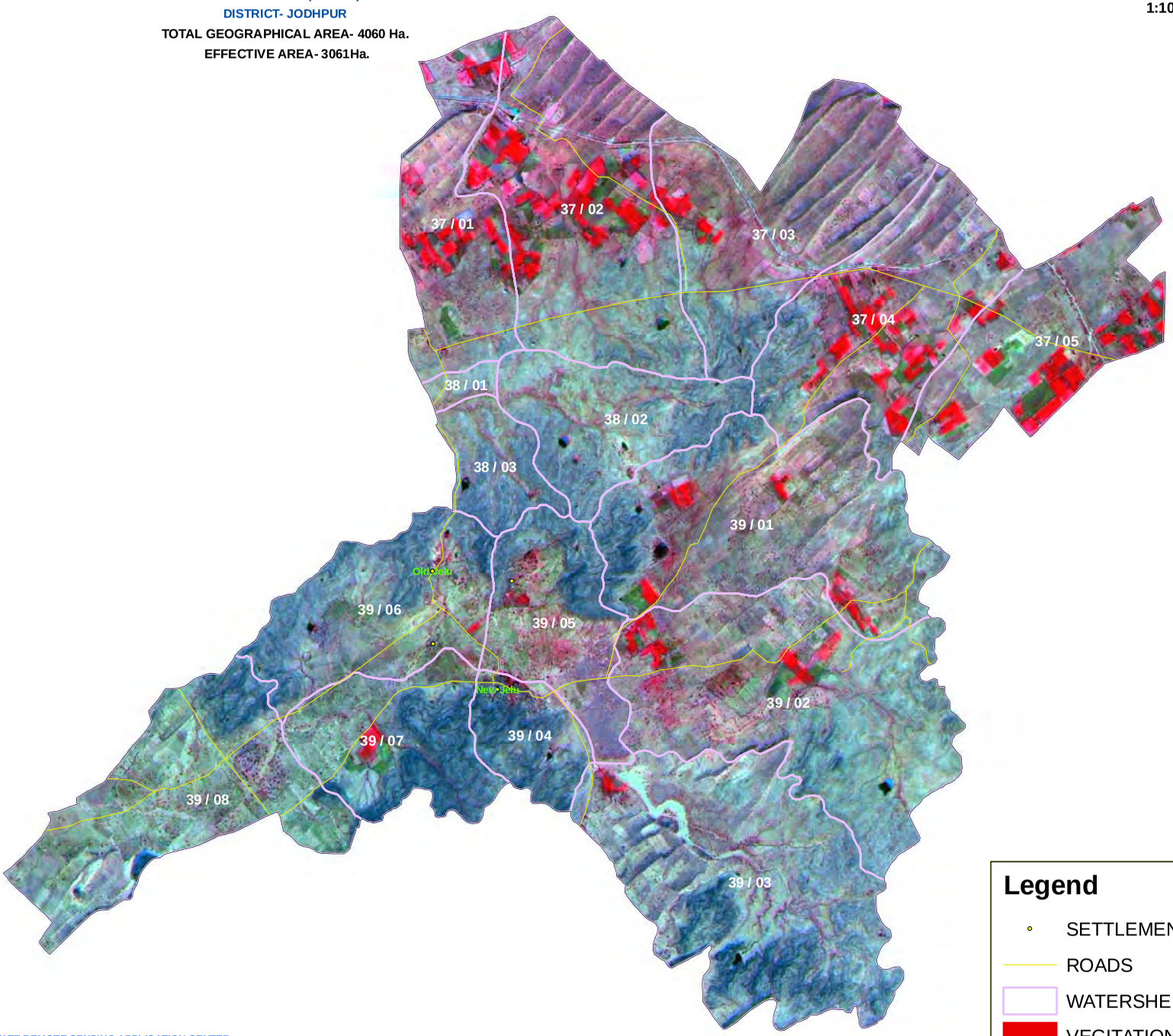

Legend

- SETTLEMENT
- ROADS
- WATERSHED
- VEGITATION

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LAND USE/ LAND COVER MAP

WATERSHED PROJECT - JODHPUR- XIV, JELU GAGADI, PANCHAYAT SAMITI - OSIAN

MACRO / MICRO WATERSHEDS NO. - [37/1,2,3,4,5], [38/1,2,3], [39/1,2,3,4,5,6,7,8]

