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

DETAILED PROJECT REPORT

OF

JODHPUR-XXXII (IWMP)

(UNDER INTEGRATED WATERSHED MANAGEMENT PROGRAMME)

BLOCK: PHALODI DISTRICT : JODHPUR

AGRO CLIMATIC ZONE- 1A

TOTAL GEOGRAPHICAL AREA – 4278 Hac.

TOTAL EFFECTIVE AREA- 4200 Hac.

TOTAL COST- 695.40 Lacs.

COST FROM PROJECT FUND- 630.00Lacs

COST FROM CONVERGENCE FUND- 65.40Lacs

SUBMITTED BY

ASTT. ENGINEER, WDSC

PANCHAYAT SAMITI -PHALODI

JODHPUR, (RAJASTHAN)

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INTRODUCTION

CHAPTER - I INTRODUCTION

Location.

Matolchak (Jodhpur-32): Project is located in Phalodi Block of JODHPUR district. The project area is between the latitudes 26 56'40 TO 27 06'07N & longitudes 72 06'44 TO 73 12'47 E . It is at a distance 30 km from its Block head quarters and 160 kms from the district head quqrters. there are 2 habitations in the Project area and other details are given belove.

General features of watershed

S. No.	Name of Project (as per GOI)	Matolchak (Jodhpur - 32)
(a)	Name of catchment	Matolchak
(b)	Name of watershed area (Local name)	Matolchak
(c)	Project Area	4278 Hact.
(d)	Net Treatable Area	4200 Hact.
(e)	Cost of Project	63000000
(f)	Cost / Hectare	15000
(g)	Year of Sanction	2010-11
(h)	Watershed Code	Desert
(i)	No. of Gram Panchayat in Project Area	2
(j)	No. of villages in Project Area	2
(k)	Type of Project	Desert
(l)	Elevation (metres)	&
(m)	Major streams	&
(n)	Slope range (%)	1 to 4 %

Macro/ micro	Name of Gram Panchyat	Name of Villages Covered	Census code of villages	Area (Hact.)
	Dhadhu	Matolchak	1928800	2550
	Khara	Dayasagar	1921100	1650

The watershed falls in Agroclimatic Zone **IA .** The Soil texture is **Sandy to lomy sandy soil.** The average rainfall is **200** mm. 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,Moong, Moth, mustared ground nut, Gowar, Jeera,Lahsun, Oil sheed,Custor**. 60% land is under Cultivation, 32% land fallow, 3% land is wasteland, 3% land is irrigated through Deep tube well of 25 No. of Household are small and marginal farmers (16.36% household). Average land holding in the area is 49.60 hact. 45% area is single cropped area and 3 % is double cropped . The main soures of irrigation is Deep tube well. The averrage annual rainfall (5 years) in the area is 200 mm. The Major festivals in the village are Holy, Deepawali,Id & Rakshabandhan.At present this village is having 02 population with Communities like Bishnoi, Rajput

Climatic and Hydrological information

1	**Average Annual Rainfall (mm)**	
S.No.	Year	Average Annual Rainfall (mm)
1	2002	58
2	2003	223
3	2004	79
4	2005	111
5	2006	205.5
6	2007	210
7	2008	270
8	2009	145
9	2010	420
10	2011	293
2	**Average Monthly Rainfall (mm)**	
	Month	**Rainfall (mm)**
i	June	35.42
ii	July	101.22
iii	August	92.22
iv	Septamber	29.39

3	**Maximum rainfall intensity (mm)**			
	Duration		**Rainfall (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 Season		15	
ii	Winter Season		3.8	
iii	Rainy Season		8.8	
		Total PET	27.6	
6				
	Time of retun of maximum flood	5 year	10 years	In- Year
	Periodicity of Drought in village area	3 time in 5 year	7 time in 10 year	Alternate year

Other Development Schemes in the Project area

S.No.	Scheme	Name of the deprtment	Key interventions under the Scheme	Targated Beneficiaries	Provisions under the Scheme
1	IAY	Rural development	Avas	BPL	Construction of Avas
2	CMGY	Rural development	Avas	BPL	Construction of Avas
2	MGNREGA	Rural development	Providing employment	All section	Basic Infrastructure Development
3	SFC	Rural development	Providing employment	Village Level	Community work
4	TFC	Rural development	Providing employment	Village Level	Community work
5	SGSY	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	Benguti kallan , Raida			
ii	No. of villages provided with electricity	2			
iii	No. of households without access to drinking water	Nil			
iv	No. of educational institutions :	P	S	HS	VI
	Primary(P)/Secondary(S),HigherSecondary(HS)/vocational institution (VI)	4	Nil	Nil	Nil
V	No. of villages with access to Primary Health Centre	Nil			
vi	No. of villages with access to Veterinary Dispensary	Nil			
vii	No. of villages with access to Post office	Nil			
viii	No. of villages with access to Banks	Nil			
ix	No. of villages with access to Markets/Mandis	Nil			

x	No. of villages with access to Agro-industries		Nil			
xi	Total quantity of surplus milk		Nil			
xii	No. of milk collection centres		U	S	PA	O
	(e.g. Union(U)/Society(S)/Private agency(PA)/Others(O)		Nil	Nil	Nil	Nil
xiii	No. of villages with access to Anganwadi Centre		2			
xiv	Any other facilities with no. of village (please specify)		&			
xv	Nearest KVK		Jodhpur (Mandore)			
xvi	Cooperative socity		Dhadhu & Khara			
xvii	NGOs		Nil			
xviii	Credit institutions		Nil			
	(i) Bank		Nil			
	(ii) Cooperative Society		Dhadhu & Khara			
xix	Agro Service Centre's		Phalodi			

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

DWDU Detail

1	2	3
S.No.	**Particulars**	**Details of DWDU**
1	PM ,DWDU	Ex. 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

SLNA Detail

1	2	3
S.No.	**Particulars**	**Details of SLNA**
1	Member Secretary	Post-CEO
2	Designation and Address	Director Watershed development and soil Coservation
3	Telephone	0141-2227858
4	Fax	0141-2227189

5	E-mail	dir_wdsc@dataone.in

PIA Particulars

1	2	3
S.No.	**Particulars**	**Details of P.I.A.**
1	Name of PIA	Hanuman Ram Choudhary (A.En.)
2	Designation	A. En.
3	Address with Contact No. website	P. S. Phalodi (Jodhpur)
4	Telephone	9414319334
5	Fax	
6	E-mail	iwmp.phalodi@gmail.com

WDT Particulars

1	2	3	4	5	6	7	8
S.No.	**Name of WDT member**	**M/F**	**Age**	**Quqlification**	**Experience in watershed(Yrs)**	**Description of professional training**	**Role/Function**
1	Bhagwan Singh	M	29	B.E.Electrical	1	Engineering work	Engg. Work
2	Dinesh	M	28	Diploma in veterinary	1	Veterinary work	Veter. Work
3	Madhu Vyas	F	35	B.A..	1	Social Scientist	Social work
4	Ram kumar	M	27	M.Sc.(agri)	1	Agriculture Scientist	Agriculture work

Scheme :- IWMP

Watershed :- Matolchak (Jodhpur - 32)

Panchayat Samiti Phalodi

District : Jodhpur

Details of Watershed Committees (WC) Matolchak (Dhadhu)

S. No.	Name of WC's	Date of Gram Sabha for WCD	Date of Registration asvaSociety(dd/mm/yyyy)	Designation	Name	M/F	Name of UG/SHG	Sc/ST/OBC/General	Landless/ MF/SF/BF	Educational qualification	Khasra No.
1	Matolchak	02.02.2011	N.A.	President	RAJURAM S/O MOMTARAM	M	UG	OBC	LF	Xth	
2				Secretary	RAMNIWAS S/O BABURAM	M	UG	OBC	LF	B.A.	
3				Member	MANGLA RAM S/O KHAMU RAM	M	UG	OBC	SF	Xth	
4				Member	UDA RAM S/O LICHMAN RAM	M	UG	SC	MF	LITRATE	
5				Member	DHUDA RAM S/O KHINYA RAM	M	SHG	OBC	MF	VIIIth	
6				Member	BHARMAL RAM S/O KANA RAM	M	UG/SHG	OBC	MF	VIth	
7				Member	MEERA W/O MANA RAM	F	UG/SHG	OBC	MF	ILITRATE	
8				Member	FAGLU RAM S/O BAGTA RAM	M	UG/SHG	OBC	Land Less	VIth	
9				Member	SOMARI W/O CHENA RAM	F	UG	OBC	LF	LITRATE	
10				Member	BABU RAM S/O SANWTA RAM	M	SHG	OBC	LF	LITRATE	
11				Member	KISNA RAM S/O MISRI RAM	M	UG/SHG	OBC	MF	ILITRATE	
12				Member	PATASI W/O JAGDISH	F	UG	OBC	MF	ILITRATE	
13				Member	HANUMAN RAM CHOUDHARY	M	Departmental Engg.			B.E.	

Details of Watershed Committees (WC) Dayasagar

S. No.	Name of WC's	Date of Gram Sabha for WCD	Date of Registration asvaSociety(dd/mm/yyyy)	Designation	Name	M/F	Name of UG/SHG	Sc/ST/OBC/General	Landless/ MF/SF/BF	Educational qualification	Khasra No.
1	Dayasagar	03.02.2011	N.A.	President	BHIKARAM S/O HARDAS RAM	M	UG	OBC	LF	Xth	
2				Secretary	LADU RAM S/O PANCHA RAM	M	UG	OBC	LF	M.A.	
3				Member	DHANA RAM S/O HARINGA RAM	M	UG	OBC	SF	VIth	
4				Member	BHAGWATI W/O BIRDA RAM	F	UG	OBC	MF	ILITRATE	
5				Member	SHANTI W/O RAJESH KUMAR	F	SHG	OBC	MF	LITRATE	
6				Member	GANGA VISHAN S/O DHANA RAM	M	UG/SHG	OBC	MF	VIth	
7				Member	DHIMA RAM S/O LAKHA RAM	M	UG/SHG	OBC	MF	Xth	
8				Member	MOHINI W/O ARJUN RAM	F	UG/SHG	OBC	Land Less	LITRATE	
9				Member	SAHI RAM S/O DHANA RAM	M	UG	OBC	LF	Vth	
10				Member	SUNDA RAM S/O MAGA RAM	F	SHG	OBC	LF	VIth	
11				Member	HAJARI RAM S/O CHENA RAM	M	UG/SHG	OBC	MF	VIth	
12				Member	HANUMAN RAM CHOUDHARY	M	Departmental Engg.			B.E.	

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 150 hact. Land is arable wasteland and 35 hact. is fallow can be brought under cultivation. 88.99 hact. is only irrigated and with efforts this can be increased to 500 .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 improvedpackage of practices,improved varieties,increased irrigation facilities and soil conservation measures under the project can bridge this gap. Due to smal land holdings in the area focus of the project would be on diversification in agriculture (horticulture,vegitables,green housees,Agro forestry,fodder crops) and diversification in Livelihoods (Agriculture, Animal husbandry, self employment) 38300 Quantal fodder scarcity can be met out through Pasture development. Improved animal Husbandry practices can increase the productivity of livstock. 45 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.

CHEPTER-II

Sosio economic

FEATURE,

PROBLEMS AND

SCOPE

CHEPTER-II Sosio economic Features, Problems and Scope

Tabe 2.1 Population & Household Details :

Total Population				
Male	**Female**	**Total**	**SC**	**ST**
1128	**1062**	**2190**	**0**	**0**

Household Details						
BPL household	**Land less**	**Small Farmer**	**Marginal Farmer**	**Total household**	**SC household**	**ST household**
36	**2**	**132**	**24**	**298**	**0**	**0**

Table 2.2 Development indicators

S.No.	Development Indicators	State	Project Area
1	Per capita income (Rs.)	16260	8550
2	Poverty Ratio	0.22	0.33
3	Literacy (%)	60.40%	30%
4	Sex Ratio	921	899
5	Infant mortality Ratio		63/1000
6	Maternal mortality Ratio		4/1000

Table indicates poor socio economic conditions

Table 2.3 Land Use

Land Use	**Total area in Hact.**				
	Private	**Panchayat**	**Government**	**Community**	**Total**
Agriculture Land	**4165**	**&**	**&**	**&**	**4165**
Temporary follow	**25**	**&**	**&**	**&**	**25**
permanent follow	**10**	**&**	**&**	**&**	**10**
Cultivated Rainfed	**4065**	**&**	**&**	**&**	**4065**
Cultivated Irrigated	**100**	**&**	**&**	**&**	**100**
Net Sown area	**4165**	**&**	**&**	**&**	**4165**
Net area sown more than once	**100**	**&**	**&**	**&**	**100**
Forest Land	**0**	**&**	**&**	**&**	**0**
Waste Land	**25**	**25**		**&**	**25**
Pastures Land	**10**		**10**	**&**	**10**
Others	**0**	**&**	**&**	**&**	
Total		**&**	**&**	**&**	**4200**

The project area has 25 Hact. Of cultivable wasteland 35 Hact. Of fallow land (Total 35 Hact.) can be brought under cultivation if some irrigation source can be provided through Construction of WHS like Khadin, Tanka, Farm pond etc. and also through demnstration of rainfed varieties of crops. Construction of WHS can also increase in area under irrigation which is only 100 Hact. (2 %). 35 Hact. (1 %) is under wasteland s and can be brought under vegitative filter strip, V-ditches, staggered trenches, WHS (Johad) Afforestation of wastelands and Pasture development will be taken up on these land.

Pasture development the land use table shows that there is 10. Hectare pasture land (0.2%) 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	Reinfed				Irrigated				Total	
			Varieties	Area (Hact)	Production (Tone)	Productivity(qt./ha.)	Varieties	Area (Hact)	Production (Tone)	Productivity(qt./ha.)	Area (Hact)	Production (Tone)
1	Kharif	Bajara	WCC75 RSB2 RJ 171	2380	1428	6		0	0	0	2380	1428
		Moong	K851 RMG 62 SML 668 G-8	234	46.8	2		0	0	0	234	46.8
		Moth	RMO 40 RMO435	514	154.2	3		0	0	0	514	154.2
		Till	RT 127 RT 125 RT 46	4	0.8	2		0	0	0	4	0.8
		Gowar	RGC 936 RGC 986 RGC1003 HG 563 M 83	928	278.4	3		0	0	3	928	278.4
		Mongphali	M 13 GG 20 GG 10 M 335	0	0	4		58	23.2	4	58	23.2
		Caster	GCH 4 RHC 8 Jayoti Mayco 6	0	0	0		27	13.5	5	27	13.5

		Chilly	NP 46A Mathania Long Jawar 218	0	0	0		0	0	0	0	0
		Gajar	Pusa Kesar Nentis Pusa Mandakani(S-5)	0	0	0		0	0	0	0	0
2	Rabi	Wheat	LOC 1 RJ 3077 HD 2329 RJ 1282	0	0	0	LOC 1 RJ 3077 HD 2329 RJ 1282	0	0	18	5.6	10.08
		Mustered	Bio 902 RH 819 RN 505 T.59 (Varuna)	0	0	0	Bio 902 RH 819 RN 505 T.59 (Varuna)	0	0	12	40.1	48.12
		Jeera	RS-1 RZ-19 RZ-209	0	0	0	RS-1 RZ-19 RZ-209	15		4	15	124
		Lahsoon	Ymuna White G-1,2 (G- 50) Gujrat	0	0	0	Ymuna White G-1,2 (G-50) Gujrat	0	0	0	0	0
3	Zaid	Rayda		0	0	3		0	0	0	0	0
		Taramira		5	1	2		0	0	0	5	1
				0	0	0		0	0	0	0	0
	Total			**4065**	**1909**			**100**	**36.7**		**4165**	**1945.9**

Table 2.4.b Abstract of cropped Area (hact.)	
Area under Single crop	4065
Area under Double crop	100
Area under Multiple crop	Nil

****Write for each crops :** The farmers are using **WCC 75. RJ 171** varieties of Bajra, where as varieties like **MH169, RHB 121** can increase the production.

Crop Rotation ** will vary from project to project

Fallow	&	Moth
Bajra	&	Jeera
Gawar	&	Lahsun
Fallow	&	Caster
Fallow	&	Groundnut
Ground nut	&	Wheet
Fallow	&	Moong
Cluster Bean	&	Fallow
Fallow	&	Tarameera
Till	&	Fallow
Caster	&	Caster
Moth	&	Fallow

The table 2.3 shows that only 100 hact. Is (2 %) 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)

S.No.	Name of the crop	India	Htghest Average in Rajasthan	District	Project Area
1	Bajra	802	655	750	540
2	Moong	317	159	320	280
3	Moth	144	122	270	310
4	Wheat	2619	2762	2150	0
5	Till	310	149	270	89
6	Gawar	510	525	515	500

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

The reasons for this variation are :-

1 The farmers are using vaing varieties WCC 75 of Bajara R1 171 whereas the recommended varities like **MH169, RHB 121** provided 7 qt./hact. Yield(write for all crops)

2 Lack of Availibility of good quality seeds of desired crop and variety in adequate quantities and time to the farmers.

3 Availability of water for cultivation (5 % is irrigated)

The productivity gap and reasons of indicate potential to increase the productivity through crop demonstration. Crop demonstrations would be carried out on improved crop/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/Vegitables/Floriculture(hact.)

Activity	Area	Species	Varieties	Recommended varieties	Production
Horticulture	&	&	&	&	&
	&	&	&	&	&
	&	&	&	&	&
Vegitable	&	&	&	&	&
	&	&	&	&	&
	&	&	&	&	&
Floriculture	&	&	&	&	&
	&	&	&	&	&
	&	&	&	&	&
Medicinal Plants	&	&	&	&	&

Table 2.6 Land holding Pattern in project area

S.No.	Type of Farmer	Total House Holds	Land holding(hact.) irrigation source wise			Land holding (hact.) Social group wise				
			Irrigated(source)	Rainfed	Total	General	SC	ST	OBC	BPL
i	Large farmer	85	58	1275	1333	210	&	&	1335	0
ii	Small farmer	133	33	1519	1552	379	&	&	1240	85
iii	Marginal farmer	78	9	735	744	349	&	&	535	418
iv	Landless person	2	0	0	0	0	&	&	0	0
v	No. of BPL house hold	36	0	536	536	32	&	&	85	33
vi	Total	298	100	4065	4165	970	0	0	3195	536

2885 hact. Land holding belong to small and marginal farmers who own 55% of total cultivated area 4165 Hact. Horticulture/vegetables could be more economical to small & 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/ vegitables 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, Issabgol, Ashwagandha, Khus, Mehandi etc.

Agro forestry plantation:-

To increase the income of farmers and also for shelter belt plantation as wind velocity is hight 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 wich 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 vegitables 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/ Contry. 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.Storage structure like Onion storage ,fodder storage and grain storage can be constructed.

Drip irrigation:-

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

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

S.No.	Description of animal	Population in No.	Yield (Milk/Mutton/Wool)	Equ. Cow unit	Dry matter requirement per year (7 kg/animal)	Total requirement in M.T.
1	Cows	2364	9456 lit/day	4 lit/day	16548 kg	16.55 Tone
	Indigenous	2364	9456 lit/day	4 lit/day	16548kg	16.55 Tone
	Hybrid	0	0	&	0	0
2	Buffaloes	340	2040 lit/day	6 lit/day	2380 kg	2.38 Tone
3	Goat	0	0 lit/day	Population/2	0 kg	0Tone
4	Sheep	0	wool 16192 lb/year	16 lb/ year	0 kg	0Tone
5	Camel	6	&	&	42 kg	0.04 Tone
6	Poultry	0	&	NA	&	&
7	Piggery	0	&	NA	&	&
	TOTAL	5074		&	&	18.97

6924.05 Tone per year

In spite of 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
Baffalo-Murrah,

Besides breed improvement other animal husbandry practices like batter 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 (hact.)

