CERTIFICATE

Certified that the undersigned have proposed the appropriate and need based activities required in the watershed project area with active participation of beneficiaries along with consultation of Watershed Committees (WCs). Approval of watershed project plan and DPR, s as been obtained from WC, Gram Sabha. The plan and DPR document of IWMP XIV project, at P.S. JAHAJPUR District BHILWARA is technically sound, viable and appropriate for implementation during the period **2011-12 to 2017-18.**

We recommend that this plan be sanctioned and put to implementation.

Signature Chairman/	Signature Secretary WC	Signature WDT members	Signature Junior Engineer P.S. JAHAJPUR	Signature Assistant Engineer & PIA P.S. JAHAJPUR	Signature Project Manager,WCDC Distt. Bhilwara

Sh. Gopal Singh

Sh. Prahlad Meena

Sh. Hari Singh Kanawat

Smt. Sunita Pathak

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

NAME OF PROJECT	**:**	**IWMP XIV**
EFFECTIVE AREA OF PROJECT	**:**	**5063 Ha**
COST /HA -	**:**	**12000/-**
COST OF PROJECT	**:**	**607.56 Lacks**
BLOCK	**:**	**JAHAJPUR**
DISTRICT	**:**	**BHILWARA**

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

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

Detail of Project

1. Name of Project : IWMP XIV
2. Sanction No. & date of Project : F.18 (I-51) WDSC/ IWMP/ 2011-12/ 4800-5087/ 5-8-12
3. Macro & Micro Nos : 13/1 to 13/3, 5/2, 6/1 to 6/3 & 14/1 to 14/2
4. Deviation from Project Sanctioned :

Items	As per Project Sanctioned		As proposed in DPR	
Project Name	No. Of Gram Panchyat	No. of Village	No. Of Gram Panchyat	No. of Village
IWMP-XIV	5	15	5	14

Items	As per Project Sanctioned	As proposed in DPR
Project Area	5063 Ha	5063 Ha
Macro/Micro No	5/2, 6/1, 6/2, 6/3, 13/1, 13/2, 13/3, 14/1, 14/2	5/2, 6/1, 6/2, 6/3, 13/1, 13/2, 13/3, 14/1, 14/2
Name of Gram Panchayats	Bharni Kalan, Amarwasi, Luhari Kalan, Teekar, Jamoli	Bharni Kalan, Amarwasi, Luhari Kalan, Teekar, Jamoli
Name of Villages	Bharni Kalan, Odiya Khera, Mayla Polya, Luhari Khurd, Hampura, Kesarpura, Teekar, Kuchalwara Khurd, Jamoli, Rughnathpura, Shakarpura, Rampura, Hadola Chak, Sarsia Charan, Jagnnathpura	Bharni Kalan, Odiya Khera, Mayla Polya, Luhari Khurd, Hampura, Kesarpura, Teekar, Kuchalwara Kalan, Kuchalwara Khurd, Jamoli, Rughnathpura, Shakarpura, Rampura
Project Cost (Rs in Lakhs)	607.56 Lacks	607.56 Lacks

DPR TEMPLATE

Index

S.No	Topics	Page no.
	1 Chapter	
1	• *Location*	**6**
2	• *General Features of watershed (Cost and Area details)*	**6**
3	• *Climatic and Hydrological information*	**7**
4	• *Other Development Schemes in the project area*	**9**
5	• *Details of infrastructure in the project areas*	**10**
6	• *Institutional arrangements (WCDC, PIA, WDT, WC)*	**10**
	2 Chapter Basic Data, Analysis and Scope	
7	*1.1 Demography Details*	**23**
8	*1.2 Development Indicators*	**23**
9	*1.3 Land use*	**23**
10	*1.4 Agriculture status and Productivity Gap Analysis*	**25**
11	*1.5 Horticulture/Vegetable/Floriculture status*	**27**
12	*1.6 Land holding pattern*	**28**
13	*1.7 Livestock status With Per Capita Production*	**29**
14	*1.8 Fodder status*	**29**
15	*1.9 Farm Implements*	**30**
16	*1.10 NREGS Status*	**30**
17	*1.11 Migration details*	**31**
18	*1.12 Livelihood Details.*	**31**
19	*1.13 Existing SHG*	**32**
20	*1.14 Ground Water details*	**33**
21	*1.15 Drinking Water Status*	**33**
22	*1.16 Water use efficiency*	**34**
23	*1.17 Slope details*	**34**
24	*1.18 Water Budgeting*	**35**
25	*1.19 Soil Details*	**36**
26	*1.20 Soil erosion status*	**36**
	3 Chapter Proposed Development Plan	**48**
	4 Chapter Activity wise Total Abstract of cost	**51**
	5 Chapter Annual Action Plan	
27	*1.21 Project fund*	**53**

28	*1.22 Convergence Plan*	**56**
	6 Chapter Project outcomes	**58**
	7 Technical designs and estimates for proposed activities	
	8 Enclosures	
29	*8 .1 Maps*	
30	*8.2 Documents of Agreements:*	
31	• *Proceedings of gram sabha for EPA approval*	
32	• *Proceedings of gram sabha Resolution for committee constitution*	
33	• *Documents related to PRA exercise*	
34	• *Proceedings of gram sabha for DPR approval*	
35	• *Proceedings of Panchayat Samiti General body for DPR approval*	
36	• *Proceedings of Zila Parishad Standing Committee for DPR approval*	

- CHAPTER – I

INTRODUCTION

Location.

IWMP-XIV Jahajpur Project is located in Jahajpur Block, of Bhilwara district. The project area is between the latitudes 25° **37' 30"** & **75° 25' 10"** longitudes. It is at a distance of 25 km from its Block head quarters and 115 Kms from the district head quarters. There are 13 no. of habitations in the Project area and other details are given below.

General features of watershed

S.No.	Name of Project(as per GOI)	IWMP-XIV
(a)	Name of Catchment	Banas
(b)	Name of watershed area(local name)	IWMP-XIV
©	Project Area	5063 Ha.
(d)	Net treatable Area	5063 Ha.
e)	Cost of Project	607.56 Lack
f)	Cost/hectare	12000/- Ha.
g)	Year of Sanction	2011-12
h)	Watershed Code	071113, 071305, 071306, 090414
i)	No. of Gram Panchayats in project area	5 No.
j)	No. of villages in project area	13 No.
k)	Type of Project	Other
l)	Elevation (metres)	340 to 420 M.
m)	Major streams	15 Km
n)	Slope range (%)	0-8%

Macro/micro	Name of Gram Panchayat	Name of Villages Covered	Census code of villages	Total Area Of Village	Area in W/S
5/2	Bharni Kalan	Bharni Kalan	02912400	1187	606
5/2		Odiya Khera	02912500	566	103
	Total			**1753**	**709**
6/2, 6/3	Jamoli	Jamoli	02912600	1415	1338
6/1, 6/2		Rughnathpura	02909500	229	171
6/1, 6/2		Shakarpura	02909300	241	163
6/2, 6/3		Rampura	02909600	221	130
	Total			**2106**	**1802**
13/2, 14/2	Teekar	Hampura	02906300	176	172
13/1, 13/2, 13/3		Kesarpura	02905900	101	101
13/1, 13/2, 13/3, 14/1, 14/2		Teekar	02906000	2045	1813

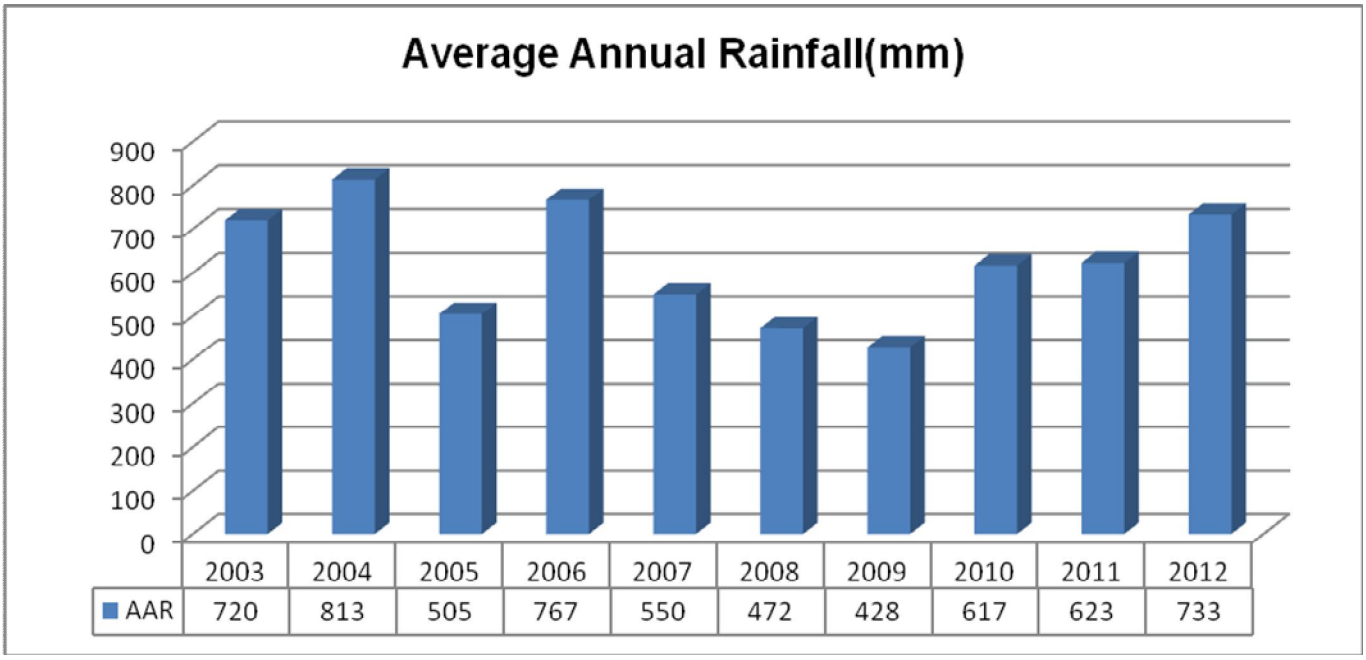
13/1, 13/2		Kuchalwara Khurd	02906100	460	111
13/1		Kuchalwara Kalan	02905800	1270	60
	Total			**4052**	**2257**
13/2	Amarwasi	Mayla Polya	02906400	744	57
	Total			**744**	**57**
13/2	Luhari Kalan	Luhari Khurd	02907300	1084	238
	Total			**1084**	**238**
Total Area				**9739**	**5063**

The watershed falls in Agro climatic Zone IV. The soil texture is Loamy The average rainfall is 66.3 cm . The temperatures in the area are in the range between 25-45 centigrade during summer and 4-17 centigrade during winter. The major crops in the area are Maize, Urad, Moonge, Wheat, Gram and Musterd. 55.28% land is under cultivation 7.18% land fallow, 44.71% land is wasteland. 17.50% land is irrigated through Well and Tube Well.

600 No of households are BPL (23.03% households) 647 are landless households (24.83% households) and 1798 household are small and marginal farmers (69.02%household). Average land holding in the area is 1.17 ha. 59.91% area is single cropped area and 27.08% is double cropped. The main source of irrigation is well and Tube Well. The average annual rainfall (10 years) in the area is 663 mm. The Major streams in the Watershed are 15 km. The major festivals in the village are Dashera, Deepawali & Holi. At present those villages of project area having 10117 no. populations with Communities like SC, ST, Khati, Lohar, Choudary and Other.

1. Climatic and Hydrological information

	Year	**Average Annual Rainfall(mm)**
1	2003	720
2	2004	813
3	2005	505
4	2006	767
5	2007	550
6	2008	472
7	2009	428
8	2010	617
9	2011	623
10	2012	733
Total		6228 Av. = 663 mm



2. Average Monthly rainfall (last ten years)

	Year	JUNE	JULY	AUG	SEPT
1	2001	40.00	180.00	140.00	70.00
2	2002	36.00	140.00	95.00	45.00
3	2003	22.00	110.00	90.00	65.00
4	2004	23.00	162.00	256.00	34.00
5	2005	34.00	196.00	57.00	203.00
6	2006	39.00	118.00	254.00	28.00
7	2007	97.00	192.00	79.00	45.00
8	2008	95.00	158.00	83.00	54.00
9	2009	19.00	204.00	147.00	0.00
10	2010	1.00	101.00	115.00	99.00

	i) 15 minute duration	34
	ii) 30 minute duration	62
	iii) 60 minute duration	78

3. Temperature (Degree C)

	Season	Max	Min
	i) Summer Season	45	25
	ii) Winter Season	17	4
	iii) Rainy Season	38	17

4. Potential Evaporation Transpiration (PET) (mm/day)

	Season	PET
	i) Summer	15
	ii) Winter	5
	iii) Rainy	8

5. Runoff

	i) Peak Rate (cum/hr)		cum/hr	
	ii) Total run off volume of rainy season (ha.m.)			
		5 years	10 years	In-Year
	iii) Time of return of maximum flood	0	0	0
	iv)Periodicity of Drought in village area	Yes	Yes	No

Other Development Schemes in the project area

S.No	Scheme	Name of the department	Key interventions under the Scheme	Targeted Beneficiaries	Provisions under the Scheme
1	MNREGS	Z.P.Bhilwara	CVH(NRM)	1245	117.030
2	ANIMAL HUSBANDRY	Z.P.Bhilwara	exhikyu	50	75.000
3	FISHARIES DEPTT.	Z.P.Bhilwara	eNyh ikyu	20	100.000
4	SOCIAL WALFAIR	Z.P.Bhilwara	mPp f'k{kk	169	16.900
5	RUDSET/ILFS	Z.P.Bhilwara	rduhdh if'k{k.k	128	12.800
6	SOCIAL WALFAIR	Z.P.Bhilwara	lkekftd lgk;rk	273	9.555
7	ANIMAL HUSBANDRY	Z.P.Bhilwara	i'k chek ;ktuk	14928	59.712
8	ANIMAL HUSBANDRY	Z.P.Bhilwara	A.I.	1491	2.237
9	ANIMAL HUSBANDRY	Z.P.Bhilwara	A.H.CAMP	20	4.800
10	HORTICULTURE	Z.P.Bhilwara	Qynkj ik/kkjki.k	22	6.600
11	MNREGS	Z.P.Bhilwara	df"k Hkfe (cvh Pro.)sc/st/BPL Alu	1245	26.145
12	MNREGS	Z.P.Bhilwara	df"k Hkfe (cvh Pro.) Other Alu	246	5.166
13	OTHERS	Z.P.Bhilwara	tfod ckM	51.3	8.054
14	HORTICULTURE	Z.P.Bhilwara	Qyk dh [krh	11.7	2.808
15	HORTICULTURE	Z.P.Bhilwara	elkyk [krh	7.2	1.678
16	HORTICULTURE	Z.P.Bhilwara	vk"k/kh;k ik/kk dh [krh	12.6	1.890
17	MNREGS	Z.P.Bhilwara	uljh LFkkiuk (25000 Forest Plant/- Family)	4	1.000
18	AGRICULTURE	Z.P.Bhilwara	ftlle l Hkfe l/kkj	132	0.926
19	AGRICULTURE	Z.P.Bhilwara	flpkb gr ikbi ykbu	109	16.350
20	AGRICULTURE	Z.P.Bhilwara	fLiDyj flLVe	41	18.225
21	AGRICULTURE	Z.P.Bhilwara	fMi flpkb ;ktuk	36	15.120
22	AGRICULTURE	Z.P.Bhilwara	df"k ;= ¼Li;j½	119	5.950
23	AGRICULTURE	Z.P.Bhilwara	ik/k lj{k.k ;=	71	0.710
24	HORTICULTURE	Z.P.Bhilwara	ckl mRiknu	16	1.296
Total					**509.952**

Details of infrastructure in the project areas

Parameters		Status			
(i)	No. of villages connected to the main road by an all-weather road	13 no.			
(ii)	No. of villages provided with electricity	13 no.			
(iii)	No. of households without access to drinking water	Nil			
(iv)	No. of educational institutions :	(P)	(S)	(HS)	(VI)
	Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)	15 no.	6 no.	2 no.	0 no.
(v)	No. of villages with access to Primary Health Centre	5 no.			
(vi)	No. of villages with access to Veterinary Dispensary	5 no.			
(vii)	No. of villages with access to Post Office	3 no.			
(viii)	No. of villages with access to Banks	0 no.			
(ix)	No. of villages with access to Markets/ mandis	0 no.			
(x)	No. of villages with access to Agro-industries	0 no.			
(xi)	Total quantity of surplus milk	5500 kg			
(xii)	No. of milk collection centers	(U)	(S)	(PA)	(O)
	(e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	0 no.	0 no.	5 no.	0 no.
(xiii)	No. of villages with access to Anganwadi Centre	13 no.			
(xiv)	Any other facilities with no. of villages (please specify)	Rajeev Gandhi Seva Kendra			
(xv)	Nearest KVK	Bhilwara			
(xvi)	cooperative society	2 no.			
(xvii)	NGOs	Nil			
(xviii)	Credit institutions				
	(i) Bank	Nil			
	(ii) Cooperative Society	2 no.			
(xix)	Agro Service Centre's	0 no.			

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

WCDC Details

2		3
S.No	**Particulars**	**Details of WCDC**
1.	PM ,WCDC	Sh. Ghanshyam Dad
2.	Address with contact no., website	Zila Parisad Bhilwara
3.	Telephone	01482-239398
4.	Fax	----
5.	E-mail	dwdu.bhilwara@gmail.com

PIA particulars

1	2	3
S.No	**Particulars**	**Details of PIA**
6.	Name of PIA	Sh. Anil Ajmera
7.	Designation	A.En
8.	Address with contact no., website	P.I.A. Panchyat Samity Jahajpur,
9.	Telephone	01485-
10	Fax	----
11	E-mail	anilajmera@gmail.com

WDT Particulars:

1	2	3	4	5	6	7	8
S.No	Name of WDT member	M/F	Age	Qualification	Experience in watershed(Yrs)	Description of professional training	Role/ Function
1	Sh. Gopal Singh	M	29	B.Tech (Agricultural)	(a) Agriculture 1Yr. (b) Marketing 1 Yr.		(a)Agriculture extension work (b)Sales
2	Sh. Prahlad Meena	M	27	Bsc. Agriculture	4 years 2 months		Agriculture scientist
3	Sh. Hari Singh Kanawat	M	31	LSA 2 years Diploma	4 years 6 months		Veterinary science
4	Smt. Sunita Pathak	F	39	M.A Sociology	4 years 6 months		Social Scientist

Details of Watershed Committees (WC)

S. N.	Name of WCs	Date of Gram Sabha for WC	Designation	Name	M/ F	SC/ST /OBC/ General	Landless/MF/SF / BF	Name of UG/SHG	Educational qualification
1	JAMOLI	24@12@2012	President / Sarpanch	Sh. Shiv Shakti Singh Ranawat	M	GEN	MF	Sarpanch	10th
2			Secretary	Sh. Vikram Singh s/o Bajrang Singh Ranawat	M	GEN	MF		B.A.
3			Member	Sh. Jitendra Singh	M	GEN	MF	Nalla Upchar Group	10th
4				Sh. Lalu Ram Gurjar	M	SBC	MF	Charagah Vikas Group	Uneducated
5				Sh. Ram Lal Dhakar	M	OBC	MF	Dairy Vikas Group	8th
6				Sh. Jagdish Chandra Vaishnav	M	OBC	MF	Udhyan Vikas Group	9th
7				Sh. Durga Lal Gurjar	M	SBC	MF	Sh. Dev Narayan SHG	10th
8				Smt. Neha w/o Manish Vaishnav	F	OBC	SF	Sh. Charbhuja SHG	10th
9				Smt. Ram Kanya w/o Roop Lal Dhakar	F	OBC	SF	Sh. Jai Guru Dev SHG	Uneducated
10				Sh. Magan Lal Bairwa	M	SC	SF	Sh. Baba Ramdev SHG	10th
11				Sh. Gopi Lal Bairwa	M	SC	SF	SHG	Uneducated
12				Sh. Prabhu Lal Bairwa	M	SC	SF	SHG	8th

Details of Watershed Committees (WC)

S.N.	Name of WCs	Date of Gram Sabha for WC	Designation	Name	M/F	SC/ST /OBC/ General	Landless/MF/SF / BF	Name of UG/SHG	Educational qualification
1	AMARWASI	26@12@2012	President / Sarpanch	Smt. Sunita Devi Meena	F	ST	MF		10th
2			Secretary	Sh. Nathu Lal Balai	M	SC	MF	Krashi Bhumi Upchar Group	10th
3			Member	Sh. Amba Lal Meena	M	ST	MF	Nalla Upchar Group	10th
4				Sh. Anada Ram Meena	M	ST	MF	Charagah Vikas Group	10th
5				Miss. Geeta Devi Meena D/o Harchand Meena	F	ST	MF	Dairy Vikas Group	5th
6				Sh. Sahdev Meena	M	ST	MF	Udhyan Vikas Group	8th
7				Sh. Shambhu Singh Meena	M	ST	MF	SHG	12th
8				Sh. Om Prakash Meena	M	ST	SF	SHG	10th
9				Sh. Krishna Gopal Meena	M	ST	SF	SHG	8th
10				Smt. Uma Devi w/o Ram Singh Balai	F	SC	SF	SHG	8th
11				Smt. Rekha Devi w/o Mahendra Kr. Meena	F	ST	SF	SHG	8th
12				Sh. Ravi Kr. s/o Soji Ram Meena	M	ST	SF	SHG	12th
13				Sh. Dinesh Kr. Meghwanshi	M	SC	SF	SHG	12th

Details of Watershed Committees (WC)

S. N.	Name of WCs	Date of Gram Sabha for WC	Designation	Name	M/F	SC/ST/ OBC/General	Landless/MF/SF / BF	Name of UG/SHG	Educational qualification
1	BHARNIKALA	24@12@2012	President / Sarpanch	Smt. Prem Devi Dhakar	F	OBC	MF		12th
2			Secretary	Sh. Narayan Dhakar s/o Rang Lal Dhakar	M	OBC	MF		12th
3			Member	Sh Shiv Chandra Singh Rajput	M	GEN	MF	Nalla Upchar Group	10th
4				Sh. Gopal s/o Uda Dhakar	M	OBC	MF	Charagah Vikas Group	8th
5				Sh. Banna Lal s/o Ratna Dhakar	M	OBC	MF	Dairy Vikas Group	10th
6				Sh. Banna s/o Madhu Meena	M	ST	MF	Udhyan Vikas Group	Uneducated
7				Smt. Vishnu Kanwar w/o Pratap Singh	F	GEN	MF	Sh. Dev Narayan SHG	5th
8				Sh. Ram Niwas s/o Kishan Dhakar	M	OBC	MF	Sh. Charbhuja SHG	5th
9				Smt. Fuma Devi w/o Rameshwar Dhakar	F	OBC	MF	Sh. Balaji SHG	Uneducated
10				Smt. Ramu Devi w/o Badri Lal Dhakar	F	OBC	MF	Sh. Ram SHG	Uneducated
11				Smt. Vimla Devi w/o Bhura Lal Balai	F	SC	SF	Sh. Ramdev SHG	Uneducated
12				Smt. Anop Devi w/o Kalu Lal Dhakar	F	OBC	SF	Sh. Shiv Shankar SHG	Uneducated
13				Smt. Geeta Devi w/o Gopal Gurjar	F	SBC	SF	Sh. Bhairu Nath SHG	Uneducated
14				Smt. Sunita Devi w/o Ram Singh Meena	F	ST	SF	Sh. Manghat Dev SHG	Uneducated
15				Smt. Nathi Devi w/o Ramprasad Meena	F	ST	SF	Sh. Ghata Rani SHG	5th

Details of Watershed Committees (WC)

S. N.	Name of WCs	Date of Gram Sabha for WC	Designation	Name	M/F	SC/ST/ OBC/General	Landless/MF/SF / BF	Name of UG/SHG	Educational qualification
1	TEEKAR	26@12@2012	President / Sarpanch	Smt. Kanchan Devi Meghwanshi	F	SC	MF		Uneducated
2			Secretary	Sh. Rakesh Kumar Meghwanshi	M	SC	MF		B.A.
3			Member	Sh. Dharmraj s/o Gulab Chandra Suwalka	M	OBC	MF	Nalla Upchar Group	12th
4				Sh. Ishwar Singh s/o Rooparam Meena	M	ST	MF	Charagah Vikas Group	10th
5				Sh. Ashok Kr. s/o Harji Ram Meena	M	ST	MF	Dairy Vikas Group	B.A.
6				Sh. Badri Lal s/o Gopi Lal Somani	M	GEN	MF	Udhyan Vikas Group	10th
7				Smt. Sona Devi w/o Dharmraj Suwalka	F	OBC	MF	SHG	8th
8				Smt. Meera Devi w/o Soji Ram Balai	F	SC	MF	SHG	5th
9				Smt. Madhu Devi w/o Bhanwar Nath	F	OBC	MF	SHG	5th
10				Smt. Geeta Devi w/o Maansingh Meena	F	ST	MF	SHG	5th
11				Smt. Asha Devi w/o Rakesh Balai	F	SC	SF	SHG	8th
12				Smt. Santra Devi w/o Ful singh Meena	F	ST	SF	SHG	5th
13				Smt. Prabhu Devi w/o Ram Singh Meena	F	ST	SF	SHG	5th
14				Smt. Indra Devi w/o Parmeshwar Somani	F	GEN	SF	SHG	10th

Details of Watershed Committees (WC)

S. N.	Name of WCs	Date of Gram Sabha for WC	Designation	Name	M/F	SC/ST/OBC/General	Landless /MF/SF/ BF	Name of UG/SHG	Educational qualification
1	LUHARIKALAN	19-02-2013	President / Sarpanch	Smt. Lalita Devi Meena	F	ST	MF		12th
2			Secretary	Sh. Sivji Singh s/o Laduram Meena	M	ST	MF	UG	10th
3			Member	Sh. Jai singh s/o Ramchandra Meena	M	ST	MF	UG	10th
4				Smt. Janta Devi w/o Sh. Raghunath meena	F	ST	MF	UG	5th
5				Sh. Gogaram s/o Motaram Prajapati	M	OBC	SF	UG	11th
6				Smt. Bramha Devi w/o Durgalal Bhil	F	ST	SF	UG	10th
7				Smt. Lali Devi w/o Gomaram Prajapati	F	OBC	SF	SHG	Uneducated
8				Smt. Manbhar Devi w/o Unkar Singh Meena	F	ST	SF	SHG	7th
9				Smt. Soni Devi w/o Prem Shankar Meena	F	ST	SF	SHG	8th
10				Smt. Manbhar Devi w/o Jagdish Meena	F	ST	SF	SHG	5th

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. 2799 ha land is arable & 2264 wasteland and 364 ha is fallow can be brought under cultivation.

886 ha is only irrigated and with efforts this can be increased to 925 Ha. The productivity gap of major crops in the area as compared with district and with areas in the same agro climatic zones indicate potential to increase the productivity. The demonstration of improved package of practices, improved varieties, increased irrigation facilities and soil conservation measures under the project can bridge this gap. Due to small land holdings in the area focus of the project would be on diversification in agriculture (horticulture, vegetables, green houses, Agro forestry, fodder crops) and diversification in Livelihoods(Agriculture, Animal husbandry, self employment)

19828 Quintal fodder scarcity can be met out through Pasture development .Improved animal Husbandry practices can increase the productivity of livestock. 2450 no of persons migrate due to lack of employment at village level, 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.

1. Soil Erosion

Soil of Jahazpur is moderately to severely erode mainly by rivers and nallahs, mostly during the rainy months. Besides, stagnation of water has given rise to the problem of salinity and alkalinity.

2. socio-Demographic Profile

The project area consists of a total population of 10117 with nearly 28% of the population belonging to the Scheduled Caste and 59% of the population Scheduled Tribe communities. The sex ratio in the area is 953. The area has a low level of literacy of 44.75% as compared to 60.40% at the State level. With the female literacy rate being a mere 28.80%, the status of literacy in the area is one of the indicators of the deplorable plight of the women in the area.

Table 3: Demographic Profile of Jahazpur Project Area

POPULATION	
Total population	10117
Male Population (%)	51.18
Female Population (%)	48.82
Sex ratio (female per thousand males)	953
% Population of Scheduled Caste	28.17
% Population of Scheduled Tribe	58.56
Literacy rate Total (percent)	44.75
Literacy rate male (percent)	60.01
Literacy rate female (percent)	28.80

Source: Government of Rajasthan and Census of India

3. Livelihood Profile

Agriculture and animal husbandry have been central to the livelihoods of the people living in this area. Frequent occurrences of drought in the recent years has however, increased the vulnerability of the farming communities. Increased pressure on land, decline in the productivity of agricultural land combined with shrinking of forests and common pasture land has threatened the viability of farming as a primary livelihood option in the area.

Only 45% of the income is derived from farming and the people have to resort to other options for sustaining their families. Low levels of literacy, absence of programmes for developing skills particularly in the non-farm sector and limited access to basic infrastructural facilities and services has impinged on the people's right to choose the best livelihood option. Migration can be seen as a prominent phenomenon with nearly 24% of the income coming from migration. Launch of MGNERGA has helped in generating employment in the area with about 15% of the income of the people being derived from working on MGNREGA sites.