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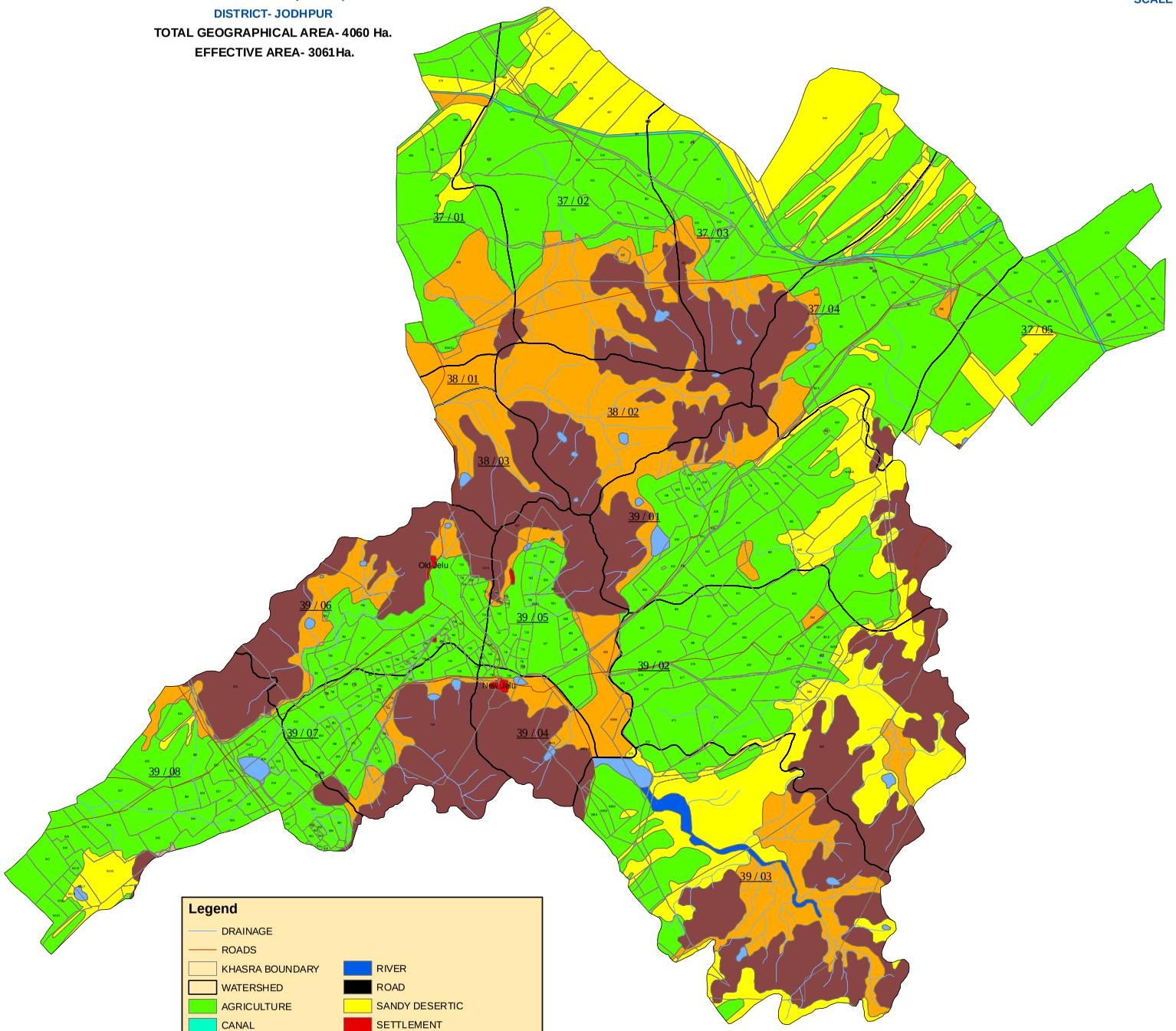