S.No.	Item	Unit	Area/Quantity
1	**Existing Cultivable area under Fodder**	**Hact.**	**1800**
2	**Production of Green fodder**	**Tone/year**	**&**
3	**Production of Dry fodder**	**Tone/year**	**5400**
4	**Area under Pastures**	**Hact.**	_
5	**Production of fodder**	**Tone/year**	_
6	**Existing area under Fuel wood**	**Hact.**	**NIL**
7	**Supplementary feed**	**Kgs / day**	**&**
8	**Silage Pits**	**No.**	**&**
9	**Availability of fodder**	**Tones**	**5400**
10	**Deficiency / excess of fodder**	**Tones**	**1524.05Tone**

The 2.7 table above shows there is fodder deficiency (Requirement is 6924.05 tone and availability 5400 tones)

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 producttivity 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 Imlements :-

1	2	3
S.No.	**Implements**	**Nos.**
1	Tractor	55
2	Sprayers-manual / power	18
3	Cultivators / Harrows	55
4	Seed drill	18
5	Any other trolley	45

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

S.No.	Name of village	Total No. of Job card	Employment Status	Activity taken up so far
1	Matolchak	239	158	Road & Nadi
2	Dayasagar	330	154	

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)
Matolchak	**75**	**8 to 10 month**	**Driver/Salsman/ Mason**	**450**	**Driver/Salsman/Mason**	**29.00**
Dayasagar	**18**	**9 to 10 month**	**Driver/Salsman/ Mason**	**455**	**Driver/Salsman/Mason**	**8.00**

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 / Lacs**

Cultivators	298	98.5
Dairying	&	&
Poultry	&	&
Piggery	&	&
Landless Agri. Labourers	2	0.67

Table 2.12 (b) Major activities (Off Farm)		
Name of activity	**No. of House holds/individuals**	**Average annual income from the / Lacs**
Artisans	5	0.3
Carpenter	7	4.20
Black smith	3	1.80
Leather Craft	10	3.60
Porter	30	9.50
Mason	100	36.00
Others specify(Cycle Repair, STD, Craft etc)	60	8.00

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.	No. of SHG	Members	Activity involved	Monthly income	Fund available	Assistance available	Source of assistance	Training received
1	5	70	&	2500		&	&	2

The table indicates existance 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.	Functionall depth	Dry	Area irrigated	Water availablity(days)
i	Dug wells	1	Nil	&	Nil	&
ii	Shallow tube wells	Nil	Nil	&	&	&

iii	Pumping sets	Nil	Nil	&	&	&
iv	Deep tube wells	35	400'	&	100hact	12 Month
	Total	35				

Table 2.15 Availability of drinking water :-

S.No.	Name of the village	Drinking water requirement Lts/day	Present availibility of drinking ltrs/day	No. of drinking water sources available	No. functional	No. requires repaires	No. defunctional
1	Matolchak	70000 lits	40000 lits	2 T.W.	2	&	&
2	Dayasagar	20000 lits	10000 lits	2 T.W.	2	&	&

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 specify)
Wheat	6.6/kg/ha/mm	2.5	_
Maize	5.5/kg/ha/mm	2.5	_
Vegitable	22.22/kg/ha/mm	10	_

- The table 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 %	5000

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

Table 2.18 Water Budgeting :-

Table 2.18(a) Total available runoff (cum) use Stranges table :-

Area	Type of Catchment	Yield of runoff from catchment per hect. (cum.) use Stranges table	Total Runoff(cum.)
	Average	42.64	179088

	Total		179088

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

S.No.	Name	No.	Storage Capacity (cum)	Area irrigated (hect.)
i	Major irrigation Project	Nil	&	&
ii	Medium irrigation Project	Nil	&	&
iii	Farm Pond / Tanks (Nadi)	4	22135	&
iv	Anicuts	Nil	&	&
	Tatal	Nil	&	&

Table 2.18(c) Details of Proposed Structure for Surface Water Storage :-

S.No.	Name	No.	Storage Capacity (cum)	Area irrigated (hect.)
i	Major irrigation Project	Nil	&	&
ii	Medium irrigation Project	Nil	&	&
iii	Farm Pond / Tanks	280	5600	&
iv	Anicuts	Nil	&	&
	Total		5600	

Table 2.18(d) Balance available runoff (cum) :-

Total runoff (cum)	179088
Net tapped Runoff (cum)	27735
Balnce Runoff (cum)	151353
Percentage of water stored w.r.t. runoff	15.49

The water budgeting indicates potential for water harvesting in the area.

The need is :-

- To check land degration
- 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 developedcattle tracks
- To check Deforestation of steep slopes
- Tocheck 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 stabilistion, Loose stone check dams, Gabions, Earthen embankment (Nadi) and Anicuts would be taken up.

Table 2. 19 Soil details

A	**Soil Prifile**	
S.No.	Major Soil Classes	Area in hectares
1	Sandy to loamy sand soils	5000
2		
B	**Soil Depth**	
	Depth (Cms)	Area in hectares
1	0.00 to 7.50	5000
2	7.5 to 45.00	5000
3	>45.00	5000

C	Soil fertility Status	Kg/hect.	Recommended
	N	0.52 to 0.22	&
	P	2.7 to 15.55	&
	K	16.00 to 28.00	&
	Micronutrients	PPM	&
	Iron	4.8 to 9.5	&
	MN	63.8 to 13.5	&
	CU	0.85 to 1.9	&
	Zn	0.8 to 2.2	&

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 (hect.)**	**Runoff (mm/year)**	**Average soil loss (Tonnes/hect/year)**
Water erosion				
a	Sheet	4550	250	3 to 7
b	Rill	450	250	3 to 5
c	Gully			
Sub Total				
Wind erosion		100		4 to 8
Total for Project				3 to 8

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, Groupmeetings, door to door compaogn, slogans, and wall writings etc. were carried out in all the habitations of Benguti kallan watershed. A seriese of meetings were conducted with GP members, community and discussed about the implementation of IWMP programme. User groups were also formed.

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

S.No.	Name of the Gram Panchayat	Date of which Gram Shabha approved EPA
1	Dhadhu	02.02.2011
2	Khara	25.03.11

S.No.	Name of Village	Amount earmarked for EPA	Entry Point Activities planned	Estimated cost in lac.	Expenditure incurred	Balance	Expected outcome	Actual outcome
1	2	3	4	5	6	7	8	9
1	Matolchak		1.Instalation of Solar light DGSC item No. 15	3.82	0	3.82		Villagers are very happy
			2.Drinking water activities	11.47	11.35	0.12		
2	Dayasagar		1.Instalation of Solar light DGSC item No. 10	2.48	2.48	0.00	&	
			2.Drinking water activities	7.43	7.40	0.03		
	Total w/s		&	25.20	21.23	3.97		

S.No.	Name of the village/ Habitation	Date on which PRA conducted
1	Matol chak	10 -11-2011 to 20-06-2012
2	Dayasagar	10 -11-2011 to 20-06-2012

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

Transaot 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 25 -03- 2011 to 31- 07-2011 period covering all the households and primary data on demography, Land holdings, Employmeng 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 detabase depicting present conditions of land (terrain), water and vegitation with respect to watershed under different ownerships at village level.

Various thematic layers provided by SRSAC are:-

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

Based on GIS thematic layers, Field visits, PRA and analysis of benchmark data (as discussed in chapter 2) final Treatment plan on revenue map for implementation has been framed. Thus each intervention identified has been marked on revenue map (map enclosed in DPR as annexture..8.2). The GIS based intervention map, PRA based intervention map are annexed as..8.1.

PROPOSED DEVELOPMENTAL PLAN

CHAPTER III

CONSOLIDATED DEVELOPMENT PLAN (PROJECT & OTHER SCHEME

	STATE : RAJASTHAN	**GEOGRAPHICAL AREA: 4278 Hact.**			
	DISTRICT: JODHPUR	**EFFECTIVE AREA : 4200 Hact.**			
	NAME OF THE BLOCK: PHALODI	**(i) ARABLE LAND**	**4165**		
	NAME OF WATERSHED:Jodhpur -32 (IWMP)	**(ii) NON ARABLE LAND: 35 Hact.**			
	CATEGORY OF WATERSHED: Desert Area	**COST FROM IWMP PROJECT:**			630.00
		COST FROM CONVERGENCE:			65.40
		Consolidated			695.40
				Total Cost in Lakh:	695.40

S.No.	Activitiy	Unit	Total Target		GP-B.Kallan		GP-Khara	
			Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
A I	Administration cost	10%		63.00		38.25		24.75
II	Monitoring	1%		6.30		3.83		2.47
III	Evaluation	1%		6.30		3.83		2.47
IV	Preparatory Phase (Entry Point Activity)	4%		25.20		15.30		9.90
V	Institution and Capacity Building	5%		31.50		19.13		12.37
VI	Preparation of Detailed Project Report (DPR)	1%		6.30		3.83		2.47
	Total	22%		138.60		84.17		54.43
B	**Watershed Development Works (NRM)**	56%						
I	**Arable Land Conservation Measures**							
1	Earthen Bund	Hact	1009	110.95	600	66.00	409	44.95
2	Gully Control Structure (L.S.C.D.)	No.	23	2.30	7	0.70	16	1.60
3	Water Harvesting Tanka	No.	280	279.40	171	170.70	109	108.70
4	Wasteweir	No.	10	5.00	5	2.50	5	2.50
5	Percolation tank / Recharging well		2	2.00	1	1.00	1	1.00
6	Diggi /Hauge		8	4.00	4	2.00	4	2.00
	Total			403.65		242.90		160.75
II	**Non Arable Land Conservation Measures**							
1	Ditch Cum Bund /Barbed wire Fencing	Mt	1400	4.30	0	0.00	1400	4.30
2	Contour Furrow in Pasture Land	Hact	10	1.25	0	0.00	10	1.25
3	Contour Furrow in Non Arable Land	Hact	0	0.00	0	0.00	0	0.00
4	Earthen Bund	No.	10	1.00	0	0.00	10	1.00
5	Tanka	No.	8	8.00	4	4.00	4	4.00
	Total			14.55	0	4.00	0	10.55

	Total Watershed Development Works			418.20		246.90	0	171.30
C	**Production System**	10%						
I	Arable Land Production System							
1	Crop/Fooder Demonstration	No.	250	12.50	176	8.77	124	3.73
2	Agro Forestry	No.	12000	2.25	6000	1.13	6000	1.12
3	Dry land Horticulture and Medicinal plant	No.	44	13.00	33	9.75	22	3.25
4	Homestead Kitchen Garden	No.	136	1.36	100	1.00	36	0.36
5	Organic Farming				0	0.00	0	0.00
	i Compost Pit	No.	300	3.00	250	2.50	50	0.50
	ii Vermi Compost Unit	No.	30	3.00	20	2.00	10	1.00
	Total			35.11		25.15		9.96
II	**Non Arable Land Production System**							
1	Plantation in Pasture land and along DLT.	No.	5000	5.85	0	0.00	5000	5.85
2	Over seeding in Pasture Land	Hact	10	0.24	0	0.00	10	0.24
3	Over seeding in Non Arable Land	Hact	0	0.00	0	0.00	0	0.00
	Total			6.09		0.00		6.09
III	**Live Stock Management**							
1	Animal Health Camps	No.	20	4.80	20	3.60	20	1.20
2	Mangers Distribution	No.	500	5.00	500	3.50	500	1.50
3	Cattlecare and Fodder storage centre	No.	2	10.00	2	5.00	2	5.00
4	Bull Distribution	No.	4	2.00	4	1.00	4	1.00
	Total			21.80		13.10		8.70
	Total Production System			63.00		38.25		24.75
D	**Livelyhood**	9%		0.00		0.00		0.00
1	**Revolving fund to SHG (>60% of 9%)**	No.	163	40.75		40.75		40.75
2	**Revolving fund to Enterperising Individual(10% of 9%)**	No.	27	6.75	27.00	6.75	-13.50	-33.75
3	**Grant in aid to federation of SHG (30% of 9%)**	No.	10	20.00	10.00	20.00	30.00	40.00
	Total			67.50		67.50		67.50
E	**Consolidation**	3%		18.90		11.47		7.43
	Grand Total			695.40		415.22		280.18

CHAPTER III

PROPPOSED DEVELOPMENT PLAN THROUGH PROJECT FUND

STATE : RAJASTHAN | **UNIT COST: Rs. 15000/- Per Hact.**

DISTRICT: JODHPUR | **GEOGRAPHICAL AREA: 4278 Hact.**

NAME OF THE BLOCK: PHALODI | **EFFECTIVE AREA : 4200 Hact.**

NAME OF WATERSHED:Jodhpur -32 (IWMP) | **(i) ARABLE LAND : 4165 Hact.**

CATEGORY OF WATERSHED: Desert Area | **(ii) NON ARABLE LAND : 35 Hact.**

EFFECTIVE AREA MATOLCHAK : 2550 Ha | **COST FROM IWMP PROJECT: 630.00**

EFFECTIVE AREA DAYASAGAR : 1650 Ha

Total Cost in Lakh: 630.00 Lakh

S.No.	Activitiy	Unit	Total Target		GP-DHADHU		GP-Khara	
			Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
A I	Administration cost	10%		63.00		38.25		24.75
II	Monitoring	1%		6.30		3.83		2.47
III	Evaluation	1%		6.30		3.83		2.47
IV	Preparatory Phase (Entry Point Activity)	4%		25.20		15.30		9.90
V	Institution and Capacity Building	5%		31.50		19.13		12.37
VI	Preparation of Detailed Project Report (DPR)	1%		6.30		3.83		2.47
	Total	22%		**138.60**		**84.17**		**54.43**
B	**Watershed Development Works (NRM)**	56%						
I	**Arable Land Conservation Measures**							
1	Earthen Bund	No.	809	88.95	500	55.00	309	33.95
2	Gully Control Structure	No.	23	2.30	7	0.70	16	1.60
3	Water Harvesting Tanka	No.	240	240.00	151	151.00	89	89.00
4	Wasteweir	No.	10	5.00	5	2.50	5	2.50
5	Percolation tank / Recharging well	No.	2	2.00	1	1.00	1	1.00
6	Diggi /Hauje							
	Total			**338.25**		**210.20**		**128.05**
II	**Non Arable Land Conservation Measures**							
1	Ditch Cum Bund /Barbed wire Fencing	Mt	1400	4.30	0	0.00	1400	4.30
2	Contour Furrow in Pasture Land	Hact	10	1.25	0	0.00	10	1.25
3	Contour Furrow in Non Arable Land	Hact						
4	E.C.D.	No.	10	1.00	0	0.00	10	1.00
5	Tanka	No.	8	8.00	4	4.00	4	4.00
	Total			**14.55**		**4.00**		**10.55**
	Total Watershed Development Works			352.80		214.20		138.60
C	**Production System**	10%						
AA **I**	Arable Land Production System							
1	Crop/Fooder Demonstration	No.	250	12.50	176	8.77	124	3.73
2	Agro Forestry	No.	12000	2.25	6000	1.13	6000	1.12
3	Dry land Horticulture and Medicinal plant	No.	44	13.00	33	9.75	22	3.25
4	Homestead Kitchen Garden/Manger/Grain storage bin	No.	136	1.36	100	1.00	36	0.36
5	Organic Farming							
	i Compost Pit	No.	300	3.00	250	2.50	50	0.50
	ii Vermi Compost Unit	No.	30	3.00	20	2.00	10	1.00
	Total			**35.11**		**25.15**		**9.96**
II	**Non Arable Land Production System**							
1	Plantation in Pasture land and along DLT.	No.	5000	5.85	0	0.00	5000	5.85
2	Over seeding in Pasture Land	Hact	10	0.24	0	0.00	10	0.24
3	Over seeding in Non Arable Land	Hact						
	Total			**6.09**		**0.00**		**6.09**
III	**Live Stock Management**							
1	Animal Health Camps	No.	20	4.80	15	3.60	5	1.20
2	Mangers Distribution	No.	500	5.00	350	3.50	150	1.50
3	Cattlecare and Fodder storage centre	No.	2	10.00	1	5.00	1	5.00
4	Bull Distribution	No.	4	2.00	2	1.00	2	1.00
	Total			**21.80**		**13.10**		**8.70**
	Total Production System			63.00		38.25		24.75

D	**Livelyhood**	9%						
1	**Revolving fund to SHG (>60% of 9%)**	No.	125	31.25	82	20.43	43	10.82
2	**Revolving fund to Enterperising Individual(10% of 9%)**	No.	22	5.45	16	4.00	8	1.45
3	**Grant in aid to federation of SHG (30% of 9%)**	No.	10	20.00	5	10.00	5	10.00
	Total			56.70		34.43		22.27
E	**Consolidation**	3%		**18.90**		**11.47**		**7.43**
	Grand Total			**630.00**		**382.52**		**247.48**

CHAPTER III

PROPPOSED DEVELOPMENT PLAN THROUGH CONVERGENCE

STATE : RAJASTHAN

DISTRICT: JODHPUR

NAME OF THE BLOCK: PHALODI

NAME OF WATERSHED:Jodhpur -32 (IWMP)

CATEGORY OF WATERSHED: Desert Area

GEOGRAPHICAL AREA: 4278 Hact.

EFFECTIVE AREA : 4200 Hact.

(i) ARABLE LAND : 4165Hact.

(ii) NON ARABLE LAND : 35Hact.

COST FROM CONVERGENCE: 65.40

Lakh

S.No.	Activitiy	Unit	Total Target		GP: Dhadhu		GP:Khara	
			Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
A I	Administration cost	10%	&	0		0		
II	Monitoring	1%	&	0		0		
III	Evaluation	1%	&	0		0		
IV	Preparatory Phase (Entry Point Activity)	4%	&	0		0		
V	Institution and Capacity Building	5%	&	0		0		
VI	Preparation of Detailed Project Report (DPR)	1%	&	0		0		
	Total	22%	&	0		0		
B	**Watershed Development Works (NRM)**	56%						
I	**Arable Land Conservation Measures**							
1	Earthen Bund	Hact	200	22.00	100	11.00	100	11
2	Gully Control Structure (Loose. Stone. Check. Dam.)	No.						
3	Water Harvesting Tanka	No.	40	39.40	20	19.7	20	1
4	Wasteweir	No.						
5	Percolation tank / Recharging well							
6	Diggi/ Hauje	No.	8	4.00	4	2.00	4	2
	Total			65.40		32.7		3
II	**Non Arable Land Conservation Measures**							
1	Ditch Cum Bund /Barbed wire Fencing	Mt						
2	Contour Furrow in Pasture Land	Hact						
3	Contour Furrow in Non Arable Land	Hact						
4	Earthen Bund	No.						
5	Tanka							
	Total							
	Total Watershed Development Works			65.40		32.70		32
C	**Production System**	10%						
I	**Arable Land Production System**							
1	Crop/Fooder Demonstration							
2	Agro Forestry	No.						
3	Dry land Horticulture and medicinal plant	No.						
4	Homestead Kitchen Garden	No.						
5	Organic Farming							
	i Compost Pit	No.						
	ii Vermi Compost Unit	No.						
	Total							
II	**Non Arable Land Production System**							
1	Plantation in Pasture land and along DLT.	No.						
2	Over seeding in Pasture Land	Hact						
3	Over seeding in Non Arable Land	Hact						
	Total							
III	**Live Stock Management**							
1	Fodder Demonstration	No.						
2	Mangers Distribution	No.						
3	Animal Health Camps	No.						
4	Bull distribution							
	Total							

1	**Revolving fund to SHG (>60% of 9%)**	No.						
2	**Revolving fund to Enterperising Individual(10% of 9%)**	No.						
3	**Grant in aid to federation of SHG (30% of 9%)**	No.						
	Total							
E	**Consolidation**							
	Grand Total			65.40		32.70		32.

ABSTRACT OF COST

CHAPTER IV

ACTIVITY WISE TOTAL ABSTRACT COST

STATE : RAJASTHAN

DISTRICT: JODHPUR — **GEOGRAPHICAL AREA: 5560 Hact.**

NAME OF THE BLOCK: PHALODI — **EFFECTIVE AREA : 5000 Hact.**

NAME OF WATERSHED:Jodhpur -34 (IWMP) — **(i) ARABLE LAND : 4760 Hact.**

CATEGORY OF WATERSHED: Desert Area — **(ii) NON ARABLE LAND : 240Hact.**

COST FROM IWMP PROJECT : 750.00 Lacs

COST FROM CONVERGENCE : Total Cost :

S.No.	Activitiy	Unit	Quantity	Unit Cost	Total Cost	Cost from Project	Cost from Convergence	Beneficiary contribution*
A I	Administration cost	10%			75.00	75.00		
II	Monitoring	1%			7.50	7.50		
III	Evaluation	1%			7.50	7.50		
IV	Preparatory Phase (Entry Point Activity)	4%			30.00	30.00		
V	Institution and Capacity Building	5%			37.50	37.50		
VI	Preparation of Detailed Project Report (DPR)	1%			7.50	7.50		
	Total	22%			165.00	165.00		
B	**Watershed Development Works (NRM)**	56%						
I	**Arable Land Conservation Measures**							
1	Earthen Bund	No.	1278		140.55	118.55	22.00	
2	Gully Control Structure (Loose. Stone. Check. Dam.)	No.	24		2.40	2.40		
3	Water Harvesting Tanka	No.	290		289.40	250.00	39.40	
4	Wasteweir	No.	10	50000/nos.	5.00	5.00		
5	Percolation tank / Recharging well	No.	5	1 lakh/nos.	5.00	5.00		
6	Diggi/Hauje	No.	8		4.00		4.00	
	Total				446.35	380.95	65.40	
II	**Non Arable Land Conservation Measures**							
1	Ditch Cum Bund / Barbed wire Fencing	Mts.	4500		13.80	13.80		
2	Contour Furrow in Pasture Land	Hact.	100	1225	12.25	12.25		
3	Contour Furrow in Non Arable Land	Hact.	100	1225	12.25		12.25	
4	E.C.D.	No.	50	10000	5.00	5.00		

5	Tanka	No.	8	100000	8.00	8.00		
	Total				51.30	39.05	12.25	
	Total Watershed Development Works				497.65	420.00	77.65	
C	**Production System**	10%						
I	**Arable Land Production System**							
1	Crop/Fooder Demonstration	No.	300	5000	15.00	15.00		
2	Agro Forestry	No.	16000		3.00	3.00		
3	Dry land Horticulture & Medicinal plantation	No.	44	30000	13.00	13.00		
4	Homestead Kitchen Garden	No.	300	1000	3.00	3.00		
5	Organic Farming							
	i Compost Pit	No.	200	2000	4.00	4.00		
	ii Vermi Compost Unit	No.	20	10000	2.00	2.00		
	Total				40.00	40.00		
II	**Non Arable Land Production System**							
1	Plantation in Pasture land and along DLT line.	No.	9275		10.85	10.85		
2	Over seeding in Pasture Land	Hact.	100	2350/hac.	2.35	2.35		
3	Over seeding in Non Arable Land	Hact.	100	2350/hac.	2.35		2.35	
	Total				15.55	13.20	2.35	
III	**Live Stock Management**							
1	Animal Health Camps	No.	20	24000/camp	4.80	4.80		
2	Mangers Distribution	No.	250	2000/nos	5.00	5.00		
3	Cattlecare and fodder storage centre	No.	2	5lakh/nos	10.00	10.00		
4	Bull Distribution	No.	4	50000/nos.	2.00	2.00		
	Total				21.80	21.80		
	Total Production System				75.00	75.00		
D	**Livelyhood**				67.50	67.50		
E	**Consolidation**	3%			22.50	22.50		
	Grand Total				830.00	750.00	80.00	

* Tentative and will vary during time of execution according to beneficiary

Rates will be taken prevailing at the time of execution of work

PROPOSED

ANNUAL

ACTION PLAN

CHAPTER V

ANNUAL ACTION PLAN CONSOLIDATED

STATE : RAJASTHAN

DISTRICT: JODHPUR

NAME OF THE BLOCK: PHALODI

NAME OF WATERSHED:Jodhpur -34 (IWMP)

CATEGORY OF WATERSHED: Desert Area

IRRIGATION PERCENTAGE : 10%

GEOGRAPHICAL AREA: 5560 Hact.