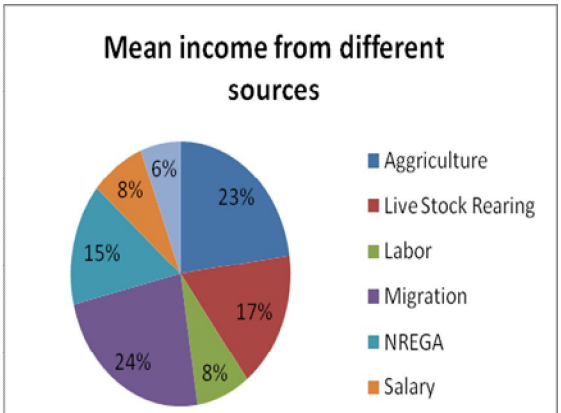


Figure 2: Mean Income from different sources
Source: Baseline Survey (2012)

4. Agriculture

Land and water resources have been the key drivers of farm based production systems which form the predominant source of livelihoods of the people in this area. The area is characterized by land based economy. Land has also been crucial in defining the social and political relations of the people in the area. 23% of the households are landless while 69% are small and marginal farmers. With very low landholdings and subject to vagaries of nature agriculture remains a high risk-low input-low output activity.

The area mostly has sandy loam to clay loam soil where the percolation of water ranges from good to medium. Most of the soil is calcareous while in some patches, saline and alkaline soil is also found. The soil is moderately to severely eroded mainly by rivers and nallahs. Substitution of organic fertilizer with chemical fertilizer has further worsened the soil quality. The nature of agriculture and farming practices is also strongly conditioned by the availability of water. Depletion in the surface as well as ground water resources has adversely affected agriculture. Some of the villages in the area have access to canal and tank irrigation; wells are the most common source of irrigation. The farmers mostly use engine to draw water for irrigation from wells. Besides, flood irrigation is a common practice that can be found in the area.

Kharif is the main cropping season in the area. Major cereals grown during Kharif include maize, bajra and jowar. Crop production during *Rabi* remains limited to such farmlands which have access to irrigation. Wheat is the main cereal crop grown during *Rabi.* Besides cereal crops, pulses, fodder crops like *rajka* and oilseeds such as groundnut and mustard are also cultivated in the area. Over the years, the agricultural practices have undergone a remarkable change in the area. Besides the traditional plough, tractors are also being increasingly used. Chemical fertilizer is used intensively. The types of seeds, pesticide and fertilizer across the different villages in the area are detailed in the tables below:

S.No	**Genrel Use of quantity by Farmer**					**Recomnded by Agriculture Deptt.**				
	Name of crop	Seed sowing kg/Ha	Fertilizer			Seed sowing kg/Ha	Fertilizer			Remarks.
			Uriya	DAP	Potas		Uriya	DAP	Potas	
1	Wheat	150	50	30	-	100 - 120	80	40	20	
2	Chana	120	-	-	-	75 - 80	15	25	-	
3	Sarso	6	40	20	-	4. - 5	60	40	-	
4	maize	30	80	30	-	20 - 25	100-120	50	40	
5	Urad	35	30	30	15	15 - 20	50	30	30	
6	Moonge	35	30	30	15	15 - 20	50	30	30	
7	Cotton	15	40	15	-	15 - 18	50	25	-	
8	Ground nut	90	-	40	-	80 - 100	20	60	30	
9	Til	6	-	-	10	3. - 4	20	10	10	
10	Bajra	6	50	20	-	4. - 5	90	30	-	

Reasons for law productivity:-

A. Due to high seed rate for showing of crop Instead of recommended seed rate.

B. Use of local variety of seeds.

C. Duration intensity of Rainfall is enough below high the avaivelity.

D. Lack of availability of good Quality seeds & Fertilizer is not available proper time.

E. Method of showing is not proper.

5. Livestock

Agriculture supplemented with livestock keeping forms the basis of sustenance for the farmers in this area. Crop residue and grazing provides fodder and forage to livestock. Livestock keeping on the other hand acts as a drought power and source of energy, nutrition and manure. The symbiotic relation between the two systems is clearly visible and change in one has a direct impact on the other. As per the baseline survey, livestock rearing contributes 17% of the income of the people in the area.

The livestock composition shows that smaller ruminants are more than the larger ruminants. However, the number of cows is much higher than other animals in the area. Degradation of common grazing lands and frequent occurrences of drought in the recent years has raised serious questions pertaining to fodder security in the area. Loss of vegetative cover as a result of high degrees of soil erosion and overgrazing has adversely affected the productivity of these common grazing lands. Changes in the cropping pattern along with the substitution of organic fertilizer with chemical fertilizer reduced the fertility of the soil as well as the quality of fodder available from crop residue. Further, frequent occurrences of drought leading to crop failure also affected the fodder availability from crop residue which has increased the pressure on the already overexploited common grazing land. The factors mentioned above have not only led to a decline in the productivity of the livestock but have also increased instances of distress sale of livestock.

S.No	Name of Animal	Av. milk production (Lit. per day)	Actual milk production (Lit. per day)	Remarks.
1	Cow Indigenous	2 - 3	4 - 5	
2	Cow Hybrid	7 - 8	10 - 12	
3	Buffalo	5 - 6	12 - 15	

Reasons for gap in milk production

A. Deficiency of vitamin and minerals.
B. Lack of management and awareness.
C. Lack of health treatment in proper way.

5. Migration

In an economy which largely demands skilled manpower, lack of skill enhancement opportunities is an added disadvantage for the people in this area. Most of the people in the area who have resorted to non-farm employment end up as daily wage earners in the nearby cities. The ones who migrate to cities have to leave their families back in the village as their earning in the city is not able to substitute returns from farm but only supplement it. As per the baseline survey, about 24% of the Population in the area migrate. Migration to cities and towns is usually in mining and quarrying, construction and in some small trading and manufacturing work.

Table 10: Households Migrating

	Total Population	No of Person Migration
Bharni Kalan	1280	322
Odiya Khera	383	94
Jamoli	735	247
Rughnathpura	209	52
Shakarpura	251	61
Rampura	235	77
Hampura	150	28
Kesarpura	393	85
Teekar	2390	557
Kuchalwara Kalan	1257	327
Kuchalwara Khurd	1017	235
Mayla Polya	671	157
Luhari Khurd	1146	208
Total	**10117**	**2450**

Source: Baseline Survey (2012)

Base Line Survey Format for IWMP MIS website

Project Name : **IWMP XIV**

Total Geographical Area of Project (Lakh Hectares) : **0.05063**

Treatable Area 0.05063 Ha.

Wasteland (Lakh Hectares)	**0.02264**	**Rainfed Agricultural Land (Lakh Hectares)**	**0.01913**
Total Cropped Area (Lakh Hectares)	**0.02799**	**Net Sown Area (Lakh Hactares)**	**0.02435**
Total no. of Water Storage Structure	**40**	**Total No. of Water Extracting Units**	**1273**
Total storage capacity of water storage structures (cubic meters)	**193156**		

No. of Household 2605 No.

SC	**532**	**ST**	**1163**
Others	**910**		
Total Population of the project Area	**10117**	**No. of Household of Landless people**	**647**
Total no. of BPL Household	**600**	**No. of Small Farmer's Household**	**381**
No. of person-days of Seasonal Migration	**2450 no. - 300 days**	**No. of Marginal Farmer's Household**	**1273**

Depth of Ground Water (meters) below Ground level

Pre- monsoon	**18.30**	**Post-monsoon**	**16.50**
No. of person-days of Seasonal Migration	**2450 no. - 300 days**		

CHAPTER – II Socio economic Features, Problems and Scope

Table 2.1 Population & Household Details:

Total Population				
Male	**Female**	**Total**	**SC**	**ST**
5178	4939	10117	2850	5925

Household Details						
BPL household	**L. Less**	**Small Farmer**	**M. Farmer**	**Total household**	**SC household**	**ST household**
600	647	381	1417	2605	532	1163

Table 2.2 Development indicators

S. No.	Development Indicators	State	Project Area
1	Per capita income (Rs.)	16260	14500
2	Poverty ratio	0.22	0.23
3	Literacy (%)	0.604	0.44
4	Sex Ratio	921	953
5	infant mortality rate	331	338
6	Maternal mortality ratio	60	68

The above table indicates (**poor, average, good**) socio economic conditions.

Table 2.3 Land Use

Land Use	Total area in Ha.				
	Private	Panchayat	Government	Community	Total
Agriculture Land	2799	0	0	0	2799
Temporary fallow	364	0	0	0	364
Permanent Fallow	260	690	1314	0	2264
Cultivated Rainfed	1913	0	0	0	1913
Cultivated irrigated	886	0	0		886
Net Sown Area	2435	0	0	0	2435
Net Area sown more than once	886	0	0	0	886
Forest Land	0	0	92	0	92
Waste Land	260	690	1314	0	2264
Pastures	0	690	0	0	690
Others	0	0	0	0	0

The project area has 364 ha of cultivable wasteland. 260 ha of fallow land (total 5063 ha) can be brought under cultivation if some irrigation source can be provided through Construction of WHS like Khadin, Tanka, Farm ponds etc. and also through demonstration of rain fed varieties of crops. Construction of WHS can also increase in area under irrigation which is only 17.50%

2264 Ha. (44.71 % of the project area) is under wastelands and can be brought under vegetative cover, with reasonable effort. Activities like Earthen check dams, Vegetative filter strip, V-ditches, staggered trenches, WHS (Johad) Afforestation of wastelands and Pasture development will be taken up on these lands.

Pasture development the land use table shows that there is 690 hectare pasture land (13.63%). This emphasizes the need for taking up pastureland development works through sowing of promising species of grasses and plantation

Table 2.4.b Abstract of cropped Area(ha)

Area under Single crop	1677
Area under Double crop	758
Area under Multiple crop	0

The table 2.4.b shows that only 758 ha is (14.97%) 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.

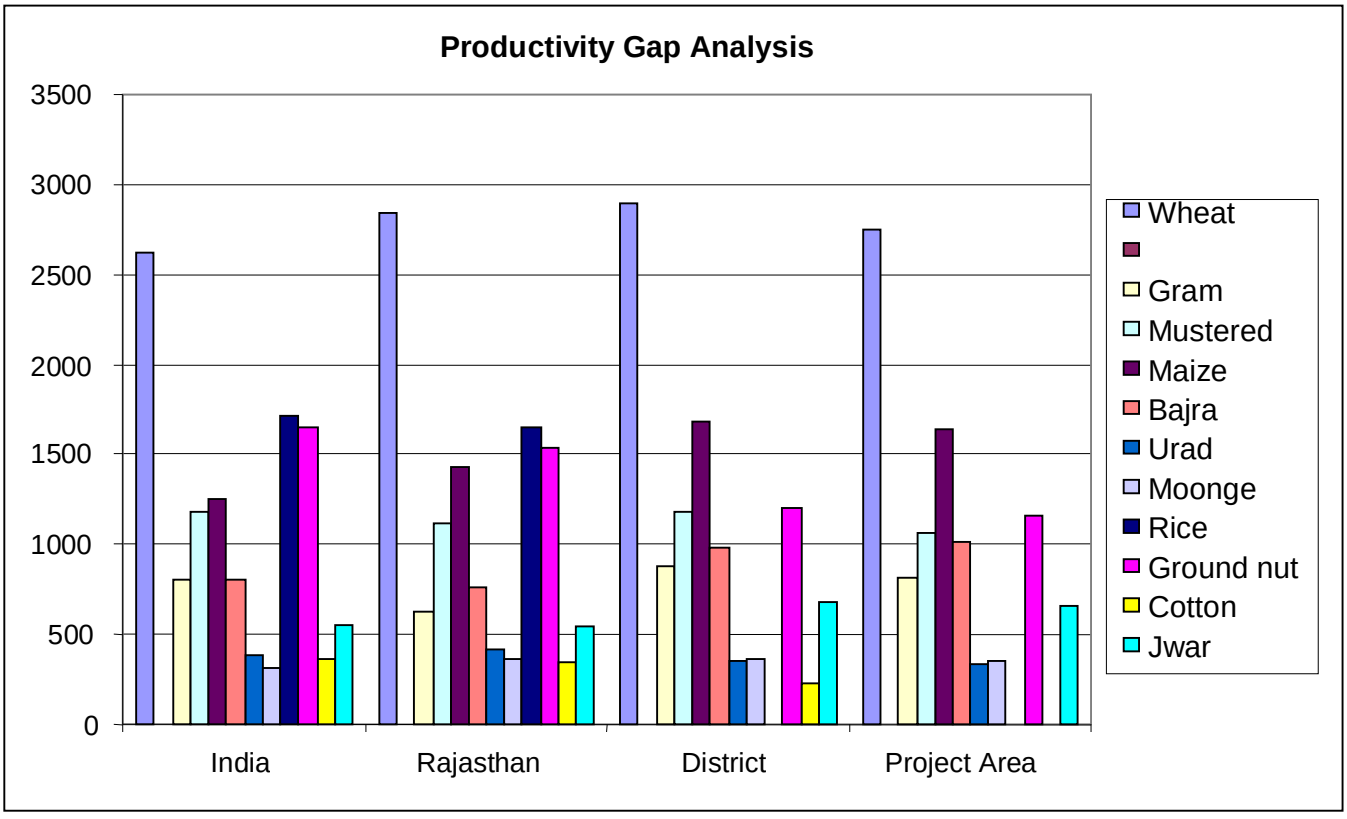
Soil and Water conservation measures besides putting fallow lands under cultivation can change the area under single cropping to double and multiple cropping.

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

Cropping Status											
S No	Season	Crop sown	Rainfed				Irrigated			Total	
			Varieties	Area (ha)	Production (kg/ha)	Productivity (kg/ha)	Area (ha)	Production (kg/ha)	Productivity (kg/ha)	Area (ha)	Production (kg/ha)
1	Kharif	Maize	Mukta / NK-30 / Seed tek	1470	2406390	1637		0	0	1470	2406390
		Udad	TAU-1	66	21780	330	0	0	0	66	21780
		Til	Pratap C-50	32	14400	450	0	0	0	32	14400
		Mungafali	HNG-10	24	27720	1155	0	0	0	24	27720
		Jwar	15 / Amar nath 2000	28	18340	655	0	0	0	28	18340
		Bajra	Pioneer Hybrid	57	57570	1010	0	0	0	57	57570
2	Rabi	Wheat	Lokman / 3077	0	0	0	455	1249885	2747	455	1249885
		Musterd	Pionear Highbrid / T-59 / Poosa Von	0	0	0	220	234300	1065	220	234300
		Chana	Dabahed Yellow	0	0	0	68	55148	811	68	55148
		Masoor		0	0	0	15	5700	380	15	5700
3	Zaid	0	0	0	0	0	0	0	0	0	0
	Total			1677			758			918	4091233

Table 2.4.c Productivity Gap Analysis (The table can also be given in bar chart form)

Name of the crop	India	Highest Average Yield in Rajasthan	District	Project Area	Deficiency in productivity comparision with District
Wheat	2619	2837	2892	2747	145
Gram	808	622	873	811	62
Mustered	1177	1121	1177	1065	112
Maize	1258	1433	1687	1637	50
Bajra	802	767	977	1010	33
Urad	387	413	358	330	28
Moonge	317	362	364	356	8
Rice	1710	1650	0	0	0
Ground nut	1650	1533	1204	1155	49
Cotton	362	342	232	325	93
Jwar	552	541	679	655	24



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

The reasons for this variation are

- The farmers are using Local varieties on show in table of each crop. Whereas the recommended varieties on show in table will increase the yield of crop.

S. N.	Name of Crop	varieties of Crop (Farmers are using)	varieties of Crop (Can Increase of Production)
1	Wheat	Lokman	3077 / 1482 / 4037
2	Gram	Dabahed Yellow	888 / RAG / 636
3	Mustered	Pionear Highbrid / T-59 / Poosa Von	Bio-902 / T-59
4	Maize	Mukta / NK-30 / Seed tek	Ganga-5 / Navjyot / Kanchan
5	Bajra	Pioneer Hybrid	
6	Urad	TAU-1	Barkha / T-9
7	Moonge	RNG-902	K-851 / ML-337 / Poosa Baisakhi
8	Til	Pratap C-50	TC-25 / RT-46/ RT-27
9	Ground nut	MNG-10	AK-1224 / KL-24
10	Cotton	RG-5	BT Cotton / Bikanery Narma
11	Jwar	15 / Amar nath 2000	HPB-1 / HPB-2 / CSS-49

- Lack of Availability of good quality seeds of desired crop and variety in adequate quantities and time to the farmers.
- Availability of water for cultivation(17.50% is irrigated table)

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

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

Activity	Area	Species	Varieties	Recommended varieties	Production
Horticulture	0.5	Neebu	Kagji	Kagji Beeju	30 Kg/ Plant
	0.25	Papaya	Honey Due	Taiwan	40 Kg/ Plant
Vegetables	0	0	0	0	0
Floriculture	0	0	0	0	0
Medicinal Plants	0	0	0	0	0

Table 2.6 Land holding Pattern in project area

Type of Farmer	Total House holds	Land holding (ha) irrigation source wise				Land holding (ha)Social group wise				
		Irrigated (source)	Rainfed	Pvt. Waste Land	Total	General	SC	ST	OBC	BPL
(i)Large farmer	160	197	426	58	681	51	139	304	187	0
(ii) Small farmer	381	254	548	74	876	66	179	391	240	0
(iii) Marginal farmer	1417	435	939	128	1502	112	307	671	412	0
(iv) Landless person	647	0	0	0	0	0	0	0	0	0
(V)No. of BPL households	600	0	0	0	0	0	0	0	0	0
Total	**2605**	**886**	**1913**	**260**	**3059**	**229**	**625**	**1366**	**839**	**0**

42.95% land holdings belong to small and marginal farmers who own 77.70% of total cultivated area. Horticulture/vegetables could be more economical to Small and Marginal farmers with irrigation source. For Large farmers with no irrigation facility Horticulture/vegetables will be promoted in a part of land with farm pond/Tanka construction.

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

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

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

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

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

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

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

Establishment of nurseries: Most of the planting material is procured from other parts of the State/ country. The procurement of planting material from distant places causes damage to the

planting material and often results in untimely supply. Hence nursery development activity can be promoted in the area.

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

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

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

S.No	Description of animals	Population in No.	Yield(milk)	Equ. cow units	Dry matter requirement per day (7Kg per animal.) Kilogram	Total requirement per year in Qt.
1	Cows					
	Indigenous	1806	3249		12642	46143
	Hybrid	302	1267		2114	7716
2	Buffaloes	1143	3430		8001	29204
3	Goat	1662	0	385	2695	9837
4	Sheep	770	0	430	3010	10987
5	Other	860	0		6020	21973
6	Poultry	0	0	NA	0	0
7	Piggery	0	0	NA	0	0
	Total	6543	7946		34482	125860

In spite of the large number of livestock, production is less hence increase in productivity across all species, is a major challenge. To enhance production of unproductive cattle and improve the productivity following activities will be taken up:-

Demonstration of improved methods of conservation and utilization of Forage crops are proposed.

Table 2.8 Existing area under fodder (ha)

S.No	Item	Unit	Area/Quantity
1	Existing Cultivable area under Fodder	Ha	2799
2	Production of Green fodder	Quintal/year	69844
3	Production of Dry fodder	Quintal/year	0
4	Area under Pastures	Ha	690+260
5	Production of fodder	Quintal/year	38000
6	Existing area under Fuel wood	Ha	0
7	Supplementary feed	Kgs/ day	0
8	Silage Pits	No	0
9	Availability of fodder	quintals	107844
10	Deficiency of fodder	quintals	19828

The table above shows there is fodder deficiency (Requirement is 127672 Qt. and availability 107844 Qt.)

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

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

Table 2.9 Agriculture implements

S. No	Implements	Nos.
1	Tractor	138
2	Sprayers - manual / power	195 / 2
3	Cultivators / Harrows	109 / 62
4	Seed drill	76
5	Any Other (Tractor Mounten Trally)	128

Farm mechanization and seed banks: As discussed earlier 69.02% land holdings belong to small and marginal farmers of total cultivated area & owning of big farm implements by individual farmers is not economical So SHG would be promoted to buy farm implements and rent to farmer

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

Sr. no.	Gram Panchayat	Name of village	Total No .of job cards	Employment Status	Activity taken up so far
1	Bharni Kalan	Bharni Kalan	555	455	Apna khet-Apna kam yojna, Gravel Road, Earthen Dam,Pasture Dovelpment Work.
2		Odiya Khera	162	138	
3	Jamoli	Jamoli	539	420	
4		Rughnathpura	57	50	
5		Shakarpura	91	73	
6		Rampura	137	121	
7	Teekar	Hampura	3	3	
8		Kesarpura	167	139	
9		Teekar	736	655	
10		Kuchalwara Khurd	321	263	
11		Kuchalwara Kalan	485	412	
12	Amarwasi	Mayla Polya	312	250	
13	Luhari Kalan	Luhari Khurd	407	326	
Total			**3972**	**3305**	

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)
Bharni Kalan	322	10 Month	Employment	130 Km	Service in private industries at Bhilwara H.Q.	0.60 Lack per year
Odiya Khera	94					
Jamoli	247					
Rughnathpura	52					
Shakarpura	61					
Rampura	77					
Hampura	28					
Kesarpura	85					
Teekar	557					
Kuchalwara Kalan	327					
Kuchalwara Khurd	235					
Mayla Polya	157					
Luhari Khurd	208					
Total	**2450**					

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

The existing livelihoods Village are given below

Table 2.12 (a) Major activities (On Farm)		
Name of activity	**No of House holds**	**Average annual income from the**
Cultivators	1647	0.50-0.60 Lack per year
Dairying	23	0.36-0.40 Lack per year
Poultry	1	0.25-0.30 Lack per year
Piggery	0	0
Landless Agri. Laborers	647	0.25-0.30 Lack per year

Table 2.12(b) Major activities (Off Farm)		
Name of activity	Households/individuals	Average annual income from the
Artisans	0	0.25-0.30 Lack per year
Carpenter	12	0.35-0.40 Lack per year
Blacksmith	6	0.50-0.60 Lack per year
Leather Craft	2	0.40-0.45 Lack per year
Porter	10	0.40-0.45 Lack per year
Mason	118	0.60-0.70 Lack per year
Others specify (Cycle Repair ,STD,Craft etc)	6	0.50-0.60 Lack per year

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

Table 2.13(a) Status of Existing SHG

S.No	Name of SHG	Members	Activity involved	Monthly income	Fund available	Assistance available	Source of assistance	Training received
1	Sh. Devnarayan SHG Raghunathpura	10	-	500	1500	-	-	-
2	Sh. Charbhuja SHG Rampura	10	-	500	1500	-	-	-
3	Sh. Jagdambha SHG Jamoli	11	-	1100	3300	-	-	-
4	Sh. Jai Gurudev SHG Jamoli	11	-	660	1980	-	-	-
5	Sh. Baba Ramdev SHG Jamoli	10	-	500	1500	-	-	-
6	Sh. Devnarayan SHG Bharnikalan	10	-	500	1500	-	-	-
7	Sh. Charbhuja SHG Bharnikalan	12	-	600	1800	-	-	-
8	Sh. Balaji SHG Bharnikalan	12	-	600	1800	-	-	-
9	Sh. Ram SHG Bharnikalan	12	-	600	1800	-	-	-
10	Sh. Ramdev SHG Bharnikalan	10	-	500	1500	-	-	-
11	Sh. Shiv Shankar SHG Bharnikalan	12	-	600	1800	-	-	-
12	Sh. Bhairunath SHG Bharnikalan (Ummedpura)	10	-	500	1500	-	-	-
13	Sh. Manghat SHG Odiya Khera	10	-	1000	3000	-	-	-
14	Sh. Ghatarani SHG Odiya Khera	10	-	1000	3000	-	-	-
15	Jai Maa SHG	12	-	240	720	-	-	-
16	Jai Mateshwari SHG	11	-	220	660	-	-	-

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

II. **Technical Features**

Table 2.14 Ground Water

S.No	Source	No.	Functional depth	Dry	Area irrigated	Water availability (days)
i)	Dug wells	1084	60-65 ft.	513	738	180-240
ii)	Shallow tube wells	88	150-220 ft	42	0	240-300
iii)	Pumping sets	435	120-200 ft	0	0	240-300
iv)	Deep Tube Wells	101	90-100 Ft.	27	148	240-300
	Total	1708		582	886	

Table 2.15 Availability of drinking water

S. No	Name of the village	Drinking water requirement Ltrs/day	Present availability of drinking water Ltrs/day	No. of drinking water sources available	No. functional	No. requires repairs	No. defunct
1	Bharni Kalan	38400	24960	3	3	0	0
2	Odiya Khera	11490	7239	2	2	0	0
3	Jamoli	22050	13671	4	3	0	1
4	Rughnathpura	6270	4013	2	2	0	0
5	Shakarpura	7530	4518	2	2	0	0
6	Rampura	7050	4301	3	2	0	1
7	Hampura	4500	2700	2	2	0	0
8	Kesarpura	11790	7546	2	2	0	0
9	Teekar	71700	47322	4	3	0	1
10	Kuchalwara Kalan	37710	24512	3	3	0	0
11	Kuchalwara Khurd	30510	19526	3	3	0	0
12	Mayla Polya	20130	12682	0	0	0	0
13	Luhari Khurd	34380	21316	2	2	0	0

Table 2.16 Water Use efficiency

Name of major crop	Area (Hectare)			
	through water saving devices(Drip/Sprinklers)	through water conserving agronomic practices[#]	Any other (pl. specify)	Total
Wheat	1	1	PVC Pipe	

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

Table 2.17 Slope details.

Slope of Watershed		
S.No.	Slope percentage	Area in hectares
1	0 to 3%	3856
2	3 to 8%	847
3	8 to 25%	360
4	> 25%	0

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

Good Catchments – Normally a funnel shaped catchment in hilly terrain with less vegetation.
Average Catchment – Catchment in the plains where there is no dense growth of vegetation.
Bad Catchment – Catchment with dense growth of vegetation & highly permeable top soil & sub soil.

Total available runoff(cum) use Stranges table

Rain fall 663 mm

Type of Catchment	Area in ha.	Yield of runoff from catchment per ha.(cum.) use Stranges table	Total Runoff in cum
Good	1222	1481	1809782
Average	1042	1107	1153494
Bad	2799	739	2068461
Total	**5063**		**5031737**

Runoff trapped in existing structures

S.No.	Name	No.	Storage Capacity (cum)
i)	WHS(earthen)	37	79156
ii)	Khadin/Talab	3	114000
iii)	Farm Ponds	0	0
iv)	Tanka	0	0
v)	Anicuts	0	0
	Total	40	193156

Runoff to beTrapped in proposed structures:

S.No.	Name	No.	Storage Capacity (cum)
i)	WHS(earthen)	4	13600
ii)	Khadin/Talab	0	0
iii)	Farm Ponds	20	10000
iv)	Tanka	0	0
v)	Medium Masonary Chech-Dam	5	22500
VI)	Small Masonary Chech-Dam	30	4250
	Total	59	50350

% Runoff trapped = total runoff trapped x100/ Total available Balance runoff = 4.84% cum.

Height of all the structures proposed is between 0.60 metre to 1.50 metre. There is no structure whose water impounding height is more than 2 metre.

Table 2.19 Soil details

	Soil Profile	Loamy
S.No.	Major Soil Classes	Area in hectares
1	Fine loam	950
2	Silt loam	2972
3	Degraded	1141

	Soil Depth :	
B	Depth (Cms.)	Area in hectares
1	0.00 to 7.50	2264
2	7.50 to 45.00	2799
3	> 45.00	0

C	Soil fertility Status	Kg/ha	Recommended
	N	125	100 Kg/Ha
	P	17.7	25.0 Kg/Ha
	K	183	350 Kg /Ha
	Micronutrients	PPM	Magnet

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

Table 2.20 Erosion details

Erosion status in project Area				
Cause	Type of erosion	Area affected (ha)	Run off(mm/ year)	Average soil loss (Tonnes/ ha/ year)
Water erosion				
a	Sheet	3950	121	15.25
b	Rill	650		
c	Gully	463		
Sub-Total		5063		
Wind erosion				
Total for project			121	15.25

The need is:

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

CHAPTER - III Proposed Development Plan:

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

A) Preparatory phase activities Capacity Building Trainings and EPA

The IEC activities like Kalajathas, Group meetings, door to door campaign, slogans and wall writings etc. were carried out in all the habitations of 13/1 to 13/3, 5/2, 6/1 to 6/3 & 14/1 to 14/2 Micro Watershed. A series of meetings were conducted with GP members, community and discussed about the implementation of IWMP programme. User groups were also formed.

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

S.no	Name of the Gram Panchayat	Date on which Gram Sabha approved EPA
1	Bharni Kalan	24-12-2012
2	Jamoli	24-12-2012
3	Teekar	26-12-2012
4	Amarwasi	26-12-2012
5	Luhari Kalan	19-02-2013

1	4	5	6	7	8	9	10	11
S. No.	Names of G.P.	Amount earmarked for EPA	Entry Point Activities planned	Estimated cost	Expenditure incurred	Balance	Expected outcome	Actual outcome
1	Bharni Kalan	3.40	1- Ckkj ekVj th-,y-vkj- fuek.k e; fjpkt fiV jkenoth d efnj d ikl] cykb ekgYyk] Hkj.khdyk 2- iu?kV fuek.k e; fjpkt fiV] vkfM;k[kMk	3.40	0	3.40	Avaible of drinking water in proper way for Villagers	Will be furnished after completion of work.
2	Jamoli	8.65	1- th-,y-vkj- Vdh fuek.k lkotfud db d ikl] jkeijk 2- iu?kV fuek.k e; fjpkt fiV lkork xtj d edku d ikl] j?kukFkijk 3- ckj ekVj th-,y-vkj- fuek.k e; fjpkt fiV jxj cLrh egknoth d efnj ikl] tkekyh	8.65	0	8.65		
3	Teekar	10.83	1- iu?kV LFkkiuk e; fjpkt fiV fHky cLrh e iu?kV LFkkiuk] VhdM 2- iu?kV LFkkiuk e; fjpkt fiV xxyh cLrh e iu?kV LFkkiuk] VhdM 3- iu?kV LFkkiuk e; fjpkt fiV] dpyokMk 4- ckj ekVj e; fjpkt fiV eokjke eh.kk d edku d ikl] d"kjijk 5- iu?kV LFkkiuk e; fjpkt fiV Hkhy cLrh e iu?kV LFkkiuk] geijk	10.83	0	10.83		
4	Amarwasi	0.27		0.27	0	0.27		
5	Luhari Kalan	1.14	1- th-,y-vkj- Vdh fuek.k jkeno d edku d ikl] ygkjh [kn	1.14	0	1.14		

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

S.no	Name of the village/Habitation	Date on which PRA conducted
1	Bharni Kalan	21-01-2013
2	Jamoli	22-01-2013
3	Teekar	23-01-2013
4	Amarwasi	24-01-2013
5	Luhari Kalan	25-01-2013

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

Socio-economic survey was carried out during **1-6-2012 to 31-12-2012** period covering all the households and primary data on demography, Land holdings, Employment status, Community activities etc. was collected as mentioned in chapter 2.