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SLOP MAP

WATERSHED PROJECT - JODHPUR- XIV, JELU GAGADI, PANCHAYAT SAMITI - OSIAN

MACRO / MICRO WATERSHEDS NO. - [37/1,2,3,4,5], [38/1,2,3], [39/1,2,3,4,5,6,7,8]

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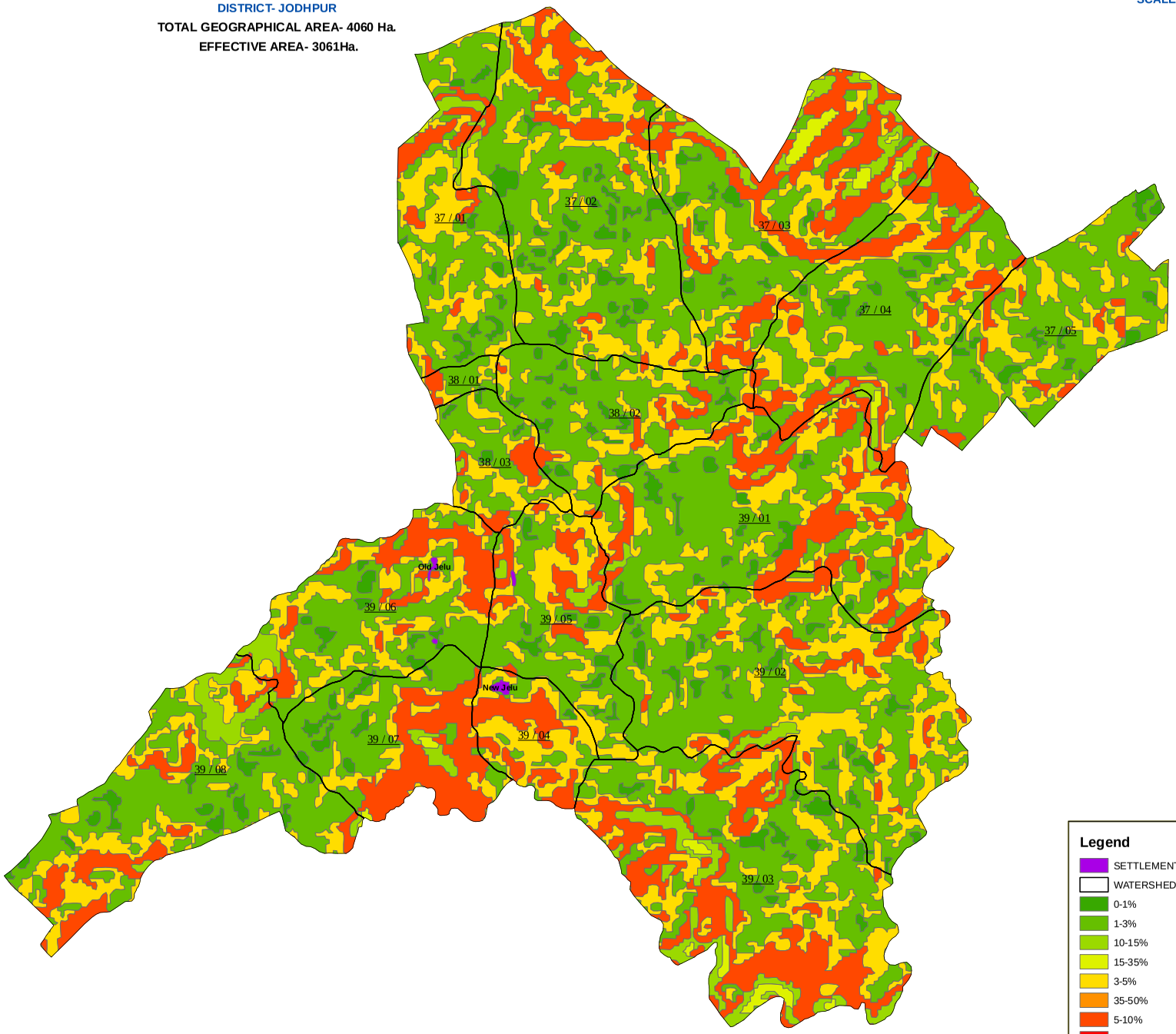
SCALE 1:10,000



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