EFFECTIVE AREA : 5000 Hact.

(i) ARABLE LAND : 4760 Hact

(ii) NON ARABLE LAND : 240 Hact.

TOTAL

COST THROUGH CONSOLIDATE FUND :

S.No.	Activitiy	Unit	Quantity	Unit cost	Total cost	I st Year		II st Year		III st Year		IV st Year		V st Year		VI st Year		VII st Year	
						Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
A I	Administration cost	10%			75.00		5.75		12.75		12.75		12.75		12.75		10.00		8.25
II	Monitoring	1%			7.50		0.25		0.50		0.75		1.00		2.00		2.00		1.00
III	Evaluation	1%			7.50		0.25		0.50		0.75		1.00		2.00		2.00		1.00
IV	Preparatory Phase (Entry Point Activity)	4%			30.00		5.00		25.00										
V	Institution and Capacity Building	5%			37.50		5.00		20.00		12.50								
VI	Preparation of Detailed Project Report (DPR	1%			7.50		2.50		2.50		0.50		0.50		0.50		0.50		0.50
	Total	22%			165.00		18.75		61.25		27.25		15.25		17.25		14.5		10.75
B	**Watershed Development Works (NRM)**	56%																	
I	**Arable Land Conservation Measures**																		
1	Earthen Bund	No.	1278	11000/ha	140.55		0.00		0.00	300	33.00	500	55.00	300	33.00	178	19.55	0	0.00
2	Gully Control Structure (Loose. Stone. Check. Dam.)	No.	24	10000/no	2.40		0.00		0.00	10	1.00	10	1.00	4	0.40	0	0.00	0	0.00
3	Water Harvesting Tanka	No.	290	1lac/nos	289.40		0.00		0.00	120	119.70	120	119.70	50	50.00	0	0.00	0	0.00
4	Wasteweir	No.	10	50000/no	5.00		0.00		0.00	5	2.50	5	2.50	0	0.00	0	0.00	0	0.00
5	Percolation tank/ Recharging well	No.	5	1 lakh/no	5.00					0	0.00	3	3.00	2	2.00	0	0.00	0	0.00
6	Diggi/Hauje	No.	8	50000/no	4.00					4	2.00	4	2.00	0	0.00	0	0.00	0	0.00
	Total				446.35		0.00		0.00		158.20		183.20		85.40		19.55		0.00
II	**Non Arable Land Conservation Measures**																		
1	Ditch Cum Bund / Barbed wire Fencing	Mts.	4500		13.80		0.00		0.00	2500	7.67	2000	6.13		0.00		0.00		0.00
2	Contour Furrow in Pasture Land	Hact.	100		12.25		0.00		0.00	50	6.25	50	6.00		0.00		0.00		0.00
3	Contour Furrow in Non Arable Land	Hact.	100		12.25		0.00		0.00	50	6.25	50	6.00		0.00		0.00		0.00
4	Earthen Bund	No.	50		5.00		0.00		0.00	20	2.00	30	3.00		0.00		0.00		0.00
5	Tanka	No.	8		8.00		0.00		0.00					4	4.00	4	4.00		0.00
	Total				51.30		0.00		0.00		22.17		21.13		4.00		4.00		0.00
	Total Watershed Development Works				497.65		0.00		0.00		180.37		204.33		89.40		23.55		0.00

C	**Production System and Micro Enterprise**	19%																		
I	**Arable Land Production System**																			
1	Crop/Fooder Demonstration	No.	300	5000	15.00					0		300	15.00							
2	Agro Forestry	No.	1600		3.00					0		800	1.50	800	1.50					
3	Dry land Horticulture & medicinal plantation	No.	44	30000	13.00					12	3.50	12	3.50	15	4.50	5	1.50			
4	Homestead Kitchen Garden/Grain Storage bin	No.	300	1000	3.00					100	1.00	100	1.00	100	1.00					
5	Organic Farming																			
	i Compost Pit	No.	200	2000	4.00					50	1.00	50	1.00	50	1.00	50	1.00			
	ii Vermi Compost Unit	No.	20	10000	2.00					50	0.50	5	0.50	5	0.50	5	0.50			
	Total				40.00						6.00		22.50		8.50		3.00			
II	**Non Arable Land Production System**																			
1	Plantation in Pasture land and along DLT line.	No.	9275		10.85					7000	4.79	2275	3.56		1.00		0.75		0.75	
2	Over seeding in Pasture Land	Hact.	100		2.35					50	1.10	50	1.25							
3	Over seeding in Non Arable Land	Hact.	100		2.35					50	1.10	50	1.25							
	Total				15.55						6.99		6.06		1.00		0.75		0.75	
III	**Live Stock Management**																			
1	Animal Health Camps	No.	20	24000	4.80					4	0.96	4	0.96	4	0.96	4	0.96	4	0.96	
2	Mangers Distribution	No.	250	2000	5.00					50	1.00	50	1.00	50	1.00	50	1.00	50	1.00	
3	Cattle care and fodder storage center		2	500000	10.00							1	5.00	1	5.00					
4	Bull Distribution	No.	4	50000	2.00							2	1.00	2	1.00					
	Total				21.80						1.96		7.96		7.96		1.96		1.96	
	Total Production System				77.35						14.95		36.52		17.46		5.71		2.71	
D	**Livelihood**	9%																		
	Revolving fund to SHG (>60% of 9%)	No.	163	25000/no	40.75					24	6.00	37	9.25	44	11.00	44	11.00	14	3.50	
	Revolving fund to Enterperising Individual (10% of 9%)	No.	27	25000/no	6.75					20	5.00	7	1.75	0	0.00	0	0.00			
	Grant in aid to federation of SHG (30% of 9%)	No.	10	2.00lakh/	20.00					2	4.00	2	4.00	2	4.00	2	4.00	2	4.00	
	Total				67.5						15.00		15.00		15.00		15.00		7.50	
E	Consolidation	3%			22.5										7.50		7.50		7.50	
	Grand Total				830.00		18.75		61.25		237.57		271.10		146.61		66.26		28.46	

CHAPTER V

ANNUAL ACTION PLAN THROUGH PROJECT FUND

STATE : RAJASTHAN

DISTRICT: JODHPUR

NAME OF THE BLOCK: PHALODI

NAME OF WATERSHED:Jodhpur -34 (IWMP)

CATEGORY OF WATERSHED: Desert Area

IRRIGATION PERCENTAGE : 10%

GEOGRAPHICAL AREA: 5560 Hact.

EFFECTIVE AREA : 5000 Hact.

(i) ARABLE LAND : 4760 Hact

(ii) NON ARABLE LAND : 240 Hact.

TOTAL

COST THROUGH PROJECT FUND :

S.No	Activitiy	Unit	Quantity	Unit cost	Total cost	I st Year		II st Year		III st Year		IV st Year		V st Year		VI st Year		VII st Year	
						Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.
A I	Administration cost	10%			75.00		5.75		12.75		12.75		12.75		12.75		10.00		8.25
II	Monitoring	1%			7.50		0.25		0.50		0.75		1.00		2.00		2.00		1.00
III	Evaluation	1%			7.50		0.25		0.50		0.75		1.00		2.00		2.00		1.00
IV	Preparatory Phase (Entry Point Activity)	4%			30.00		5.00		25.00										
V	Institution and Capacity Building	5%			37.50		5.00		20.00		12.50								
VI	Preparation of Detailed Project Report (DPR)	1%			7.50		2.50		2.50		0.50		0.50		0.50		0.50		0.50
	Total	22%			165.00		18.75		61.25		27.25		15.25		17.25		14.50		10.75
B	**Watershed Development Works (NRM)**	56%																	
I	**Arable Land Conservation Measures**																		
1	Earthen Bund	No.	1078	11000/ha	118.55		0.00		0.00	200	22.00	400	44.00	300	33.00	178	19.55		0.00
2	Gully Control Structure (Loose. Stone. Check. Dam.)	No.	24	10000/nos	2.40		0.00		0.00	10	1.00	10	1.00	4	0.40				0.00
3	Water Harvesting Tanka	No.	250	1lac/nos	250.00		0.00		0.00	100	100.00	100	100.00	50	50.00				0.00
4	Wasteweir	No.	10	50000/nos	5.00		0.00		0.00	5	2.50	5	2.50		0.00				0.00
5	Percolation tank /Recharging well	No.	5	1 lakh/nos	5.00							3	3.00	2	2.00				
6	Diggi/Hauje	No.																	
	Total				380.95		0.00		0.00		125.50		150.50		85.40		19.55		0.00
II	**Non Arable Land Conservation Measures**																		
1	Ditch Cum Bund / Barbed wire Fencing	Mts.	4500		13.80		0.00		0.00	2500	7.62	2000	6.18		0.00		0.00		0.00
2	Contour Furrow in Pasture Land	Hact.	100		12.25		0.00		0.00	50	6.25	50	6.00		0.00		0.00		0.00
3	Contour Furrow in Non Arable Land	Hact.					0.00		0.00						0.00		0.00		0.00
4	Earthen Bund	No.	50		5.00		0.00		0.00	20	2.00	30	3.00		0.00		0.00		0.00
5	Tanka	No.	8		8.00		0.00		0.00					4	4.00	4	4.00		0.00
	Total				39.05		0.00		0.00		15.87		15.18		4.00		4.00		0.00
	Total Watershed Development Works				420.00		0.00		0.00		141.37		165.68		89.40		23.55		0.00
C	**Production System**	10%																	
I	**Arable Land Production System**																		
1	Crop/Fooder Demonstration	No.	300	5000	15.00					0		300	15.00						

2	Agro Forestry	No.	16000		3.00					0		800	1.50	800	1.50					
3	Dry land Horticulture & Medicinal plantation	No.	44	30000	13.00					12	3.50	12	3.50	15	4.50	5	1.50			
4	Homestead Kitchen Garden/Grain Storage bin	No.	300	1000	3.00					100	1.00	100	1.00	100	1.00					
5	Organic Farming																			
	i Compost Pit	No.	200	2000	4.00					50	1.00	50	1.00	50	1.00	50	1.00			
	ii Vermi Compost Unit	No.	20	10000	2.00					50	0.50	5	0.50	5	0.50	5	0.50			
	Total				40.00						6.00		22.50		8.50		3.00			
II	**Non Arable Land Production System**																			
1	Plantation in Pasture land and along DLT line.	No.	9275		10.85					7000	5.79	2275	2.56		1.00		0.75		0.75	
2	Over seeding in Pasture Land	Hact.	100		2.35					50	1.10	50	1.25							
3	Over seeding in Non Arable Land	Hact.																		
	Total				13.20						6.89		3.81		1.00		0.75		0.75	
III	**Live Stock Management**																			
1	Animal Health Camps	No.	20	24000	4.80					4	0.96	4	0.96	4	0.96	4	0.96	4	0.96	
2	Mangers Distribution	No.	250	2000	5.00					50	1.00	50	1.00	50	1.00	50	1.00	50	1.00	
3	Cattle care and fodder storage center		2	500000	10.00							1	5.00	1	5.00					
4	Bull Distribution	No.	4	50000	2.00							2	1.00	2	1.00					
	Total				21.80						1.96		7.96		7.96		1.96		1.96	
	Total Production System				75.00						14.85		34.27		17.46		5.71		2.71	
D	**Livelihood**	9%																		
	Revolving fund to SHG (>60% of 9%)	No.	163	25000/no.	40.75					24	6.00	37	9.25	44	11.00	44	11.00	14	3.50	
	Revolving fund to Enterperising Individual (10% of 9%)	No.	27	25000/no.	6.75					20	5.00	7	1.75	0	0.00	0	0.00			
	Grant in aid to federation of SHG (30% of 9%)	No.	10	2.00lakh/n	20.00					2	4.00	2	4.00	2	4.00	2	4.00	2	4.00	
	Total				67.5						15.00		15.00		15.00		15.00		7.50	
E	Consolidation	3%			22.5										7.50		7.50		7.50	
	Grand Total				750.00		18.75		61.25		198.47		230.20		146.61		66.26		28.46	

CHAPTER V

ANNUAL ACTION PLAN THROUGH CONVERGENCE FUND

STATE : RAJASTHAN
DISTRICT: JODHPUR
NAME OF THE BLOCK: PHALODI
NAME OF WATERSHED:Jodhpur -34 (IWMP)
CATEGORY OF WATERSHED: Desert Area
IRRIGATION PERCENTAGE : 10%

GEOGRAPHICAL AREA: 5560 Hact.
EFFECTIVE AREA : 5000 Hact.
(i) ARABLE LAND : 4760 Hact
(ii) NON ARABLE LAND : 240 Hact.
TOTAL
COST THROUGH CONVERGENCE FUND :

S.No.	Activitiy	Unit	Quantity	Unit cost	Total cost	I st Year		II st Year		III st Year		IV st Year		V st Year		VI st Year		VII st Ye	
						Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fin.	Phy.	Fi
A I	Administration cost	10%																	
II	Monitoring	1%																	
III	Evaluation	1%																	
IV	Preparatory Phase (Entry Point Activity)	4%																	
V	Institution and Capacity Building	5%																	
VI	Preparation of Detailed Project Report (DPR)	1%																	
	Total	22%																	
B	**Watershed Development Works (NRM)**	56%																	
I	**Arable Land Conservation Measures**																		
1	Earthen Bund	No.	200	11000/ha	22.00		0		0	100	11.00	100	11.00		0		0.00		
2	Gully Control Structure (Loose. Stone. Check. Dam.)	No.																	
3	Water Harvesting Tanka	No.	40		39.40		0		0	20	19.70	20	19.70						
4	Wasteweir	No.																	
5	Percolation tank/ Recharging well	No.																	
6	Diggi/Hauje	No.	8	50000/no	4.00					4	2.00	4	2.00						
	Total				65.40	0.00	0.00	0.00	0.00		32.70		32.70	0.00	0.00	0.00	0.00	0.00	
II	**Non Arable Land Conservation Measures**																		
1	Ditch Cum Bund / Barbed wire Fencing	Mts.																	
2	Contour Furrow in Pasture Land	Hact.																	
3	Contour Furrow in Non Arable Land	Hact.	100		12.25		0		0	50	6.25	50	6.00		0		0		
4	Earthen Bund	No.																	
5	Tanka	No.																	
	Total				12.25		0		0		6.25		6		0		0		
	Total Watershed Development Works				77.65		0.00		0.00		38.95		38.70		0.00		0.00		

2	Agro Forestry	No.																	
3	Dry land Horticulture (Unit)	No.																	
4	Homestead Kitchen Garden/Grain Storage bin	No.																	
5	Organic Farming																		
	i Compost Pit	No.																	
	ii Vermi Compost Unit	No.																	
	Total																		
II	**Non Arable Land Production System**																		
1	Plantation in Pasture land and along DLT line.	No.																	
2	Over seeding in Pasture Land	Hact.																	
3	Over seeding in Non Arable Land	Hact.	100		2.35					50	1.1	50	1.25						
	Total				2.35						1.1		1.25		0		0		
III	**Live Stock Management**																		
1	Animal Health Camps	No.																	
2	Mangers Distribution	No.																	
3	Cattle care and fodder storage center																		
4	Bull Distribution	No.																	
	Total				0.00						0		0		0		0		
	Total Production System				2.35						1.1		1.25		0		0		
D	**Livelihood**	9%																	
	Revolving fund to SHG (>60% of 9%)	No.																	
	Revolving fund to Enterperising Individual (10% of 9%)	No.																	
	Grant in aid to federation of SHG (30% of 9%)	No.																	
	Total																		
E	Consolidation	3%																	
D	**Livelihood**	9%																	
E	**Consolidation**	3%																	
	Grand Total				80.00		0		0		40.05		39.95		0		0		

Prosed Development Plan

CHAPTER – VI EXPECTED OUT COMES

	2		3	4	5	
	Item		**Unit of measurement**	**Pre-project Status**	**Expected Post-project Status**	**Re**
	Status of water table (Depth to Ground water level)		Meters	172	170	Due to Increa Deep Tube w
	Ground water structures repaired/ rejuvenated		No.	-		
	Quality of drinking water		Description	Unsatisfactory	Satisfactory	
	Availability of drinking water		Description	9 Month	12 month	
	Change in irrigated Area		Ha	100	450	
	Change in cropping/ land use pattern		Description	2020	1200	
	Area under agricultural crop		Ha			
	I	Area under single crop	Ha	4065	5560	
	Ii	Area under double crop	Ha	100	450	
	Iii	Area under multiple crop	Ha	-	-	
	Change in cultivated Area		Ha	-	-	
r	Yield of Bajra		q/ha	6	8	
	Yield of Wheat		q/ha	18	21	
	Yield of Gram		q/ha	-	-	
	Yield of Mustard		q/ha	12	14	
f	Production of Bajra		ton	48.12	52.50	
f	Production of Wheat		ton	10.08	15.20	
	Production of Gram		ton	-	-	
	Production of Mustard		ton	8.40	12.20	
	Area under vegetation		Ha	-		
	Area under horticulture		Ha	-		
	Area under fuel		Ha	-		
	Area under Fodder		Ha	-		
	Fodder production		M.T.	5400	6840	
	Milk production		Litres/day	2756	4350	
	SHGs Active		No.	2	45	
	No. of livelihoods		No.	-	-	
	Income		Rs.in la	-	-	
	Migration		No.	70	20	
	SHG Federations formed		No.	Nil	5	

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

CHAPTER VII TECHNICAL DESIGNS AND ESTIMATES

Technical designs and estimates for proposed activities. Estimates are prepared on the basis of GKN of Jodhpur district.

CHAPTER - VIII Enclosures -

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

b.Map of Nevra Road IWMP Project (Watershed Boundary demarcation in cadastral & Topo Sheet)

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

d.Treatment map (Indicate proposed works)

e.Cadastral Map on watershed boundary

f.Land Use Land Cover map

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

h.High resolution, latest Remote Sensing Satellite data

8.2 **Documents of Agreements:**

Proceedings of gram sabha for EPA approval

Proceedings of gram sabha Resolution for committee constitution

Proceedings of gram sabha for DPR approval

DPR approval by district

Watershed Committee Registration certificate.

ekMy ,LVheV

DETAILS OF WORK AND ABSTRACT OF COST

dk;l dk uke%& Vkdk] feêh dk cU/k] ik/kk jki.k o vkxkj fuek.k (xkykdkj fpukbZ e)

ykxr %& 0.98 **yk[k**

d-l-	dk; dk fooj.k	l-	fo'k"k fooj.k			ek=k		bdkb	nj			jkf'k		
			y-	pk-	Ä@x-	QhV	dy eh-		vd'ky	dy Je	dy	vd'ky	dy Je	dy
1	uho] [kkb rFkk ukyk vkfn d fy, 1-5 eh- xgjkb rd feêh dh [knkb djuk] ry dk dVuk] ikuh Mkyuk cxy dk lokjuk] [knh feêh dk ckgj fudkyuk uho Hkju d ckn [kkyh LFkkuk dk iu% feêh l Hkjuk rFkk cph gb feêh dk 50 ehVj dh njh rd fuLrkj.k djuk	0.786	182.25	_	7.5	1074.36								
		2	1.4	1.5	2	8.40								
						0.00								
						0.00								
						0.00								
						0.00								
						0.00								
						0.00								
				;kx		1082.76	30.64	?k-eh-	82.50	90.00	90.00	2527.8	2757.6	2757.6
2	vkbVe 1 e 1-5 ehVj vfrfjDr mBku (Lift)	0.786	182.25	_	2.58	369.58								
						369.58	10.46	?k-eh-	10.60	10.60	10.60	110.88	110.88	110.88
3	lheV dkØhV uho e 40 fe-eh- ukeh; eki dh iRFkj dh fxêh lheV jr elkyk 1 lheV % 5 jr % 10fxêh vuikr e feykdj] Mkyuk rFkk dVkb djuk] rjkb lerA	0.786	182.25	_	0.5	71.62								
		2	1.4	1.5	2	8.40								
						0.00								
						0.00								
				;kx		80.02	2.26	?k-eh-	283.30	328.30	1674.00	640.26	741.96	3783.24
4	uho rFkk dlh e iRFkj dh o j)k&<kdk fpukb lheV&ctjh 1 % 6 elky e] e; cxy dh f>jh cUn djuk rFkk rjkb vkfnA	0.786	56.25	_	9.5	420.02								
						0.00								
						0.00								
				;kx		420.02	11.89	?k-eh-	186.20	505.70	1999.00	2213.92	6012.77	23768.11
5	iRFkj d ikV dh vkifr dj] fpukb e mi;kx dh xb elky e ml yxkukA	2	10	0.5	1	10.00								
						0.00								
				;kx		10.00	0.28	?k-eh-	43.20	572.00	572.00	12.1	160.16	160.16
6	vi0M [kku dh iVVh dh Nr Nr d nkuk d rjQ fle.V 1:4 l Hkjuk 2 eh Liku	0.786	12.5	12.5	_	122.81								
		-1	2	2	_	-4.00								
				;kx		118.81	11.04	o-eh-	13.30	298.30	701.00	146.83	3293.23	7739.04
7	50 eh- eh- ekVkb e lheV ddhV 1%2%4 feJ.k 12 eheh-fxVVh d lkFk	0.786	12.5	12.5	_	122.81								
		0.786	10	10	_	78.60								

	feykdj Mkyuk dvuj ncuk rFkk rjkb vkfn ler	-1	2	2	_	-4.00								
				;kx		197.41	18.34	o-eh-	30.60	98.10	226.00	561.2	1799.15	4144.84
8	lheV lykLVj nhokj ij 1:4 vuikr e lheV&ctjh feykdj dj tkMk dk djnu rFkk rjkb lfgr 25 fe-eh- eA	3.143	10	_	9.5	298.59								
						0.00								
						0.00								
				;kx		298.59	27.74	o-eh-	25.30	83.80	145.00	701.82	2324.61	4022.3
9	iRFkj dh pukb ij lhe.V elkyk 1:3 l Vhik dk dk;	3.143	12.5	_	3	117.86								
						0.00								
				;kx		117.86	10.95	o-eh-	13.60	49.60	60.00	148.92	543.12	657
10	22 xt dh lknk ,e- ,l- pnnj d nk iYy oky njokt] ftle ykg dh 40x40x3 fe-eh- d dkfu;k ykg dh pkjoV rFkk iYyk e 25x25x3 fe-eh- d dkfu;k ykg(Angle Iron) d fdukj fn, x, uD'k d vulkj e; vxy fpVduh rFkk idM ifê;k d vkifr o yxku	1	2	2	_	4.00								
						0.00								
						0.00								
						0.00								
						0.00								
						0.00								
						0.00								
				;kx		4.00	0.37	o-eh-	33.30	145.80	1409.00	12.32	53.95	521.33
11	(S&F)Hand pump set with G.I. pipe	1	_	_	_	1.00								
				;kx		1.00	1.00	ux			1500.00	0	0	1500
12	uho] [kkb rFkk ukyk vkfn d fy, 1-5 eh- xgjkb rd feêh dh [knkb djuk] ry dk dVuk] ikuh Mkyuk cxy dk lokjuk] [knh feêh dk ckgj fudkyuk uho Hkju d ckn [kkyh LFkkuk dk iuh feêh l Hkjuk rFkk cph gb feêh dk 50 ehVj dh njh rd fuLrkj.k djuk	3137.81	_	_	_	3137.81								
						0.00								
						0.00								
						0.00								
						0.00								
						0.00								
						0.00								
						0.00								
						0.00								
						0.00								
a.	(22/7)/4X60X60X(2.5+0.5)/2=	4242.86				0.00								
b.	(22/7)/4X12.5X12.5X(0+0.5)/2=	30.692				0.00								
	a-b=	4212.17				0.00								
	QTY.=(a-b)-(22/7)/4x13.5x13.5x7.5			;kx		3137.81	88.80	?k-eh-	82.50	90.00	90.00	7326	7992	7992
13	fuf'pr xM e] xcy] feêh dk 15 l-eh- l ¼fcuk dVh½ de ekVkb e fcNkuk] Qykuk ikuh [kp rFkk	3137.81	_	_	_	3137.81								
		1352.90	_	_	_	1352.90								
				;kx		4490.71	127.09	?k-eh-	31.90	33.30	85.60	4054.17	4232.1	10878.9