.CAPACITY BUILDING

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

1	2	3	4	5	6	7	8
S. No.	Name of Stakeholders	Name of the Training Institute	Full Address with contact no., website & e-mail	Name & Designation of the Head of Institute	Type of Institute[#]	Area(s) of specialization[$]	Accredita-tion details
1	PIAs	IGPRS	Jaipur / (IGPRS@Sify.com)	Director IGPRS Jaipur	GOR	W/S	
		NIRD	Jaipur	Course Cordinator Chaupal NIRM Jaipur	GOI	GIS Base	
2	WDTs	PRTC Ajmer/ IGPRS Jaipur / SAMTI Jaipur	Training Cordinator PTC Ajmer/ State Agriculture Management Institute, Durgapur, Director-SAMI Jaipur	Cordinator PTC Ajmer, Director SAMI Jaipur	GOR	w/s development works	
		K.V.K. / Arjiya / Bhilwara Dairy	M.D. Bhilwara Dairy/ Senior Scientist K.V.K. Bhilwara/ Senior Scientist Arjiya	M.D. Bhilwara Dairy	Research Institutes		
3	UGs	Rajeev Gandhi seva Kendra on Gram panchayat	Gram Panchayat Head Quarter	Gram Panchayat Head Quarter	GOR		
4	SHGs	Rajeev Gandhi seva Kendra on Gram panchayat			GOR		
5	WCs	Rajeev Gandhi seva Kendra on Gram panchayat			GOR		
6	GPs	Rajeev Gandhi seva Kendra on Gram panchayat			GOR		
7	Community	Rajeev Gandhi seva Kendra on Gram panchayat			GOR		
8	PM/SLNA	NIRD	Director General, NIRD Rajendra Nagar, Hyedrabad, Pin-500030	Director General Hyedrabad	GOI		

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

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

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

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

Table- **Capacity Bulding activities in the project** (PHYSICAL & FINANCIAL) ***4% OF TOTAL PROJECT COST.**																								
1	2	3					4						5						6					
S. No.	Project Stackholders	Total No. of Persons	Total No. of Training	Rate per Trainning	UNIT	Total Am	No. of Person to be trained during project period						No. of Training to be organized during project period						No. of Person days to be trained during project period					
							I Year	II Year	III Year	IV Year	V Year	Total	I Year	II Year	III Year	IV Year	V Year	Total	I Year	II Year	III Year	IV Year	V Year	Total
A	**State level trainning**																							
1	PIAs (2X5300=10600) 3 days	2	10	10600	No	1.060	4	4	4	4	4	20	2	2	2	2	2	10	12	12	12	12	12	60
2	WDTs(4X5300=21200) 3 days	4	14	21200	No	2.968	8	8	12	12	16	56	2	2	3	3	4	14	24	24	36	36	48	168
B	**Disst. level trainning**						0	0	0	0	0													
1	PIAs (2X5600=11200) 4 days	2	10	11200	No	1.120	4	2	6	4	4	20	2	1	3	2	2	10	16	8	24	16	16	80
2	WDTs(4X5600=22400) 4 days	4	12	22400	No	2.750	8	4	12	12	12	48	2	1	3	3	3	12	32	16	48	48	48	192
	Total WCDC		**46**				**24**	**18**	**34**	**32**	**36**	**144**	**8**	**6**	**11**	**10**	**11**	**46**	**84**	**60**	**120**	**112**	**124**	**500**
3	Ugs (one days)	30	12	6800	No	0.816	60	120	90	60	30	360	2	4	3	2	1	12	60	120	90	60	30	360
4	SHGs 142 x 3=426 (one days)	30	15	6800	No	1.020	60	60	120	90	120	450	2	2	4	3	4	15	60	60	120	90	120	450
5	WCs (one days)	30	15	6800	No	1.020	60	150	150	90	0	450	2	5	5	3		15	60	150	150	90	0	450
6	GPs (one days)	30	15	6800	No	1.020	60	150	150	90	0	450	2	5	5	3		15	60	150	150	90	0	450
7	Community (one days)	30	11	6800	No	0.748	60	150	120	0	0	330	2	5	4			11	60	150	120	0	0	330
8	EXPOSURE TOUR (INTER STATE) 6 days	50	2	150000	No	3.000	0	50	50	0	0	100		1	1	0		2	0	300	300	0	0	600
9	EXPOSURE TOUR (OUTER STATE) 6 days	50	4	210500	No	8.476	0	200	0	0	0	200		4	0			4	0	1200	0	0	0	1200
	Total		**74**				**300**	**880**	**680**	**330**	**150**	**2340**	**10**	**26**	**22**	**11**	**5**	**74**	**300**	**2130**	**930**	**330**	**150**	**3840**
C	**PM/SLNA (5X5300=26500)**	6	1	26500	No	0.3038	0	6	0	0	0	6	0	1	0	0	0	1	0	6	0	0	0	6
11	**TOTAL PHYSICAL**		**75**				**300**	**886**	**680**	**330**	**150**	**2346**	**10**	**27**	**22**	**11**	**5**	**75**	**300**	**2136**	**930**	**330**	**150**	**3846**
12	**TOTAL FINANCIAL**					**0.304**	**1.99**	**12.68**	**4.78**	**2.49**	**2.36**													

Total Budget	Table- **Capacity Bulding activities in the project** (PHYSICAL & FINANCIAL) ***4% OF TOTAL PROJECT COST.**																		
	S. No.	Project Stackholders	Total No. of Persons	Total No. of Training	Rate per Trainning	UNIT	Total Am	Year wise Amount vifergation											
Lacks								I Year		II Year		III Year		IV Year		V Year		Total	
	A	**State level trainning**						Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
	1	PIAs (2X5300=10600)	2	10	10600	No	1.060	2	0.212	2	0.212	2	0.212	2	0.212	2	0.212	10	1.06
WCDC	2	WDTs(4X5300=21200)	4	14	21200	No	2.968	2	0.424	2	0.424	3	0.636	3	0.636	4	0.848	14	2.968
7.898	**B**	**Disst. level trainning**																0	
	1	PIAs (2X5600=11200)	2	10	11200	No	1.120	2	0.224	1	0.112	3	0.336	2	0.224	2	0.224	10	1.12
	2	WDTs(4X5600=22400)	4	12	22400	No	2.750	2	0.448	1	0.224	3	0.672	3	0.672	3	0.734	12	2.75
		Total WCDC	**12**	**46**			**7.898**	**8**	**1.308**	**6**	**0.972**	**11**	**1.856**	**10**	**1.744**	**11**	**2.018**	**46**	**7.898**
	3	UG´s	25	12	6800	No	0.816	2	0.14	4	0.272	3	0.204	2	0.136	1	0.068	12	0.816
	4	SHG´s 142 x 3=426 No	426	15	6800	No	1.020	2	0.14	2	0.136	4	0.272	3	0.204	4	0.272	15	1.02
	5	WC´s	15	15	6800	No	1.020	2	0.14	5	0.34	5	0.34	3	0.204		0	15	1.02
PIA	6	GPs	30	15	6800	No	1.020	2	0.14	5	0.34	5	0.34	3	0.204		0	15	1.02
16.10	7	Community	30	11	6800	No	0.748	2	0.14	5	0.34	4	0.272		0		0	11	0.748
	8	EXPOSURE TOUR (INTER STATE)	50	2	150000	No	3.000		0	1	1.500	1	1.5	0	0		0	2	3.000
	9	EXPOSURE TOUR (OUTER STATE)	50	4	210500	No	8.476		0	4	8.476	0	0		0		0	4	8.476
		Total	**626**	**74**			**16.100**	**10**	**0.680**	**26**	**11.404**	**22**	**2.928**	**11**	**0.748**	**5**	**0.340**	**74**	**16.100**
SLNA 0.3038	**C**	**PM/SLNA (5X5300=26500)**	6	1	26500	No	0.3038	0	0	1	0.3038	0	0	0	0			1	0.3038
	11	**TOTAL PHYSICAL**		**121**				**10**		**27**		**22**		**11**		**5**		**75**	
24.302	**12**	**TOTAL FINANCIAL**					**24.302**		**1.988**		**12.680**		**4.784**		**2.492**		**2.358**		**24.302**

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

1	2	3	4	5						6
S. No.	Activity	Executing agency	allocation out of 1% of total Project cost	Allocation in Lacks						Expected Outcome
				I Year	II Year	III Year	IV Year	V Year	Total	
1	tyxg.k {k= xfrfof/k;k dk n'kkrk gvk POP / CLAY / WOOD / PLASTIC l cuk gvk ekMyA MhLiy ckM@lyxDlh ckM@	**PIA**	0.96228	0.000	0.310	0.351	0.301	0.000	0.962	
2	oky ifUVx&tyxg.k xfrfof/k;k] y{;k o ikfIr vkfn dk n'kkrh gb A	**PIA**	0.32076	0.000	0.321	0.000	0.000	0.000	0.321	
3	tyxg.k fodkl lc/kh efnr iEiyVl@fyQ yVl@pkV@ikLVj@vkfnA	**PIA**	0.32076	0.000	0.321	0.000	0.000	0.000	0.321	
4	Ukkjk y[ku	**PIA**	1.2830	0.516	0.767	0.000	0.000	0.000	1.283	
5	lQyrk dh dgkuh;k dh ohfM;kxkQh@QkVkxkQh@ y?kfQYe ,o d"kdk l lk{kjkrdkj @ okrk A	**PIA**	1.28	0.000	0.300	0.000	0.340	0.640	1.280	
6	lkLdfrd R;kgkj @ ey vkfn d volj ij in'kuh @ uDdM @ukVd dViryh in'ku	**PIA**	0.96228	0.000	0.502	0.460	0.000	0.000	0.962	
7	jkf= xk"Bh@Hk lj{k.k llrkg @ pruk jyh	**PIA**	1.2830	0.000	0.811	0.472	0.000	0.000	1.283	
8	tyxg.k fodkl dk ln'k nu oky lkLdfrd dk;Øe									
9	d"kd fnol dk vk;ktu ,o {k= Hke.k fnol dk vk;ktu bR;kfn									
	dy	1.00	6.4152	0.516	3.332	1.283	0.641	0.640	6.412	

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

Various thematic layers provided by P.D. COR LTD. JAIPUR are:

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

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

B) Livelihood Action Plan (LAP):

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

(i) Total project cost Rs 607.56 Lacks.

(ii) Funds available under livelihood component is 9% of total project cost= Rs. 54.68 Lacks.

(a) Seed money for SHGs as revolving fund = Rs. 33.68 Lacks.

(Minimum 60% of livelihood component)

- - No. Of SHG to be formed 150Nos. (135+15)

--- No of persons (members) in SHGs 1500 Nos.

(b) Seed money for enterprising individuals = Rs 5.25 Lacks

(Minimum 10% of livelihood component)

-- No of persons identified as enterprising individuals 21 Nos.

List of persons & Proposed Activities.

S.No	Watershed Committee	No of Person	Activity Proposed
1	Bharni Kalan	3	1. Carpentary 2. Black Smith 3. Dairy 4. kumahari 5. Readymade garment 6. Stitching
2	Jamoli	7	
3	Teekar	10	
4	Amarwasi	0	
5	Luhari Kalan	1	
Total		21	

(c) Funds for Enterprising SHG/Federations of SHG

(Maximum 30 % of livelihood activities)= Rs. 15.75 Lacks

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

Details of enterprising SHG/federation are given below:

S.No.	No. of SHG/ SHG federation	Project Name	Project Cost in lacs	Grant in aid 50% of project cost or 2 lacs whichever is less	Bank loan
1	9	Dairy	40.50	15.75	24.75
2					
	Total				

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

C) Production Plan:

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

(iii) Total project cost Rs. 607.56 Lacks.

(iv) Funds available under Production System & Micro enterprises component is 10% of total project cost= Rs. 60.756 Lacks.

List of persons & Proposed Activities for production system

S.No	No./Area in Hac. of Beneficiaries Person	Activities Proposed
1		Crop Demonstration
	508 No. / 203 ha.	Kharif
	365 No. / 146 ha.	Rabi
	566 No. / 113 ha.	Fodder
2		Agro forestry
	196 No / 365 Ha	1. CVH with Aluvira
	11No / 20 Ha	2. CVH with Aluvira & Karonda
3	64 No / 22.50 Ha	Horticulture
4	30 No.	Nedap Compost
5	1062 No. / 8 ha.	Vegetable Kit
6	7 No.	Vermi compost

(viii) Funds for Animal Husbandry activities **9.932** lacks.

Details of is Animal Husbandry activities given below:

S.No.	Name of Activity	Quantity		Unit cost	Total Cost	
		Project	Convergance		Project	Convergance
1	A.I.	1760	1491	0.0015	2.64	2.2365
2	Animal Husbandry Camp	0	20	0.24	0	4.8
3	Fodder Demos.	566	0	0.01	5.66	0
4	Manger	204	0	0.008	1.632	0
	Total				9.932	7.0365

Awareness Programme

-Slogan Wall Painting,

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

Broadcasting / Telecasting Film Show

Visit- intra/ inter/ out of State/ Abroad

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

Creation Of Disease Free Zone: Livestock's health coverage

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

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

Distribution of mineral mixture. (Convergence with peer department)

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

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

Construction of Animal Sheds with Manger and Portable Manger With accessories

Provision of Cattle Water Troughs.

Infertility Management: To ensure Livestock's Productivity

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

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

Breed Improvment: To ensure Livestock's Productivity enhancement

A.I. (Convergence with peer department)

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

Registration of bulls (Convergence with peer department)

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

Financial Incentive to the Inseminator for Calf Borns.

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

An Assistance to control Malnutrition: Protein Supplementation

Feed & fodder production enhancement.

ANNUAL ACTION PLAN : PIA will prepare annual action plan in the month of January indicating outgoing liabilities as well as new projects which they wish to take during next financial years & will submit to PM(WCDC). These plans will be placed for approval at P.S. (Standing Committee of Production and Agriculture) & Z.P. (Standing Committee of Production) level every year. While preparing Annual Action Plan (AAP) if rates of labour or material in DPR increased or decreased changed rates will be applicable for preparing AAP & the effect of same can be met by converging the remaining works with other schemes.

Proposed Development Plan

Proposed Development Plan																																					
(A)			Preparatory phase activities capacity building trainings & EPA																																				
Activity	Unit	Unit Cost	Luhari Khurd					Teekar					Jamoli					Bharni Kalan					Amarwasi					Total											
			Quantity	Total Cost	Cost from Project Fund	Convergence Fund	Beneficiary Contribution	Quantity	Total Cost	Cost from Project Fund	Convergence Fund	Beneficiary Contribution	Quantity	Total Cost	Cost from Project Fund	Convergence Fund	Beneficiary Contribution	Quantity	Total Cost	Cost from Project Fund	Convergence Fund	Beneficiary Contribution	Quantity	Total Cost	Cost from Project Fund	Convergence Fund	Beneficiary Contribution	Total Cost	Cost from Project Fund	Convergence Fund	Beneficiary Contribution							
Admn.																											60.76	60.756	0.000	0.000							
Monitoring																											6.076	6.076	0.000	0.000							
Evaluation																											6.076	6.076	0.000	0.000							
EPA				1.142	1.142	0	0		10.83	10.834	0	0		8.650	8.650	0	0		3.403	3.403	0	0		0.274	0.274	0	0	24.3	24.303	0.000	0.000							
I & CB																											30.38	30.378	0.000	0.000							
DPR																											6.076	6.076	0.000	0.000							
Total (A)				1.142	1.142	0	0		10.83	10.834	0	0		8.650	8.650	0	0		3.403	3.403	0	0		0.274	0.274	0	0	133.7	133.665	0.000	0.000							
(B)	Natural resource management (56%)																																				
Conservation measures for arable land(private land)																																					
Earthen Bund 0.6mh	Ha		0	0.000	0	0	0	840	78.080	19.800	58.280	1.98	603	55.730	21.420	34.31	2.142	380	35.120	13.500	21.620	1.35	50	4.620	1.800	2.820	0.18	173.6	56.520	117.030	5.652							
Earthen Bund 1.0mh	Ha		0	0.000	0	0	0	20	5.540	5.540	0	0.554	10	2.770	2.770	0	0.277	10	2.770	2.770	0	0.277	0	0.000	0.000	0	0	11.08	11.080	0.000	1.108							
Weste Weir No	No		0	0.000	0	0	0	32	4.416	4.416	0	0.4416	29	4.002	4.002	0	0.4002	21	2.898	2.898	0	0.2898	2	0.276	0.276	0	0.0276	11.59	11.592	0.000	1.159							
Tanka/Khet talai	No		0	0.000	0	0	0	9	6.723	6.723	0	0.6723	8	5.976	5.976	0	0.5976	2	1.494	1.494	0	0.1494	1	0.747	0.747	0	0.0747	14.94	14.940	0.000	1.494							
Bank Stabilisation/ Peripheral Bunds	KM		0	0.000	0	0	0	2	3.160	3.16	0	0	2	3.160	3.160	0	0	1	1.580	1.580	0	0	0	0.000	0.000	0	0	7.9	7.900	0.000	0.000							
Weste Weir No	No		0	0.000	0	0	0	6	0.942	0.942	0	0	2	0.314	0.314	0	0	2	0.314	0.314	0	0	0	0.000	0.000	0	0	1.57	1.570	0.000	0.000							
Conservation measures for non arable land																																					
Pasture Development (Govt.)	Ha		20	15.504	15.504	0	0	100	77.52	77.521	0	0	65	50.389	50.389	0	0	15	11.628	11.628	0	0	0	0.000	0.000	0	0	155	155.042	0.000	0.000							
Pasture Development (Pvt.)	Ha		0	0.000	0	0	0	20	1.380	1.38	0	0	10	0.690	0.690	0	0	10	0.690	0.690	0	0	0	0.000	0.000	0	0	2.76	2.760	0.000	0.000							
V - ditch	Ha		0	0.000	0	0	0	50	4.950	4.95	0	0	157	15.543	15.543	0	0	15	1.485	1.485	0	0	0	0.000	0.000	0	0	21.98	21.978	0.000	0.000							
Stegerd Trench	Ha		0	0.000	0	0	0	50	4.950	4.95	0	0	0	0.000	0	0	0	0	0	0	0	0	0	0.000	0.000	0	0	4.95	4.950	0.000	0.000							
Water Harvesting Structure	No		0	0.000	0	0	0	2	4.000	4.000	0	0	1	2.000	2.000	0	0	1	2.000	2.000	0	0	0	0.000	0.000	0	0	8	8.000	0.000	0.000							
Road Side Plantation	KM		0	0.000	0	0	0	5	5.950	5.950	0	0	3	3.570	3.570	0	0	2	2.380	2.380	0	0	0	0.000	0.000	0	0	11.9	11.900	0.000	0.000							
Drainage line treatment																																					
MMS (Small Masonery Check Dam	No		1	0.489	0.489	0	0	12	4.418	4.418	0	0	8	3.341	3.341	0	0	7	2.940	2.940	0	0	2	1.007	1.007	0	0	12.2	12.195	0.000	0.000							
WHS	No		0	0.000	0	0	0	2	7.920	7.920	0	0	2	7.920	7.920	0	0	1	3.960	3.960	0	0	0	0.000	0.000	0	0	19.8	19.800	0.000	0.000							
Total (B)			21.00	15.99	15.99	0.00	0.00	1150.00	209.95	151.67	58.28	3.65	900.00	155.41	121.10	34.31	3.42	467.00	69.26	47.64	21.62	2.07	55.00	6.65	3.83	2.82	0.28	457.3	340.227	117.030	9.413							

(C)	(C) Lively Hood Activities (9%)																														
Production measures for arable land																															
Revolving Fund to SHG (60% minimum)	No		6	1.500	1.500	0	0	63	15.680	15.680	0	0	51	12.750	12.750	0	0	13	3.250	3.250	0	0	2	0.500	0.500	0	0	33.68	33.680	0.000	0.000
Enterprising invidual (10%Maximum)	No		1	0.250	0.250	0	0	10	2.500	2.500	0.000	0	7	1.750	1.750	0	0	3	0.750	0.750	0	0	0	0.000	0.000	0	0	5.25	5.250	0.000	0.000
SHG or federation of SHGs individual (30% minimum)	No		0	0.000	0.000	0	0	4	7.00	7.00	0.000	0	3	5.25	5.25	0	0	2	3.5	3.5	0	0	0	0	0	0	0	15.75	15.750	0.000	0.000
Total (C)			7	1.750	1.750	0	0	77	25.180	25.180	0	0	61	19.750	19.750	0	0	18	7.50	7.50	0	0	2	0.500	0.500	0	0	54.68	54.68	0.000	0.000
(D) Production System activities (10%)																															
A.I.	No		450	0.675	0.300	0.375	0.06	1251	1.877	1.14	0.737	0.228	750	1.125	0.69	0.435	0.138	550	0.825	0.36	0.465	0.072	250	0.375	0.15	0.225	0.03	4.877	2.640	2.237	0.528
A.H. Camp	No		4	0.960	0.000	0.960	0	4	0.96	0	0.96	0	4	0.96	0	0.96	0	4	0.96	0	0.96	0	4	0.96	0	0.96	0	4.800	0.000	4.800	0.000
Manger	No		15	0.120	0.120	0.000	0.024	80	0.64	0.64	0	0.128	65	0.52	0.52	0	0.104	40	0.32	0.32	0	0.064	4	0.032	0.032	0	0.0064	1.632	1.632	0.000	0.326
Kharif	No		47	1.006	1.006	0	0.2012	185	4.544	4.544	0.000	0.9088	219	4.980	4.980	0	0.996	57	1.300	1.300	0	0.26	0	0.000	0.000	0	0	11.83	11.830	0.000	2.366
Rabi	No		20	0.500	0.500	0	0.1	137	3.500	3.500	0.000	0.7	153	3.899	3.899	0	0.7798	55	1.413	1.413	0	0.2826	0	0.000	0.000	0	0	9.312	9.312	0.000	1.862
Fodder	No		15	0.150	0.150	0	0.03	263	2.630	2.630	0	0.526	233	2.350	2.350	0	0.47	55	0.550	0.550	0	0.11	0	0.000	0.000	0	0	5.68	5.680	0.000	1.136
Horticulture plantation	Ha		1	0.240	0.24	0	0.048	10	5.400	2.400	3.000	0.48	8	4.320	1.920	2.4	0.384	4	1.080	0.480	0.600	0.096	1.5	0.660	0.360	0.300	0.072	11.7	5.400	6.300	1.080
Sprinklers and Drip irrigation	Ha		1	0.3	0	0.3	0	16	7.290	0.000	7.290	0	6	2.835	0	2.835	0	17	7.695	0	7.695	0	0	0.000	0.000	0	0	18.12	0.000	18.120	0.000
Nedap Compost	No		0	0.000	0	0	0	10	0.200	0.200	0.000	0.04	10	0.200	0.200	0	0.04	10	0.200	0.200	0	0.04	0	0.000	0.000	0	0	0.6	0.600	0.000	0.120
Vegetables	No		54	0.540	0.54	0	0.108	456	4.560	4.560	0	0.912	317	3.170	3.170	0	0.634	225	2.250	2.250	0	0.45	10	0.100	0.100	0	0.02	10.62	10.620	0.000	2.124
Medicinal plants	Ha		0	0	0	0	0	0	0.000	0.000	0	0	3	0.405	0	0.405	0	5	0.675	0	0.675	0	1	0.135	0	0.135	0	1.215	0.000	1.215	0.000
Vermi compost	No		0	0.000	0	0	0	5	1.200	1.200	0.000	0.24	2	0.480	0.480	0	0.096	0	0.000	0.000	0	0	0	0.000	0.000	0	0	1.68	1.680	0.000	0.336
poultry	No		5	7.500	0.000	7.500	0	5	7.500	0.000	7.500	0	15	22.500	0.000	22.500	0	20	30.000	0.000	30.000	0	0	0.000	0.000	0.000	0	67.5	0.000	67.500	0.000
Alovira on Farm Bunding	Ha		0	0.000	0.000	0	0	830	17.220	4.200	13.02	0.84	598	12.438	2.400	10.038	0.48	375	7.845	0.600	7.245	0.12	50	1.045	0.040	1.005	0.008	38.55	7.240	31.308	1.448
Alovira + Karonda on Farm Bunding	Ha		0	0.000	0.000	0	0	10	2.070	2.070	0.000	0.414	5	1.035	1.035	0	0.207	5	1.035	1.035	0	0.207	0	0.000	0.000	0.000	0	4.14	4.140	0.000	0.828
Total (D)			**612**	**11.991**	**2.856**	**9.135**	**0.5712**	**3262**	**59.591**	**27.084**	**32.507**	**5.4168**	**2388**	**61.217**	**21.644**	**39.573**	**4.3288**	**1422**	**56.148**	**8.508**	**47.64**	**1.7016**	**320.5**	**3.307**	**0.682**	**2.625**	**0.1364**	**192.256**	**60.774**	**131.48**	**12.154**
(E) Consolidation																												18.23	18.227	0	0
Grand Total			640	30.88	21.74	9.14	0.57	4489.00	305.56	214.77	90.79	9.06	920.936	245.02	171.14	73.88	7.75	487.936	136.31	67.05	69.26	3.77	75.936	10.73	5.29	5.45	0.42	856.08	607.573	248.510	21.57

Signatures
Project Manager, WCDC
Distt. ----------

CHAPTER -I V
Activity wise Total Abstract of cost

xfrfof/k dk uke	TOTAL TARGET			From W/S			Other Scheme			Beneficiary Contribution	Name of Other Scheme
	Hkkfrd y{;	;fuV	w/s + other	Hkkfrd y{;	nj	foRrh; y{;	Hkkfrd y{;	nj	foRrh; y{;		
i'kklfud ykxr			60.756			60.756			0.000		
ekfuVfjx			6.076			6.076			0.000		
bokY;'ku			6.076			6.076			0.000		
io'k fcUn xfrfof/k			24.302			24.302			0.000		
lLFkku o {ker fuek.k			30.378			30.378			0.000		
foLrr ifj;kstuk ifronu			6.076			6.076			0.000		
mi;ksx			**133.663**	**0**		**133.663**	**0**		**0.000**		
tyxg.k fodkl dk; pj.k											
df"k Hkfe dk; ¼vflfpr½						**0.000**					
CVH(NRM) Ha.SC/ST/BPL	1245	Ha	117.030				1245	0.094	117.030	0.00	MNREGS
CVH(NRM) Ha. Other (0.6 m) H	628	Ha	56.520	628	0.090	56.520	0	0.094	0.000	5.652	
Weste Weir No	84	No	11.592	84	0.138	11.592	0		0.000	1.159	
Contour Bund 1 m Height	40	Ha	11.080	40	0.277	11.080	0	0.110	0.000	1.108	
Farm Pond No.	20	No	14.940	20	0.747	14.940	0	0.766	0.000	1.494	MNREGS
¼vdf"k Hkfe½											
pkjxkg fodkl Ha.	200	Ha	155.042	200	0.775	155.042	0	0.797	0.000	0.00	
pkjxkg fodkl Ha.(Private Farmer)	40	Ha	2.760	40	0.069	2.760	0		0.000	0.00	
Nadi in P.D. Area & weste land	4	No	8.000	4	2.000	8.000	0		0.000	0.00	
Open Contour Trench Ha	222	Ha	21.978	222	0.099	21.978	0	0.101	0.000	0.00	MNREGS
Stegered Contour Trench Ha	50	Ha	4.950	50	0.099	4.950	0	0.101	0.000	0.00	
Road Side Plantation	10	Km	11.900	10	1.190	11.900	0	1.220	0.000	0.00	MNREGS
ukyk mipkj dk;											
Bank Stabelization	5	Km	7.900	5	1.580	7.900	0	0.000	0.000	0.00	MNREGS
Weste Weir No	10	No	1.570	10	0.157	1.570	0		0.000	0.00	
Small Masonery Check Dam	30	No	12.201	30	0.420	12.201	0		0.000	0.00	MNREGS
Medium Masonery Check Dam	5	No	19.800	5	3.960	19.800	0		0.000	0.00	MNREGS
mi;ksx			**457.263**	**1348**		**340.233**	**1245**		**117.030**		
Lively Hood Activities											
Lo; lgk;rk leg (R/F.)	135	No	33.680	135	0.25	33.68	0			0.00	W/S
R.F. to Indivisual enterencure	21	No	5.250	21	0.25	5.25	0			0.00	W/S
Grant in Add. to Fedration	9	No	15.750	9	1.75	15.75	0		0.000	0.00	W/S
exhikyu	50	No	75.000			0.000	50	1.50	75.000	0.00	ANIMAL HUSBANDRY
eNyh ikyu	20	No	100.000			0.000	20	5.00	100.000	0.00	FISHARIES DEPTT.
mPp f'k{kk	169	No	16.900			0.000	169	0.10	16.900	0.00	SOCIAL WALFAIR
rduhdh if'k{k.k	128	No	12.800			0.000	128	0.10	12.800	0.00	RUDSET/ILFS
lkekftd lgk;rk	273	No	9.555			0.000	273	0.035	9.555	0.00	SOCIAL WALFAIR
i'k chek ;kstuk	14928	No	59.712			0.000	14928	0.004	59.712	0.00	ANIMAL HUSBANDRY
Other			0.000			0.000	0				W/S
mi;ksx			**328.647**			**54.680**			**273.967**		
Production System Activities											
A.I.	3251	No	4.877	1760	0.0015	2.640	1491	0.0015	2.237	0.528	ANIMAL HUSBANDRY
A.H.CAMP	20	No	4.800	0	0.240	0.000	20	0.240	4.800	0.00	ANIMAL HUSBANDRY

Manger	204	No	1.632	204	0.008	1.632	0		0.000	0.326	
[kjhQ		No	11.830	508		11.83	0			2.366	
jch		No	9.312	365		9.312	0			1.862	
pkjk in'ku	566	Ha	5.660	566	0.010	5.660	0	0.010	0.000	1.136	HORTICULTURE
Qynkj ik/kkjki.k	26	Ha	12.000	22.5	0.240	5.400	22	0.300	6.600	1.080	HORTICULTURE
oeh dEikLV	7	No	1.680	7	0.240	1.680	0	0.300	0.000	0.336	AGRICULTURE
uMi dEikLV	30	No	0.600	30	0.020	0.600	0	0.020	0.000	0.120	MNREGS
lCth fdVl	1062	No	10.620	1062	0.010	10.620	0	0.020	0.000	2.124	HORTICULTURE
df'k Hkfe (cvh Pro.)sc/st/BPL Alu	1245	Ha	26.145				1245	0.021	26.145	0.00	MNREGS
df'k Hkfe (cvh Pro.) Other Alu	608	Ha	12.406	362	0.020	7.240	246	0.021	5.166	1.448	MNREGS
df'k Hkfe (cvh Pro.) Other Alu+Kar	20	Ha	4.140	20	0.207	4.140	0	0.210	0.000	0.828	MNREGS
tfod ckM	51	Ha	8.054				51.3	0.157	8.054	0.00	OTHERS
Qyk dh [krh	12	Ha	2.808				11.7	0.24	2.808	0.00	HORTICULTURE
elkyk [krh	7	Ha	1.678				7.2	0.233	1.678	0.00	HORTICULTURE
vk"k/kh;k ik/kk dh [krh	13	Ha	1.890				12.6	0.15	1.890	0.00	HORTICULTURE
uljh LFkkiuk (25000 Forest Plant/- Family)	4	No	1.000				4	0.25	1.000	0.00	MNREGS
ftlle l Hkfe l/kkj	132	Ha	0.926				132	0.007	0.926	0.00	AGRICULTURE
flpkb gr ikbi ykbu	109	No	16.350				109	0.15	16.350	0.00	AGRICULTURE
fLiDyj flLVe	41	Ha	18.225				41	0.45	18.225	0.00	AGRICULTURE
fMi flpkb ;ktuk	36	Ha	15.120				36	0.42	15.120	0.00	AGRICULTURE
df'k ;= ¼Li;j½	119	No	5.950				119	0.05	5.950	0.00	AGRICULTURE
ik/k lj{k.k ;=	71	No	0.710				71	0.01	0.710	0.00	AGRICULTURE
uhe mRiknu	0	No	0.000				0	0.005	0.000	0.00	MNREGS
xhu gkml LFkkiuk	0	Ha	0.000				0	1.5	0.000	0.00	HORTICULTURE
ckl mRiknu	16	Ha	1.296				16	0.08	1.296	0.00	HORTICULTURE
Total			**179.708**			**60.754**			**118.954**		
dUlkfyM'ku pj.k			**18.227**			18.227					
GRAND TOTAL			**1117.51**			**607.56**			**509.95**	**21.57**	

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

Signatures
Project Manager, WCDC
Distt. ----------

CHAPTER – V Annual Action Plan : The project period can vary from 4 to 7 years and accordingly the table given below be prepared. Also the activities mentioned below are indicative and can vary from project to project. Also this if PIA feels necessary to make it GP Wise it can add pages.