14	[knku e xcy [knkb dk dk;] 1-5 eh mBku dj 50 eh- fuLiknuA	1352.90	_	_	_	1352.90									
						0.00									
a.	(22/7)/4X60X60X0.5=	1414.29				0.00									
b.	(22/7)/4X12.5X12.5X0.5	61.3839				0.00									
	a-b=	1352.9		;kx		1352.90	38.29	?k-eh-	89.10	92.00	94.00	3411.64	3522.68	3599.26	
15	eje] dk fofHkUu njh d fy, ifjoguA	1352.90	_	_	_	1352.90									
						0.00									
	Lead 3 Km.			;kx		1352.90	38.29	?k-eh-	45.20	45.20	103.00	1730.71	1730.71	3943.87	
16	fcNkb gb feêh gLr njeV l dVuk	4490.71	_	_	_	4490.71									
		8.40	_	_	_	8.40									
				;kx		4499.1	127.32	?k-eh-	18.60	18.60	19.00	2368.15	2368.15	2419.08	
17	Grill	30	_	_	_	30.00									
				;kx		30.00	30.00	fd-xk-	2.70	11.70	62.90	81	351	1887	
18	45X45X45 l-eh- eki d xMM djukA	20	_	_	_	20.00									
				;kx		20.00	20.00	ux	6.00	6.00	6.01	120	120	120.2	
19	ik?k jki.k djukA	20	_	_	_	20.00									
				;kx		20.00	20.00	ux	2.90	2.90	2.90	58	58	58	
20	ik/kk dk miyC/k ikuh fiykukA 15yh- ifr ik/kk	240	_	_	_	240.00									
				;kx		240.00	240.00	ux	1.70	1.70	1.70	408	408	408	
21	Fkkoyk cukukA de l de 50 l- eh- v)0;kl dk	20	_	_	_	20.00									
				;kx		20.00	20.00	ux	1.70	1.70	1.70	34	34	34	
22	ik/kk fuMkb xMkb djukA 15 l-eh- xgjkb rd rFkk 45 l- eh- v)0;kl	40	_	_	_	40.00									
				;kx		40.00	40.00	ux	1.20	1.20	1.20	48	48	48	
												26716	**38662**	**80553**	
	vd'ky Je jkf'k	**0.38 yk[k**							**Add 42.86% for reduced task(30%)**			**11450**	**11450**	**11450**	
												dy ;kx	**38166**	**50112**	**92003**

d-l-	dy lkexh vko';drk	bdkb	ek=k	nj	jkf'k	bdkb	ek=k
1	ctjh	?k-eh-	6.92	340.00	2354.00	?k-QhV	245
2	fxêh iRFkj dh 40 fe-eh-	?k-eh-	2.03	350.00	712.00	?k-QhV	72
3	fxêh iRFkj dh 12 fe-eh-	?k-eh-	0.83	500.00	413.00	?k-QhV	29
4	iRFkj	?k-eh-	13.08	500.00	6540.00	?k-QhV	462
5	lheUV	fd-xk-	1771.05	220.00	7793.00	Fky	35
6	iRFkj d fljny 15 l-eh- ekVkb	?k-eh-	0.28	2400.00	672.00	?k-QhV	10

jkf'k			
Je	vd'ky	(a)	38166
	dy Je	(b)	50112
lkexh		(c)	41891
dy	(a+b+c)	(d)	92003
tkM 2% contingency	2% of(d)	(e)	1840
tkM 4% ihu d ikuh]vk;k o vU; d	4% of(d)	(f)	3680

7	iRFkj dh ifê;k	o-eh-	12.14	215.00	2611.00	o-QhV	131
8	QDVh e cu njokt	o-eh-	0.37	1263	467.00	o-QhV	4
9	ifjogu	?k-eh-	38.29	57.8	2213.00	?k-QhV	1353
10	Hand pump	ux	1	1500	1500.00	ux	1
11	Grill	fd-xk-	30	51	1536.00	fd-xk-	30
12	dkjhxj		50	240	11946.00		
		;kx			38757.00		
13	ikuh				499.0		
14	vU;				5520		
		dy ;kx			44776.0		
15	T & P 0 vU;				14581.00		
		egk;kx			**59357**		

dy ;kx	(d+e+f)	(g)	**97523**

CAPACITY :---- **20568** **yhVj**

Je	**38.78 %**
Ikexh	**61.22 %**

Je	**0.38**
Ikexh	**0.6**
;kx	**0.98**

Scheme: IWMP
Watershed: Matolchak (Jodhpur-32)

Panchayat Samiti: Phalodi
District: Jodhpur

DESIGN OF BUND IN ARABLE LAND

1. V. I. =$0.3(\frac{S}{3}+2)$ - Ramser Formula

   =$0.3(\frac{1}{3}+2)$

   = 0.70 m.

   V. I. = Vertical interval between two consecutive bund (m.)

   S = Land slop (%)

   H. I. = $\frac{V.I.}{S} X\ 100$

   =$\frac{0.70}{1} X\ 100 = 70\ m.$ (H. I. = Horizontal Interval)

2. Depth of Impounding

   $h=\sqrt{\frac{RexV.I.}{50}}$

   h = Depth of impounding

   Re = 24 hours rainfall excess (cm.) for 10 years R. I.

   = Rainfall – interception

   $H =\sqrt{\frac{20x0.70}{50}}$

   = 0.52 cm.

   Say = 50 cm.

3. Height of Bund

   H = h+Free board

= 0.50 + 0.25

= 0.75 CMS.

4. Top width of Bund

$$= \frac{H}{2} = \frac{0.75}{2} = 0.375$$

Say= 0.40 cms

The side slopes of the bunds are dependent upon the internal fractional angle of the fill material. For light red loam and sandy loam soils, the side slope for the both the sides is taken 1.5:1

5. Cross section of the Bund:

Cross section area of the bund $= \frac{\text{Top width} + \text{Bottom width}}{2}$ x height

$$= \frac{0.40 + 2.65}{2} \text{ x } 0.75$$

= 1.14 sqm.

Scheme: IWMP
Watershed: Matolchak (Jodhpur-32)

Panchayat Samiti: Phalodi
District: Jodhpur

DESIGN OF WASTE WEIR

Calculation of peak rate of runoff

$Q = \frac{CIA}{36}$ (Rational formula)

$= \frac{0.3 \times 5 \times 23}{36} = 0.96\ m^3$

$Q = 1.71\ Lh^{3/8}$

or

$L = \frac{Q}{1.71\ h^{3/8}}$

Where L = Length of crest in mt.

h = depth of flow over the crest in mt.

$L = \frac{0.96}{1.71 \times 0.3^{3/8}} = 3.55\ m$

Scheme: IWMP
Watershed:matolchak(Jodhpur-32)

Panchayat Samiti: Phalodi
District: Jodhpur

DITCH CUM BUND

DETAILED ESTIMATE AND ABSTRACT OF COST

Name Of Work: Construction Of Ditch Cum bund (DCB)

d-l-	dk;l fooj.k	ek=k	nj	ifr	jkf'k
1	c.M dk y vkmV	2x1=2.00	0.70	Met.	1.40
2	txy dh lQkb] Hkkjh >kfM;k rFkk 30 l-eh- yiV rd d ik/kk dk dkVu lerA	2.0x1.0=2.00	1.70	Sqm.	3.40
4	uho o Vpp e feêh dh [knkb dk dk;] [knh gb feêh dk fuLrkj.k rFkk lery djukA l[r feêh e@ddj feyh feêh e	1 x $\frac{1.50 + 0.9 \times 1.20}{2}$ =1.44	92.00	Cum.	132.50

TOTAL	**137.30**
Add 4% Contigency	5.49
G. TOTAL	142.79
Say Rs.	**143.00**
	Per Met.

DCB Work in 1400.00 Meter (10 Ha)=1400.00x143.00= 200200.00

Cost Per Ha.=200200.00/10 =20020.00

Say Rs.=20000.00

(Rupees Twenty Thousand only)

Note: Rate has been taken from the BSR issued by Zila Parishad Jodhpur on 8/4/2011.

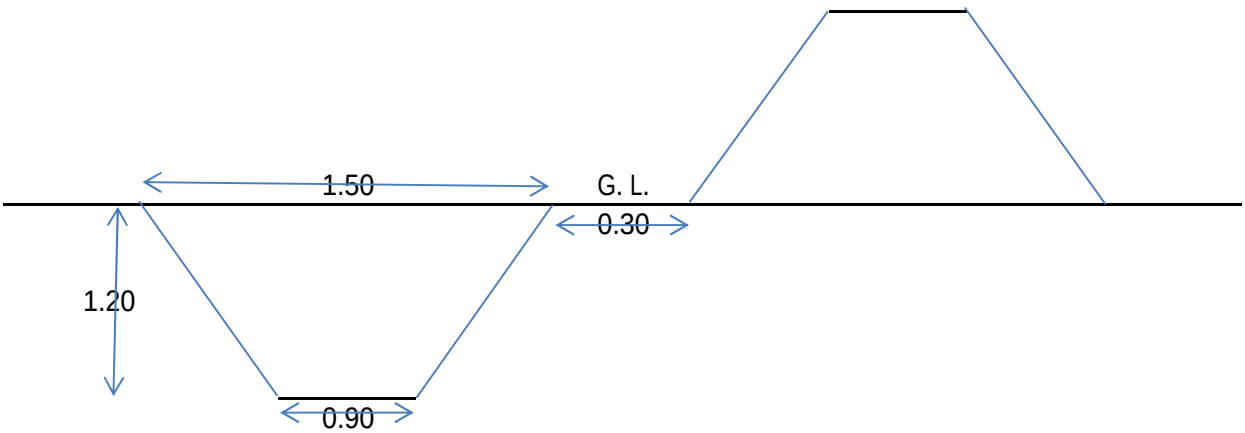
W. D. T. (Technical)
I. W. M. P.
P. S. Phalodi

A. En. & P. I. A.
I. W. M. P.
P. S. Phalodi

Scheme: IWMP
Watershed:Matolchak (Jodhpur-32)

Panchayat Samiti: Phalodi
District: Jodhpur

Name Of Work: Construction Of Ditch Cum Bund (DCB)



X-Section Of Ditch Cum bund (DCB)

All Dimentions are in Meter
Not in Scale

W. D. T. (Technical)
I. W. M. P.
P. S.Phalodi

A. En. & P. I. A.
I. W. M. P.
P. S. Phalodi

DESIGN OF BUND IN ARABLE LAND TYPE-I

Name of WaterShed : Matolchak (Jodhpur -32) IWMP Name of P.S. Phalodi

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

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

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 : Matolchak (Jodhpur -32) IWMP Name of P.S. Phalodi

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

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

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

X Section= 2.88 Sqmt.

DESIGN OF EARTHEN BUND TYPE -III

Name of Water Shed : Matolchak (Jodhpur -32) IWMP Name of P.S. Phalodi

V.I = 0.305 (XS+Y)

V.I = 0.305(0.8 x 3+ 1.)
.946

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

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

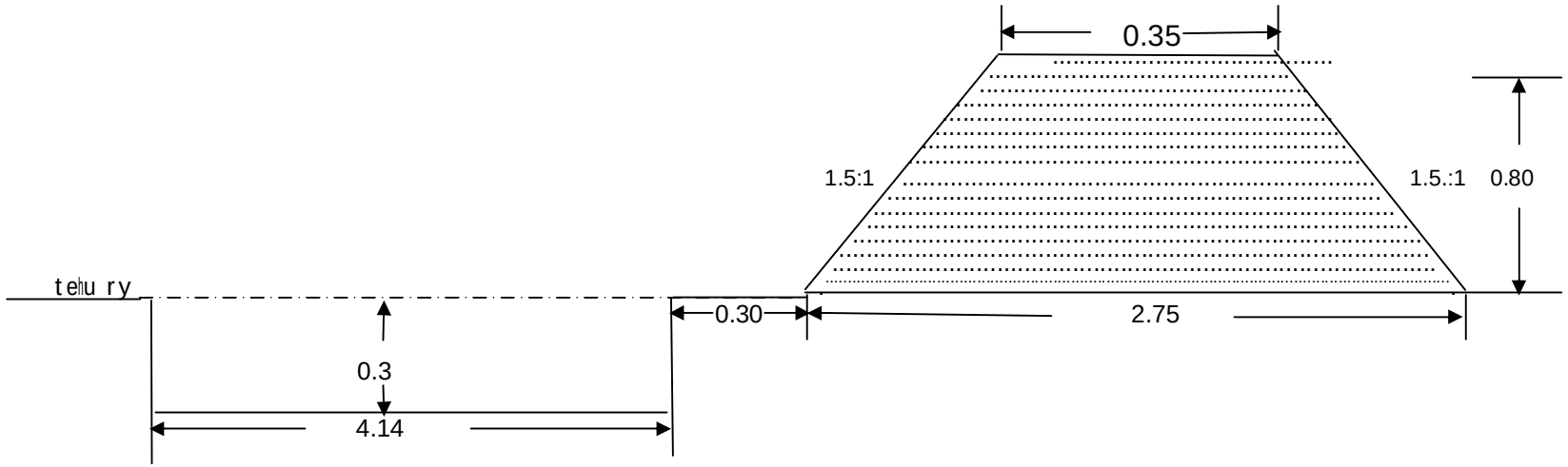
He= .946 Say 0.95Cm.

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

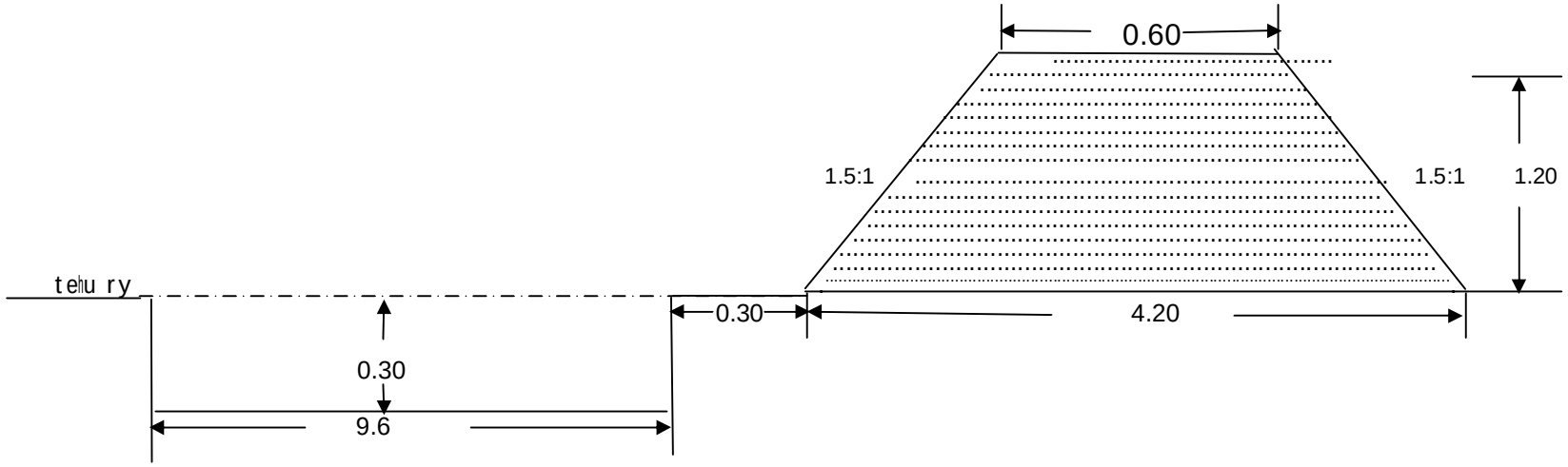


(All Measurement in Meter)

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

= 1.24 Sqm

CROSS SECTION OF EARTHAN BUND TYPE - II

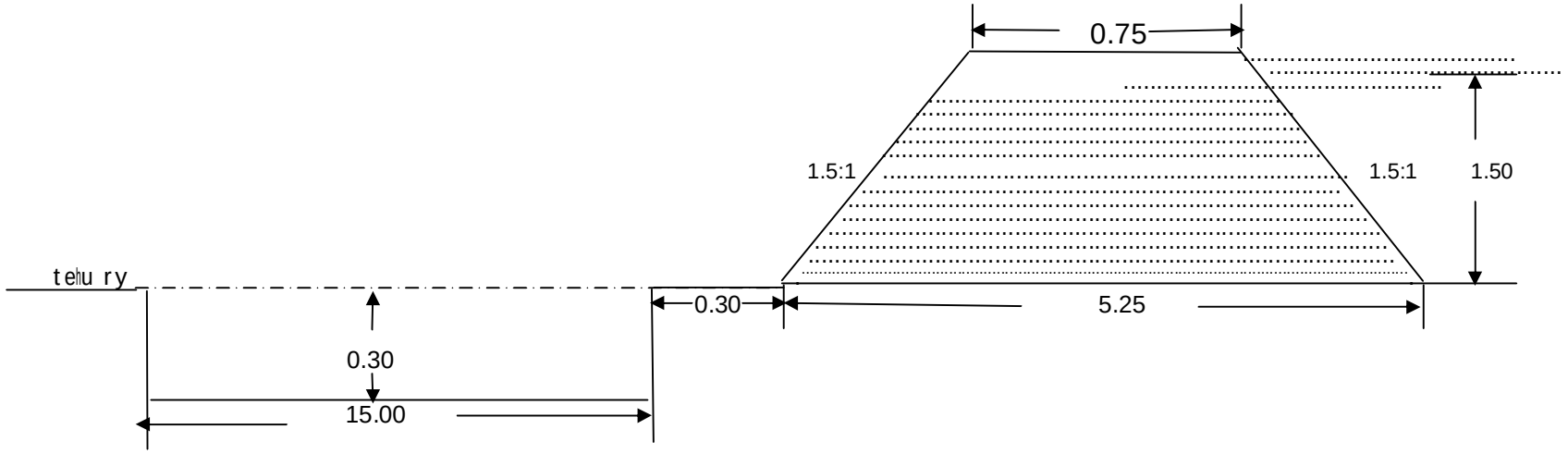


All Measurement in Meter)

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

Cross Sec.= 2.88 sqmt.

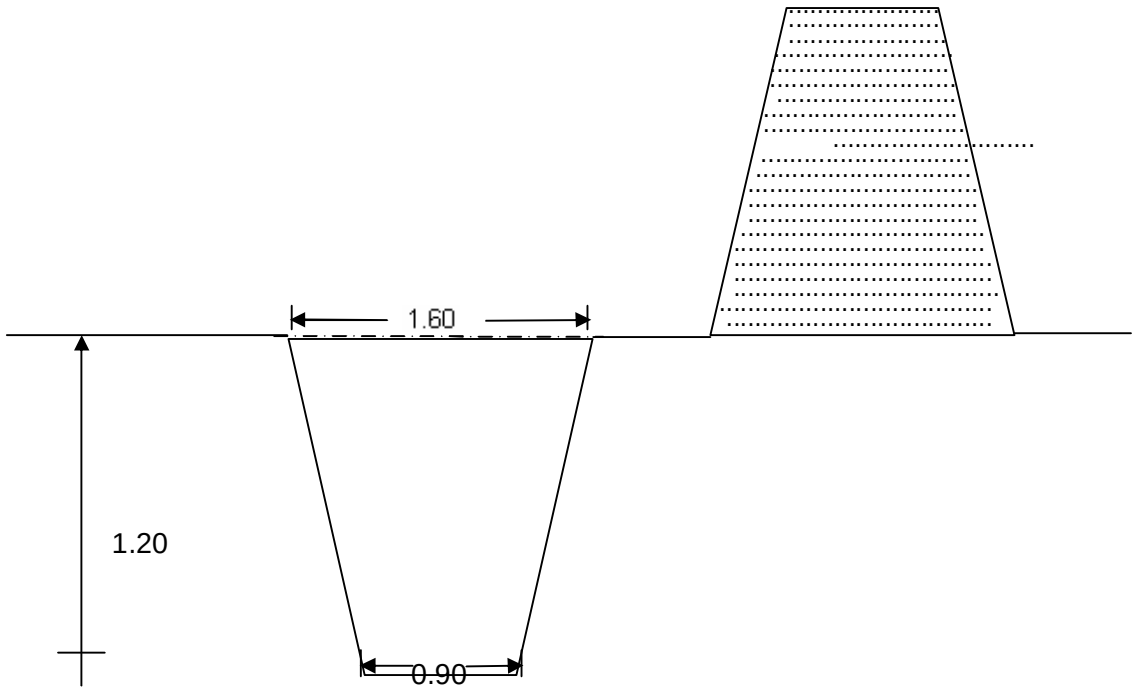
CROSS SECTION OF EARTHAN BUND TYPE - III



(All Measurement in Meter)

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

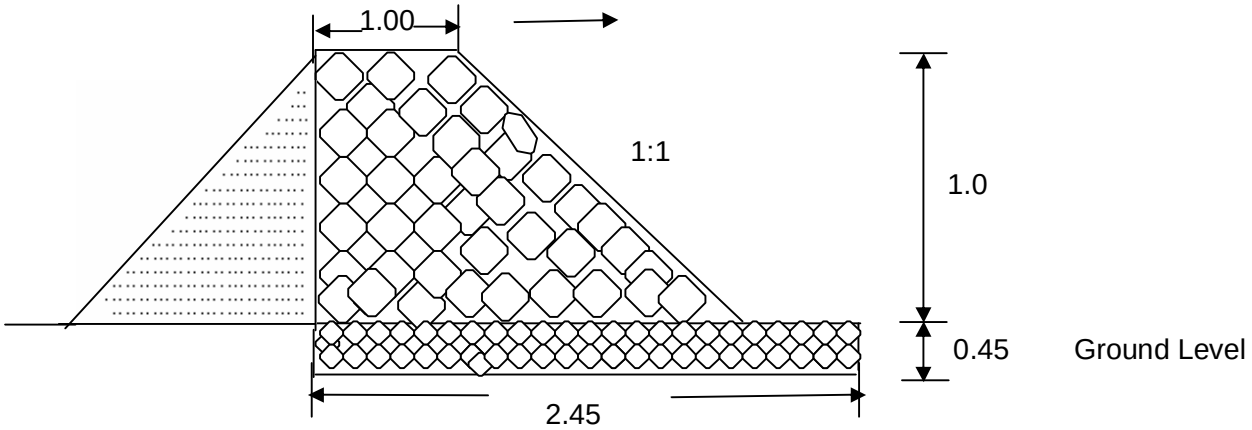
CROSS SECTION OF DITCH CUM BUND FENCINGH



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

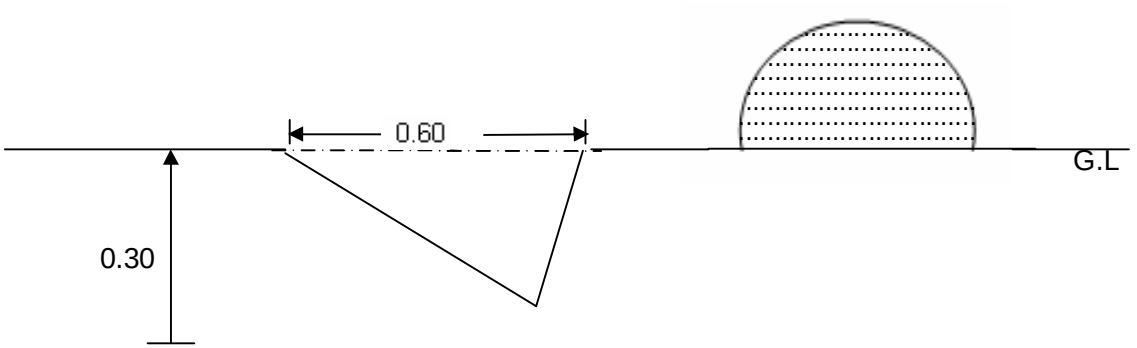
= 1.44 Sqm

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.

DETAILS OF WORK AND ABSTRACT OF COST

dk;l dk uke %& lk'k lo/ku dUnz

LFkku ----------;kt uk----------

d-l-	dk; dk fooj.k		l-	fo'k"k fooj.k			ek=k		bdkb	nj		jkf'k	
				y-	pk-	Ä@x-	QhV	dy eh-		Je	dy	Je	dy
1	uho] [kkb rFkk ukyk vkfn d fy, 1-5 eh- xgjkb rd feêh dh [knkb djuk] ry dk dVuk] ikuh Mkyuk cxy dk lokjuk] [knh feêh dk ckgj fudkyuk uho Hkju d ckn [kkyh LFkkuk dk iu% feêh l Hkjuk rFkk cph gb feêh dk 50 ehVj dh njh rd fuLrkj.k djuk	L/W	2	34.5	3	3	621						
		S/W	3	13.25	3	3	357.75						
		Compound wall	1	51.75	2	1.5	155.25						
		Compound wall	1	17.25	2	1.5	51.75						
		Compound wall	2	28.25	2	1.5	169.5						
		U/G water Tank	1	13.5	13.5	8	1458						
	l[r feVVh e				Total		2813.25	79.61	cum.	100.00	100.00	7961.5	7961.5
2	lheUV dkØhV uho ;k Q'k e 40 fe- eh- ukeh; eki dh iRFkj fxÍh @ bV dh fxÍh lheUV&jr elkyk] 1 lheUV % 5 jr % 10 fxÍh vuikr e feykdj Mkyuk rFkk dVkb djuk] rjkb lerA iRFkj dh fxêh d lkFkkA	L/W	1	34.5	3	0.5	51.75						
		S/W	3	13.25	3	0.5	59.625						
		Compound wall	1	51.75	2	0.5	51.75						
		Compound wall	1	17.25	2	0.5	17.25						
		Compound wall	2	28.25	2	0.5	56.5						
		U/G water Tank	1	13.5	13.5	0.5	91.125						
		Ramp	1	32.75	10	0.33	108.075						
					Total		436.075	12.34	cum.	358.10	1704.00	4419.28	21028.9
3	uho rFkk dlh e iRFkj dh o j)k&<kdk fpukb] puk&ctjh 1%3 elky e 30 l-eh- l vf/kd ekVkb e cxy dh f>jh cUn djuk] e; rjkb dAuho rFkk dlh e iRFkj dh o j)k&<kdk lheV&ctjh 1 % 6 elky e] e; cxy dh f>jh	Building I st.	1	110.5	2.5	1	276.25						
		Building II st.	1	110.5	2	1	221						
		Building III st.	1	110.5	1.5	1	165.75						
		Building Iv st.	1	110.5	1.25	1.5	207.188						

	cUn djuk rFkk rjkb vkfnAuho rFkk dlh e] e; cxy dh f>jh cUn djuk rFkk rjkb vkfnA		Compound wall	1	147.25	1.5	1	220.875						
			Ramp	2	10	1.25	1.5	37.5						
			U/G water Tank	1	45	1.25	11	618.75						
			Foder Pan	1	25	1.25	1.25	39.0625						
						Total		1786.38	50.55	cum.	525.30	2019.00	26556.2	102069
4	iRFkj d nkl dh vkifr dj] fpukb e mi;kx dh xb elky e ml yxkukA			1	110.5	1.25	0.5	69.0625						
								0						
						Total		69.0625	1.95	cum.	1326.70	4304.00	2592.99	8412.03
5	vf/kjpuk e lheV elkyk 1%6 e iRFkj dh pukb dk dk;		Building	1	110.5	1.25	14	1933.75						
			Compound wall	1	127.25	1.25	4	636.25						
	mi ;kx							2570	72.73	cum.				
	dVkfr;k	f[kMdh		2	6	1.25	4	60						
		njokt k		1	4	1.25	7	35						
		oUV		10	2	1.25	1	25						
		lkeu dk vkifux		1	20	1.25	14	350						
		fyUVy		10	3	1.25	0.5	18.75						
		fyUVy		1	5	1.25	0.5	3.125						
		fyUVy		2	7	1.25	0.5	8.75						
		xV		1	8	1.25	4	40						
	mi ;kx							540.625	15.30	cum.				
	'k"k							2029.38	57.43	cum.	698.30	2195.00	40104.3	126062
6	iRFkj d oxkdkj ;k vk;rkdkj [kEck dk puk elky 1%3 e vf/kjpuk eA			2	1.25	1.5	14	52.5						
								0						
						Total		52.5	1.49	cum.	1029.30	2608.00	1529.28	3874.84
7	iRFkj d fljny ¼fyVy½ dh vkifr dj] fpukb e mi;kx dh xb elky e ml yxkukA													
		fyVy		1	49	1.25	0.5	30.625						

					6	7	1	0.5	21						
			ikV												
		;kx					Total		51.625	1.46	cum.	1326.70	4304.00	1938.29	6288.09
8	40 fe-eh- ekVkb d iRFkj d NTt]lheV elky e 1:4 e yxkuk rFkk vkifÙk djuk] nhokj rFkk NTt d tkM ij lheV dkØhV 1:3:6 dk 7-5 l eh- dk xkyk cukuk] vkfnA				7	3	1.25		26.25						
					2	7	1.25		17.5						
					1	5	1.25		6.25						
							Total		50	4.645	sqm	308.60	592.00	1433.45	2749.84
9	Nr vkj nhokjk dh tkM ij dkryk iRFkj d xjnkuk dk yxkuk ,o vkifr dk i.k dk;				1	0	1.25	1	0						
									0						
							Total		0	0	Sqm	488.60	735.00	0	0
10	ykg d xMj				0	0	0.305	1	0						
							0.305	1	0						
	350*165@ 49.5Kg/m								0	0	Kg	3.60	58.20	0	0
					2	22	0.305	1	13.41						
							0.305	1	0						
	300*140@ 37.7Kg/m								13.41	505.60	Kg	3.60	58.20	1820.17	29426.1
					0	0	0.305	1	0						
							0.305	1	0						
									0	0	Kg	3.60	58.20	0	0
11	iRFkj dh floku yxku ,o vkifr dk dk;				0	0	0	0	0	0	Sqm	488.60	735.00	0	0
12	viOM [kku dh iVVh dh Nr Nr d nkuk d rjQ fle.V 1:4 l Hkjuk		Building		1	32.75	22.5		736.875						
			Compound wall		1	12.5	12.5		156.25						
		4	rd						0						
							Total		893.125	82.97	Sqm	299.70	825.00	24866.5	68451.3
13	vf/kjpuk btkjk e lheV elkyk 1%6 e iRFkj dh fpukb dk;A				2	32.75	1.25	1	81.875						
					2	15	1.25	1	37.5						
							Total		119.375	3.38	cum.	775.50	2275.00	2619.88	7685.66

14	90 fe-eh- vklr ekVkb e lheV dkØhV nMftle 1 Hkkx lheV ¼3 Hkkx ctjh rFkk 6 Hkkx 12 fe-eh- ukeh; ,xhxV feykdj vkj-lh-lh- Nr ;k iêh ij bl idkj Mkyuk fd pkgh xb fn'kk e <yku 1¼60 dk iklr fd;k tk ld rFkk fo'k"k fooj.k d vulkj 6 fe-eh- 0;kl dh NMk dk nkuk fn'kk 25 l-eh- dUn l dUn tky e/; ddjhV e Mky dj ddjhV dk nckuk rFkk rjkb lerA	Building	1	30.25	20		605						
		U/G water Tank	1	12.5	12.5		156.25						
					Total		761.25	70.72	sqm.	174.40	469.00	12333.6	33167.7
15	Q'k d uhp l[k iRFkjk dk [kjtk MkyukA		0	20	15	0.5	0						
			1	9	22.5	0.5	101.25						
			1	32.75	10	0.5	163.75						
					Total		265	7.50	cum.	179.10	677.00	1343.16	5077.16
16	50 eh- eh- ekVkb e lheV ddhV 1½¼4 feJ.k 12 ehehfxVVh d lkFk feykdj Mkyuk] dVukj nckuk rFkk rjkb vkfn ler e; dkp irh	Fodder Pan	0	25	1.25		0						
		Fodder Room	1	9	22.5		202.5						
		U/G water Tank	1	10	10		100						
					Total		202.5	18.81	sqm.	101.30	230.00	1905.68	4326.82
17	dkfix dk dk;												
	C:C (1:2:4)		1	262.75	1.25		328.438	30.51	sqm.	101.30	230.00	3090.85	7017.72
	Chap		0	0	0		0	0	sqm.	488.60	826.00	0	0
18	vkyekjh e pkik dk dk; ¼pkjk Bk.k d fy,½	Fodder Pan	1	25	1.25	0	31.25						
							0						
					Total		31.25	2.90	sqm.	164.40	370.00	477.274	1074.16
19	lheV lykLVj nhokj ij 1:6 vuikr e lheV&ctjh feykdj dj tkMk dk djnu rFkk rjkb lfgr 20 fe-eh- eA	Fodder Room	2	15	14		420						
		Fodder Room	2	9	14		252						
		Fodder Pan	1	25	3		75						
							672	62.43	sqm.				
	dVkfr;k f[kMdh		0	0	0	0	0						

			njokt k		1	4	7		28							
			oUV		0	2	1	1	0							
	mi ;kx								28	2.60	sqm.					
	'k"k								644	59.83	sqm.	86.40	147.00	5169.1	8794.66
20	iRFkj dh pukb ij lhe.V elkyk 1:3 l Vhik dk dk;			Building	1	20	14		280							
				Building	1	32.75	14		458.5							
				Building	4	18	14		1008							
				Perapet	2	95.5	2		382							
				Compound wall	1	167.25	5		836.25							
				Building Front	2	26.5	14		742							
									3706.75	344.36	sqm.					
	dVkfr ;k		f[kMdh		1	6	4		24							
			njokt k		1	4	7		28							
			oUV		7	2	1		14							
	mi ;kx								66	6.13	sqm.					
	'k"k								3640.75	338.23	sqm.	51.10	62.00	17283.3	20970	
21	jnk drkj <kdk pukb dk vfrfjDr				1	1719.0			1719	159.70	sqm.	123.00	123.00	19642.5	19642.5	
22	22 xt dh lknk ,e-,l- p}j dh cuh 0-9 eh- pkMh rFkk 1-2 eh- Åph f[kMdh ftle leLr pk[kV Qe 25X25X3 fe-eh- dh dkfu;k ykg dk] 10 fe-eh- fxy e; vxy] fpVdfu;k 2 ux rFkk ifê;k 4 ux vkifÙk djukA				2	6	4		48							
					0	0	0		0							
								0								
	1	0					Total		48	4.46	sqm	149	1762	665.759	7857.11	
23	22 xt dh lknk ,e- ,l- pnnj d nk iYy oky njokt] ftle ykg dh 40x40x3 fe-eh- d dkfu;k ykg dh pkjoV rFkk iYyk e 25x25x3 fe-eh- d dkfu;k ykg((Angle Iron) d fdukj e; vxy fpVduh rFkk idM ifê;k d vkifr o vxkuA			Fodder Room	1	4	7		28							
				Compound wall	1	8	4		32							
				U/G water Tank	1	2	2		4							

	vkfn o yxkukA												
	1 0				Total		64	5.95	sqm	149	1417	887.678	8424.92
24	u, dk; ij lQnh dk dk;		1	4350.75			4350.75	404.18	sqm.	7.90	9.50	3193.06	3839.75
25	u; dk; ij bukfey iUV dk yi djuk		2	112			224	20.81	sqm.	32.20	73.00	670.069	1519.1
26	o"kkrh uky d fy, 100 fe-eh- ,LoLVl lheV d ikbi e; idM iêh rFkk tkMu e lheV elkyk 1½2 dk HkjukA	Water Harwesting	1	30			30						
							0						
							30	9.144	mts	22.30	59.00	203.911	539.496
27	g.M iEi	U/G Water Tank	1				1	1	Each	0.00	2000.00	0.00	2000.0

182708 508260

		Quantity	Rate	Amount
Skilled labour		255.97	400	102389
Unskilled labour		433.16	135	58476
Mate		3.98	145	577
				161442

jkf'k		
Je	A	182708
lkexh	B	325553
dy	C	508260
Add 2% for conti. D=(C*0.02)		10165.2
dy ;kx	(C+D)	518426

Say **518426**

d-l-	lkexh vko';drk	bdkb	ek=k	nj	jkf'k	cft
1	puk	fd-xk-	FALSE	2.5	0.00	
2	jr@ctjh	?k-eh-	55.03	400	22010.07	1944
3	fxêh iRFkj dh 40 fe-eh- ukeh; eki dh	?k-eh-	11.1	425	4720.40	392.5
4	fxêh iRFkj dh 20 fe-eh- ukeh; eki dh	?k-eh-	4.91	580	2847.24	173.5
5	iRFkj	?k-eh-	124.1	650	80687.60	4386
6	lheUV	fd-xk-	FALSE	260	0.00	0
7	iRFkj d fljny 15 l-eh- ekVkb rd	?k-eh-	3.6	2700	9682.82	126.7
8	iRFkj d jQ MLM xjnkuk 75 fe-eh- ekV	o-eh-	0.0	130	0.00	0
9	ykg d xMj	fd-xk-	505.6	48	24268.91	
10	iRFkj dh ifê;k	o-eh-	91.3	350	31943.96	982.4
11	lkfyx@[kjtk iRFkj	?k-eh-	8.2	425	3506.02	291.5
12	jQ dkVk LVku	o-eh-	20.7	170	3517.89	222.8
13	QDVh e cuh f[kMfd;k	sqm	4.5	1613	7191.35	157.6
14	QDVh e cu njokt	sqm	5.9	1268	7537.24	1
15	buey iUV	fd-xk-	3.1	170	530.6448	
16	iRFkj dh pki	o-eh-	9.1	130	1188.83	98.44
17	ekcy fpll	fd-xk-	0.0		0	
18	,- lh- ikbi 100 fe- eh 0;kl	ifr ehVj	9.1	22	201.168	30
					199834.1	
	ikuh				125718.5	
	vU;				10165.21	
		dy ;kx			335717.9	

fofHkUu [kjhQ Qlyk dh vuekfur vknku ykxr

de l-	en	iko/kku ifr gDVj	Qlyokj bdkb ykxr ifr gDVk ¼#-½						
		ek=k	eDdk	Tokj	ekB	ex	pkoy	lk;kchu	vj.Mh
1	cht	eDdk&25 fykxke] Tokj&10 fdykxke] ekB&10 fdykxke	106.5	400	600	1480	1100	2400	1680
2	chkipkj								
3	¼v½, tkVkcDVj	600 xke ¼3 idV½	45	45	45	45	45	45	45
4	¼c½ ih-,l- ch-	600 xke ¼3 idV½	46	46	46	46	46	46	46
5	¼l½ Fkkbje		25	10	15	15	15	75	25
6	mojd								
7	I. Mh-,ih		1602.48	1602.48	1602.48	1602.48	1602.48	1602.48	1602.48
8	II. ;fj;k		1214.928	759.33	0	0	0	58.41	759.33
9	III. ftlle	250 fdykxke	250	250	250	250	250	250	250
10	lq{ke ik"kd rRo	250 fdykxke	1000	1000	1000	1000	1000	0	1000
11	[kjirkjuk'kh		500	500	1000	1000	1000	0	1000
12	ik/k lj{k.k		500	500	1300	1300	1300	1900	1100
		;kx	**5289.91**	**5112.81**	**5858.48**	**6738.48**	**6358.48**	**6376.89**	**7507.81**

fofHkUu jch Qlyksa dh vuekfur vknku ykxr

de l-	en	iko/kku ifr gDVj	Qlyokj bdkb ykxr ifr gDVk ¼#-½			
		ek=k	puk	ljlk	tk	xg
1	cht	puk&80 fykxke] ljlk&4 fdykxke] tk&10 fdykxke] xg&125 fdykxke	3200	116	2500	2500
2	chkipkj					
3	¼v½, tkVkcDVj@jkbAtkfc;k	600 xke ¼3 idV½	45	45	45	45
4	¼c½ ih-,l- ch-	600 xke ¼3 idV½	46	45	45	45
5	¼l½ Fkkbje@ckfoLVhu@eUdktc	puk&ckfoLVhu 40 xke] ljlk&eUdktc 10xke] tk&Fkkbje 375	30	10	150	150
6	mojd					
7	I. Mh-,ih	puk&54-25 fd-xk-] tk&33 fd-xk ,o ljlk] xg&60 fd-xk-	987.8935	1092.6	600.93	1092.6
8	II. ;fj;k	tk ,o ljlk e 52 fd-xk-] xg&60 fd-xk-	0	276.12	276.12	318.6
9	III. ftlle	250 fdykxke	250	250	250	250
10	l{ke ik"kd rRo	250 fdykxke	1000	1000	1000	1000
11	[kjirikjuk'kh		400	400	350	600
12	ik/k lj{k.k		1500	1500	500	500
		;kx	**7458.89**	**4734.72**	**5717.05**	**6501.2**

Scheme: IWMP
Watershed: matolchak (Jodhpur-32)
Gram Panchayat:Dhadhu&khara

Panchayat Samiti: Phalodi
Didtrict: Jodhpur

DETAILS OF WORK AND ABSTRACT OF COST

dk; dk uke k&irFkj dh iêh l dkVnkj Qflx dk dk;

L 3280

d-l-	dk; dk fooj.k	l-	fo'k"k fooj.k			ek=k		bdkb	nj		jkf'k	
			y-	pk-	Å@x-	QhV	dy eh-		Je	dy	Je	dy
1	dkVnkj ykg d rkj l QfUlx -180 leh mpkb dh QfUlx iRFkj dh iêh dh 3 ehVj njh l o 45 leh tehu e lheUV ddjhV 1½¼4 ½30x 45x 60 leh½ lkFk e 6 ykbu o 2 Mk;kxuy ykbu e dkyk dkVokyk rkj nk ikLV d chp fQV o fQDl djuk th-vkb-LViy rkj l ½feVVh d [knkb dk dk; lEefyr½	1	3280			3280	999.744	RM	15.2	231	15196.11	230940.9
									jkf'k			
									Je		A	15196.11
									lkexh		B	215744.8
									dy		C	230940.9
									Add 4% for conti. D=(C*.04)			9237.635
									dy C+D			240178.5
											Say	240178.5
									4500m			1080803

lkexh dh vko';drk

dk; dk uke k&irFkj dh iêh l dkVnkj Qflx dk dk;

d-l-	dy lkexh vko';drk	bdkb	ek=k		nj	jkf'k
1	lheUV	cx	167		260	43420
2	ctjh	?ku eh-	14		400	5600
3	,xhVx 12 feeh	?ku eh-	27		425	11475
4	iRFkj dh iêh	ox- eh-	226		300	67800
5	dkVnkj rkj	fd-xk-	1085		50	54250
6	ikuh o vU;					33200
			dy ;kx			215745

Note:-Rate has been taken from the BSR issued by Zila Parisad Jodhpurb on 01/4/2012 .