Annual Action Plan (Through Project Fund)

d- l-	xfrfof/k dk uke	o"kokj ;kstuk																	dy ;kx	
		y{;					2011 - 12		2012 - 13		2013 - 14		2014 - 15		2015 - 16		2016 - 17			
							iFke o"k		f)rh; o"k		rrh; o"k		prFk o"k		ipe o"k		NBoh o"k			
		ifr'kr	ek=k	nj	As Per Annx.	ykxr	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd	foRrh;
1	ik'kqlfud ykxr	**10%**				60.756				3.645		17.619		15.189		12.151		12.151		60.756
(I.)	WDT lnL;k dk ekun;					21.380				2.220		4.440		4.440		4.440		5.840		21.380
(II.)	tyxg.k deVh dh lfpok dk ekun;					6.480						1.440		1.440		1.440		2.160		6.480
(III.)	Lo; lodk dk ekun;					6.480						1.440		1.440		1.440		2.160		6.480
(IV.)	dk;ky; 0;; ¼thi dk fdjk;k½					26.416				1.425		10.299		7.869		4.831		1.991		26.416
	mi;kx					**60.756**	**0**	**0.000**	**0**	**3.645**	**0**	**17.619**	**0**	**15.189**	**0**	**12.151**	**0**	**12.151**	**0**	**60.756**
2	ekfuVfjax					6.076						2.734		1.519		0.608		1.215		6.076
3	bokY;qa'ku					6.076						0.608		2.430				3.0378		6.076
	mi;kx					**12.151**						**3.342**		**3.949**		**0.608**		**4.2529**	**0**	**12.151**
1	ikS'k fcUnq xfrfof/k	**4%**				**24.302**														0.000
1	lkyj ykbV		25	24000		6.00				6.00										0.000
2	ik;ty ;kstuk					18.302				18.302										24.302
	mi;kx					**24.302**		**0.000**		**24.302**		**0.000**		**0.000**		**0.000**		**0.000**		**24.302**
2	lLFkku o {ks=k fuekZk	**5%**				**30.378**														**30.378**
	mi;kx					**30.378**		**0.000**	**0**	**2.430**	**0**	**15.797**	**0**	**6.076**	**0**	**3.038**	**0**	**3.038**		30.378
6	foLrr ifj;kstuk ifronu	**1%**				**6.076**				**6.076**										6.076
	mi;kx					**6.076**		**0.000**		**6.076**		**0.000**		**0.000**		**0.000**				**6.076**
7	tyxg.k dk; pj.k																			0.000
1	tyxg.k fodkl dk; pj.k	**56%**				**340.234**		**0.000**		**0.000**		**121.512**		**151.89**		**66.832**		**0.000**		**340.234**
(I.)	df"k Hkfe dk; ¼vf lfpr½																			
(i)	CVH(NRM) Ha. Sc/st/BPL							0.000		0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
(ii)	CVH(NRM)Ha. Other		628	9000		56.520		0.000		0.000	241	21.690	318	28.620	69	6.210	0	0.000	628	56.520
(iii)	West weir Na.		84	13800		11.592		0.000		0.000	34	4.692	40	5.520	10	1.380	0	0.000	84	11.592
(iv)	Contour Bund 1 mH		40	27700		11.080		0.000		0.000	15	4.155	20	5.540	5	1.385	0	0.000	40	11.080
(v)	Farm Pond No.		20	74700		14.940				0.000	2	1.494	12	8.964	6	4.482	0	0.000	20	14.940
(II.)	¼vdf"k Hkfe½																		0	0.000
(i)	pkjxkg fodkl Ha.(NRM)		200	77521		155.042				0.000	92	71.319	73	56.590	35	27.132	0	0.000	200	155.042
(ii)	pkjxkg fodkl Ha.(Production)		200	0		0.000					0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
(iii)	Nadi in P.D. Area		4	200000		8.000					0	0.000	3	6.000	1	2.000	0	0.000	4	8.000
(iv)	pkjxkg fodkl Ha.(Private farmer)		40	6900		2.760					20	1.380	18	1.242	2	0.138	0	0.000	40	2.760
(v)	Open Contour Trench		222	9900		21.978					68	6.732	99	9.801	55	5.445	0	0.000	222	21.978
(vi)	Stegered Trench		50	9900		4.950					15	1.485	35	3.465	0	0.000	0	0.000	50	4.950
(vii)	Bank Stabelization		5	158000		7.900					1.5	2.370	2.5	3.950	1	1.580	0	0.000	5	7.900

(viii)	West weir Na.		10	15700		1.570		0.000		0.000	4	0.628	5	0.785	1	0.157	0	0.000	10	1.570
(ix)	Road side Plantation		10	119000		11.900					1.5	1.785	6.5	7.735	2	2.380	0	0.000	10	11.900
(IV.)	**ukyk mipkj dk;**																			
(i)	Small Masanery Check Dam		30	42000		12.202					0	0.000	13	5.619	15	6.589	0	0.000	28	12.208
(ii)	Medium Masanery Check Dam		5	396000		19.800					1	3.960	2	7.920	2	7.920	0	0.000	5	19.800
	mi;kx				**0.00**	**340.234**		**0.000**		**0.000**		**121.690**		**151.751**		**66.798**		**0.000**	**1346**	**340.240**
2	**Lively Hood Activities**																			
		9%				**54.680**						**6.076**		**18.227**		**18.227**		**12.151**		**54.680**
(i)	Lo; lgk;rk leg (R/F.)		135	25000		33.68				0.000	23	5.68	52	13	29	7.25	31	7.75	135	**33.680**
(ii)	R.F. to Indivisual enterencure		21	25000		5.25				0.000	2	0.500	8	2.000	8	2	3	0.750	21	**5.250**
(iii)	Grant in Add. to Fedration		9	175000		15.75					0	0	3	5.25	5	8.75	1	1.75	9	**15.750**
	mi;kx					**54.680**		**0.00**		**0.00**		**6.18**		**20.25**		**18.00**		**10.25**	**165**	**54.680**
3	**Production System Activities**	**10%**				**60.756**						**12.151**		**21.265**		**21.265**		**6.076**		**60.756**
(I.)	**A.I.**	**No**	1760	**150**		2.640					320	0.480	585	0.878	425	**0.638**	430	**0.645**	1760	2.640
(ii)	A.H. CAMP	**No**	0	24000		0.000					0	0.000	0	0.000	0	**0.000**	0	**0.000**	0	0.000
(iii.)	Manger	**No**	204	800		1.632					52	0.416	62	0.496	45	**0.360**	45	**0.360**	204	1.632
(iv.)	[kjhQ No		508			11.830					164	3.592	249	5.373	85	2.639	10	0.227	508	11.830
(v.)	jch No.		365			9.312					55	1.410	232	5.683	78	2.219	0	0.000	365	9.312
(vi.)	pkjk in'ku		566	1000		5.660					115	1.150	208	2.080	148	**1.480**	95	**0.950**	566	5.660
(vii.)	Qynkj ik/kkjki.k Ha.		22.5	24000		5.400					4	0.960	8	1.920	7.5	**1.800**	3	**0.720**	23	5.400
(viii)	oeh dEikLV No		7	24000		1.680					2	0.480	1	0.240	3	**0.720**	1	**0.240**	7	1.680
(IX)	uMi dEikLV No		30	2000		0.600					6	0.120	11	0.220	9	**0.180**	4	**0.080**	30	0.600
(X)	fdpu xkMu No		1062	1000		10.620					281	2.810	292	2.920	291	**2.910**	198	**1.980**	1062	10.620
(XI.)	df"k Hkfe (cvh Pro.) Other		362	2000		7.240					50	1.000	60	1.200	140	**2.800**	112	**2.240**	362	7.240
(XII)	df"k Hkfe (cvh Pro.) Other		20	20700		4.140					1	0.207	4	0.828	9	**1.863**	6	**1.242**	20	4.140
	mi;kx				**0.00**	**60.754**		**0.000**		**0.000**	**1050**	**12.625**	**1712**	**21.838**	**1241**	**17.608**	**904**	**8.684**	**4907**	**60.754**
10	**dUlkfyM'ku pj.k**					**18.227**										**0.000**		18.227		18.227
	dy ;kx					**607.56**		**0.00**		**36.45**		**177.25**		**219.05**		**118.20**		**56.60**	**6418**	**607.564**

Signatures
Project Manager, WCDC

Distt. ----------

CHAPTER – V Annual Action Plan : The project period can vary from 4 to 7 years and accordingly the table given below be prepared. Also the activities mentioned below are indicative and can vary from project to project. Also this if PIA feels necessary to make it GP Wise it can add pages.

Annual Action Plan (Through convergence)

d- l-	xfrfof/k dk uke	o"kokj ;kstuk																	dy ;kx	
		y{;					2011 - 12		2012 - 13		2013 - 14		2014 - 15		2015 - 16		2016 - 17			
							iFke o"k		f)rh; o"k		rrh; o"k		prFk o"k		ipe o"k		NBoh o"k			
		ifr 'kr	ek=k	nj	As Per Annx.	ykxr	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd y{;	foRrh; y{;	Hkkfrd	foRrh;
7	tyxg.k dk; pj.k																			
1	tyxg.k fodkl dk; pj.k																			
(I.)	df"k Hkfe dk; ¼vflfpr½																			
(i)	CVH(NRM) Ha. Sc/st/BPL		1245	9400		117.030		0.000		0.000	415	39.010	415	39.010	415	39.010	0	0.000	1245	117.030
	mi;kx				0.00	117.030		0.000		0.000		39.010		39.010		39.010		0.000	1245	117.030
2	Lively Hood Activities																			
(i)	exhikyu		50	150000		75.000			10	15.000	10	15.000	10	15.000	10	15.000	10	15.000	50	75.000
(ii)	eNyh ikyu		20	500000		100.000			4	20.000	4	20.000	4	20.000	4	20.000	4	20.000	20	100.000
(iii)	mPp f'k{kk		169	10000		16.900			30	3.000	30	3.000	35	3.500	35	3.500	39	3.900	169	16.900
(iv)	rduhdh if'k{k.k		128	10000		12.800			26	2.600	26	2.600	26	2.600	26	2.600	24	2.400	128	12.800
(v)	lkekftd lgk;rk		273	3500		9.555			55	1.925	55	1.925	55	1.925	55	1.925	53	1.855	273	9.555
(vi)	i'k chek ;kstuk		14928	400		59.712			3000	12.000	3000	12.000	3000	12.000	3000	12.000	2928	11.712	14928	59.712
(vii)	Other		0			0.000			0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
	mi;kx					273.967		0.00		54.53		54.53		55.03		55.03		54.87	15568	273.967
3	Production System Activities																			
(I.)	A.I.		1491	150		2.237			299	0.449	298	0.447	298	0.447	298	0.447	298	0.447	1491	2.237
(ii)	A.H. CAMP		20	24000		4.800			4	0.960	4	0.960	4	0.960	4	0.960	4	0.960	20	4.800
(ii)	Qynkj ik/kkjk i.k Ha.		22	30000		6.600			5	1.500	5	1.500	4	1.200	4	1.200	4	1.200	22	6.600
(iii)	df"k Hkfe (cvh Pro.) Other		1245	2100		26.145			249	5.229	249	5.229	249	5.229	249	5.229	249	5.229	1245	26.145
(iv)	df"k Hkfe (cvh Pro.) Other		246	2100		5.166			50	1.050	49	1.029	49	1.029	49	1.029	49	1.029	246	5.166
(v)	tfod ckM		51.3	15700		8.054			11	1.727	10.3	1.617	10	1.570	10	1.570	10	1.570	51	8.054
(vi)	Qyk dh [krh		11.7	24000		2.808			3	0.720	2.7	0.648	2	0.480	2	0.480	2	0.480	12	2.808

(vii)	elkyk [krh		7.2	23300		1.678			2	0.466	2	0.466	1.2	0.280	1	0.233	1	0.233	7	1.678
(viii)	vk"kh;k ik/kk dh [krh		12.6	15000		1.890			3	0.450	3	0.450	2.6	0.390	2	0.300	2	0.300	13	1.890
(ix)	uljh LFkkiuk (25000 Forest Plant/-Family)		4.0	25000		1.000			1	0.250	1	0.250	1	0.250	1	0.250	0	0.000	4	1.000
(x)	ftlle l Hkfe l/kkj		132.3	700		0.926			27	0.189	27	0.189	26.3	0.184	26	0.182	26	0.182	132	0.926
(xi)	flpkb gr ikbi ykbu		109.0	15000		16.350			22	3.300	22	3.300	22	3.300	22	3.300	21	3.150	109	16.350
(xii)	fLiDyj flLVe		40.5	45000		18.225			8.5	3.825	8	3.600	8	3.600	8	3.600	8	3.600	41	18.225
(xiii)	fMi flpkb ;ktuk		36.0	42000		15.120			8	3.360	7	2.940	7	2.940	7	2.940	7	2.940	36	15.120
(xiv)	df"k ;= ¼Li;j½		119.0	5000		5.950			24	1.200	24	1.200	24	1.200	24	1.200	23	1.150	119	5.950
(xv)	ik/k lj{k.k ;=		71.0	1000		0.710			15	0.150	14	0.140	14	0.140	14	0.140	14	0.140	71	0.710
(xvi)	uhe mRiknu		0.0	500		0.000			0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
(xvii)	xhu gkml LFkkiuk		0.0	150000		0.000			0	0.000	0	0.000	0	0.000	0	0.000	0	0.000	0	0.000
(xviii)	ckl mRiknu		16.2	8000		1.296			4	0.320	3.2	0.256	3	0.240	3	0.240	3	0.240	16	1.296
mi;kx					**0.00**	**118.954**		**0.000**		**24.696**		**23.774**		**22.992**		**22.853**		**22.403**	**2144**	**118.954**
dy ;kx						**509.95**		**0.00**		**79.22**		**117.31**		**117.03**		**116.89**		**77.27**	**18957**	**509.95**

Signatures
Project Manager, WCDC

Distt. ----------

CHAPTER – VI EXPECTED OUT COMES

1	2	3	4	5	6
S. No.	**Item**	**Unit of measurement**	**Pre-project Status**	**Expected Post-project Status**	**Remarks**
1	Status of water table (Depth to Ground water level)	Meters	18.30	17.50	
2	Ground water structures repaired/ rejuvenated	No.	-	-	
3	Quality of drinking water	Description	ALK LINE	PURE WATER	
4	Availability of drinking water	Description	60-65%	80-90%	Work in EPA Activity
5	Change in irrigated Area	Ha	886	925	
6	Change in cropping/ land use pattern	Description			
7	Area under agricultural crop	Ha			
	I Area under single crop	Ha	1677	1800	
	Ii Area under double crop	Ha	758	797	
	Iii Area under multiple crop	Ha	-	10	
8	Change in cultivated Area	Ha			
9 yield of major crops of area	Yield of Bajra	Kg/ha	1010	1150	
	Yield of Wheat	Kg/ha	2747	2850	
	Yield of Gram	Kg/ha	811	880	
	Yield of Mustard	Kg/ha	1065	1150	
10 production of major crops of area	Production of Bajra	ton	57.57	65.55	
	Production of Wheat	ton	1249.885	1296.75	
	Production of Gram	ton	55.148	59.84	
	Production of Mustard	ton	234.300	253	
11	Area under vegetation	Ha	0	9	
12	Area under horticulture	Ha	0.75	15.25	
13	Area under fuel	Ha	0	222	
14	Area under Fodder	Ha	2799	2999	
15	Fodder production	Q	69844	74835	
16	Milk production	Litres/day	7075	10500	
17	SHGs Active	No.	16	144	
18	No. of enterprising individuals	No.	0	22	
19	Income for capita per year	Rs. in lacs	0.145	0.165	
20	Migration	No.	2450	2050	
21	SHG Federations formed	No.	0	13	

Critical Assumption

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

Means of Verification of indicators

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

CHAPTER VII TECHNICAL DESIGNS AND ESTIMATES

Technical designs and estimates for proposed activities.

For Estimates GKN of the districts should be used. For Production System activities, rates provided by the Department are to be used & if not vailable than rates of Agriculture/Horticulture/ Animal Husbandry should be used.

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

CHAPTER - VIII Enclosures -

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

c. Map of **JAHAJPUR (IWMP – XIV)** Project (Watershed Boundary demarcation in cadastral & Topo Sheet)

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

e. Treatment map (Indicate proposed works)

f. Cadastral Map on watershed boundary

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

h. Land Use Land Cover map

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

j. High resolution, latest Remote Sensing Satellite data

Documents of Agreements:

Proceedings of gram sabha for EPA approval

Proceedings of gram sabha Resolution for committee constitution

Proceedings of gram sabha for DPR approval

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

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

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

Project Manager, WCDC
WD&SC.Distt.----------

IWMP WATERSHED PROJECT JAHAJPUR

Village -

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India

Estimate of Anicut		
Name of Gram Panchayat	**:-**	
Panchayat Samity	**:-**	**Jahajpur**
Name of Site	**:-**	
Name of samiti	**:-**	
Type of Structure	**:-**	**R.R.Stone masonary structure**
GPS position		
Latitude	**:-**	
Longitude	**:-**	
Macro/Micro No.	**:-**	
Cost of Anicut	**:-**	**3.96 Lack**

Basic Data of Project				
		=		
1	Catch ment Area	=	450	Ha.
2	Maxmium Rain fall intencity	=	5	cm./hr.
3	General nature of catchment Area			
a.	Agricultural land	=	250	
b.	Pasture Land	=	200	Ha.
4	Height of crest above G.L.	=	1.7	M.
5	Flood lift	=	1	
6	Free board	=	0.5	
7	Top width of Head wall	=	1	
8	Bottom width of Head wall	=	2.70	
9	Width of concrete Bed	=	2.70	
10	Length of crest	=	11	M.
11	Percentage slope of land	=	0.03	
12	No. of well benifited	=	0	
13	Cost of Project	=	396000.00	
a.	Labour component	=	140000.00	
b.	Material component	=	256000.00	
c.	Contingency	=	11509	
Rates are as per BSR (GKN) 2012, Bhilwara				

Catch ment Area				450	Ha.
Maxmium Rain fall intencity				5	Cm/hr
General nature of catchment Area					
Agricultural land				250	
Pasture Land				200	
Height of crest above G.L.				1.7	
Length of crest				11	
Percentage slope of land				0.03	
No. of well benifited					
No of farmer benifited					
S.C.					
S.T.					
Others					
Total				0	
Area to be benifited					
S.C.				0	
S.T.				0	
Others				0	
Total				0	
Circle	Bhilwara				

IWMP WATERSHED PROJECT JAHAJPUR

Village -

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India

Name of Village	**:-**	0					
Name of Site	**:-**	0					
Design calculation of anicut							
A.							
I	Available crest length			11	M		
ii	Total catchment Area			450	Ha.	As per G.T.Sheet	
iii	Peak Runoff Rate						
a	By Rational Method				Use when catchment is <1300Ha.		
	Q_p	=	0.0276 CIA		Q=Run off in m3/sec.		
					C= Coefficient of runoff		0.3
	K	=	$L^{3/2}/H^{1/2}$		I= Intensity of rain fall in cm/hr.		5
	K	=	36084.39		A= Catchment Area in Ha.		450
	Tc	=	$0.0195K^{0.77}$		L=Maxmium length of travel by runoff water in m.		2500
	Tc	=	62.98		H= Difference in elevation between most remote		12
					point and and outlet point in meter		
			$Q_{p=}$	0.0276	0.30 X 5 X 450		
	Q_p	=	18.63				
b	**By weir formula**						
	Q	=	$1.71Lh^{3/2}$				
	18.63	=	1.71	11	$h^{3/2}$		
	h		0.99				
	Say	h=	1				
3	**Free Board**				hw= Wave height in meter		
	F_b=	$1.5h_w$			Df= Fetch length in meter	450	Meter.
		$1.5X0.014(D_f)^{1/2}$					
	F_b=	0.45					
	Say	Fb=	0.5				
B.	**STRUCTURAL DESGIN**						
1	Head wall						
a	Height of Head wall H=			1.72			
b	Top width(Tw) =			h	P= Sp.ht. Of masonary		2.3
				$(P-1)^{1/2}$			
			Tw=	0.88			
	Top width=		1				
C.	Bottom width Bw			Tw+0.8H			
			Bw=	2.38			
	So Bottom Width=			2.70	Meter		
2	Head wall extension						
a	Length= H+h+1+Fb						
	1.72	+	1	+	1	+	= 3.72 Meter
		But as per site condition			=	4	
b	Height of Head Extensionwall =				H+h+Fb		
				1.72	+ 1	+ 0.5	= 3.2 Meter
c	Top width						0.6 Meter
d	Bottom Width= 0.5(H+h)			=	0.5(1.7	+ 1.0)=	1.36 Meter

contd..

3	Side wall										
a	Length=	1.75H+0.75h+0.45			=				4.2		
		But as per site condition=							4.5	Meter	
b	Height:										
	At H.W.End=	H+h+Fb	1.72		+	1	+	0.5	=	3.2	Meter
	At W.W.End=	h+fb	=		1	+	0.5	=		1.5	Meter
c	Top width=									0.6	Meter
d	Bottom width=										
	At H.W.End=	0.6+0.4(H+h)								1.7	Meter
	At W.W.End=	0.6+0.4(1.5h)								1.2	Meter
			But taken as=							1.2	Meter
4	Wing wall										
a	Height	h+Fb	1	+	0.5	=				1.5	Meter
b	Length=	2.25h	2.25		X	1			=	2.25	Meter Say 1.5
c	Top width									0.6	Meter
	Bottom width of wing wall									0.6	Meter
5	Apron										
a	Length=									11	Meter
b	Width=	H+h+Fb	1.72		+	1	+	0.5		3.2	Meter Say 2
c	Thickness									0.8	Meter
6	Toe wall										
a	Length=									11	Meter
b	Width=									0.3	Meter
c	Height=									0.2	Meter

C= Coefficient of runoff		0.3
I= Intensity of rain fall in cm/hr.		5
A= Catchment Area in Ha.		450
L=Maxmium length of travel by runoff water in m.		2500
H= Difference in elevation between most remote point and and outlet point in meter		12
h= Head over the crest in mtr.	0.99	1
Df= Fetch length in meter		450
Fb =Free board	0.45	0.5
Top width Tw=	0.88	1
Height of cerst		1.72
Bottom Width of Head wall Bw	2.376	2.7
Lenth of Head wall extension=	3.72	4
Length of side wall=	4.21	4.5
Bottom Width of Side wall	1.688	1.2
	1.2	
Length of wing wall	2.25	1.5

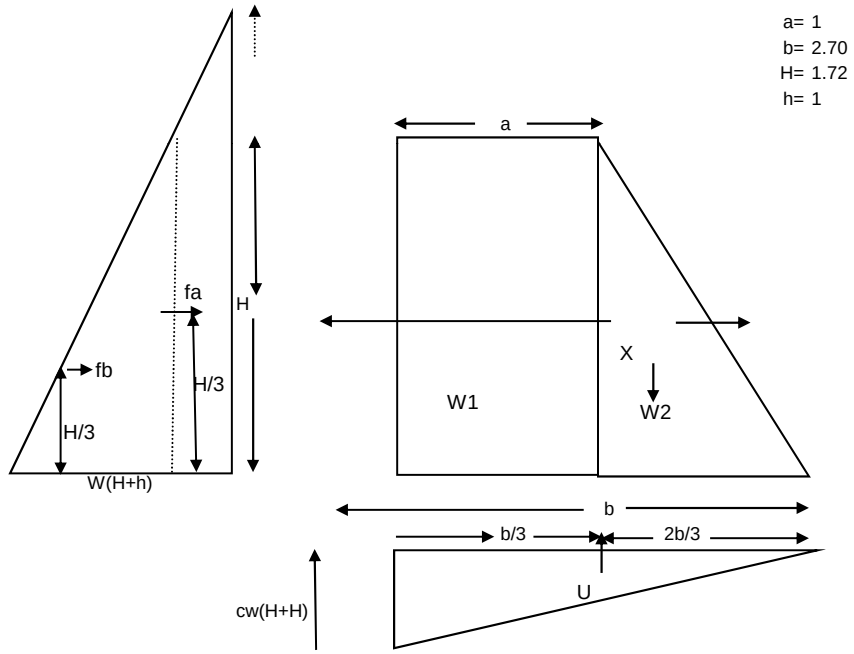
IWMP WATERSHED PROJECT JAHAJPUR

Village -

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India

Name of Village	**:-**	0
Name of Site	**:-**	0

FREE BODY DIAGRAM



Specific Wt. Of masonary P					=		2.3	T/m^3	
Specific Wt. of water w					=		1	T/m^3	
Cofficient of uplift pressure c					=		0.6		
cofficient of friction atbed surface and creep length					=		0.75		
Weight of Dam-:					=				
Weight of Dam-:									
	W_1=	aHP							
	W_1=		T			3.956	T		
	W_2=	$\frac{b-a}{2}$ HP=				3.3626	T		
	W=	W_1+W_2=		3.956	+	3.3626	=	7.3186	T
Water pressure									
At Depth h= P_1 = wh =				1	X	1	=	1	T/m^2
At Depth H+h= P2 = w(H+h) =									
	1(	1.72	+		1	)	=	2.7	T/m^2
Force aching due to water pressure I.e. Net horizontal									
Water force	P=	$\frac{P1+P2}{2}$ H=					=	3.1992	T/m^2
Horizontal water pressure at depth h =Fa=					wHh=		=	1.72	T
	At depth H+h = Fb=				$\frac{P2-P1}{2}$ H		=	1.4792	T
Force due to water column at crest F3					whe			1	T