Name of W/S :- Shri Krishan Nagar (Jodhpur-35)
Name of Village :- Shri Krishan Nagar Ram Nagar
Name of work :- Tanka construction

Amount : 101309

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	132.71	1	11
6	Concrete	1	132.71	1	0.5
7	Masonary	1	36.122	1.5	12.5
				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	78.525	1	1
17	Flooring on top Cem	1	132.71	1	1
	Dedu	1	1.5	1.5	1

6	Ordinary soil
5	Hard soil
0	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.
	Earth work in excavation in	0.785	13.5	13.5	6	858.398						
1	foundatin lift 1.5m and lead up to 50m	0.785	13.5	13.5	5	715.3313	20.244	cum	100	100	2024.39	2024.3874
	Extra Lift											
	First lift 1	0.785	13.5	13.5	5	715.3313	20.244	cum.	11.80	11.80	238.878	238.87772
	Second lift 2	0.785	13.5	13.5		0	0	cum.	23.60	23.60	0	0
2	P/L cement concrete in 1:4:8	0.785	13.5	13.5	0.5	71.53313						0
						0						0
						0						0
						0						0
						0						0
						71.53313	2.02	cum.	358.10	1891.00	723.362	3819.82
3	RRSM in foundation in 1:6 cement mortar	3.14	11.75	1.5	12.5	691.7813						0
						0						0
												0
						0						0
						691.7813	19.58	cum.	525.30	2019.00	10285.4	39532.02
4	Lintel in cement mortar											0
		2	10	1	0.5	10						0
						10	0.280	cum.	1326.70	4304.00	371.476	1205.12
5	Jodhper stone patti roofing in 1:4 cement mortar	0.785	13	13	1	132.665						0
						0						0
	gate	-1	1.5	1.5	1	-2.25						0
						130.415	12.11	sqm.	299.70	825.00	3629.37	9990.75
6	P/L cement concrete in 1:2:4 50mm thick on rooffing	0.785	13	13	1	132.665						0
		-1	1.5	1.5	1	-2.25						0
						130.415	12.11	sqm.	101.30	230.00	1226.74	2785.3
7		0.785	10	10	1	78.5						0
												0
						0						0
						78.5	7.29	sqm.	101.30	230.00	738.477	1676.7

8	25mm cement plaster in 1:6 cement mortar	3.14	10	1	12.5	392.5					0	0
											0	0
						392.5	36.46	sqm.	86.40	147.00	3150.14	5359.62
9	Flush pointing in 1:3 cement mortar	3.14	13	1	2	81.64						0
						0						0
						81.64	7.58	sqm.	51.10	62.00	387.338	469.96
10	C.R. facingin II sort						7.58		123.00	123.00	932.34	932.34
												0
10	Providing and fixing of gate	1	1.5	1.5	1	2.25						0
												0
						2.25		sqm.			0	0
11											L.S.	500
12	Catchment of gravel/murrum	3.14	38	13	0.5	2001.75	56.65	cum.		50	0	2832.4763
	Transportation lead 3km						56.65	cum.	50	107.8		6106.8188
							56.65	cum.	37	37	2096.03	2096.0324
13	Stone chap Boundry	3.14	38.25	1	4	480.42	44.626	sqm.	69.6	355	3105.98	15842.31
14	Supply and fixing of Hand pump						1	Nos.			0	1500.00
15	Signe board and photographs					0					0	500
											28909.9	97412.529

	Quantity	Rate	Amount
Skille	46.00	400	18400
Unsk	106.00	135	14310
Water			
			32710

		28909.9	97412.529
Amt.			
Labour			
	A		28909.903
Material	B		68502.625
Total	C		97412.529
D=(C*0.04)			3896.5011
Total	(C+D)		101309.03

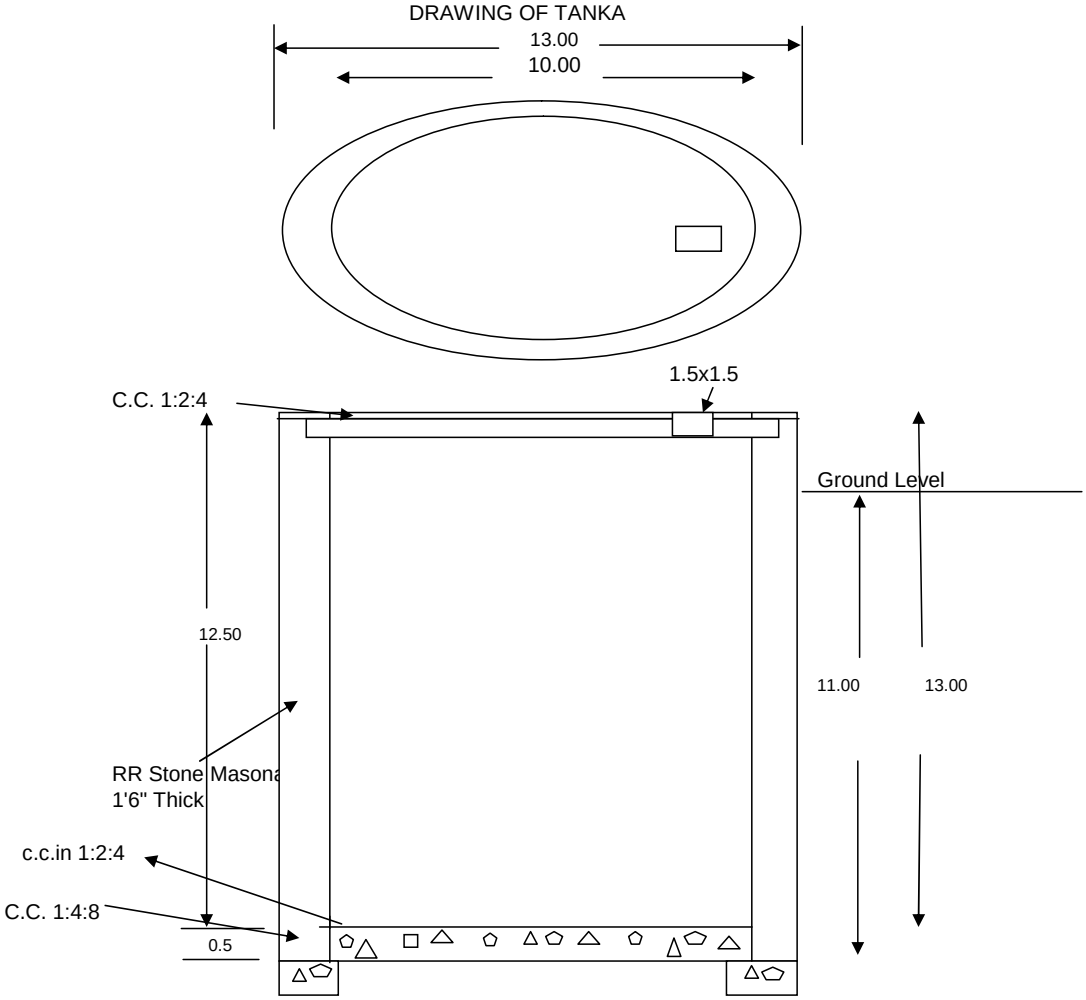
S. no.	Material requried	Unit	Qty.	Rate	Amt.	
1	Sand	cum.	12.91	400	5165.2	5165
2	40mm aggregate	cum.	1.82	425	772.65	772
3	20mm aggregate	cum.	0.93	580	541.459	541
4	Stone	cum.	19.58	650	12727	12727
5	Cement	bag	54.0	260	14040	14040
6	15cm. Thick lintel	cum.	0.28	2700	756	756
7	Stone slab	sqm	14.53	340	4940.88	4940
8	Door	sqm.	1.000		500	500
	Hand pump	Nos.	1.0	1500.00	1500	1500
	Water transportation	No.	10.000	290.00	2900	2900
	signe board and Photographa				500	500
					44343.2	
	Stone chap		44.6	130	5801.41	5800
	Supply of murrum				8939.3	7976
			Total		59083.9	58117

l heUV fd-xk	c t jh ?k-eh-					dkjhxj	etnwj	uh¼jk'kh½
7.67	0.032					0.13	0.2	0.015
279.6482	1.16672		60.60	52.684		4.74	7.29	80.3943
l heUV fd-xk	c t jh ?k-eh-					dkjhxj	etnwj	uh¼jk'kh½
1.4	0.003					0.08	0.11	0.015
10.612	0.02274		10.90	8.48		0.61	0.83	7.0494
						dkjhxj	etnwj	uh¼jk'kh½
		njokts]				0.3	0.3	0
		0	0.00	0		0.0	0.0	0
			6858.1	3352.752		29.50	45.47	818.93
					Total	5310.882	3319.471	818.93

-44.44444

15.00 -29

DRAWING OF TANKA



Scheme: IWMP
Watershed:matolchak (Jodhpur-32)

Panchayat Samiti: Phalodi
District: Jodhpur

GULLY PLUGGING

DETAILED ESTIMATE AND ABSTRACT OF COST

Name Of Work: Construction Of Gully Plugging

d-l-	dk;l fooj.k	ek=k	nj	ifr	jkf'k
1	c.M dk y vkmV	2x15=30.00	0.70	Met.	21.00
2	txy dh lQkb] lk/kkj.k ouLifr rFkk >kfM;k dk dkVu lfgrA	15x5.10=76.50	1.40	Sqm.	107.10
4	feêh dk dk; cU/k e ¼l[kh ;k xhyh½] 15 l-eh- ijr e Mkyuk] <yk dk rkMuk] ?kkl&ikr rFkk ddj chudj vyx djuk rFkk feêh dh njlh djuk] 1-5 eh mBku rFkk 50 eh- njh d fy,A dBkj feVVh	2 x 5.10 + 0.6 x 1.50 x15=64.13 2	100.00	Cum.	6413.00
5	15 l 23 l-eh- ekV] gFkkM l rjkl g, ,dy iRFkj dh fifpx leLr mBku d lkFk] vkifUk d lkFkA	15x2.10x0.23=7.24	670.00	Cum.	4850.80

	TOTAL	**11391.90**
	Add 4% Contigency	455.68
	G. TOTAL	11847.58
	Say Rs.	**11850.00**

(Rupees Ten Thousand Five Hundred only)

Labour	6803.00
Material	3570.00
Contigency	427.00
Total	10800.00

Note: Rate has been taken from the BSR issued by Zila Parishad Jodhpur on 8/4/2011.

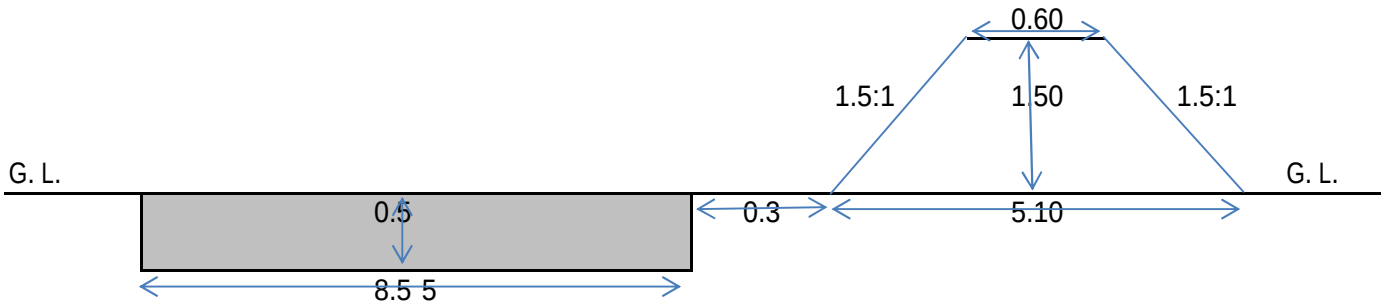
W. D. T. (Technical)
I. W. M. P.
P. S. Phalodi

A. En. & P. I. A.
I. W. M. P.
P. S. Phalodi

Scheme: IWMP
Watershed: matolchak (Jodhpur-32)

Panchayat Samiti:Phalodi
District: Jodhpur

Name Of Work: Construction Of Gully Plugging



X-Section Of Gully Plugging

All Dimentions are in Meter
Not in Scale

W. D. T. (Technical)
I. W. M. P.
P. S. Phalodi

A. En. & P. I. A.
I. W. M. P.
P. S. Phalodi

NAME OF WATERSHED: MATOLCHAK (Jodhpur-32)

DISTRICT: JODHPUR **BLOCK: PHALODI**

ykxr rdehuk

dk;l dk uke %& gkt fuek.kA

d-l-	dk; dk fooj.k	l-	fo'k"k fooj.k			ek=k		bdkb	nj			jkf'k		
			y-	pk-	Ä@x-	QhV	dy eh-		vd'ky	dy Je	dy	vd'ky	dy Je	dy
1	uho] [kkb rFkk ukyk vkfn d fy, 1-5 eh- xgjkb rd feêh dh [knkb djuk] ry dk dVuk] ikuh Mkyuk cxy dk lokjuk] [knh feêh dk ckgj fudkyuk uho Hkju d ckn [kkyh LFkkuk dk iuh feêh l Hkjuk rFkk cph gb feêh dk 50 ehVj dh njh rd fuLrkj.k djuk	1	150	3	3	1350.00								
		1	40	30	0.66	792.00								
						0.00								
						0.00								
						0.00								
						0.00								
				;kx		2142.00	60.62	?k-eh-	91.10	100.00	100.00	5522.48	6062	6062
2	lheV dkØhV uho e 40 fe-eh- ukeh; eki dh iRFkj dh fxêh lheV jr elkyk 1 lheV % 4 jr % 8 fxêh vuikr e feykdj] Mkyuk rFkk dVkb djuk] rjkb lerA	1	150	3	0.5	225.00								
		1	40	30	0.66	792.00								
						0.00								
						0.00								
				;kx		1017.00	28.78	?k-eh-	313.10	358.10	1891.00	9011.02	10306.12	54422.98
3	uho rFkk dlh e iRFkj dh o j)k&<kdk fpukb lheV&ctjh 1 % 8 elky e] e; cxy dh f>jh cUn djuk rFkk rjkb vkfnA	1	150	2.5	2.5	937.50								
						0.00								
						0.00								
				;kx		937.50	26.53	?k-eh-	205.80	525.30	1930.00	5459.87	13936.21	51202.9
4	lheV lykLVj nhokj ij 1:4 vuikr e lheV&ctjh feykdj dj tkMk dk djnu rFkk rjkb lfgr 25 fe-eh- eA	1	140	_	6	840.00								
		1	152	1		152.00								
						0.00								
				;kx		992.00	92.19	o-eh-	27.90	86.40	166.00	2572.19	7965.5	15304.09

5	iRFkj dh pukb vf/kjpuk e lheUV elkyk 1¼6 e ½2.5+1.5)/2	1	150	2	6	1800.00								
						0.00								
				;kx		1800.00	51.02	?k-eh-	364.60	531.10	2106.00	18602.04	27096.94	107448.98
6	50 eh- eh- ekVkb e lheV ddhV 1¼2¼4 feJ.k ftle 1 lheV 2 ctjh 4 iRFkj dh ;k bV dh 12 - eh- ukHkh; fxVVh d lkFk feykdj Mkyuk] dVuk] nckuk rFkk rjkb vkfn ler Adkfix o Ql	1	30	40	_	1200.00								
		2	30	1.5	_	90.00								
		2	43	1.5	_	129.00								
						0.00	0.00							
						0.00								
				;kx		1419.00	131.88	o-eh-	33.80	101.30	230.00	4457.45	13359.17	30331.78
7	feêh dk dk; cU/k e ¼l[kh ;k xhyh½] 15 l-eh- ijr e Mkyuk] <yk dk rkMuk] ?kkl&ikr rFkk ddj chudj vyx djuk rFkk feêh dh njlh djuk] 1-5 eh mBku rFkk 50 eh- njh d fy,A	2	38	2.5	6	1140.00								
		2	48	2.5	6	1440.00								
						0.00								
						0.00								
						0.00								
						0.00								
						2580.00	73.13	?k-eh-	88.80	91.00	92.00	6493.88	6654.76	6727.89
												52119	**85381**	**271501**

vd|'ky Je jkf'k **0.85** **yk[k**

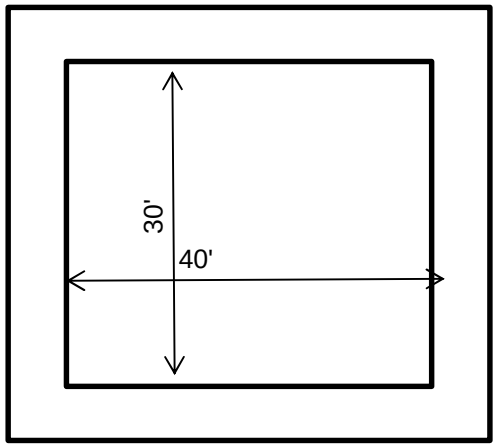
dy ;kx **52119** **85381** **271501**

	jkf'k		
Je	vd'ky	(a)	52119
	dy Je	(b)	85381
lkexh		(c)	186120
dy	(a+b+c)	(d)	271501
tkM 4% contingency d	4% of(d)	(e)	10860
dy ;kx	(d+e)	(f)	**282361**

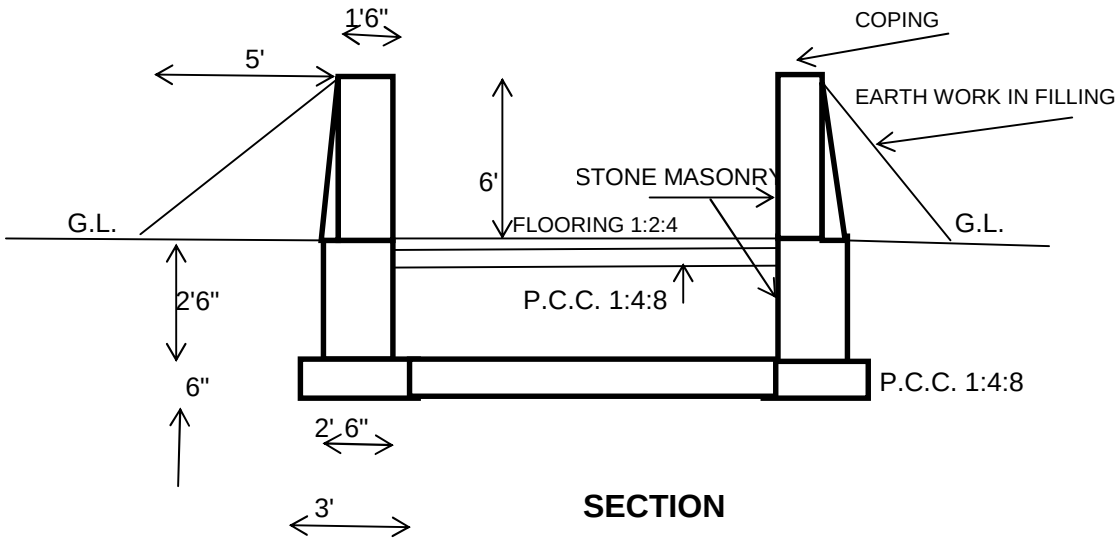
Je **30.14 %**
lkexh **69.86 %**

Je	**0.85**
lkexh	**1.97**
;kx	**2.82**

CAPACITY :---- **2505965** **yhVj**



PLAN FOR HAUSE



SECTION

Model Estimate of Tool Kit

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

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

1. One set of carpentry tools COST Rs. 4000/= per Kit

S.No.	Name of tools	Specfication	Quantity
1	Hand saw	Size 15"	1 No.
2	Hand saw	Size 12"	1 No.
3	Screw driver	Size 8" x 25 mm	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(sikanja) for wooden frame	Size 4' x 2"	1 No.
13	Stone silly	size 6" - ISI Mark	1 No.
14	Basola with handle	Weight 800 gram	1 No.
15	Ball peen hammer	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	Girmt	Size 1/2"	1 No.
20	Tri Square	Size 8"	1 No.
21	Hand operated drill	Size 1/4"	1 No.
22	Steel box for Tools	Size (22" x 11")- G.I. sheet	1 No.

2. One set of Mason tools COST Rs. 2000/= per Kit

S.No.	Name of tools	Specfication	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	Sabble	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/= per Kit

S.No.	Name of tools	Specfication	Quantity
1	Clay lump beating hammer	MS pat. Size - D100 - 120mm X T5-6 mm with iron pipe handle	1 No.
2	Wooden hammer (Thapa)	Sheesam Woodv . Size - D6-7" X T1.25".handle-L6"	1 No.
3	Tasla	MS sheet. Size - 15", SWG-20	1 No.
4	Spade (Phawda)	MS sheet. Size - L 10"x w10", SWG-20.fitted with wooden Handle	1 No.
5	Kamdai	Wooden Size - 2"x1-1.25" approx. Arch shap	1 No.
6	Pindi Cement	Varius Size	3 No.
7	Decoration tools	MS (Banki, Sua, Piyali, Patti)	8 No.
8	Decoration Wheel	Size-H 16" x D 12-15". Tripod Structure. Fittedv withb double Ball Bearing.Iron sheet 5mm	1 No.
9	Manual Potter Wheel	Outer Dia-inner Plate size- D 300mm x T-20mm. T-WT-17 Kg minimum(Cast iron body). Tripod Casted iron Structure with Ball bearing . 2 nos. of outer rings made of T or steal of 12mm Dia. Cross Wooden Support Structure	1 No.

4. One set of Footwear (Mojari) tools COST Rs. 12000/= per Kit

S.No.	Name of tools	Specfication	Quantity
1	Ball pine hammer	Drop forged steel ,Induction hardened, Seasoned wood handle,WT-300 gms with wood handle, Nilon hammer(L 240mm, head size L80xD300mm)	1 No.
2	Wooden Block	Size- 18"x W4"xT4"	1 No.
3	Pincer	Size- 8"	1 No.
4	Scissors	Size- 9", Steel Body, Brass Handle	1 No.
5	Bodam/Shoeanvil	Graded CI with 3 phases,WT-4 kg. approx.	1 No.
6	Cutting Blade Set (Ramp)	Steel with Wooden Handle, Size-L 150x W 30x T 6mm	1 set
7	Stitching Awl	Steel with Sheesam Wood Handle.	1 No.
8	Sharpening Stone	Size 150x50x25mm,109 no.	1 No.
9	Shoe measuring Tape	Size-2' fibre/good quality plastic material	1 No.
10	Lock Punch Set	Steel	1 No.
11	Bye let setting tool	Steel	1 No.
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 No.
15	Pattern cutting Knife	Steel, Size-6"	1 No.
16	PP Block	Size-L 6"x W 6" T 20mm	1 No.
17	Steel Scale	Size - 12" and 24".	1 No.
18	Leather Scraping Brush	Size-8" with wooden Handle	1 No.
19	Adhesive Brush	Size-10 mm,12mm, 25mm.	1 No.
20	Spring Driver	Steel -Size 9"	1 No.
21	Sant	Steel - H 6" WT-1 kg.	1 No.
22	Sizzeore Passing	Steel -Size 8"	1 No.
23	Thread cutter	Steel with plastic Handle, Size-L 100 mm.	1 No.
24	Number sety	Steel	1 set (10 pcs.)
25	Capsol Punch	Size (8-10-12-16)	1 set
26	Brush	Size-10 mm,12mm, 25mm.	1 No.
	Machine Tools		
27	HD Flat Bad Swing Machine	31 K. Branded Company	1 No.

5.One set of Blacksmith Tools

COST Rs. 6000/= per Kit

S.No.	Name of tools	Specfication	Quantity
1	Big Hammer	Ghon-5 kg	1 No.
2	Hammer	Ghon-1 kg	1 No.
3	Hammer	Ghon- 1/2 kg	1 No.
4	Anvil - chouka	Ghon-10 kg	1 No.
5	Chisrl-3Nos	Ghon-1 kg, 500 kg.,750 kg.	1 No.
6	Measurement Tape	3 MTR	1 No.
7	Triangle	6"	1 No.
8	plie Taparia	8"	1 No.
9	Screw driver Taparia	10"	1 No.
10	Tin	10"	1 No.
11	Hand operated electric hand drill	&	1 No.
12	Sansasi-flat and round	&	1 No.
13	Table Vice	&	1 No.
14	Haksa Frame Poland type	&	1 No.

5.One set of Blacksmith Tools

COST Rs. 6000/= per Kit

S.No.	Name of tools	Specfication	Quantity
1	Hammer	500 gm	1 No.
2	Hammer	1 kg	1 No.
3	Plies Taparia	8"	1 No.
4	Screw driver Taparia	6"-8"-12"	1 No.
5	Pincer - 6"	6"	1 No.
6	Nose plier-6"	6"	1 No.
7	Alignment equipment cycle wheel		1 No.
8	Anivil-Chowka	5 kg.	1 No.
9	Screw wrench	10"	1 No.
10	Hexa Frame poloud type		1 No.
11	Spanner Set fix type 8 pcs	8 pcs	1 No.
12	Electric hand drill machine		1 No.
13	Hand Skipper	10"	1 No.
14	Solution		
15	Water Pump Plier		1 No.
16	Punch	6"	1 No.
17	Hand Scissors	8"	1 No.
18	Oil cane	250 gm	1 No.

MODEL ESTIMATE FOR ANIMAL HEALTH CAMP

In western Rajasthan due to lack of rainfall the climate is very drastic. Due to wich the live stock of western Rajasthan face many problems related to their feed & to maintain their body immunity against climate. Due to wich they can face many tipes of disease due to unfaverable climate condition and mostly by the owner who can use the animals till the animal can gave milk after that he can not take care of the animals. Due this many type type of diseases like parasitic diseases it may be inner or outer, milk fever, Mtitis, Manage, tympany, Diahorria, fever, Infertility, Pyrometra, Indigestion, FMD, Hs, BQ, ETV, etc. are many types of diseases wich the animal can generally face due to wich owner can face double loss first loss of money on treatment & on effect on animal production. For this in IWMP scheeme the animal health camp can be organised 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 villagers by various means like posters, banner, ghosthi & various oth

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

Per camp cost :-	Madicine	=	21500.00
	Rent of Jeep (for two days)	=	1500.00
	Govt. Doctor or Staff	=	1000.00
		Total =	24000.00

- General Madicine:-
  - Antibiotic :- - inj. - OTC - 100 ml.
    - inj. - Enrocin - 100 ml.
  - Ointment :- - ont. - Loroxine - 100 gm.
    - ont. - Vetmox - 50 gm.
  - Cottons :- 100 gm.

Instruments :-

- Catha tor
- Trokar Canvla
- Forseps
- Teat Syphin

- Bandage :- 6"
- Syringe :- 50 ml.
- Needle :- 16"
- Mineral Mixture :- pow. = Calfos Ao3 = 1 Kg.
- Vitamin :- inj. = Vitasef

- Primary Treatment
  - P.P :- 100 gm. (5)
  - Mag sulph :- 101 gm. (20)
  - Soda by Carb :- 102 gm. (20)
  - T.T. Oil :- 100 ml (3)
  - Liq :- Notaodom (3)
  - 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 - Ruwi nox
- Dishorria :- Bolus - Botrim
  Bolus - SDM
  inj. - Bi0tin 3
- Fever :- inj. - proxyvet mp.

inj. - Oxy
Tab. - Proxyvet 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 gm.
  Pow. - Mag. Sulph - 100 gm.
  inj. - B complex (Belayle) 100 ml.
  inj. - Oxy. 100 ml.

- Deworning :- 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

Qly in'ku Crop-Demonstration (Kharif)

I-INPUTS

A- Crop : Bajra
Variety : HHB-67,HHB-69
Maturity Period : 70-85 days
Yield : 15-25 q/ha
Each Demonstration Area : 0.5 ha

S.No.	Inputs	Recommended Qty/demo	Rate Rs./kg	Amount
1	Seed	2 kg	36.00	72.00
2	D.A.P.	20 kg	10.44	208.80
3	Urea	25 kg	5.58	139.50
4	Fym	250 kg	2.00	500.00
			Total	**920.30**
			Say Rs.	**920/Demo**

B- Crop : Moong
Variety : K-851
Maturity Period : 60-80 days
Yield : 7-10 q/ha
Each Demonstration Area : 0.5 ha

S.No.	Inputs	Recommended Qty/demo	Rate Rs./kg	Amount
1	Seed	8 kg	70.00	560.00
2	D.A.P.	40 kg	10.44	417.60
3	Fym	250 kg	2.00	500.00
			Total	**1477.60**
			Say Rs.	**1478/Demo**

C- Crop : Moth
Variety : RM-40
Maturity Period : 60-62 days
Yield : 6-8 q/ha
Each Demonstration Area : 0.5 ha

S.No.	Inputs	Recommended Qty/demo	Rate Rs./kg	Amount
1	Seed	5 kg	70.00	350.00
2	D.A.P.	20 kg	10.44	208.80
3	Fym	250 kg	2.00	500.00
			Total	**1058.80**
			Say Rs.	**1059/Demo**

D- Crop : Gawar
Variety : RGM-112
RGC-1017,RGC-936
Maturity Period : 80-110 days
Yield : 8-12 q/ha
Each Demonstration Area : 0.5 ha

S.No.	Inputs	Recommended Qty/demo	Rate Rs./kg	Amount
1	Seed	10 kg	40.00	400.00
2	D.A.P.	40 kg	10.44	417.60
3	Fym	250 kg	2.00	500.00
			Total	**1317.60**
			Say Rs.	**1318/Demo**

E- Crop : Til
Variety : RT-46,RT-125,RT-127
Maturity Period : 70-85 days
Yield : 8-10 q/ha
Each Demonstration Area : 0.5 ha

S.No.	Inputs	Recommended Qty/demo	Rate Rs./kg	Amount
1	Seed	2 kg	80.00	160.00
2	D.A.P.	25 kg	10.44	261.00
3	Urea	30 kg	5.58	167.40
4	Fym	250 kg	2.00	500.00
			Total	**1088.40**
			Say Rs.	**1088/Demo**

vkl r pkt t ifr in'ku ¾ 920$1478$1059$1318$1088

5

5863@5 ¾ 1172-60 #-

Say= 1172 #-

Labour : The crop demonstration will be a joint venture of the project & farmers. Farmer will provide labour & will perform cultural operation, harvesting & Threshing by themselves.

Note : Cost of seed, fertilizer has been taken from Rajasthan State Seed Corporation & Marketing society.

Scheme: IWMP
Watershed: Matolchak (Jodhpur-32)

Panchayat Samiti: PHALODI
District: Jodhpur

PASTURE DEVELOPMENT

DETAILED ESTIMATE AND ABSTRACT OF COST

Name Of Work: Pasture Development Works in Arable land

d-l-	dk;Z fooj.k	ifr	ek=k	nj	jkf'k
1	lo.k@/kkse.k ?kkl dk cht ,df=r@[kjhn djuk ¼7 fdyk ifr gDV;j½	Kg.	7	160.00	1120.00
2	7 fdyk ?kkl dk cht] [kkn] jr o fpduh feVVh dk feJ.k 1%1%2%2 e cukdj xkfy;k r;kj djuk ¼dy lkexh 42 fdyk½	Kg.	7	27.84	194.88
3	Qjkl ij fMfCyx }kjk ?kkl cht dh xkfy;k dh cokb djuk	Kg.	7.00	135.00	945.00
				TOTAL	2259.88
				Add 4 % Contigency	90.40
				G. TOTAL	2350.28
				Say Rs.	**2350.00**
					Per Hact..

Say Rs.=2350.00 per Hact.

(Rupees Two Thousand Three hundred Fifty only)

Labour	1369.00
Material	891.00
Contigency	90.40
Total	2350.40

Note: Rate has been taken from the BSR issued by Zila Parishad Jodhpur on 8/4/2011.

W. D. T. (Technical)
I. W. M. P.
P. S. Phalodi

A. En. & P. I. A.
I. W. M. P.
P. S. Phalodi

Scheme: IWMP Panchayat Samiti: PHALODI

Watershed: Matolchak (Jodhpur-32) District: Jodhpur

PLANTATION

DETAILED ESTIMATE AND ABSTRACT OF COST

Name Of Work: Plantation Works in Non Arable land

(A) I st Year

d-l-	dk;Z fooj.k	ifr	ek=k	nj	jkf'k
1	45 x 45 x 45 leh eki d xMM djuk dBkj feVVh ddj@eje feVVh ¼ch-,l-vkj- vkbVe u- 2 c o l½	Nos.	300 200	6.80 13.40	2040.00 2680.00
2	ik/kk jkfir djuk ¼c½ lkekU; tehu e iFkjhyh tehu ¼ch-,l-vkj- vkbVe u- 113 c o l½	Nos.	300 200	3.60 3.00	1080.00 600.00
3	ik/kk dh fujkb xMkb djuk 15 leh xgjkb rd rFkk 45 leh v)Z;kl rd ¼ch-,l-vkj- vkbVe u- 116½	Nos.	2x500= 1000	1.20	1200.00
4	ik/kk dk dhVuk'kd nuk e; dhVuk'kd dh dher ¼ckt kj nj d vul kj½	Nos.	500.00	2.00	1000.00
5	Fkkoyk cukuk] de l de 50 leh v)Z;kl dk iFkjhyh tehu vU; tehu ¼ch-,l-vkj- vkbVe u- 117 v o c½	Nos.	200 300	2.40 1.80	480.00 540.00
6	ik/kk dk ikuh fiykuk 15 yhVj ifr ik/kk ¼o"k e 12 ckj½ 500x6=3000 ¼ch-,l-vkj- vkbVe u- 115½	Nos.	6000.00	1.80	10800.00
7	ik/k dh ykxr e; ifjogu ¼ckt kj nj d vul kj½	Nos.	500.00	20.00	10000.00
8	ik/kk dk ifjogu uljh l o{kkjki.k LFky rd ¼ykfMx o vuykfMx lfgr½ 1 fd-eh- ÅV xkMh }kjk	Nos.	500.00	1.00	500.00
9	ikuh dh ykxr e; ifjogu 5 fd-eh- rd 15 yh X 3000 = 45000 yh- ¼ch-,l-vkj- vkbVe u- 108½	Liter	45000.00	42.2/1000	1899.00
10	iky o y l cpko gr >ki cukuk	Nos.	100.00	3.62	362.00
11	100 ik?kk d ifux djuk ¼ekMy ,LVheV ou foHkkx½	Nos.	100.00	0.96	96.00
12	ik/kk dh n[kHkky o lj{kk	Nos.	500.00	LS	5300.00

TOTAL(A) 38557.00

Scheme: IWMP
Watershed:Matolchak (Jodhpur-32)

Panchayat Samiti: PHALODI
District: Jodhpur

DETAILED ESTIMATE AND ABSTRACT OF COST

Name Of Work: Plantation Works in Non Arable land

(B) II nd Year

d-l-	dk;Z fooj.k	ifr	ek=k	nj	jkf'k
1	100 ik/kk dk dt;YVh fjiyleV djuk	Nos.	100.00	1.35	135.00
2	ik/k dh ykxr e; ifjogu ¼ckt tkj nj d vulkj½	Nos.	100.00	20.00	2000.00
3	ik/kk dk ifjogu uljh l o{kjki.k LFky rd ¼ykfMx o vuykfMx lfgr½	Nos.	100.00	1.00	100.00
4	ik/kk dh fujkb xMkb djuk 15 leh xgjkb rd rFkk 45 leh v)Z;kl rd 2x500=1000 ¼ch-,l-vkj- vkbVe u- 116½	Nos.	1000.00	1.20	1200.00
5	ik/kk dk ikuh fiykuk 15 yhVj ifr ik/kk ¼o"k e 6 ckj½ 500 x 3 =1500 ¼ch-,l-vkj- vkbVe u- 115½	Nos.	3000.00	1.80	5400.00
6	ikuh dh ykxr e; ifjogu 5 fd-eh- rd 15 yh X 1500 = 22500 yh- ¼ch-,l-vkj- vkbVe u- 108½	Nos.	22500.0	37.4/100	841.50
7	100 ik/kk d fy, iky@y l lj{kk gr >ki cukuk	Nos.	100.0	3.62	362.00
8	100 ik/kk dh ifux djuk	Nos.	100.0	0.96	96.00
9	ik/kk dh n[kHkky o lj{kk	Nos.	500.0	LS	5300.00
				TOTAL(B)	**15434.50**

Scheme: IWMP
Watershed:Matolchak (Jodhpur-32)

Panchayat Samiti: OSIAN
District: Jodhpur

DETAILED ESTIMATE AND ABSTRACT OF COST

Name Of Work: Plantation Works in Non Arable land

(C) III rd Year

d-l-	dk;l fooj.k	ifr	ek=k	nj	jkf'k
1	ik/kk dk ikuh fiykuk 15 yhVj ifr ik/kk ¼o"k e 2 ckj½ 500 x 2 =1000 ¼ch-,l-vkj- vkbVe u- 115½	Nos.	1000.00	1.90	1800.00
2	ikuh dh ykxr e; ifjogu 5 fd-eh- rd 15 yh X 1000 = 15000 yh- ¼ch-,l-vkj- vkbVe u- 108½	Nos.	15000.0	42.2/100	633.00
3	ik/kk dh fujkb xMkb djuk 15 leh xgjkb rd rFkk 45 leh v)Z;kl rd 1x500=1000 ¼ch-,l-vkj- vkbVe u- 116½	Nos.	500.00	1.30	650.00
4	200 ik/kk dh ifux djuk	Nos.	200.0	0.96	192.00
5	ik/kk dh n[kHkky o lj{kk	Nos.	500.0	LS	5300.00
				TOTAL(C)	**8575.00**

Scheme: IWMP
Watershed: Sh. Benguti Kallan (Jodhpur-34)

Panchayat Samiti: PHALODI
District: Jodhpur

DETAILED ESTIMATE AND ABSTRACT OF COST

Name Of Work: Plantation Works in Non Arable land

(D) **IV th Year**

d-l-	dk;l fooj.k	ifr	ek=k	nj	jkf'k
1	ik/kk dh n[kHkky o lj{kk	Nos.	500.0	LS	5300.00
				TOTAL(D)	5300.00

Total Cost Per Ha. (A+B+C)=38457+15434.5+8453+5300=56229.50

	67866.50
Add 4% Contigency	2714.66
G. TOTAL	70581.16
Say Rs.	**70500.00**
	Per Ha.

(Rupees Forty Eight Thousand Five hundred only)

Labour	45500.00
Material	22290.00
Contigency	2710.00
Total	**70500.00**

Note: Rate has been taken from the BSR issued by Zila Parishad Jodhpur on 1/4/2012.