IWMP WATERSHED PROJECT JAHAJPUR

Village -

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India

Name of Village	:-	0
Name of Site	:-	0

STABILITY CHECKS

1 **Safety against over turning**

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

$1.72\frac{1.72}{2} + 1.479\frac{1.72}{3} + 2.2\frac{2}{3}2.70$

Mo= 6.293

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

Mr=

Mr= 8.7032 + 3.811 + 2.200 = 14.7

Factor of safety $\frac{Mr}{Mo}$ $\frac{14.714}{6.293}$ = 2.338 >1.5 Hence

Structure is safe against over turning

2 **Safety against Rupture from tension**

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

3.956 + 3.3626 + 1 - 2.203 = 6.115

Position of resultant where it cut the base

X= $\frac{\text{Excess moment(Mr-Mo)}}{\text{Net vertical force}}$ = $\frac{14.71 - 6.293}{6.115}$ = 1.38

TRUE

3 **Safety against crusing**

Eccentricity e = b/2-X

-0.027

Crusting stress at the toe of theHead wall

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

Pc= 2.1288955

Pc<<20 Hence it is safe

4 **Safety against sliding**

Net vertical Force V= 6.1154 T

Restorin force = uV = 0.78 X 6.1154 (u=0.65 to 0.75)

4.7761274 T

Sliding force Net horizontal force= Fa+Fb

1.72 + 1.479 = 3.199 T

Factor of safety = $\frac{\text{Restoring force}}{\text{Sliding force}}$ = $\frac{4.776}{3.199}$ = 1.493 >1.3 Hence

Hence it is safe

IWMP WATERSHED PROJECT JAHAJPUR

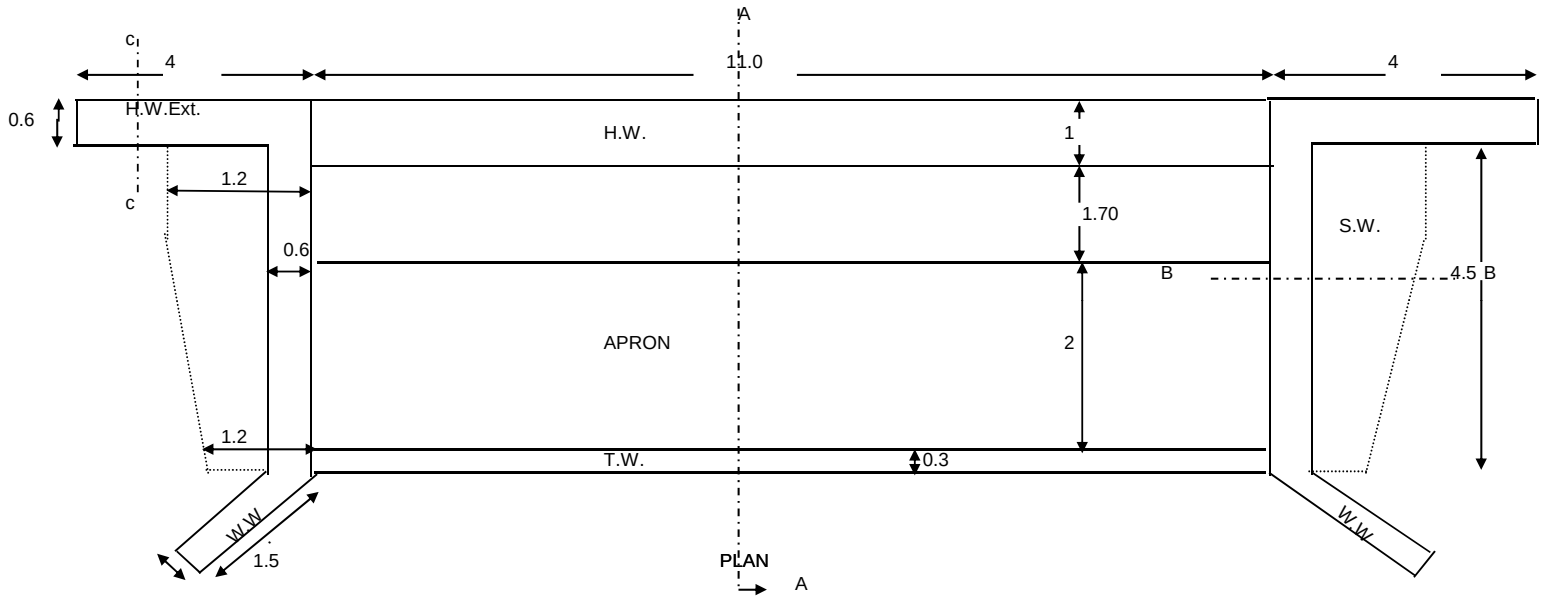
Village -

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India

PLAN AND SECTION OF ANICUT

Name of Village **:-** 0

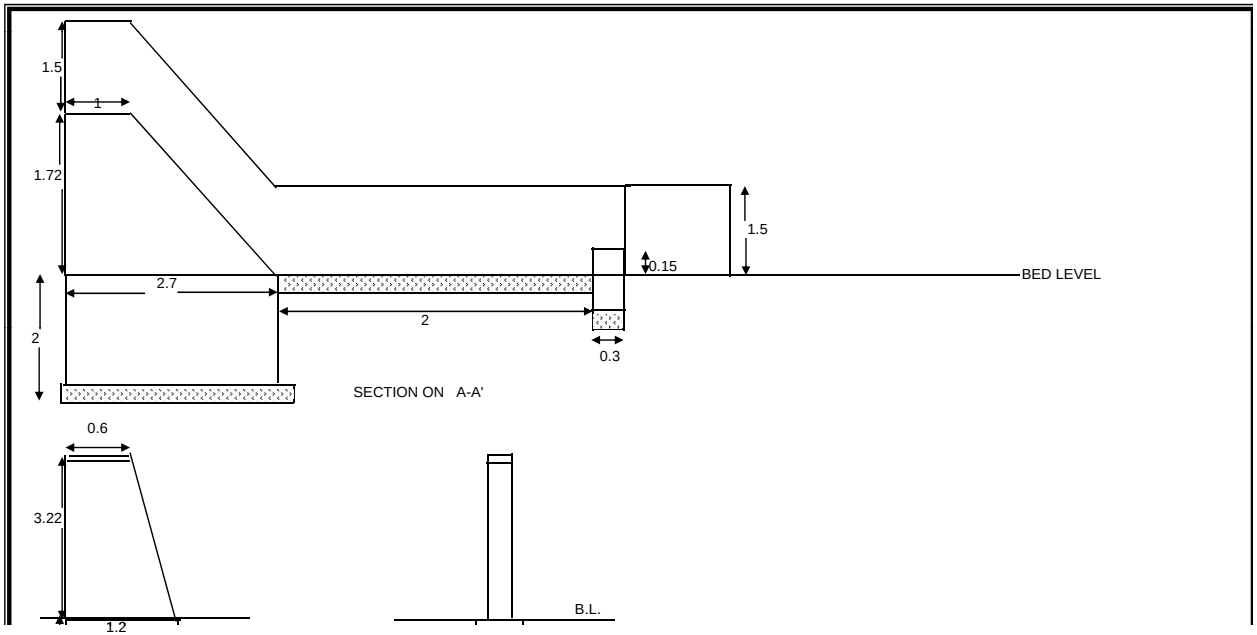
Name of Site **:-** 0



IWMP WATERSHED PROJECT JAHAJPUR

Village -

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India



B-B' SECTION OF S.W.

C-C' SECTION ON H.W.Ext.

IWMP WATERSHED PROJECT JAHAJPUR

Village -

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India

Name of Village	:-	0
Name of Site	:-	0

STABILITY CHECKS

1 **Safety against over turning**

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

$1.72\frac{1.72}{2} + 1.479\frac{1.72}{3} + 2.2\frac{2}{3}2.70$

Mo= 6.293

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

Mr=

Mr= 8.7032 + 3.811 + 2.200 = 14.7

Factor of safety $\frac{Mr}{Mo}$ $\frac{14.714}{6.293}$ = 2.338 >1.5 Hence

Structure is safe against over turning

2 **Safety against Rupture from tension**

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

3.956 + 3.3626 + 1 - 2.203 = 6.115

Position of resultant where it cut the base

X= $\frac{\text{Excess moment(Mr-Mo)}}{\text{Net vertical force}}$ = $\frac{14.71 - 6.293}{6.115}$ = 1.38

TRUE

3 **Safety against crusing**

Eccentricity e = b/2-X

-0.027

Crusting stress at the toe of theHead wall

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

Pc= 2.1288955

Pc<<20 Hence it is safe

4 **Safety against sliding**

Net vertical Force V= 6.1154 T

Restorin force = uV = 0.78 X 6.1154 (u=0.65 to 0.75)

4.7761274 T

Sliding force Net horizontal force= Fa+Fb

1.72 + 1.479 = 3.199 T

Factor of safety = $\frac{\text{Restoring force}}{\text{Sliding force}}$ = $\frac{4.776}{3.199}$ = 1.493 >1.3 Hence

Hence it is safe

IWMP WATERSHED PROJECT JAHAJPUR

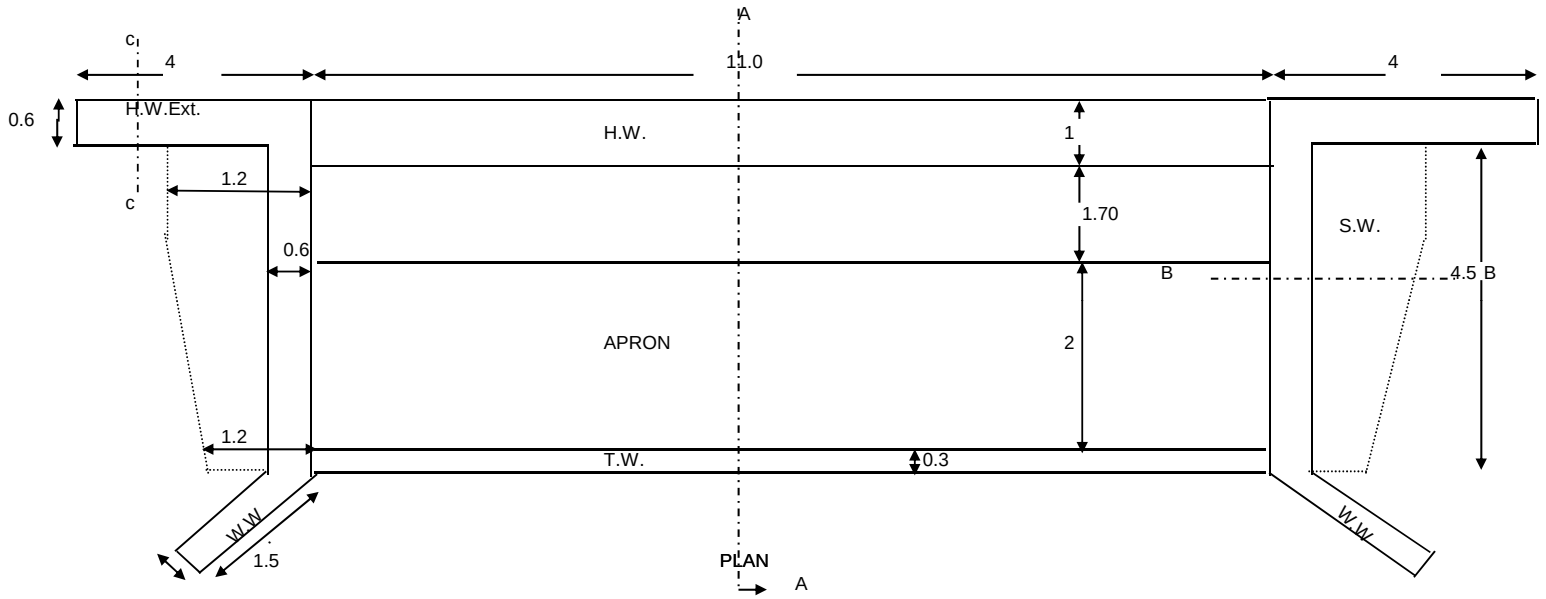
Village -

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India

PLAN AND SECTION OF ANICUT

Name of Village **:-** 0

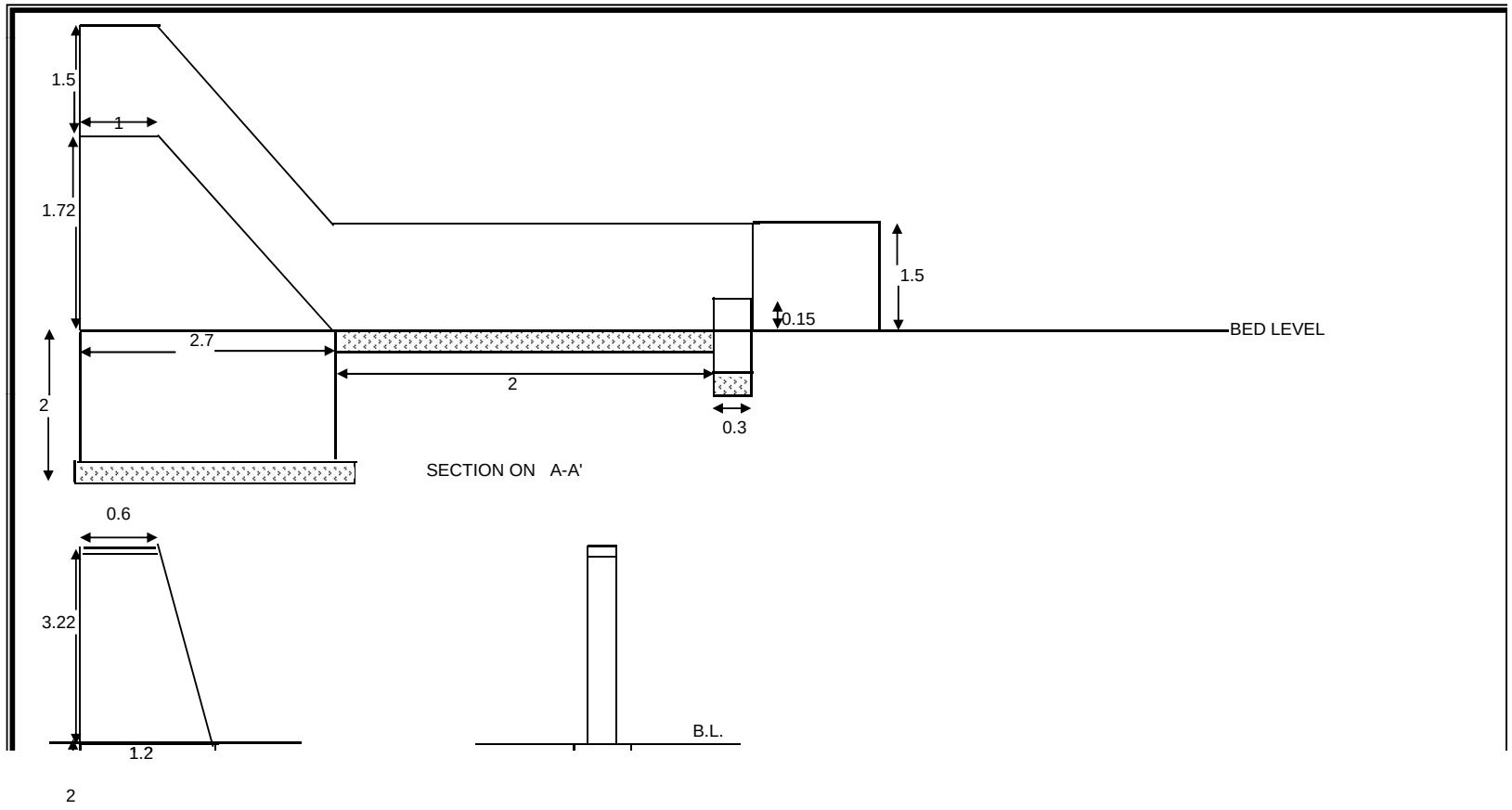
Name of Site **:-** 0



IWMP WATERSHED PROJECT JAHAJPUR

Village -

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India



IWMP WATERSHED PROJECT JAHAJPUR

Village -

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India

DETAILED ESTIMATE OF ANICUT

Name of Village :- 0

Name of Site :- 0

General features of anicut-:

Height of crest=	1.72 M.				
Length of Crest	11 M.				
Depth of foundation for H.W. =	2.0 M.	Length of wing wall=	1.5	M.	
Bottom width of H.W. =	2.7 M.	Height of Wing wall=	1.5	M.	
Top of H.W =	1.0 M.	Bottom width of Wing wall=	0.9	M.	
Length of H.W.Ext =	4.0 M.	Depth of foundation for Wing wall =	1.0	M.	
Height of H.W.Ext. at H.W. =	3.2 M.	Height of Toewall=	0.15	M.	
Top Width of H.W.Ext.=	0.6 M.	Top & Bottom width of Toe wall=	0.30	M.	
Bottom width for H.W.Ext.	1.4 M.	Depth of foundation for Toe wall =	0.9	M.	
Depth of foundation for H.W.Ext.=	1.5 M.	Thickness of Apron=	0.8	M.	
Length of side wall=	4.5 M.	Width of Apron =	2.0	M.	
Bottom Width of S.W.	1.20 M.				
Height of side wall at W.W.End=	1.5 M.				
Depth of foundation for side wall =	2.0 M.				

S.No.	Item		No		L		B		H		Quantity	
1	Dag belling 5cm. To 7.5cm deep(As per item no.156 page 15 of G.K.N.2012 BSR of Bhilwara circle									Total		
2	Cutting and clearing of ordinary jungle includling bushes shrubs and disposal as per instructrion of engineer incharge As per item no.95 page 10 of G.K.N.2012 BSR of Bhilwara circle				30	X	7.0			=	210	Sqm.
3	Benching of the base and depositing the excavated material for bund for bund canal dressing etc. all components As per item no.200B page 18 of G.K.N.2012 BSR of Bhilwara circle		1		30		2		0.3		18	
										Total	18	Cum.
4	Earth work excavation for bund in hard dry or moist soil including laying in layer of 15cm. Breaking of clods dressing to require profile with manual compaction including intial lift up to 1.5 m and lead up to 30M. As per item no.188 B page 17 of G.K.N.2012 BSR of		2		30		5		1.5		450	Cum.
5	Earth work excavation for foundation in dry or moist soil including ramming of bottom scrapping of sides dipodal of soil intial lift up to 1.5 m and lead up to 30M As per item no.2 page 1 of G.K.N.2012 BSR of Bhilwara circle									Total		
		Berm Cutting									0.00	Cum.
		H.W.	1	X	11	X	2.9	X	2.0	=	63.80	
		H.W.Ext	2	X	4.0	X	1.4	X	1.5	=	16.32	Cum.
		S.W.	2	X	4.5	X	1.20	X	2.0	=	21.60	Cum.
		W.W.	2	X	1.5	X	0.9	X	0.90	=	2.43	Cum.
		Apron	1	X	11	X	2.0	X	0.75	=	16.50	Cum.
		T.W.	1	X	11	X	0.30	X	0.9	=	2.97	Cum.
										Total	123.62	
1	Excavation in Hard soil (2 B)								40%		49.45	
2	Excavation in ordinary murram (189 C)								30%		37.09	
3	Excavation in Simple rock (2C)								30%		37.09	

contd..

	page 15 of G.K.N.2012 BSR of Bhilwara circle												
6	Providing and laying of cement concrete well mixed in cement mortar 1:4:8 laying in position complete excluding curing with maxmium size of aggregate up to 50 mm. As per item no.191 page 17 of G.K.N.2012 BSR of Bhilwara circle												
		H.W.	1	X	11.0	X	2.9	X	0.3	=	9.57	Cum.
		H.W.Ext	2	X	4	X	1.4	X	0.3	=	3.26	Cum.
		S.W.	2	X	4.5	X	1.20	X	0.3	=	3.24	Cum.
		W.W.	2	X	1.5	X	0.9	X	0.3	=	0.81	Cum.
		Apron	1	X	11.0	X	2.0	X	0.3	=	6.60	Cum.
		T.W.	1	X	11.0	X	0.30	X	0.3	=	0.99	Cum.
										Total	24.47	
7	Random rubble stone masonary for foundation & plinth cement sand mortar(1:6) for above 30 cm. Thick wall As per item no.190 A page 17 of G.K.N.2012 BSR of Bhilwara circle											
		H.W.	1	X	11.0	X	2.7	X	1.7	=	50.49	Cum.
		H.W.Ext	2	X	4.0	X	1.4	X	1.2	=	13.06	Cum.
		S.W.	2	X	4.5	X	1.20	X	1.7	=	18.36	Cum.
		W.W.	2	X	1.5	X	0.9	X	0.6	=	1.62	Cum.
		T.W.	1	X	11.0	X	0.15	X	0.6	=	0.99	Cum.
										Total	84.52	Cum.
8	Random rubble stone masonary for Super structure for wall above 30 cm. Thick in cement sand mortar(1:6) As per item no.190 A page 17 of G.K.N.2012 BSR of Bhilwara circle											
		H.W.	1	X	11.0	X	1.85	X	1.72	=	35.00	Cum.
		H.W.Ext	2	X	4.0	X	0.98	X	3.2	=	25.24	Cum.
		S.W.	2	X	4.5	X	0.9	X	2.36	=	19.12	Cum.
		W.W.	2	X	1.5	X	0.9	X	1.5	=	4.05	Cum.
		T.W.	1	X	11.0	X	0.30	X	0.15	=	0.50	Cum.
										Total	83.91	Cum.
9	Stone Kharanja in cement mortar 1:6 for bed and floor including cpaction etc. complete apron As per item no.190 A page 17 of G.K.N.2012 BSR of Bhilwara circle											
		Apron	1	X	11.0	X	2.0	X	0.45		9.90	Cum.
										Total	9.90	Cum.
10	Providing and laying of cement concrete well mixed in cement mortar 1:2:4 laying in position complete excluding curing with maxmium size of aggregate up to 20 mm. etc. complete As per item no.194 A page 17 of G.K.N.2012 BSR of Bhilwara circle											
		H.W.	1	X	11.0	X	1.0	X	0.05	=	0.55	Cum.
		H.W.Ext	2	X	4.0	X	0.6	X	0.05	=	0.24	Cum.
		S.W.	2	X	4.5	X	0.6	X	0.05	=	0.27	Cum.
		W.W.	2	X	1.5	X	0.9	X	0.05	=	0.14	Cum.
		T.W.	1	X	11.0	X	0.30	X	0.05	=	0.17	Cum.
										Total	1.36	Cum.
11	Flush pointing in cement motar (1:3) As per item no.74 A page 8 of G.K.N.2012 BSR of Bhilwara circle	H.W.	1	X	11.0	X	2.42			=	26.60	Sqm.
										Total	26.60	Sqm.
12	25 m.m thick plastering on new surface in cement mortar (1:4) As per item no.70 A page 8 of G.K.N.2012 BSR of Bhilwara circle											
		H.W.	1	X	11.0	X	5.42			=	59.62	
		H.W.Ext.	2	X	4.0	X	3.8			=	30.56	
		S.S	2	X	4.5	X	3.8			=	34.38	
		W.W.	2	X	1.5	X	2.1			=	6.30	
		T.W.	2	X	11.0	X	0.2			=	3.30	
									Total	=	134.16	
13	Dry stone pitching of Hammer dressed witch packing of voids of small stone including all lifts in require profile (23 cm depth) As per item no.198 page 18 of G.K.N.2012 BSR of Bhilwara circle		1		20		2				40.00	Sqm

Height of crest=				1.72	
Thickness of C.C. in (1:4:8)				0.3	M.
Length of Crest				11	M.
Depth of foundation for H.W. =				2.0	M
Bottom width of H.W. =				2.7	M
Top of H.W =				1.0	M
Length of H.W.Ext =				4.0	M
Height of H.W.Ext. at H.W. =				3.2	M
Top Width of H.W.Ext.=				0.6	M
Bottom width for H.W.Ext.				1.4	M
Depth of foundation for H.W.Ext.=				1.5	M
Length of side wall=				4.5	M
Bottom Width of S.W.				1.2	M
Height of side wall at W.W.End=				1.5	M
Depth of foundation for side wall =				2.0	M
Length of wing wall=				1.5	M
Height of Wing wall=				1.5	M
Bottom width of Wing wall=				0.9	M
Depth of foundation for Wing wall =				1.0	M
Height of Toewall=				0.15	M
Top & Bottom width of Toe wall=				0.3	M
Depth of foundation for Toe wall =				0.9	M
Thickness of Apron=				0.8	M
Width of Apron =				2.0	M

Height of Wing wall=			1.5	M

IWMP WATERSHED PROJECT JAHAJPUR

Village -

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India

Abstract of Cost of Anicut

Name of Village :- 0

Name of Site :- 0

S.No.	Item	Quatity	Unit	Rate		Amount	
				Labour	[LC+MC]Total		
1	Dag belling 5cm. To 7.5cm deep(As per item no.156 page 15 of G.K.N.2012 BSR of Bhilwara circle	0.00	Cum.	1.00	1.00	Labour cost 0.00	Total Cost 0
2	Cutting and clearing of ordinary jungle includling bushes shrubs and disposal as per instructrion of engineer incharge As per item no.95 page 10 of G.K.N.2012 BSR of Bhilwara circle	210	Sqm.	1.36	1.36	285.60	285.6
3	Benching of the base and depositing the excavated material for bund for bund canal dressing etc. all components As per item no.200B page 18 of G.K.N.2012 BSR of Bhilwara circle	18	Cum.	85.00	85.00	1530.00	1530
4	Earth work excavation for bund in hard dry or moist soil including laying in layer of 15cm. Breaking of clods dressing to require profile with manual compaction including intial lift up to 1.5 m and lead up to 30M. As per item no.188 B page 17 of G.K.N.2012 BSR of Bhilwara circle	450	Cum.	85.00	85.00	38250.00	38250
5	Earth work excavation for foundation in dry or moist soil including ramming of bottom scrapping of sides dipodal of soil intial lift up to 1.5 m and lead up to 30M As per item no.2 page 1 of G.K.N.2012 BSR of Bhilwara circle	123.62	Cum.				0
	Excavation in Hard soil (2 B)	49.45	Cum.	91.00	91.00	4499.77	4499.77
	Excavation in ordinary murram (189 C)	37.09	Cum.	99.00	99.00	3671.51	3671.51
	Excavation in Simple rock (2C)	37.09	Cum.	134.00	134.00	4969.52	4969.524
6	Providing and laying of cement concrete well mixed in cement mortar 1:4:8 laying in position complete excluding curing with maxmium size of aggregate up to 50 mm. As per item no.191 page 17 of G.K.N.2012 BSR of Bhilwara circle	24.47	Cum.	320	1664.00	7831.68	40724.736
7	Random rubble stone masonary for foundation & plinth cement sand mortar(1:6) for above 30 cm. Thick wall As per item no.190 A page 17 of G.K.N.2012 BSR of Bhilwara circle	84.52	Cum.	357	1268.00	30172.21	107166.29
8	Random rubble stone masonary for Super structure for wall above 30 cm. Thick in cement sand mortar(1:6) As per item no.190 A page 17 of G.K.N.2012 BSR of Bhilwara circle	83.91	Cum.	357	1268.00	29955.08	106395.09
9	Stone Kharanja in cement mortar 1:6 for bed and floor including cpaction etc. complete apron As per item no.190 A page 17 of G.K.N.2012 BSR of Bhilwara circle	9.90	Cum.	357	1268.00	3534.30	12553.2
10	Providing and laying of cement concrete well mixed in cement mortar 1:2:4 laying in position complete excluding curing with maxmium size of aggregate up to 20 mm. etc. complete As per item no.194 A page 17 of G.K.N.2012 BSR of Bhilwara circle	1.36	Cum.	316	2642.00	429.76	3593.12
11	Flush pointing in cement motar (1:3) As per item no.74 A page 8 of G.K.N.2012 BSR of Bhilwara circle	26.60	Sqm.	40.1	49.10	1066.73	1306.149

12	25 m.m thick plastering on new surface in cement mortar (1:4) As per item no.70 A page 8 of G.K.N.2012 BSR of Bhilwara circle	134.16	Sqm.	68.9	138.00	9243.62	18514.08
13	Dry stone pitching of Hammer dressed witch packing of voids of small stone including all lifts in require profile (23 cm depth) As per item no.198 page 18 of G.K.N.2012 BSR of Bhilwara circle	40.00	Sqm.	105.5	203.00	4220.00	8120
					Total	139659.799	351579.07
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk					32065.8899	32065.89
						171725.689	383644.96
					Say Rs	171726	383645
					Contingency	3%	11509
			TOTAL			171726	395154
			Total Cost rounded of				**396000**
			Labour cost			**140000**	
			Meterial cost			**256000**	

IWMP WATERSHED PROJECT JAHAJPUR

Village -

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India

Material Statement

Name of Village :- **0**

Name of Site :- **0**

S.No.	ITEM	Quantity Cum / Sqm	Cement Begs	Sand Cum	Aggrigate Cum	Stone Cum
1	Cement Concrete (1:4:8)	24.474	78.32	11.50	23.01	_
2	Plaster in C.C. (1:4)	134.160	22.81	4.29	_	_
3	Massonary in Cement mortar (1:6)	168.424	235.79	72.09	_	185.27
4	Pointing in Cement	26.602	1.10	0.11	_	_
5	Stone Kharanja in cement mortar (1:6)	9.900	13.86	3.7125	_	11.88
6	Cement concrete coping(1:2:4)	1.36	7.94	0.61	1.22	
7	Dry Stone Pitching	40.000	_	_	_	44.00
		TOTAL	359.82	92.32	24.23	241.15
		Say Bags	360			
		or	18.00	MT.		
	1	Cement	18	MT.		
	2	Sand	92.32	Cum.		
	3	Stones	241.15	Cum.		
	4	Aggregates	24.23	Cum.		

IWMP WATERSHED PROJECT JAHAJPUR

Village - Teekar

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India

Estimate of Anicut		
Name of Gram Panchayat	**:-**	**Teekar**
Panchayat Samity	**:-**	**Jahajpur**
Name of Site	**:-**	
Name of samiti	**:-**	**Teekar**
Type of Structure	**:-**	**R.R.Stone masonary structure**
GPS position		
Latitude	**:-**	
Longitude	**:-**	
Macro/Micro No.	**:-**	
Cost of Anicut	**:-**	**3.64 Lack**

Basic Data of Project				
		=		
1	Catch ment Area	=	450	Ha.
2	Maxmium Rain fall intencity	=	5	cm./hr.
3	General nature of catchment Area			
a.	Agricultural land	=	150	
b.	Pasture Land	=	300	Ha.
4	Height of crest above G.L.	=	1.5	M.
5	Flood lift	=	1	
6	Free board	=	0.5	
7	Top width of Head wall	=	1	
8	Bottom width of Head wall	=	2.70	
9	Width of concrete Bed	=	2.70	
10	Length of crest	=	10	M.
11	Percentage slope of land	=	0.03	
12	No. of well benifited	=	0	
13	Cost of Project	=	363600.00	
a.	Labour component	=	131000.00	
b.	Material component	=	232600.00	
c.	Contingency	=	10590	
Rates are as per BSR (GKN) 2012, Bhilwara				

…

Catch ment Area				450	Ha.
Maxmium Rain fall intencity				5	Cm/hr
General nature of catchment Area					
Agricultural land				150	
Pasture Land				300	
Height of crest above G.L.				1.5	
Length of crest				10	
Percentage slope of land				0.03	
No. of well benifited					
No of farmer benifited					
S.C.					
S.T.					
Others					
Total				0	
Area to be benifited					
S.C.				0	
S.T.				0	
Others				0	
Total				0	
Circle	Bhilwara				

IWMP WATERSHED PROJECT JAHAJPUR

Village - Teekar

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India

Name of Village	**:-**	Teekar					
Name of Site	**:-**	0					
Design calculation of anicut							
A.							
I	Available crest length			10	M		
ii	Total catchment Area			450	Ha.	As per G.T.Sheet	
iii	Peak Runoff Rate						
a	By Rational Method				Use when catchment is <1300Ha.		
	Q_p	=	0.0276 CIA		Q=Run off in m3/sec.		
					C= Coefficient of runoff		0.3
	K	=	$L^{3/2}/H^{1/2}$		I= Intensity of rain fall in cm/hr.		5
	K	=	13693.06		A= Catchment Area in Ha.		450
	Tc	=	$0.0195K^{0.77}$		L=Maxmium length of travel by runoff water in m.		1500
	Tc	=	29.86		H= Difference in elevation between most remote		18
					point and and outlet point in meter		
			$Q_{p=}$	0.0276	0.30 X 5 X 450		
	Q_p	=	18.63				
b	**By weir formula**						
	Q	=	$1.71Lh^{3/2}$				
	18.63	=	1.71	10	$h^{3/2}$		
	h		1.06				
	Say	h=	1				
3	**Free Board**				hw= Wave height in meter		
	F_b=	$1.5h_w$			Df= Fetch length in meter	450	Meter.
		$1.5X0.014(D_f)^{1/2}$					
	F_b=	0.45					
	Say	Fb=	0.5				
B.	**STRUCTURAL DESGIN**						
1	Head wall						
a	Height of Head wall H=			1.5			
b	Top width(Tw) =			h	P= Sp.ht. Of masonary		2.3
				$(P-1)^{1/2}$			
			Tw=	0.88			
	Top width=		1				
C.	Bottom width Bw			Tw+0.8H			
			Bw=	2.20			
	So Bottom Width=			2.70	Meter		
2	Head wall extension						
a	Length= H+h+1+Fb						
	1.5	+	1	+	1	+	= 3.50 Meter
		But as per site condition			=	4	
b	Height of Head Extensionwall =				H+h+Fb		
				1.5	+ 1 + 0.5	=	3.0 Meter
c	Top width						0.6 Meter
d	Bottom Width= 0.5(H+h)			=	0.5(1.5 + 1.0)=		1.25 Meter

contd..

3	Side wall											
a	Length=	1.75H+0.75h+0.45						=			3.8	
		But as per site condition=									4.5	Meter
b	Height:											
	At H.W.End=	H+h+Fb		1.5				+	1	+	0.5	= 3.0 Meter
	At W.W.End=	h+fb		=				1	+	0.5	=	1.5 Meter
c	Top width=											0.6 Meter
d	Bottom width=											
	At H.W.End=	0.6+0.4(H+h)										1.6 Meter
	At W.W.End=	0.6+0.4(1.5h)										1.2 Meter
			But taken as=									1.2 Meter
4	Wing wall											
a	Height	h+Fb	1	+				0.5	=			1.5 Meter
b	Length=	2.25h		2.25				X	1		=	2.25 Meter Say 1.5
c	Top width											0.6 Meter
	Bottom width of wing wall											0.6 Meter
5	Apron											
a	Length=											10 Meter
b	Width=	H+h+Fb		1.5				+	1	+	0.5	3.0 Meter Say 2
c	Thickness											0.8 Meter
6	Toe wall											
a	Length=											10 Meter
b	Width=											0.3 Meter
c	Height=											0.2 Meter

C= Coefficient of runoff		0.3
I= Intensity of rain fall in cm/hr.		5
A= Catchment Area in Ha.		450
L=Maxmium length of travel by runoff water in m.		1500
H= Difference in elevation between most remote point and and outlet point in meter		18
h= Head over the crest in mtr.	1.06	1
Df= Fetch length in meter		450
Fb =Free board	0.45	0.5
Top width Tw=	0.88	1
Height of cerst		1.5
Bottom Width of Head wall Bw	2.2	2.7
Lenth of Head wall extension=	3.50	4
Length of side wall=	3.83	4.5
Bottom Width of Side wall	1.6	1.2
	1.2	
Length of wing wall	2.25	1.5

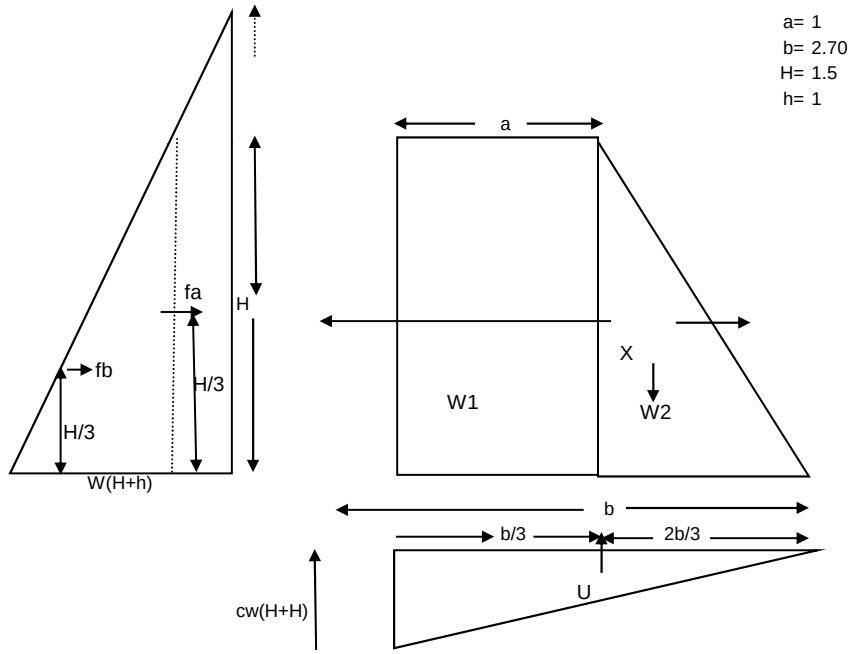
IWMP WATERSHED PROJECT JAHAJPUR

Village - Teekar

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India

Name of Village	**:-**	Teekar
Name of Site	**:-**	0

FREE BODY DIAGRAM



Specific Wt. Of masonary P			=		2.3	T/m^3		
Specific Wt. of water w			=		1	T/m^3		
Cofficient of uplift pressure c			=		0.6			
cofficient of friction atbed surface and creep length			=		0.75			
Weight of Dam-:			=					
Weight of Dam-:								
	W_1=	aHP						
	W_1=	T		3.45	T			
	W_2=	$\frac{b-a}{2}$ HP=		2.9325	T			
	W=	W_1+W_2=	3.45	+	2.9325	=	6.3825	T
Water pressure								
At Depth h= P_1 = wh =			1	X	1	=	1	T/m^2
At Depth H+h= P2 = w(H+h) =								
	1(	1.50	+	1	)	=	2.5	T/m^2
Force aching due to water pressure I.e. Net horizontal								
Water force	P=	$\frac{P1+P2}{2}$ H=				=	2.625	T/m^2
Horizontal water pressure at depth h =Fa=				wHh=		=	1.5	T
	At depth H+h = Fb=			$\frac{P2-P1}{2}$ H		=	1.125	T
Force due to water column at crest F3				whe			1	T

IWMP WATERSHED PROJECT JAHAJPUR

Village -Teekar

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India

Name of Village	:-	Teekar
Name of Site	:-	0

STABILITY CHECKS

1 **Safety against over turning**

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

$1.50\frac{1.5}{2} + 1.125\frac{1.5}{3} + 2.03\frac{2}{3}2.70$

Mo= 5.3325

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

Mr=

Mr= 7.59 + 3.324 + 2.200 = 13.1

Factor of safety $\frac{Mr}{Mo}$ $\frac{13.114}{5.3325}$ = 2.459 >1.5 Hence

Structure is safe against over turning

2 **Safety against Rupture from tension**

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

3.45 + 2.9325 + 1 - 2.025 = 5.358

Position of resultant where it cut the base

X= $\frac{\text{Excess moment(Mr-Mo)}}{\text{Net vertical force}}$ = $\frac{13.11 - 5.333}{5.358}$ = 1.45

TRUE

3 **Safety against crusing**

Eccentricity e = b/2-X

-0.102

Crusting stress at the toe of theHead wall

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

Pc= 1.5329218

Pc<<20 Hence it is safe

4 **Safety against sliding**

Net vertical Force V= 5.3575 T

Restorin force = uV = 0.78 X 5.3575 (u=0.65 to 0.75)

4.1842075 T

Sliding force Net horizontal force= Fa+Fb

1.5 + 1.125 = 2.625 T

Factor of safety = $\frac{\text{Restoring force}}{\text{Sliding force}}$ = $\frac{4.184}{2.625}$ = 1.594 >1.3 Hence

Hence it is safe

IWMP WATERSHED PROJECT JAHAJPUR

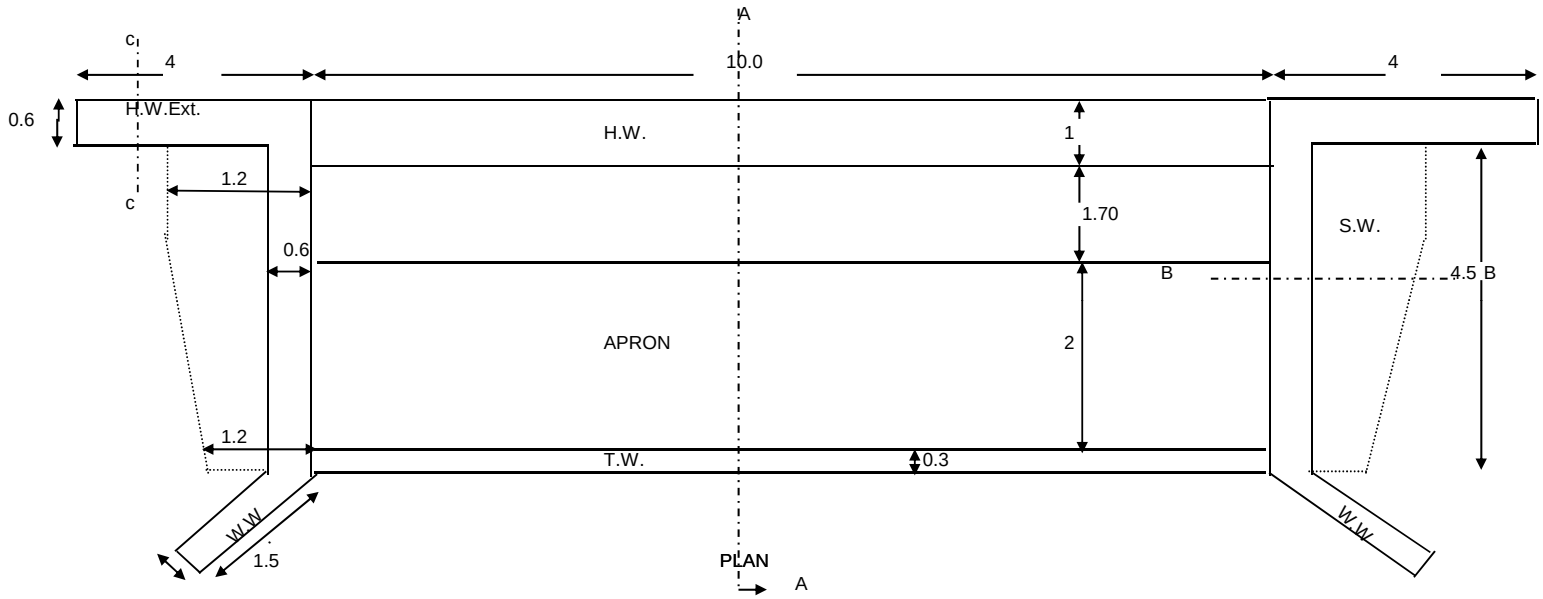
Village - Teekar

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India

PLAN AND SECTION OF ANICUT

Name of Village **:-** Teekar

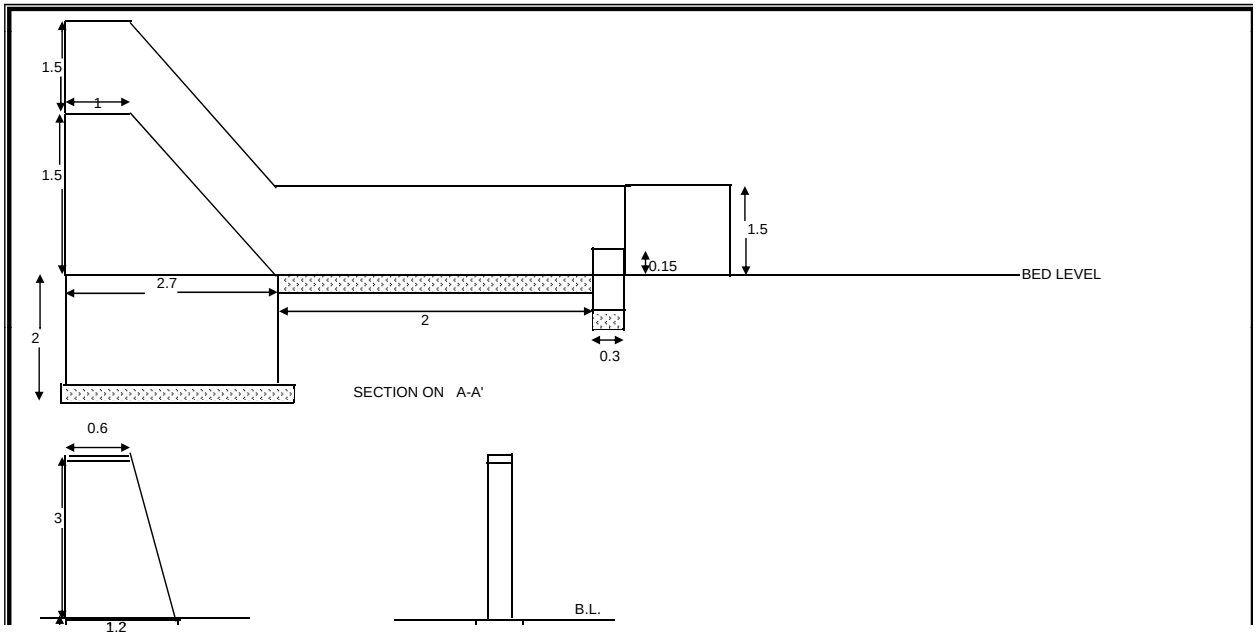
Name of Site **:-** 0



IWMP WATERSHED PROJECT JAHAJPUR

Village - Teekar

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India



IWMP WATERSHED PROJECT JAHAJPUR

Village - Teekar

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India

DETAILED ESTIMATE OF ANICUT

Name of Village :- Teekar

Name of Site :- 0

General features of anicut-:

Height of crest=	1.5	M.			
Length of Crest	10	M.			
Depth of foundation for H.W. =	2.0	M.	Length of wing wall=	1.5	M.
Bottom width of H.W. =	2.7	M.	Height of Wing wall=	1.5	M.
Top of H.W =	1.0	M.	Bottom width of Wing wall=	0.9	M.
Length of H.W.Ext =	4.0	M.	Depth of foundation for Wing wall =	1.0	M.
Height of H.W.Ext. at H.W. =	3.0	M.	Height of Toewall=	0.15	M.
Top Width of H.W.Ext.=	0.6	M.	Top & Bottom width of Toe wall=	0.30	M.
Bottom width for H.W.Ext.	1.3	M.	Depth of foundation for Toe wall =	0.9	M.
Depth of foundation for H.W.Ext.=	1.5	M.	Thickness of Apron=	0.8	M.
Length of side wall=	4.5	M.	Width of Apron =	2.0	M.
Bottom Width of S.W.	1.20	M.			
Height of side wall at W.W.End=	1.5	M.			
Depth of foundation for side wall =	2.0	M.			

S.No.	Item		No		L		B		H		Quantity	
1	Dag belling 5cm. To 7.5cm deep(As per item no.156 page 15 of G.K.N.2012 BSR of Bhilwara circle									Total		
2	Cutting and clearing of ordinary jungle includling bushes shrubs and disposal as per instructrion of engineer incharge As per item no.95 page 10 of G.K.N.2012 BSR of Bhilwara circle				30	X	7.0			=	210	Sqm.
3	Benching of the base and depositing the excavated material for bund for bund canal dressing etc. all components As per item no.200B page 18 of G.K.N.2012 BSR of Bhilwara circle		1		30		2		0.3	Total	18 18	Cum.
4	Earth work excavation for bund in hard dry or moist soil including laying in layer of 15cm. Breaking of clods dressing to require profile with manual compaction including intial lift up to 1.5 m and lead up to 30M. As per item no.188 B page 17 of G.K.N.2012 BSR of		2		30		5		1.5		450	Cum.
5	Earth work excavation for foundation in dry or moist soil including ramming of bottom scrapping of sides dipodal of soil intial lift up to 1.5 m and lead up to 30M As per item no.2 page 1 of G.K.N.2012 BSR of Bhilwara circle									Total		
		Berm Cutting									0.00	Cum.
		H.W.	1	X	10	X	2.9	X	2.0	=	58.00	
		H.W.Ext	2	X	4.0	X	1.3	X	1.5	=	15.00	Cum.
		S.W.	2	X	4.5	X	1.20	X	2.0	=	21.60	Cum.
		W.W.	2	X	1.5	X	0.9	X	0.90	=	2.43	Cum.
		Apron	1	X	10	X	2.0	X	0.75	=	15.00	Cum.
		T.W.	1	X	10	X	0.30	X	0.9	=	2.70	Cum.
										Total	114.73	
1	Excavation in Hard soil (2 B)								40%		45.89	
2	Excavation in ordinary murram (189 C)								30%		34.42	
3	Excavation in Simple rock (2C)								30%		34.42	

contd..

	page 15 of G.K.N.2012 BSR of Bhilwara circle												
6	Providing and laying of cement concrete well mixed in cement mortar 1:4:8 laying in position complete excluding curing with maxmium size of aggregate up to 50 mm. As per item no.191 page 17 of G.K.N.2012 BSR of Bhilwara circle												
		H.W.	1	X	10.0	X	2.9	X	0.3	=	8.70	Cum.
		H.W.Ext	2	X	4	X	1.3	X	0.3	=	3.00	Cum.
		S.W.	2	X	4.5	X	1.20	X	0.3	=	3.24	Cum.
		W.W.	2	X	1.5	X	0.9	X	0.3	=	0.81	Cum.
		Apron	1	X	10.0	X	2.0	X	0.3	=	6.00	Cum.
		T.W.	1	X	10.0	X	0.30	X	0.3	=	0.90	Cum.
										Total	22.65	
7	Random rubble stone masonary for foundation & plinth cement sand mortar(1:6) for above 30 cm. Thick wall As per item no.190 A page 17 of G.K.N.2012 BSR of Bhilwara circle											
		H.W.	1	X	10.0	X	2.7	X	1.7	=	45.90	Cum.
		H.W.Ext	2	X	4.0	X	1.3	X	1.2	=	12.00	Cum.
		S.W.	2	X	4.5	X	1.20	X	1.7	=	18.36	Cum.
		W.W.	2	X	1.5	X	0.9	X	0.6	=	1.62	Cum.
		T.W.	1	X	10.0	X	0.15	X	0.6	=	0.90	Cum.
										Total	78.78	Cum.
8	Random rubble stone masonary for Super structure for wall above 30 cm. Thick in cement sand mortar(1:6) As per item no.190 A page 17 of G.K.N.2012 BSR of Bhilwara circle											
		H.W.	1	X	10.0	X	1.85	X	1.5	=	27.75	Cum.
		H.W.Ext	2	X	4.0	X	0.93	X	3.0	=	22.20	Cum.
		S.W.	2	X	4.5	X	0.9	X	2.25	=	18.23	Cum.
		W.W.	2	X	1.5	X	0.9	X	1.5	=	4.05	Cum.
		T.W.	1	X	10.0	X	0.30	X	0.15	=	0.45	Cum.
										Total	72.68	Cum.
9	Stone Kharanja in cement mortar 1:6 for bed and floor including cpaction etc. complete apron As per item no.190 A page 17 of G.K.N.2012 BSR of Bhilwara circle											
		Apron	1	X	10.0	X	2.0	X	0.45		9.00	Cum.
										Total	9.00	Cum.
10	Providing and laying of cement concrete well mixed in cement mortar 1:2:4 laying in position complete excluding curing with maxmium size of aggregate up to 20 mm. etc. complete As per item no.194 A page 17 of G.K.N.2012 BSR of Bhilwara circle											
		H.W.	1	X	10.0	X	1.0	X	0.05	=	0.50	Cum.
		H.W.Ext	2	X	4.0	X	0.6	X	0.05	=	0.24	Cum.
		S.W.	2	X	4.5	X	0.6	X	0.05	=	0.27	Cum.
		W.W.	2	X	1.5	X	0.9	X	0.05	=	0.14	Cum.
		T.W.	1	X	10.0	X	0.30	X	0.05	=	0.15	Cum.
										Total	1.30	Cum.
11	Flush pointing in cement motar (1:3) As per item no.74 A page 8 of G.K.N.2012 BSR of Bhilwara circle	H.W.	1	X	10.0	X	2.27			=	22.67	Sqm.
										Total	22.67	Sqm.
12	25 m.m thick plastering on new surface in cement mortar (1:4) As per item no.70 A page 8 of G.K.N.2012 BSR of Bhilwara circle											
		H.W.	1	X	10.0	X	5.2			=	52.00	
		H.W.Ext.	2	X	4.0	X	3.6			=	28.80	
		S.S	2	X	4.5	X	3.6			=	32.40	
		W.W.	2	X	1.5	X	2.1			=	6.30	
		T.W.	2	X	10.0	X	0.2			=	3.00	
									Total	=	122.50	
13	Dry stone pitching of Hammer dressed witch packing of voids of small stone including all lifts in require profile (23 cm depth) As per item no.198 page 18 of G.K.N.2012 BSR of Bhilwara circle		1		20		2				40.00	Sqm

Height of crest=				1.5	
Thickness of C.C. in (1:4:8)				0.3	M.
Length of Crest				10	M.
Depth of foundation for H.W. =				2.0	M
Bottom width of H.W. =				2.7	M
Top of H.W =				1.0	M
Length of H.W.Ext =				4.0	M
Height of H.W.Ext. at H.W. =				3.0	M
Top Width of H.W.Ext.=				0.6	M
Bottom width for H.W.Ext.				1.3	M
Depth of foundation for H.W.Ext.=				1.5	M
Length of side wall=				4.5	M
Bottom Width of S.W.				1.2	M
Height of side wall at W.W.End=				1.5	M
Depth of foundation for side wall =				2.0	M
Length of wing wall=				1.5	M
Height of Wing wall=				1.5	M
Bottom width of Wing wall=				0.9	M
Depth of foundation for Wing wall =				1.0	M
Height of Toewall=				0.15	M
Top & Bottom width of Toe wall=				0.3	M
Depth of foundation for Toe wall =				0.9	M
Thickness of Apron=				0.8	M
Width of Apron =				2.0	M

Height of Wing wall=			1.5	M

IWMP WATERSHED PROJECT JAHAJPUR

Village - Teekar

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India

Abstract of Cost of Anicut

Name of Village :- Teekar

Name of Site :- 0

S.No.	Item	Quatity	Unit	Rate		Amount	
				Labour	[LC+MC]Total		
1	Dag belling 5cm. To 7.5cm deep(As per item no.156 page 15 of G.K.N.2012 BSR of Bhilwara circle					Labour cost	Total Cost
		0.00	Cum.	1.00	1.00	0.00	0
2	Cutting and clearing of ordinary jungle includling bushes shrubs and disposal as per instructrion of engineer incharge As per item no.95 page 10 of G.K.N.2012 BSR of Bhilwara circle	210	Sqm.	1.36	1.36	285.60	285.6
3	Benching of the base and depositing the excavated material for bund for bund canal dressing etc. all components As per item no.200B page 18 of G.K.N.2012 BSR of Bhilwara circle	18	Cum.	85.00	85.00	1530.00	1530
4	Earth work excavation for bund in hard dry or moist soil including laying in layer of 15cm. Breaking of clods dressing to require profile with manual compaction including intial lift up to 1.5 m and lead up to 30M. As per item no.188 B page 17 of G.K.N.2012 BSR of Bhilwara circle	450	Cum.	85.00	85.00	38250.00	38250
5	Earth work excavation for foundation in dry or moist soil including ramming of bottom scrapping of sides dipodal of soil intial lift up to 1.5 m and lead up to 30M As per item no.2 page 1 of G.K.N.2012 BSR of Bhilwara circle	114.73	Cum.				0
	Excavation in Hard soil (2 B)	45.89	Cum.	91.00	91.00	4176.17	4176.17
	Excavation in ordinary murram (189 C)	34.42	Cum.	99.00	99.00	3407.48	3407.48
	Excavation in Simple rock (2C)	34.42	Cum.	134.00	134.00	4612.15	4612.146
6	Providing and laying of cement concrete well mixed in cement mortar 1:4:8 laying in position complete excluding curing with maxmium size of aggregate up to 50 mm. As per item no.191 page 17 of G.K.N.2012 BSR of Bhilwara circle	22.65	Cum.	320	1664.00	7248.00	37689.6
7	Random rubble stone masonary for foundation & plinth cement sand mortar(1:6) for above 30 cm. Thick wall As per item no.190 A page 17 of G.K.N.2012 BSR of Bhilwara circle	78.78	Cum.	357	1268.00	28124.46	99893.04
8	Random rubble stone masonary for Super structure for wall above 30 cm. Thick in cement sand mortar(1:6) As per item no.190 A page 17 of G.K.N.2012 BSR of Bhilwara circle	72.68	Cum.	357	1268.00	25944.98	92151.9
9	Stone Kharanja in cement mortar 1:6 for bed and floor including cpaction etc. complete apron As per item no.190 A page 17 of G.K.N.2012 BSR of Bhilwara circle	9.00	Cum.	357	1268.00	3213.00	11412
10	Providing and laying of cement concrete well mixed in cement mortar 1:2:4 laying in position complete excluding curing with maxmium size of aggregate up to 20 mm. etc. complete As per item no.194 A page 17 of G.K.N.2012 BSR of Bhilwara circle	1.30	Cum.	316	2642.00	409.22	3421.39
11	Flush pointing in cement motar (1:3) As per item no.74 A page 8 of G.K.N.2012 BSR of Bhilwara circle	22.67	Sqm.	40.1	49.10	909.13	1113.173994
12	25 m.m thick plastering on new surface in cement mortar (1:4) As per item no.70 A page 8 of G.K.N.2012 BSR of						

	(1.4) As per item no.70 A page 8 of G.K.N.2012 BSR of Bhilwara circle	122.50	Sqm.	68.9	138.00	8440.25	16905
13	Dry stone pitching of Hammer dressed witch packing of voids of small stone including all lifts in require profile (23 cm depth) As per item no.198 page 18 of G.K.N.2012 BSR of Bhilwara circle	40.00	Sqm.	105.5	203.00	4220.00	8120
					Total	130770.4339	322967.503
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk					30024.89162	30024.89162
						160795.3255	352992.3946
					Say Rs	160795	352992
					Contingency	3%	10590
					TOTAL	160795	363582
					Total Cost rounded of		**363600**
					Labour cost	**131000**	
					Meterial cost	**232600**	

IWMP WATERSHED PROJECT JAHAJPUR

Village - Teekar

Tehsil - Jahajpur, District - Bhilwara, State: Rajasthan, India

Material Statement

Name of Village	**:-**	**Teekar**
Name of Site	**:-**	**0**

S.No.	ITEM	Quantity Cum / Sqm	Cement Begs	Sand Cum	Aggrigate Cum	Stone Cum
1	Cement Concrete (1:4:8)	22.650	72.48	10.65	21.29	_
2	Plaster in C.C. (1:4)	122.500	20.83	3.92	_	_
3	Massonary in Cement mortar (1:6)	151.455	212.04	64.82	_	166.60
4	Pointing in Cement	22.672	0.93	0.10	_	_
5	Stone Kharanja in cement mortar (1:6)	9.000	12.6	3.375	_	10.8
6	Cement concrete coping(1:2:4)	1.30	7.56	0.58	1.17	
7	Dry Stone Pitching	40.000	_	_	_	44.00
		TOTAL	326.44	83.44	22.46	221.40
		Say Bags	327			
		or	16.35	MT.		
	1	Cement	16.35	MT.		
	2	Sand	83.44	Cum.		
	3	Stones	221.40	Cum.		
	4	Aggregates	22.46	Cum.		