W. D. T. (Technical)
I. W. M. P.
P. S. PHALODI

A. En. & P. I. A.
I. W. M. P.
P. S. Phalodi

ykxr rdehuk

uke ty xg.k {k= % eVkypd

dk; dk uke&pjkxkg Hkfe ij [kkb Qflx

xko dk uke %

{k=Qy% 35 gDV;j 35.00

Ø-l-	fooj.k	ek=k	bdkbZ	nj		jkf'k	
				Je	dqy	Je	dqy
1	Mkx cfyx 2-5 l 5 leh xgjkb rd ¼ft-Lr-nj-vu-½	3530.00	ehVj	0.7	0.70	2471.00	2471.00
2	uho] [kkb ijukyk e 1-5 xgjkb rd feVVh dk [knkb djuk] ry dk dVuk] ikuh Mkyuk]cxy dk lokjuk][knh feVVhdk ckgj fudkyuk] uho Hkju d ckn [kkyh LFkkuk dk iu% feVVh l Hkjuk rFkk cph gb feVVh dk 50 ehVj njh rd fuLrkj.k djukA l[r feVVh eA [kkb gr	5083.20	?k-eh-	100	100.00	508320.00	508320.00
3	fMcfyx fof/k l okfudh cht cokb dk;	10500.00	ehVj	0.6	0.60	6300.00	6300.00
4	okfudh cht k dh jkf'k	50.00	fd-xk	-	40.00		2000.00
5							
	;kx					**517091.00**	**519091.00**
	;kx						**519091.00**
	tkMk 4% dUVkstUlh						**20763.64**
	;kx						**539854.64**
	ykxr Je Hkkx						**517091.00**
	ykxr lkexh Hkkx						**22763.64**
	dqy ;kx						**539854.64**
						Say	**540000.00**

ykxr rdehuk

uke ty xg.k {k= % eVkypd

dk; dk uke& df'k Hkfe ij
वेजीटेटिव कन्टूरबन्ड

1 80

Ø-l-	fooj.k	ek=k	bdkbZ	nj		jkf'k	
				Je	dqy	Je	dqy
1	Mkx cfyx 2-5 l 5 leh xgjkb rd ¼ft-Lr-nj-vu-2011½	160.00	eh Vj	0.70	0.70	112.00	112.00
2	feVVh dk dk; cU/k e ¼l [kh ;k xhyh½ 15 leh ijr e Mkyuk] <yk dk rkMuk] ?kkl&ikr rFkk ddj chudj vyx djuk rFkk feVVh dh njlh djuk 1-5 eh0 mBkuk rFkk 50 eh Vj njh d fy,A dBkj feVVh e feVVh dh dVkb ekuo }kjk ;k lyu jkyj }kjk A¼ft-Lr-nj-vu-2011½	99.20	?k-eh-	100.00	100.00	9920.00	9920.00
3	/kkeu@?kkl cht cokb cuk; x; fjt ij nk ykbuk e ¼ft-Lr-nj-vu-2011½	240.00	eh Vj	0.60	0.60	144.00	144.00
4	/kkeu ?kkl cht	1.00	fd-xk	.	61.50		61.50
	;kx					10176.00	10237.50
	;kx						10237.50
	tkMk 4% dUVkstUlh						409.50
	;kx						10647.00
	ykxr Je Hkkx						10176.00
	ykxr lkexh Hkkx						471.00
	dqy ;kx						10647.00
						Say	11000.00

foLr`r rdehuk

uke ty xg.k {k=& tk/kij&32 **(I.W.M.P)** dk; dk uke&vdf"k Hkfe ij dUVj Qjk
xko dk uke % {k=Qy% 150 gDVj

Ø-l-	fooj.k	y-xpk-xx- = dqy ek=k
1	, Qe yoy l 8 l 15 ehVj {kfrt vUrjky e lekPp j[kk ij y vkmV dk dk;	150 gDV;j @ 800eh0@gDV;j=120000 eh0
2	Mkx cfyx 2-5 l 5 leh xgjkb rd ¼ft-Lr-nj-vu-2010i-l0 25 d-l- 182½	1,20,000 eh-
3	uho] [kkb ijuky k e 1-5 xgjkb rd feVVh dk [knkb djuk] ry dk dVuk] ikuh Mkyuk]cxy dk lokjuk][knh feVVhdk ckgj fudkyuk] uho Hkju d ckn [kkyh LFkkuk dk iu% feVVh l Hkjuk rFkk cph gb feVVh dk 50 ehVj njh rd fuLrkj.k djukA l[r]fpduh] ddj] feVVh eA uho gr¼ft-Lr-nj-vu-2010i-l0 5d-l- 2c½	1,20,000 eh x1/2x0.60x0.30=108000
4	cht cokb cuk; x; fjt ij	1,20,000 eh-
5	cht dh ek=k ¼/kke.k½	1,20,000 eh- @ 1 fd-xk-@100 ehVj=1200

ykxr rdehuk

uke ty xg.k {k=& tk/kij&32 (**I.W.M.P**) dk; dk uke&vdf"k Hkfe ij dUVj Qjk

xko dk uke % {k=Qy% 150 gDVj

Ø-l-	fooj.k	ek=k	bdkbZ	nj		jkf'k"	
				Je	dy	Je	dy
1	, Qe yoy l 8 l 15 ehVj {kfrt vUrjky e lekPp j[kk ij y vkmV dk dk;	120000	eh-	0.85	0.85	102000.00	102000.00
2	Mkx cfyx 2-5 l 5 leh xgjkb rd ¼ft-Lr-nj-vu-2010i-l0 25 d-l- 182½	120000	eh-	0.35	0.35	42000.00	42000.00
3	uho] [kkb ijuky e 1-5 xgjkb rd feVVh dk [knkb djuk] ry dk dVuk] ikuh Mkyuk]cxy dk lokjuk][knh feVVhdk ckgj fudkyuk] uho Hkju d ckn [kkyh LFkkuk dk iu% feVVh l Hkjuk rFkk cph gb feVVh dk 50 ehVj njh rd fuLrkj.k djukA l[r]fpduh] ddj] feVVh eAuho gr¼ft-Lr-nj-vu-2010i-l0 5 d-l- 2c½	10800	?k-eh-	61.00	61.00	658800.00	658800.00
4	cht cokb cuk; x; fjt ij	120000	eh-	0.44	0.44	52800.00	52800.00
5	cht dh ek=k ¼/kke.k½	1200	fd-xk-	-	50.00	-	60000.00
	;kx					**855600.00**	**915600.00**
	tkMk Jfed nj e c<kRrjh 35%						**299460.00**
	;kx						**1215060.00**
	tkMk 3% dUVkstUlh						**36451.80**
	;kx						**1251511.80**
	ykxr Je Hkkx						**1155060.00**
	ykxr lkexh Hkkx						**96451.80**
	dy ;kx						**1251511.80**
						Say	**1251000.00**

foLr`r rdehuk

uke ty xg.k {k=& tk/kij&34 **(I.W.M.P)** dk; dk uke&vdf"k Hkfe ij dUVj Qjk
xko dk uke % {k=Qy% 100 gDVj

Ø-l-	fooj.k	y-xpk-xx- = dqy ek=k
1	, Qe yoy l 8 l 15 ehVj {kfrt vUrjky e lekPp j[kk ij y vkmV dk dk;	100 gDV;j @ 800eh0@gDV;j=80000 eh0
2	Mkx cfyx 2-5 l 5 leh xgjkb rd ¼ft-Lr-nj-vu-2010i-l0 25 d-l- 182½	80000 eh-
3	uho] [kkb ijuky k e 1-5 xgjkb rd feVVh dk [knkb djuk] ry dk dVuk] ikuh Mkyuk]cxy dk lokjuk][knh feVVhdk ckgj fudkyuk] uho Hkju d ckn [kkyh LFkkuk dk iu% feVVh l Hkjuk rFkk cph gb feVVh dk 50 ehVj njh rd fuLrkj.k djukA l[r]fpduh] ddj] feVVh eA uho gr ¼ft-Lr-nj-vu-2010i-l0 5 d-l- 2c½	80000 eh x1/2x0.60x0.30=7200
4	cht cokb cuk; x; fjt ij	8000 eh-
5	cht dh ek=k ¼/kke.k½	8000 eh- @ 1 fd-xk-@100 ehVj=800

ykxr rdehuk

uke ty xg.k {k=& tk/kij&32 (I.W.M.P) dk; dk uke&vdf"k Hkfe ij dUVj Qjk

xko dk uke % {k=Qy% 100 gDVj

Ø-l-	fooj.k	ek=k	bdkbZ	nj		jkf'k	
				Je	dqy	Je	dqy
1	, Qe yoy l 8 l 15 ehVj {kfrt vUrjky e lekPp j[kk ij y vkmV dk dk;	80000.00	eh-	0.85	0.85	68000.00	68000.00
2	Mkx cfyx 2-5 l 5 leh xgjkb rd ¼ft-Lr-nj-vu-2010i-l0 25 d-l- 182½	80000.00	eh-	0.35	0.35	28000.00	28000.00
3	uho] [kkb ijukyk e 1-5 xgjkb rd feVVh dk [knkb djuk] ry dk dVuk] ikuh Mkyuk]cxy dk lokjuk][knh feVVhdk ckgj fudkyuk] uho Hkju d ckn [kkyh LFkkuk dk iu% feVVh l Hkjuk rFkk cph gb feVVh dk 50 ehVj njh rd fuLrkj.k djukA l[r]fpduh] ddj] feVVh eA uho gr ¼ft-Lr-nj-vu-2010i-l0 5 d-l- 2c½	7200.00	?k-eh-	61.00	61.00	439200.00	439200.00
4	cht cokb cuk; x; fjt ij	80000.00	eh-	0.44	0.44	35200.00	35200.00
5	cht dh ek=k ¼kke.k½	800.00	fd-xk-	-	50.00	-	40000.00
	;kx					570400.00	610400.00
	tkMk Jfed nj e c<kRrjh 35%						199640.00
	;kx						810040.00
	tkMk 3% dUVkDtUlh						24301.20
	;kx						834341.20
	ykxr Je Hkkx						770040.00
	ykxr lkexh Hkkx						64301.20
	dqy ;kx						834341.20
						Say	834000.00

foLr'r rdehuk

uke ty xg.k {k=& tk/kij&32 **(I.W.M.P)** dk; dk uke&vdf"k Hkfe ij dUVj Qjk
xko dk uke % {k=Qy% 100 gDVj

Ø-l-	fooj.k	y-xpk-xx- = dqy ek=k
1	, Qe yoy l 8 l 15 ehVj {kfrt vUrjky e lekPp j[kk ij y vkmV dk dk;	100 gDV;j @ 800eh0@gDV;j=80000 eh0
2	Mkx cfyx 2-5 l 5 leh xgjkb rd ¼ft-Lr-nj-vu-2010i-l0 25 d-l- 182½	80000 eh-
3	uho] [kkb ijuky k e 1-5 xgjkb rd feVVh dk [knkb djuk] ry dk dVuk] ikuh Mkyuk]cxy dk lokjuk][knh feVVhdk ckgj fudkyuk] uho Hkju d ckn [kkyh LFkkuk dk iu% feVVh l Hkjuk rFkk cph gb feVVh dk 50 ehVj njh rd fuLrkj.k djukA l[r]fpduh] ddj] feVVh eA uho gr ¼ft-Lr-nj-vu-2010i-l0 5 d-l- 2c½	80000 eh x1/2x0.60x0.30=7200
4	cht cokb cuk; x; fjt ij	8000 eh-
5	cht dh ek=k ¼/kke.k½	8000 eh- @ 1 fd-xk-@100 ehVj=800

ykxr rdehuk

uke ty xg.k {k=& tk/kij&34 (I.W.M.P) dk; dk uke&vdf"k Hkfe ij dUVj Qjk
xko dk uke % jk;Mk {k=Qy% 100 gDVj

Ø-l-	fooj.k	ek=k	bdkbZ	nj		jkf'k	
				Je	dy	Je	dy
1	, Qe yoy l 8 l 15 ehVj {kfrt vUrjky e lekPp j[kk ij y vkmV dk dk;	80000.00	eh-	0.85	0.85	68000.00	68000.00
2	Mkx cfyx 2-5 l 5 leh xgjkb rd ¼ft-Lr-nj-vu-2010i-l0 25 d-l- 182½	80000.00	eh-	0.35	0.35	28000.00	28000.00
3	uho] [kkb ijukyk e 1-5 xgjkb rd feVVh dk [knkb djuk] ry dk dVuk] ikuh Mkyuk]cxy dk lokjuk][knh feVVhdk ckgj fudkyuk] uho Hkju d ckn [kkyh LFkkuk dk iu% feVVh l Hkjuk rFkk cph gb feVVh dk 50 ehVj njh rd fuLrkj.k djukA l[r]fpduh] ddj] feVVh eA uho gr ¼ft-Lr-nj-vu-01.05.2012½	7200.00	?k-eh-	100.00	100.00	720000.00	720000.00
4	cht cokb cuk; x; fjt ij	80000.00	eh-	0.44	0.44	35200.00	35200.00
5	cht dh ek=k ¼/kke.k½	800.00	fd-xk-	-	50.00	-	40000.00
	;kx					851200.00	891200.00
	tkMk Jfed nj e c<kRrjh 35%						297920.00
	;kx						1189120.00
	tkMk 4% dUVkstU lh						35673.60
	;kx						1224793.60
	ykxr Je Hkkx						1149120.00
	ykxr lkexh Hkkx						75673.60
	dy ;kx						1224793.60
						Say	1225000.00

ykxr rdehuk

uke ty xg.k {k= % eVkypd

dk; dk uke& df'k Hkfe ij
oth VfVo cUM

1.00 35.00

Ø-l-	fooj.k	ek=k	bdkbZ	nj		jkf'k	
				Je	dqy	Je	dqy
1	Mkx cfyx 2-5 l 5 leh xgjkb rd ¼ft-Lr-nj-vu-2010i-l025 d-l- 182½	70.00	eh Vj	0.7	0.70	49.00	49.00
2	feVVh dk dk; cU/k e ¼l [kh ;k xhyh½ 15 leh ijr e Mkyuk] <yk dk rkMuk] ?kkl&ikr rFkk ddj chudj vyx djuk rFkk feVVh dh njlh djuk 1-5 eh0 mBkuk rFkk 50 eh Vj njh d fy,A dBkj feVVh e feVVh dh dVkb ekuo }kjk ;k lyu jkyj }kjk A¼ft-Lr-nj	100.80	?k-eh-	100	100.00	10080.00	10080.00
3	/kkeu@?kkl cht cokb cuk; x; fjt ij nk ykbuk e ¼ft-Lr-nj-vu-2010i-l020 d-l- 129½	105.00	eh Vj	0.6	0.60	63.00	63.00
4	/kkeu ?kkl cht	1.00	fd-xk	-	61.50		61.50
	;kx					**10192.00**	**10253.50**
	;kx						**10253.50**
	tkMk 4% dUVkstUlh						**410.14**
	;kx						**10663.64**
	ykxr Je Hkkx						**10192.00**
	ykxr lkexh Hkkx						**471.64**
	dqy ;kx						**10663.64**

Say **11000.00**

ykxr rdehuk

uke ty xg.k {k= % eVkypd

dk; dk uke& df'k Hkfe ij
वेजीटेटिव बन्ड

1.00 22.50

Ø-l-	fooj.k	ek=k	bdkbZ	nj		jkf'k	
				Je	dqy	Je	dqy
1	Mkx cfyx 2-5 l 5 leh xgjkb rd ¼ft-Lr-nj-vu-	45.00	ehVj	0.7	0.70	31.50	31.50
2	feVVh dk dk; cU/k e ¼l[kh ;k xhyh½ 15 leh ijr e Mkyuk] <yk dk rkMuk] ?kkl&ikr rFkk ddj chudj vyx djuk rFkk feVVh dh njlh djuk 1-5 eh0 mBkuk rFkk 50 ehVj njh d fy,A dBkj feVVh e feVVh dh dVkbZ ekuo }kjk ;k lyu jkyj }kjk A¼ft-Lr-nj	101.25	?k-eh-	100.00	100.00	10125.00	10125.00
3	/kkeu@?kkl cht cokbZ cuk; x; fjt ij nk ykbuk e ¼ft-Lr-nj-vu-½	67.50	ehVj	0.6	0.60	40.50	40.50
4	/kkeu ?kkl cht	1.00	fd-xk	-	61.50		61.50
	;kx					**10197.00**	**10258.50**
	;kx						**10258.50**
	tkMk 4% dUVkDVjh						**410.34**
	;kx						**10668.84**
	ykxr Je Hkkx						**10197.00**
	ykxr lkexh Hkkx						**471.84**
	dqy ;kx						**10668.84**
						Say	**11000.00**

MODEL ESTIMATE

uke ty xg.k {k= % eVkypd dk; dk uke&df"k Hkfe ij okfudh ik/kkjki.k

ik/kk dh l[;k% 100

Ø-l-	fooj.k	ek=k	bdkbZ	nj		jkf'k	
				Je	dqy	Je	dqy
1	45x45x45 leh- eki d xMM djuk dBkj feVVh 400 xMM@gDVj ¼ft-Lr-nj-vu-	100	l[;k	6.80	6.80	680.00	680.00
2	ik/k jki.k djuk ¼ft-Lr-nj-vu-2011	100	l[;k	3.00	3.00	300.00	300.00
3	ik/kk dh dher	108	l[;k	-	5.00	-	540.00
4	ik/kk dk ifjogu ik/k Hkjkb ,o [kkyh djkb lfgr 5 fd0eh- njh rd d fy,	108	l[;k @1000	-	908.21		98.09
5	ik/k jki.k d le; Mh,ih Mkyuk	3	fd-xk-	-	10.00	-	30.00
6	nhed fu;U=.k gr ,UMkl YQku 4% p.k	10	fd-xk-	-	12.00	-	120.00
7	ik/kk e mojd ,o dhV uk"kd nokb Mkyuk	100	l[;k	0.21	0.21	21.00	21.00
	;kx					**1001.00**	**1789.09**
	;kx						**1789.09**
	tkMk 4% dUVkstUlh						**71.56**
	;kx						**1860.65**
	ykxr Jke Hkkx						**1001.00**
	ykxr lkexh Hkkx						**859.65**
	dqy ;kx						**1860.65**
						Say	**1900.00**

Say 19 : @ ik/kk

ykxr rdehuk

कार्य का नाम – कम्पोस्ट पिट यूनिट

Ø-l-	fooj.k	ek=k	bdkbZ	nj		jkf"k	
				Je	dqy	Je	dqy
1	uho] [kkbZ ijukyk e 1-5 xgjkbZ rd feVVh dk [knkbZ djuk] ry dk dVuk] ikuh Mkyuk]cxy dk lokjuk][knh feVVhdk ckgj fudkyuk] uho Hkju d ckn [kkyh LFkkuk dk iuZ feVVh l Hkjuk rFkk cph gb feVVh dk 50 ehVj njh rd fuLrkj.k djukA l[r]fpduh]	10.80	?k-eh	100.00	100.00	1080.00	1080.00
2	flxy lqij QkLQV	150.00	fd-xk-	-	4.00	-	600.00
3	;fj;k	30.00	fd-xk-		6.00	-	180.00
4	dYpj ifdV	3.00	l[;k	-	10.00	-	30.00
	;kx					**1080.00**	**1890.00**
	;kx						**1890.00**
	tkMk 4% dUVkstUlh						**75.60**
	;kx						**1965.60**
	ykxr Je Hkkx						**1080.00**
	ykxr lkexh Hkkx						**885.60**
	dqy ;kx			137.778			**1965.60**
						Say	**2000.00**

ykxr rdehuk

dk; dk uke& Qynkj ik/kk dh ;fuV

;fuV dk {k=Qy% 0-20 gDV; j½55 ik/k@;fuV½

Ø-l-	fooj.k	ek=k	bdkbZ	nj		jkf"k	
				Je	dy	Je	dy
1	uho] [kkb ijukyk e 1-5 xgjkb rd feVVh dk [knkb djuk] ry dk dVuk] ikuh Mkyuk]cxy dk lokjuk][knh feVVhdk ckgj fudkyuk] uho Hkju d ckn [kkyh LFkkuk dk iuZ feVVh l Hkjuk rFkk cph gb feVVh dk 50 ehVj njh rd fuLrkj.k djukA l[r]fpduh]	40.09	?k-eh-	92.00	92.00	3688.28	3688.28
2	xkcj dh [kkn	550	fd-xk-	-	2.50	-	1375.00
3	lijQkLQV	20	fd-xk-	-	3.50		70.00
4	ikVk'k	5.00	fd-xk-	-	4.00	-	20.00
5	;fj;k	12	fd-xk-	-	5.00	-	60.00
6	nhed dh jkdFkke gr dhVuk'kd nokb ¼,UMkl YQku 4% p.k½	6	fd-xk-	-	12.00		72.00
7	ik/k jki.k djuk ¼ft-Lr-nj-vu-2011½	55	l[;k	3.00	3.00	165.00	165.00
8	ik/kk dh dher	55	l[;k	-	15.00	-	825.00
9	ik/kk ij yxu oky dhM edkMk d fu;U=.k gr ekukdkVkQkl 36 b-lh	0.25	yhVj	-	360.00	-	90.00
10	ik/kk e mojd ,o nokb Mkyuk ¼ft-Lr-nj-vu-2011½	110	l[;k	0.21	0.21	23.10	23.10
	;kx					**3876.38**	**6388.38**
	;kx						**6388.38**
	tkMk 4% dUVkstUlh						**255.54**
	;kx						**6643.92**
	ykxr Je Hkkx						**3876.38**
	ykxr lkexh Hkkx						**2767.54**
	dy ;kx						**6643.92**
						Say	**6700.00**

foLr`r rdehuk

uke ty xg.k {k= ¼ eVkypd

xko dk uke ¼

dk; dk uke& Qynkj ik/kk dh ;fuV

;fuV dk {k=Qy¼ 0-20gDV;j½55 ik/k@;fuV½

Ø-l-	fooj.k	y-xpk-xx- = dy ek=k
1	uho] [kkb ijukyk e 1-5 xgjkb rd feVVh dk [knkb djuk] ry dk dVuk] ikuh Mkyuk]cxy dk lokjuk][knh feVVhdk ckgj fudkyuk] uho Hkju d ckn [kkyh LFkkuk dk iu¼ feVVh l Hkjuk rFkk cph gb feVVh dk 50 ehVj njh rd fuLrkj.k djukA l[r]fpduh]	55x0.90x0.90x0.90= 40.09 ?k-eh
2	xkcj dh [kkn	55 xMM @ 10 fd-xk-@xMMk =550 fd-xk-
3	l ijQkLQV	55 xMM @ 0.35 fd-xk-@xMMk =19.25 fd-xk- say 20 fd-xk-
4	ikVk'k	55 xMM @ 0.08 fd-xk-@xMMk =4.4 fd-xk- say 5.00 fd-xk-
5	;fj;k	55 xMM @ 0.22 fd-xk-@xMMk=12.10 fd-xk- say 12.00 fd-xk-
6	nhed dh jkdFkke gr dhVuk'kd nokb ¼,UMk lYQku 4¼ p.k½	55 xMM @ 0.10 fd-xk-@xMMk =5.50 fd-xk- say 6.00 fd-xk-
7	ik/k jki.k djuk	55
8	ik/kk dh dher	55
9	ik/kk ij yxu oky dhM edkMk d fu;U=.k gr ekukdkVkQk l 36 b-lh	0.25 yhVj-@;fuV
10	ik/kk e mojd ,o nokb Mkyuk	110

10 ;fuV

GEOREFERENCED KHASRA MAP

WATERSHED - MATALCHOK (IWMP)

PANCHAYAT SAMITI - PHALODI

DISTRICT- JODHPUR

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W E

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1:12,000

Khara

Dadarwala Ki Dhani

DAYASAGAR

DAHDU-MATALCHOUK

Legend

- ROAD
- VILLAGE
- KHASRA BOUNDARY
- SETTLEMENT
- WATERBODY

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JODHPUR

CARTOSAT-1 (LISS- III MERGE) SATELLITE IMAGE

WATERSHED - MATALCHOK (IWMP)

PANCHAYAT SAMITI - PHALODI

DISTRICT- JODHPUR

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W E

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1:12,000

Legend

VILLAGE

SETTLEMENT

STATE REMOTE SENSING APPLICATION CENTRE
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JODHPUR

LAND USE LAND COVER MAP

WATERSHED - MATALCHOK (IWMP)

PANCHAYAT SAMITI - PHALODI

DISTRICT- JODHPUR

N

W E

S

1:12,000

Khara

Dadarwala Ki Dhani

DAYASAGAR

Kathoti Ki Dhani

DAHDU-MATALCHOUK

Legend

- ROAD
- VILLAGE
- KHASRA BOUNDARY
- Agriculture
- Land With Scrub
- Land Without Scrub
- Sandy Desertic Land
- Settlement
- Waterbody

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JODHPUR