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 30 AT Ch- m**
3 **Name of Village:-** **Teekar**

1	Available crest length	6.00 M	
2	Hight of structure	0.80 M	38500
3	Top Width	0.3 M	
4	Bottom Width	1.24 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

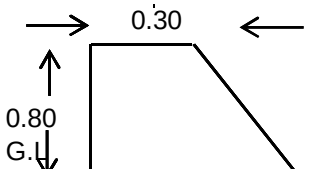
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	6.00	1.24	1.20	8.93				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	6.00	1.50	0.60	5.40				
					Total	(cu.m)	17.21				
	Total Excavation				Total		17.21	91.00	1565.93	91.00	1565.93
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	6.00	1.24	0.30	2.23				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	6.00	1.50	0.20	1.80				
					Total		4.75	1664	7907.33	320.00	1520.64
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	6.00	1.24	0.90	6.70				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	6.00	1.50	0.30	2.70				
					Total		11.56	1183	13670.75	357.00	4125.49
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	6.00	0.77	0.80	3.70				
	H.W.E		2	2.00	0.60	0.80	1.92				
					Total		5.62	1268	7121.09	357.00	2004.91

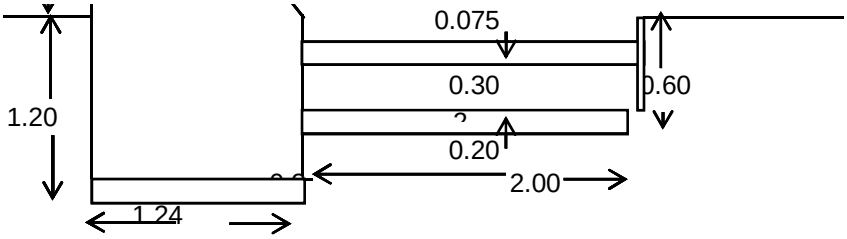
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	6.00	0.80		9.60				
	H.W.		1	6.00	0.80		4.80				
	H.W.E		4	2.00	0.80		6.40				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		23.38	138	3226.44	68.90	1610.88
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	6.00	0.30	0.075	0.14				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	2.00	1.24	0.075	0.19				
					Total		0.50	2642	1323.64	316.00	158.32
	GRAND TOTAL								**34815.17**		**10986.17**
	Je HkkX e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2522.42**		**2522.42**
									37337.60		**13508.59**
						Says Rs.					**13509**
	METARIAL								**23829.00**		
	LABOUR								**13508.59**		
				TOTAL					**37337.60**		
	GRAND TOTAL								**37338**		
	Add 3% Contingency Charges								**1120**		
				TOTAL Rs.					**38458**		
				Say					**38500**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		4.75	15.21	2.14	4.28					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		11.56	12.4	3.47			12.7			
3	Cement plaster (1:4) 25 mm thick		23.38	5.24	0.75						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		5.62	7.86	1.68			6.18			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.50	3.21	0.23	0.45					
7	Dry stone pitching										
			TOTAL	**43.9**	**8.26**	**4.73**		**18.9**			

SAY **44 BAGS** **2.19 MT**




0.075
0.30
0.60
1.20
0.20
2.00
1.24

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 29 AT Ch- m**
3 **Name of Village:-** **Teekar**

1	Available crest length	7.00 M	
2	Hight of structure	0.80 M	43600
3	Top Width	0.3 M	
4	Bottom Width	1.24 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

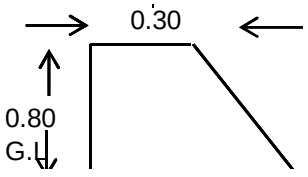
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	7.00	1.24	1.20	10.42				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	7.00	1.50	0.60	6.30				
					Total	(cu.m)	19.60				
	Total Excavation				Total		19.60	91.00	1783.24	91.00	1783.24
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	7.00	1.24	0.30	2.60				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	7.00	1.50	0.20	2.10				
					Total		5.42	1664	9025.54	320.00	1735.68
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	7.00	1.24	0.90	7.81				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	7.00	1.50	0.30	3.15				
					Total		13.12	1183	15523.33	357.00	4684.55
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	7.00	0.77	0.80	4.31				
	H.W.E		2	2.00	0.60	0.80	1.92				
					Total		6.23	1268	7902.18	357.00	2224.82

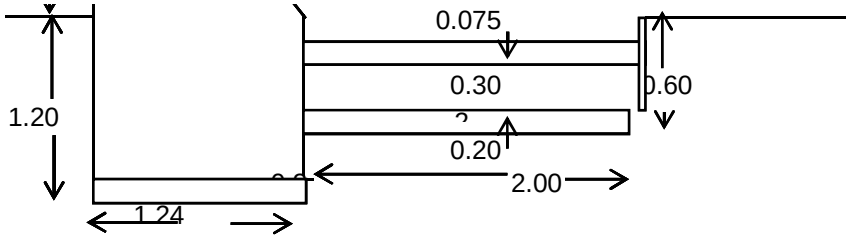
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	7.00	0.80		11.20				
	H.W.		1	7.00	0.80		5.60				
	H.W.E		4	2.00	0.80		6.40				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		25.78	138	3557.64	68.90	1776.24
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	7.00	0.30	0.075	0.16				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	3.00	1.24	0.075	0.28				
					Total		0.62	2642	1628.79	316.00	194.81
	GRAND TOTAL								**39420.71**		**12399.35**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2846.89**		**2846.89**
									42267.60		**15246.24**
						Says Rs.					**15246**
	METARIAL								**27021.36**		
	LABOUR								**15246.24**		
				TOTAL					**42267.60**		
	GRAND TOTAL								**42268**		
	Add 3% Contingency Charges								**1268**		
				TOTAL Rs.					**43536**		
				Say					**43600**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		5.42	17.36	2.44	4.88					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		13.12	14.0	3.94			14.4			
3	Cement plaster (1:4) 25 mm thick		25.78	5.77	0.82						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		6.23	8.72	1.87			6.86			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.62	3.95	0.28	0.55					
7	Dry stone pitching										
			TOTAL	**49.8**	**9.35**	**5.44**		**21.3**			

SAY **50 BAGS** **2.49 MT**




0.075
0.30
0.60
1.20
0.20
2.00
1.24

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 28 AT Ch- m**
3 **Name of Village:-** **Teekar**

1	Available crest length	6.00 M	
2	Hight of structure	0.80 M	38500
3	Top Width	0.3 M	
4	Bottom Width	1.24 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

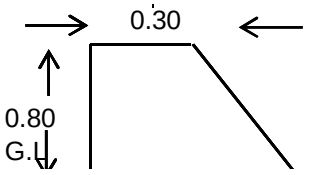
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	6.00	1.24	1.20	8.93				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	6.00	1.50	0.60	5.40				
					Total	(cu.m)	17.21				
	Total Excavation				Total		17.21	91.00	1565.93	91.00	1565.93
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	6.00	1.24	0.30	2.23				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	6.00	1.50	0.20	1.80				
					Total		4.75	1664	7907.33	320.00	1520.64
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	6.00	1.24	0.90	6.70				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	6.00	1.50	0.30	2.70				
					Total		11.56	1183	13670.75	357.00	4125.49
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	6.00	0.77	0.80	3.70				
	H.W.E		2	2.00	0.60	0.80	1.92				
					Total		5.62	1268	7121.09	357.00	2004.91

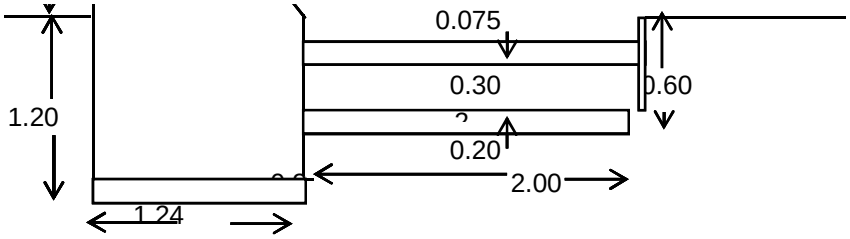
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	6.00	0.80		9.60				
	H.W.		1	6.00	0.80		4.80				
	H.W.E		4	2.00	0.80		6.40				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		23.38	138	3226.44	68.90	1610.88
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	6.00	0.30	0.075	0.14				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	2.00	1.24	0.075	0.19				
					Total		0.50	2642	1323.64	316.00	158.32
	GRAND TOTAL								**34815.17**		**10986.17**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2522.42**		**2522.42**
									37337.60		**13508.59**
						Says Rs.					**13509**
	METARIAL								**23829.00**		
	LABOUR								**13508.59**		
				TOTAL					**37337.60**		
	GRAND TOTAL								**37338**		
	Add 3% Contingency Charges								**1120**		
				TOTAL Rs.					**38458**		
				Say					**38500**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		4.75	15.21	2.14	4.28					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		11.56	12.4	3.47			12.7			
3	Cement plaster (1:4) 25 mm thick		23.38	5.24	0.75						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		5.62	7.86	1.68			6.18			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.50	3.21	0.23	0.45					
7	Dry stone pitching										
			TOTAL	**43.9**	**8.26**	**4.73**		**18.9**			

SAY **44 BAGS** **2.19 MT**




0.075
0.30
0.60
1.20
0.20
2.00
1.24

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 27 AT Ch- m**
3 **Name of Village:-** **Teekar**

1	Available crest length	6.00 M	
2	Hight of structure	0.70 M	36100
3	Top Width	0.3 M	
4	Bottom Width	1.16 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

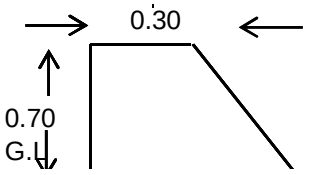
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	6.00	1.16	1.20	8.35				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	6.00	1.50	0.60	5.40				
					Total	(cu.m)	16.63				
	Total Excavation				Total		16.63	91.00	1513.51	91.00	1513.51
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	6.00	1.16	0.30	2.09				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	6.00	1.50	0.20	1.80				
					Total		4.61	1664	7667.71	320.00	1474.56
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	6.00	1.16	0.90	6.26				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	6.00	1.50	0.30	2.70				
					Total		11.12	1183	13159.69	357.00	3971.27
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	6.00	0.73	0.70	3.07				
	H.W.E		2	2.00	0.60	0.70	1.68				
					Total		4.75	1268	6017.93	357.00	1694.32

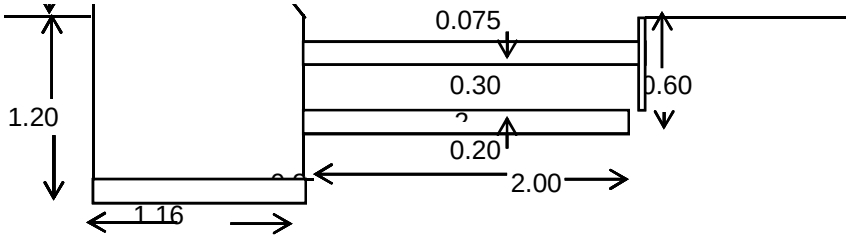
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	6.00	0.70		8.40				
	H.W.		1	6.00	0.80		4.80				
	H.W.E		4	2.00	0.70		5.60				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		21.38	138	2950.44	68.90	1473.08
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	6.00	0.30	0.075	0.14				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	2.00	1.16	0.075	0.17				
					Total		0.49	2642	1291.94	316.00	154.52
	GRAND TOTAL								**32601.22**		**10281.27**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2360.58**		**2360.58**
									34961.80		**12641.85**
						Says Rs.					**12642**
	METARIAL								**22319.95**		
	LABOUR								**12641.85**		
				TOTAL					**34961.80**		
	GRAND TOTAL								**34962**		
	Add 3% Contingency Charges								**1049**		
				TOTAL Rs.					**36011**		
				Say					**36100**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		4.61	14.75	2.07	4.15					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		11.12	11.9	3.34			12.2			
3	Cement plaster (1:4) 25 mm thick		21.38	4.79	0.68						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		4.75	6.64	1.42			5.22			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.49	3.13	0.22	0.44					
7	Dry stone pitching										
			TOTAL	**41.2**	**7.74**	**4.59**		**17.5**			

SAY **41 BAGS** **2.06 MT**




0.075
0.30
0.60
1.20
0.20
2.00
1.16

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 26 AT Ch- m**
3 **Name of Village:-** **Teekar**

1	Available crest length	6.00 M	
2	Hight of structure	0.70 M	36100
3	Top Width	0.3 M	
4	Bottom Width	1.16 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

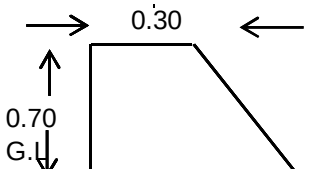
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	6.00	1.16	1.20	8.35				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	6.00	1.50	0.60	5.40				
					Total	(cu.m)	16.63				
	Total Excavation				Total		16.63	91.00	1513.51	91.00	1513.51
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	6.00	1.16	0.30	2.09				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	6.00	1.50	0.20	1.80				
					Total		4.61	1664	7667.71	320.00	1474.56
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	6.00	1.16	0.90	6.26				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	6.00	1.50	0.30	2.70				
					Total		11.12	1183	13159.69	357.00	3971.27
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	6.00	0.73	0.70	3.07				
	H.W.E		2	2.00	0.60	0.70	1.68				
					Total		4.75	1268	6017.93	357.00	1694.32

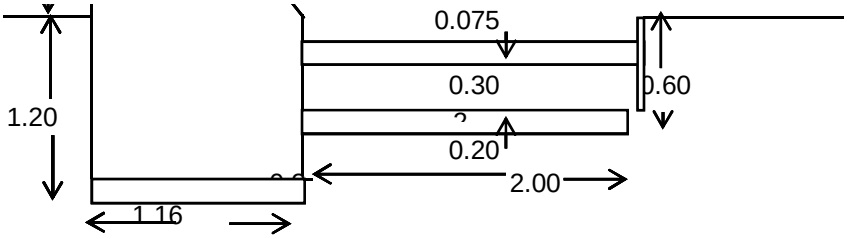
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	6.00	0.70		8.40				
	H.W.		1	6.00	0.80		4.80				
	H.W.E		4	2.00	0.70		5.60				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		21.38	138	2950.44	68.90	1473.08
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	6.00	0.30	0.075	0.14				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	2.00	1.16	0.075	0.17				
					Total		0.49	2642	1291.94	316.00	154.52
	GRAND TOTAL								**32601.22**		**10281.27**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2360.58**		**2360.58**
									34961.80		**12641.85**
						Says Rs.					**12642**
	METARIAL								**22319.95**		
	LABOUR								**12641.85**		
				TOTAL					**34961.80**		
	GRAND TOTAL								**34962**		
	Add 3% Contingency Charges								**1049**		
				TOTAL Rs.					**36011**		
				Say					**36100**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		4.61	14.75	2.07	4.15					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		11.12	11.9	3.34			12.2			
3	Cement plaster (1:4) 25 mm thick		21.38	4.79	0.68						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		4.75	6.64	1.42			5.22			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.49	3.13	0.22	0.44					
7	Dry stone pitching										
			TOTAL	**41.2**	**7.74**	**4.59**		**17.5**			

SAY **41 BAGS** **2.06 MT**




0.075
0.30
0.60
1.20
0.20
2.00
1.16

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 25 AT Ch- m**
3 **Name of Village:-** **Teekar**

1	Available crest length	7.00 M	
2	Hight of structure	0.60 M	38100
3	Top Width	0.3 M	
4	Bottom Width	1.08 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

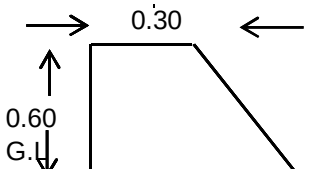
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	7.00	1.08	1.20	9.07				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	7.00	1.50	0.60	6.30				
					Total	(cu.m)	18.25				
	Total Excavation				Total		18.25	91.00	1660.93	91.00	1660.93
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	7.00	1.08	0.30	2.27				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	7.00	1.50	0.20	2.10				
					Total		5.09	1664	8466.43	320.00	1628.16
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	7.00	1.08	0.90	6.80				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	7.00	1.50	0.30	3.15				
					Total		12.11	1183	14330.86	357.00	4324.70
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	7.00	0.69	0.60	2.90				
	H.W.E		2	2.00	0.60	0.60	1.44				
					Total		4.34	1268	5500.58	357.00	1548.67

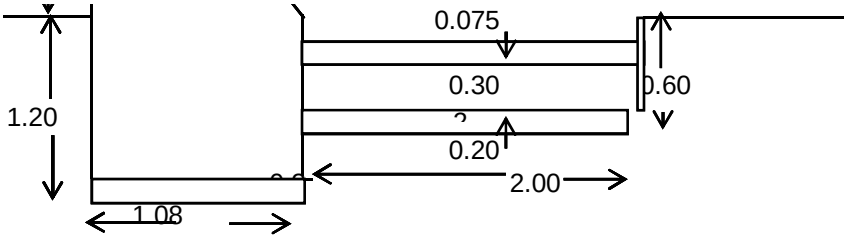
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	7.00	0.60		8.40				
	H.W.		1	7.00	0.80		5.60				
	H.W.E		4	2.00	0.60		4.80				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		21.38	138	2950.44	68.90	1473.08
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	7.00	0.30	0.075	0.16				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	3.00	1.08	0.075	0.24				
					Total		0.58	2642	1533.68	316.00	183.44
	GRAND TOTAL								**34442.93**		**10818.98**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2484.04**		**2484.04**
									36926.97		**13303.01**
						Says Rs.					**13303**
	METARIAL								**23623.96**		
	LABOUR								**13303.01**		
				TOTAL					**36926.97**		
	GRAND TOTAL								**36927**		
	Add 3% Contingency Charges								**1108**		
				TOTAL Rs.					**38035**		
				Say					**38100**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		5.09	16.28	2.29	4.58					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		12.11	13.0	3.63			13.3			
3	Cement plaster (1:4) 25 mm thick		21.38	4.79	0.68						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		4.34	6.07	1.30			4.77			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.58	3.72	0.26	0.52					
7	Dry stone pitching										
			TOTAL	**43.8**	**8.17**	**5.10**		**18.1**			

SAY **44 BAGS** **2.19 MT**




0.075
0.30
0.60
1.20
0.20
2.00
1.08

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 24 AT Ch- m**
3 **Name of Village:-** **Teekar**

1	Available crest length	7.00 M	
2	Hight of structure	0.60 M	38100
3	Top Width	0.3 M	
4	Bottom Width	1.08 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

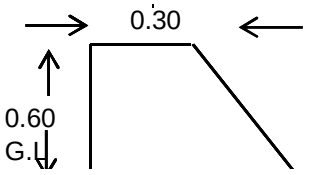
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	7.00	1.08	1.20	9.07				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	7.00	1.50	0.60	6.30				
					Total	(cu.m)	18.25				
	Total Excavation				Total		18.25	91.00	1660.93	91.00	1660.93
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	7.00	1.08	0.30	2.27				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	7.00	1.50	0.20	2.10				
					Total		5.09	1664	8466.43	320.00	1628.16
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	7.00	1.08	0.90	6.80				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	7.00	1.50	0.30	3.15				
					Total		12.11	1183	14330.86	357.00	4324.70
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	7.00	0.69	0.60	2.90				
	H.W.E		2	2.00	0.60	0.60	1.44				
					Total		4.34	1268	5500.58	357.00	1548.67

5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	7.00	0.60		8.40				
	H.W.		1	7.00	0.80		5.60				
	H.W.E		4	2.00	0.60		4.80				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		21.38	138	2950.44	68.90	1473.08
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	7.00	0.30	0.075	0.16				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	3.00	1.08	0.075	0.24				
					Total		0.58	2642	1533.68	316.00	183.44
	GRAND TOTAL								**34442.93**		**10818.98**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2484.04**		**2484.04**
									36926.97		**13303.01**
						Says Rs.					**13303**
	METARIAL								**23623.96**		
	LABOUR								**13303.01**		
				TOTAL					**36926.97**		
	GRAND TOTAL								**36927**		
	Add 3% Contingency Charges								**1108**		
				TOTAL Rs.					**38035**		
				Say					**38100**		

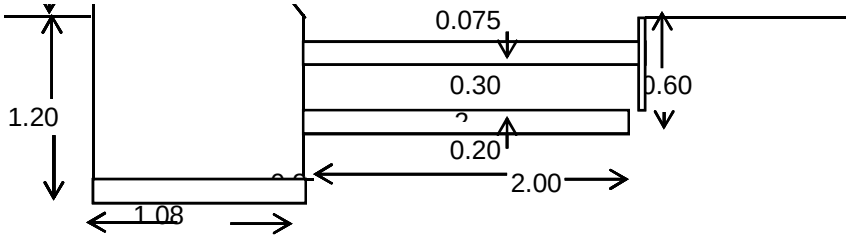
MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		5.09	16.28	2.29	4.58					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		12.11	13.0	3.63			13.3			
3	Cement plaster (1:4) 25 mm thick		21.38	4.79	0.68						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		4.34	6.07	1.30			4.77			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.58	3.72	0.26	0.52					
7	Dry stone pitching										
			TOTAL	**43.8**	**8.17**	**5.10**		**18.1**			

SAY **44 BAGS** **2.19 MT**



G.L


0.075
0.30
0.60
1.20
0.20
2.00
1.08

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 23 AT Ch- m**
3 **Name of Village:-** **Teekar**

1	Available crest length	7.00 M	
2	Hight of structure	0.60 M	38100
3	Top Width	0.3 M	
4	Bottom Width	1.08 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

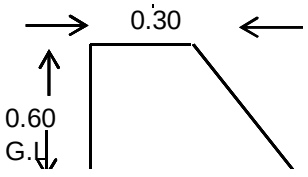
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	7.00	1.08	1.20	9.07				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	7.00	1.50	0.60	6.30				
					Total	(cu.m)	18.25				
	Total Excavation				Total		18.25	91.00	1660.93	91.00	1660.93
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	7.00	1.08	0.30	2.27				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	7.00	1.50	0.20	2.10				
					Total		5.09	1664	8466.43	320.00	1628.16
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	7.00	1.08	0.90	6.80				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	7.00	1.50	0.30	3.15				
					Total		12.11	1183	14330.86	357.00	4324.70
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	7.00	0.69	0.60	2.90				
	H.W.E		2	2.00	0.60	0.60	1.44				
					Total		4.34	1268	5500.58	357.00	1548.67

5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	7.00	0.60		8.40				
	H.W.		1	7.00	0.80		5.60				
	H.W.E		4	2.00	0.60		4.80				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		21.38	138	2950.44	68.90	1473.08
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	7.00	0.30	0.075	0.16				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	3.00	1.08	0.075	0.24				
					Total		0.58	2642	1533.68	316.00	183.44
	GRAND TOTAL								**34442.93**		**10818.98**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2484.04**		**2484.04**
									36926.97		**13303.01**
						Says Rs.					**13303**
	METARIAL								**23623.96**		
	LABOUR								**13303.01**		
				TOTAL					**36926.97**		
	GRAND TOTAL								**36927**		
	Add 3% Contingency Charges								**1108**		
				TOTAL Rs.					**38035**		
				Say					**38100**		

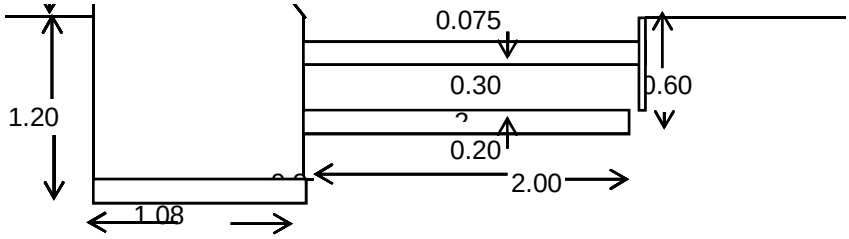
MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		5.09	16.28	2.29	4.58					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		12.11	13.0	3.63			13.3			
3	Cement plaster (1:4) 25 mm thick		21.38	4.79	0.68						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		4.34	6.07	1.30			4.77			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.58	3.72	0.26	0.52					
7	Dry stone pitching										
			TOTAL	**43.8**	**8.17**	**5.10**		**18.1**			

SAY **44 BAGS** **2.19 MT**



G.L


0.075
0.30
0.60
1.20
0.20
2.00
1.08

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 22 AT Ch- m**
3 **Name of Village:-** **Teekar**

1	Available crest length	6.00 M	
2	Hight of structure	0.60 M	33700
3	Top Width	0.3 M	
4	Bottom Width	1.08 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

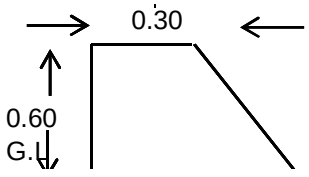
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	6.00	1.08	1.20	7.78				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	6.00	1.50	0.60	5.40				
					Total	(cu.m)	16.06				
	Total Excavation				Total		16.06	91.00	1461.10	91.00	1461.10
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	6.00	1.08	0.30	1.94				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	6.00	1.50	0.20	1.80				
					Total		4.46	1664	7428.10	320.00	1428.48
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	6.00	1.08	0.90	5.83				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	6.00	1.50	0.30	2.70				
					Total		10.69	1183	12648.64	357.00	3817.04
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	6.00	0.69	0.60	2.48				
	H.W.E		2	2.00	0.60	0.60	1.44				
					Total		3.92	1268	4975.63	357.00	1400.87

5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	6.00	0.60		7.20				
	H.W.		1	6.00	0.80		4.80				
	H.W.E		4	2.00	0.60		4.80				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		19.38	138	2674.44	68.90	1335.28
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	6.00	0.30	0.075	0.14				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	2.00	1.08	0.075	0.16				
					Total		0.48	2642	1260.23	316.00	150.73
	GRAND TOTAL								**30448.13**		**9593.50**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2202.67**		**2202.67**
									32650.80		**11796.17**
						Says Rs.					**11796**
	METARIAL								**20854.63**		
	LABOUR								**11796.17**		
				TOTAL					**32650.80**		
	GRAND TOTAL								**32651**		
	Add 3% Contingency Charges								**980**		
				TOTAL Rs.					**33630**		
				Say					**33700**		

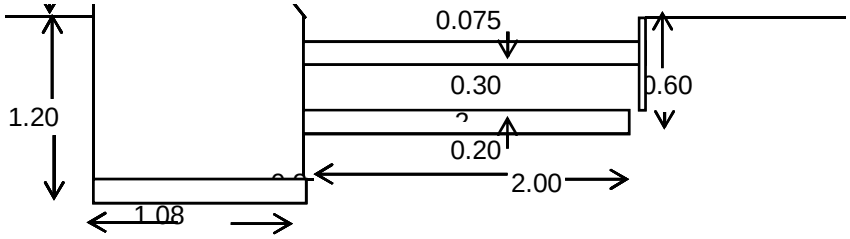
MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		4.46	14.28	2.01	4.02					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		10.69	11.4	3.21			11.8			
3	Cement plaster (1:4) 25 mm thick		19.38	4.34	0.62						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		3.92	5.49	1.18			4.32			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.48	3.05	0.21	0.43					
7	Dry stone pitching										
			TOTAL	**38.6**	**7.23**	**4.45**		**16.1**			

SAY **39 BAGS** **1.93 MT**



G.L


0.075
0.30
0.60
1.20
0.20
2.00
1.08

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 21 AT Ch- m**
3 **Name of Village:-** **Teekar**

1	Available crest length	6.00 M	
2	Hight of structure	0.60 M	33700
3	Top Width	0.3 M	
4	Bottom Width	1.08 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

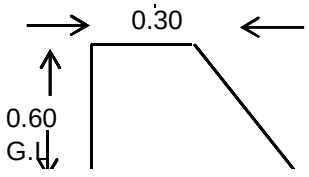
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	6.00	1.08	1.20	7.78				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	6.00	1.50	0.60	5.40				
					Total	(cu.m)	16.06				
	Total Excavation				Total		16.06	91.00	1461.10	91.00	1461.10
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	6.00	1.08	0.30	1.94				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	6.00	1.50	0.20	1.80				
					Total		4.46	1664	7428.10	320.00	1428.48
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	6.00	1.08	0.90	5.83				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	6.00	1.50	0.30	2.70				
					Total		10.69	1183	12648.64	357.00	3817.04
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	6.00	0.69	0.60	2.48				
	H.W.E		2	2.00	0.60	0.60	1.44				
					Total		3.92	1268	4975.63	357.00	1400.87

5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	6.00	0.60		7.20				
	H.W.		1	6.00	0.80		4.80				
	H.W.E		4	2.00	0.60		4.80				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		19.38	138	2674.44	68.90	1335.28
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	6.00	0.30	0.075	0.14				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	2.00	1.08	0.075	0.16				
					Total		0.48	2642	1260.23	316.00	150.73
	GRAND TOTAL								**30448.13**		**9593.50**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2202.67**		**2202.67**
									32650.80		**11796.17**
						Says Rs.					**11796**
	METARIAL								**20854.63**		
	LABOUR								**11796.17**		
				TOTAL					**32650.80**		
	GRAND TOTAL								**32651**		
	Add 3% Contingency Charges								**980**		
				TOTAL Rs.					**33630**		
				Say					**33700**		

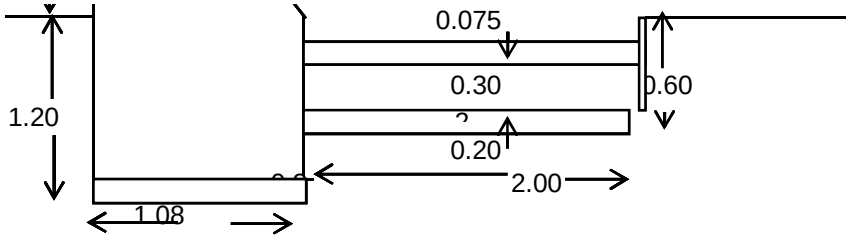
MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		4.46	14.28	2.01	4.02					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		10.69	11.4	3.21			11.8			
3	Cement plaster (1:4) 25 mm thick		19.38	4.34	0.62						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		3.92	5.49	1.18			4.32			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.48	3.05	0.21	0.43					
7	Dry stone pitching										
			TOTAL	**38.6**	**7.23**	**4.45**		**16.1**			

SAY **39 BAGS** **1.93 MT**



G.L


0.075
0.30
0.60
1.20
0.20
2.00
1.08

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 20 AT Ch- m**
3 **Name of Village:-** **Teekar**

1	Available crest length	6.00 M	
2	Hight of structure	0.60 M	33700
3	Top Width	0.3 M	
4	Bottom Width	1.08 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

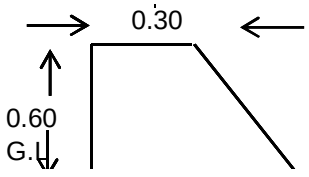
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	6.00	1.08	1.20	7.78				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	6.00	1.50	0.60	5.40				
					Total	(cu.m)	16.06				
	Total Excavation				Total		16.06	91.00	1461.10	91.00	1461.10
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	6.00	1.08	0.30	1.94				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	6.00	1.50	0.20	1.80				
					Total		4.46	1664	7428.10	320.00	1428.48
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	6.00	1.08	0.90	5.83				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	6.00	1.50	0.30	2.70				
					Total		10.69	1183	12648.64	357.00	3817.04
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	6.00	0.69	0.60	2.48				
	H.W.E		2	2.00	0.60	0.60	1.44				
					Total		3.92	1268	4975.63	357.00	1400.87

5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	6.00	0.60		7.20				
	H.W.		1	6.00	0.80		4.80				
	H.W.E		4	2.00	0.60		4.80				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		19.38	138	2674.44	68.90	1335.28
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	6.00	0.30	0.075	0.14				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	2.00	1.08	0.075	0.16				
					Total		0.48	2642	1260.23	316.00	150.73
	GRAND TOTAL								**30448.13**		**9593.50**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2202.67**		**2202.67**
									32650.80		**11796.17**
						Says Rs.					**11796**
	METARIAL								**20854.63**		
	LABOUR								**11796.17**		
				TOTAL					**32650.80**		
	GRAND TOTAL								**32651**		
	Add 3% Contingency Charges								**980**		
				TOTAL Rs.					**33630**		
				Say					**33700**		

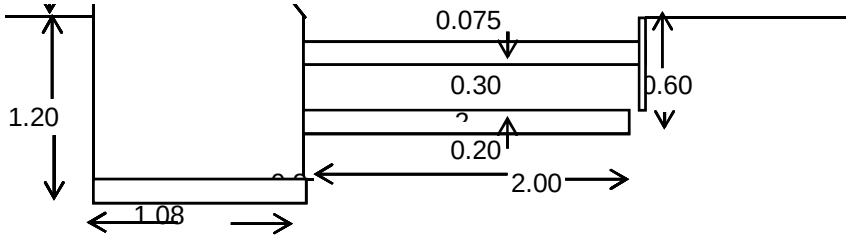
MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		4.46	14.28	2.01	4.02					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		10.69	11.4	3.21			11.8			
3	Cement plaster (1:4) 25 mm thick		19.38	4.34	0.62						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		3.92	5.49	1.18			4.32			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.48	3.05	0.21	0.43					
7	Dry stone pitching										
			TOTAL	**38.6**	**7.23**	**4.45**		**16.1**			

SAY **39 BAGS** **1.93 MT**



G.L


0.075
0.30
0.60
1.20
0.20
2.00
1.08

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 19 AT Ch- m**
3 **Name of Village:-** **Teekar**

1	Available crest length	6.00 M	
2	Hight of structure	0.60 M	33700
3	Top Width	0.3 M	
4	Bottom Width	1.08 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

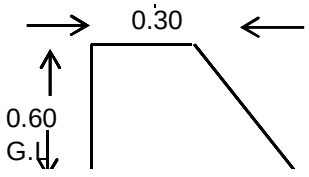
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	6.00	1.08	1.20	7.78				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	6.00	1.50	0.60	5.40				
					Total	(cu.m)	16.06				
	Total Excavation				Total		16.06	91.00	1461.10	91.00	1461.10
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	6.00	1.08	0.30	1.94				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	6.00	1.50	0.20	1.80				
					Total		4.46	1664	7428.10	320.00	1428.48
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	6.00	1.08	0.90	5.83				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	6.00	1.50	0.30	2.70				
					Total		10.69	1183	12648.64	357.00	3817.04
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	6.00	0.69	0.60	2.48				
	H.W.E		2	2.00	0.60	0.60	1.44				
					Total		3.92	1268	4975.63	357.00	1400.87

5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	6.00	0.60		7.20				
	H.W.		1	6.00	0.80		4.80				
	H.W.E		4	2.00	0.60		4.80				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		19.38	138	2674.44	68.90	1335.28
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	6.00	0.30	0.075	0.14				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	2.00	1.08	0.075	0.16				
					Total		0.48	2642	1260.23	316.00	150.73
	GRAND TOTAL								**30448.13**		**9593.50**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2202.67**		**2202.67**
									32650.80		**11796.17**
						Says Rs.					**11796**
	METARIAL								**20854.63**		
	LABOUR								**11796.17**		
				TOTAL					**32650.80**		
	GRAND TOTAL								**32651**		
	Add 3% Contingency Charges								**980**		
				TOTAL Rs.					**33630**		
				Say					**33700**		

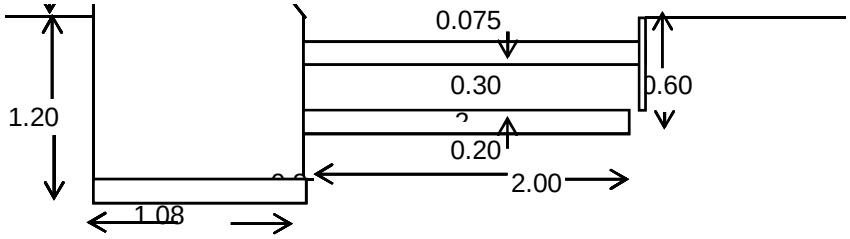
MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		4.46	14.28	2.01	4.02					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		10.69	11.4	3.21			11.8			
3	Cement plaster (1:4) 25 mm thick		19.38	4.34	0.62						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		3.92	5.49	1.18			4.32			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.48	3.05	0.21	0.43					
7	Dry stone pitching										
			TOTAL	**38.6**	**7.23**	**4.45**		**16.1**			

SAY **39 BAGS** **1.93 MT**



G.L


0.075
0.30
0.60
1.20
0.20
2.00
1.08

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 18 AT Ch- m**
3 **Name of Village:-** **Luhari kalan**

1	Available crest length	8.00 M	
2	Hight of structure	0.80 M	48700
3	Top Width	0.3 M	
4	Bottom Width	1.24 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

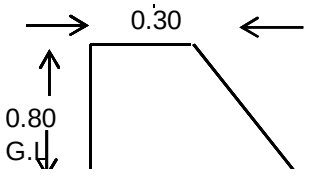
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	8.00	1.24	1.20	11.90				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	8.00	1.50	0.60	7.20				
					Total	(cu.m)	21.98				
	Total Excavation				Total		21.98	91.00	2000.54	91.00	2000.54
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	8.00	1.24	0.30	2.98				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	8.00	1.50	0.20	2.40				
					Total		6.10	1664	10143.74	320.00	1950.72
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	8.00	1.24	0.90	8.93				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	8.00	1.50	0.30	3.60				
					Total		14.69	1183	17375.90	357.00	5243.62
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	8.00	0.77	0.80	4.93				
	H.W.E		2	2.00	0.60	0.80	1.92				
					Total		6.85	1268	8683.26	357.00	2444.74

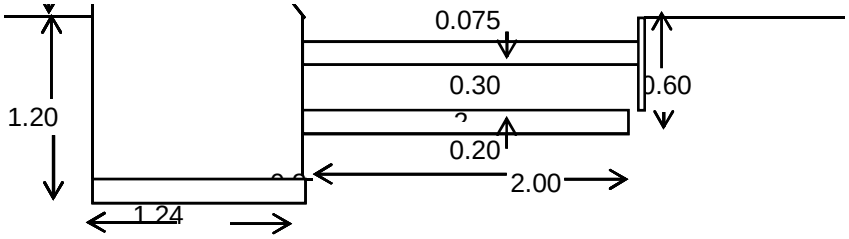
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	8.00	0.80		12.80				
	H.W.		1	8.00	0.80		6.40				
	H.W.E		4	2.00	0.80		6.40				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		28.18	138	3888.84	68.90	1941.60
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	8.00	0.30	0.075	0.18				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	4.00	1.24	0.075	0.37				
					Total		0.73	2642	1933.94	316.00	231.31
	GRAND TOTAL								**44026.24**		**13812.53**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**3171.36**		**3171.36**
									47197.60		**16983.89**
						Says Rs.					**16984**
	METARIAL								**30213.71**		
	LABOUR								**16983.89**		
				TOTAL					**47197.60**		
	GRAND TOTAL								**47198**		
	Add 3% Contingency Charges								**1416**		
				TOTAL Rs.					**48614**		
				Say					**48700**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		6.10	19.51	2.74	5.49					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		14.69	15.7	4.41			16.2			
3	Cement plaster (1:4) 25 mm thick		28.18	6.31	0.90						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		6.85	9.59	2.05			7.53			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.73	4.68	0.33	0.66					
7	Dry stone pitching										
			TOTAL	**55.8**	**10.44**	**6.15**		**23.7**			

SAY **56 BAGS** **2.79 MT**




0.075
0.30
0.60
1.20
0.20
2.00
1.24

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 17 AT Ch- m**
3 **Name of Village:-** **Jamoli**

1	Available crest length	8.00 M	
2	Hight of structure	0.80 M	48700
3	Top Width	0.3 M	
4	Bottom Width	1.24 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

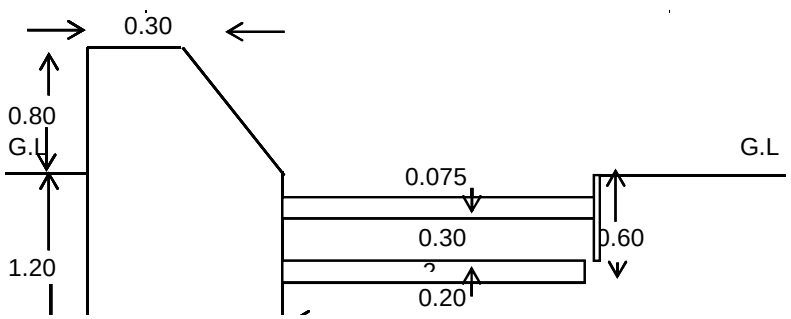
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	8.00	1.24	1.20	11.90				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	8.00	1.50	0.60	7.20				
					Total	(cu.m)	21.98				
	Total Excavation				Total		21.98	91.00	2000.54	91.00	2000.54
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	8.00	1.24	0.30	2.98				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	8.00	1.50	0.20	2.40				
					Total		6.10	1664	10143.74	320.00	1950.72
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	8.00	1.24	0.90	8.93				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	8.00	1.50	0.30	3.60				
					Total		14.69	1183	17375.90	357.00	5243.62
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	8.00	0.77	0.80	4.93				
	H.W.E		2	2.00	0.60	0.80	1.92				
					Total		6.85	1268	8683.26	357.00	2444.74

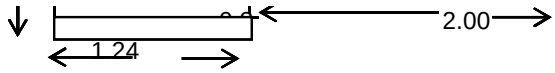
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	8.00	0.80		12.80				
	H.W.		1	8.00	0.80		6.40				
	H.W.E		4	2.00	0.80		6.40				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		28.18	138	3888.84	68.90	1941.60
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	8.00	0.30	0.075	0.18				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	4.00	1.24	0.075	0.37				
					Total		0.73	2642	1933.94	316.00	231.31
	GRAND TOTAL								**44026.24**		**13812.53**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**3171.36**		**3171.36**
									47197.60		**16983.89**
						Says Rs.					**16984**
	METARIAL								**30213.71**		
	LABOUR								**16983.89**		
				TOTAL					**47197.60**		
	GRAND TOTAL								**47198**		
	Add 3% Contingency Charges								**1416**		
				TOTAL Rs.					**48614**		
				Say					**48700**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		6.10	19.51	2.74	5.49					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		14.69	15.7	4.41			16.2			
3	Cement plaster (1:4) 25 mm thick		28.18	6.31	0.90						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		6.85	9.59	2.05			7.53			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.73	4.68	0.33	0.66					
7	Dry stone pitching										
			TOTAL	**55.8**	**10.44**	**6.15**		**23.7**			

SAY **56 BAGS** **2.79 MT**




2.00
1.24

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 16 AT Ch- m**
3 **Name of Village:-** **Jamoli**

1	Available crest length	8.00 M	
2	Hight of structure	0.80 M	48700
3	Top Width	0.3 M	
4	Bottom Width	1.24 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

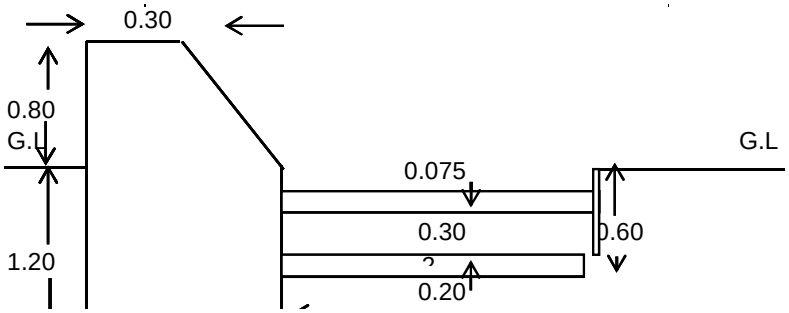
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	8.00	1.24	1.20	11.90				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	8.00	1.50	0.60	7.20				
					Total	(cu.m)	21.98				
	Total Excavation				Total		21.98	91.00	2000.54	91.00	2000.54
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	8.00	1.24	0.30	2.98				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	8.00	1.50	0.20	2.40				
					Total		6.10	1664	10143.74	320.00	1950.72
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	8.00	1.24	0.90	8.93				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	8.00	1.50	0.30	3.60				
					Total		14.69	1183	17375.90	357.00	5243.62
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	8.00	0.77	0.80	4.93				
	H.W.E		2	2.00	0.60	0.80	1.92				
					Total		6.85	1268	8683.26	357.00	2444.74

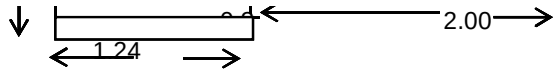
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	8.00	0.80		12.80				
	H.W.		1	8.00	0.80		6.40				
	H.W.E		4	2.00	0.80		6.40				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		28.18	138	3888.84	68.90	1941.60
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	8.00	0.30	0.075	0.18				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	4.00	1.24	0.075	0.37				
					Total		0.73	2642	1933.94	316.00	231.31
	GRAND TOTAL								**44026.24**		**13812.53**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrjDr tkMuk								**3171.36**		**3171.36**
									47197.60		**16983.89**
						Says Rs.					**16984**
	METARIAL								**30213.71**		
	LABOUR								**16983.89**		
				TOTAL					**47197.60**		
	GRAND TOTAL								**47198**		
	Add 3% Contingency Charges								**1416**		
				TOTAL Rs.					**48614**		
				Say					**48700**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		6.10	19.51	2.74	5.49					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		14.69	15.7	4.41			16.2			
3	Cement plaster (1:4) 25 mm thick		28.18	6.31	0.90						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		6.85	9.59	2.05			7.53			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.73	4.68	0.33	0.66					
7	Dry stone pitching										
			TOTAL	**55.8**	**10.44**	**6.15**		**23.7**			

SAY **56 BAGS** **2.79 MT**




2.00
1.24

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 15 AT Ch- m**
3 **Name of Village:-** **Jamoli**

1	Available crest length	7.00 M	
2	Hight of structure	0.80 M	43600
3	Top Width	0.3 M	
4	Bottom Width	1.24 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

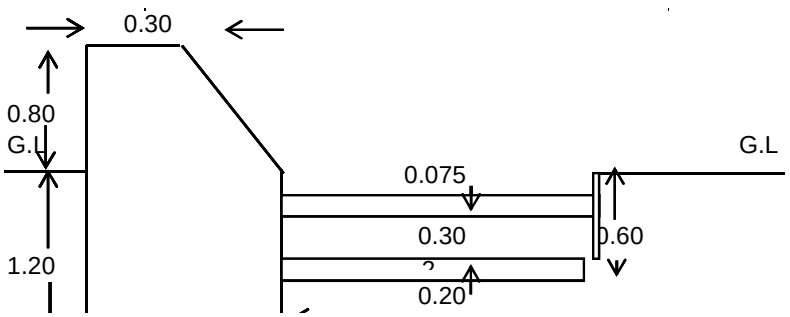
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	7.00	1.24	1.20	10.42				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	7.00	1.50	0.60	6.30				
					Total	(cu.m)	19.60				
	Total Excavation				Total		19.60	91.00	1783.24	91.00	1783.24
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	7.00	1.24	0.30	2.60				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	7.00	1.50	0.20	2.10				
					Total		5.42	1664	9025.54	320.00	1735.68
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	7.00	1.24	0.90	7.81				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	7.00	1.50	0.30	3.15				
					Total		13.12	1183	15523.33	357.00	4684.55
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	7.00	0.77	0.80	4.31				
	H.W.E		2	2.00	0.60	0.80	1.92				
					Total		6.23	1268	7902.18	357.00	2224.82

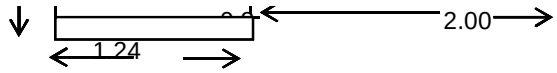
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	7.00	0.80		11.20				
	H.W.		1	7.00	0.80		5.60				
	H.W.E		4	2.00	0.80		6.40				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		25.78	138	3557.64	68.90	1776.24
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	7.00	0.30	0.075	0.16				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	3.00	1.24	0.075	0.28				
					Total		0.62	2642	1628.79	316.00	194.81
	GRAND TOTAL								**39420.71**		**12399.35**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrjDr tkMuk								**2846.89**		**2846.89**
									42267.60		**15246.24**
						Says Rs.					**15246**
	METARIAL								**27021.36**		
	LABOUR								**15246.24**		
				TOTAL					**42267.60**		
	GRAND TOTAL								**42268**		
	Add 3% Contingency Charges								**1268**		
				TOTAL Rs.					**43536**		
				Say					**43600**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		5.42	17.36	2.44	4.88					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		13.12	14.0	3.94			14.4			
3	Cement plaster (1:4) 25 mm thick		25.78	5.77	0.82						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		6.23	8.72	1.87			6.86			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.62	3.95	0.28	0.55					
7	Dry stone pitching										
			TOTAL	**49.8**	**9.35**	**5.44**		**21.3**			

SAY **50 BAGS** **2.49 MT**




2.00
1.24

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 14 AT Ch- m**
3 **Name of Village:-** **Jamoli**

1	Available crest length	6.00 M	
2	Hight of structure	0.70 M	36100
3	Top Width	0.3 M	
4	Bottom Width	1.16 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

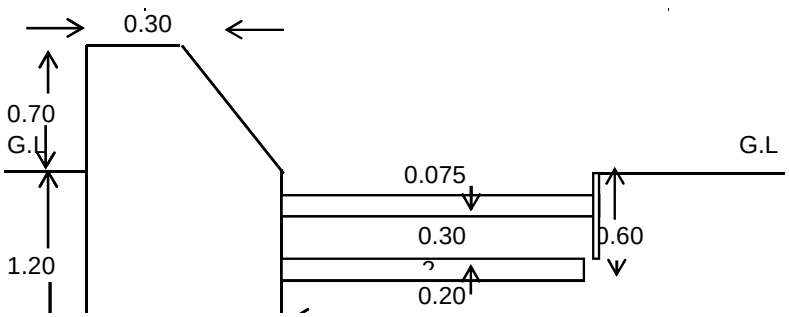
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	6.00	1.16	1.20	8.35				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	6.00	1.50	0.60	5.40				
					Total	(cu.m)	16.63				
	Total Excavation				Total		16.63	91.00	1513.51	91.00	1513.51
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	6.00	1.16	0.30	2.09				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	6.00	1.50	0.20	1.80				
					Total		4.61	1664	7667.71	320.00	1474.56
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	6.00	1.16	0.90	6.26				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	6.00	1.50	0.30	2.70				
					Total		11.12	1183	13159.69	357.00	3971.27
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	6.00	0.73	0.70	3.07				
	H.W.E		2	2.00	0.60	0.70	1.68				
					Total		4.75	1268	6017.93	357.00	1694.32

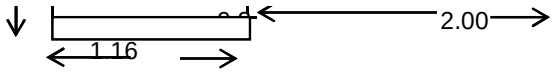
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	6.00	0.70		8.40				
	H.W.		1	6.00	0.80		4.80				
	H.W.E		4	2.00	0.70		5.60				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		21.38	138	2950.44	68.90	1473.08
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	6.00	0.30	0.075	0.14				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	2.00	1.16	0.075	0.17				
					Total		0.49	2642	1291.94	316.00	154.52
	GRAND TOTAL								**32601.22**		**10281.27**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrjDr tkMuk								**2360.58**		**2360.58**
									34961.80		**12641.85**
						Says Rs.					**12642**
	METARIAL								**22319.95**		
	LABOUR								**12641.85**		
				TOTAL					**34961.80**		
	GRAND TOTAL								**34962**		
	Add 3% Contingency Charges								**1049**		
				TOTAL Rs.					**36011**		
				Say					**36100**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		4.61	14.75	2.07	4.15					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		11.12	11.9	3.34			12.2			
3	Cement plaster (1:4) 25 mm thick		21.38	4.79	0.68						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		4.75	6.64	1.42			5.22			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.49	3.13	0.22	0.44					
7	Dry stone pitching										
			TOTAL	**41.2**	**7.74**	**4.59**		**17.5**			

SAY **41 BAGS** **2.06 MT**




2.00
1.16

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 13 AT Ch- m**
3 **Name of Village:-** **Jamoli**

1	Available crest length	8.00 M	
2	Hight of structure	0.60 M	42500
3	Top Width	0.3 M	
4	Bottom Width	1.08 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

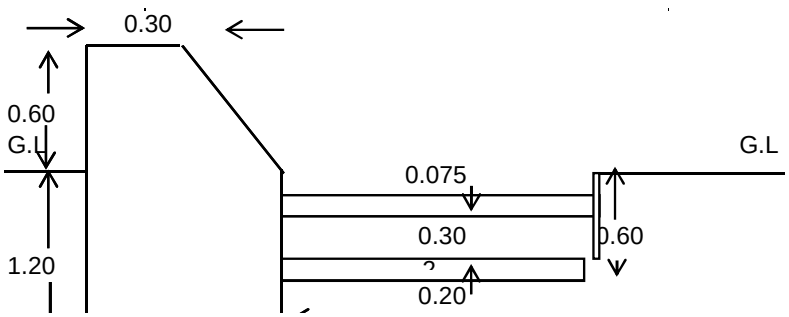
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	8.00	1.08	1.20	10.37				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	8.00	1.50	0.60	7.20				
					Total	(cu.m)	20.45				
	Total Excavation				Total		20.45	91.00	1860.77	91.00	1860.77
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	8.00	1.08	0.30	2.59				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	8.00	1.50	0.20	2.40				
					Total		5.71	1664	9504.77	320.00	1827.84
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	8.00	1.08	0.90	7.78				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	8.00	1.50	0.30	3.60				
					Total		13.54	1183	16013.09	357.00	4832.35
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	8.00	0.69	0.60	3.31				
	H.W.E		2	2.00	0.60	0.60	1.44				
					Total		4.75	1268	6025.54	357.00	1696.46

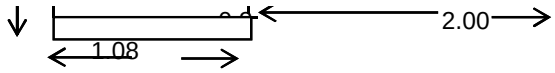
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	8.00	0.60		9.60				
	H.W.		1	8.00	0.80		6.40				
	H.W.E		4	2.00	0.60		4.80				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		23.38	138	3226.44	68.90	1610.88
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	8.00	0.30	0.075	0.18				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	4.00	1.08	0.075	0.32				
					Total		0.68	2642	1807.13	316.00	216.14
	GRAND TOTAL								**38437.73**		**12044.45**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2765.41**		**2765.41**
									41203.13		**14809.86**
						Says Rs.					**14810**
	METARIAL								**26393.28**		
	LABOUR								**14809.86**		
				TOTAL					**41203.13**		
	GRAND TOTAL								**41203**		
	Add 3% Contingency Charges								**1236**		
				TOTAL Rs.					**42439**		
				Say					**42500**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		5.71	18.28	2.57	5.14					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		13.54	14.5	4.06			14.9			
3	Cement plaster (1:4) 25 mm thick		23.38	5.24	0.75						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		4.75	6.65	1.43			5.23			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.68	4.38	0.31	0.62					
7	Dry stone pitching										
			TOTAL	**49.0**	**9.11**	**5.76**		**20.1**			

SAY **49 BAGS** **2.45 MT**




2.00
1.08

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 12 AT Ch- m**
3 **Name of Village:-** **Jamoli**

1	Available crest length	8.00 M	
2	Hight of structure	0.60 M	42500
3	Top Width	0.3 M	
4	Bottom Width	1.08 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

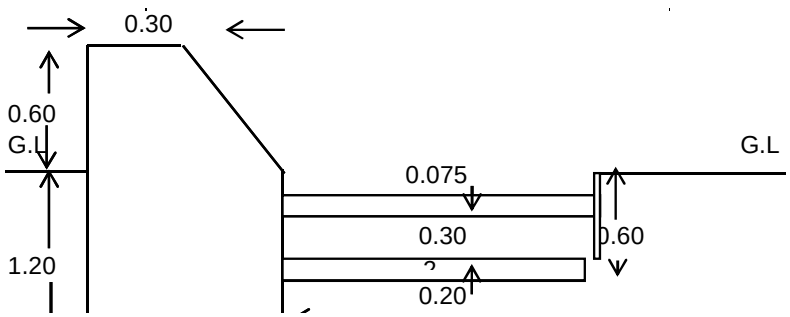
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	8.00	1.08	1.20	10.37				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	8.00	1.50	0.60	7.20				
					Total	(cu.m)	20.45				
	Total Excavation				Total		20.45	91.00	1860.77	91.00	1860.77
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	8.00	1.08	0.30	2.59				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	8.00	1.50	0.20	2.40				
					Total		5.71	1664	9504.77	320.00	1827.84
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	8.00	1.08	0.90	7.78				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	8.00	1.50	0.30	3.60				
					Total		13.54	1183	16013.09	357.00	4832.35
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	8.00	0.69	0.60	3.31				
	H.W.E		2	2.00	0.60	0.60	1.44				
					Total		4.75	1268	6025.54	357.00	1696.46

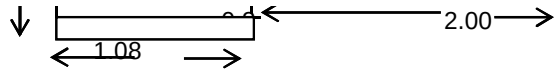
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	8.00	0.60		9.60				
	H.W.		1	8.00	0.80		6.40				
	H.W.E		4	2.00	0.60		4.80				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		23.38	138	3226.44	68.90	1610.88
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	8.00	0.30	0.075	0.18				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	4.00	1.08	0.075	0.32				
					Total		0.68	2642	1807.13	316.00	216.14
	GRAND TOTAL								**38437.73**		**12044.45**
	Je HKkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2765.41**		**2765.41**
									41203.13		**14809.86**
						Says Rs.					**14810**
	METARIAL								**26393.28**		
	LABOUR								**14809.86**		
				TOTAL					**41203.13**		
	GRAND TOTAL								**41203**		
	Add 3% Contingency Charges								**1236**		
				TOTAL Rs.					**42439**		
				Say					**42500**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		5.71	18.28	2.57	5.14					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		13.54	14.5	4.06			14.9			
3	Cement plaster (1:4) 25 mm thick		23.38	5.24	0.75						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		4.75	6.65	1.43			5.23			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.68	4.38	0.31	0.62					
7	Dry stone pitching										
			TOTAL	**49.0**	**9.11**	**5.76**		**20.1**			

SAY **49 BAGS** **2.45 MT**




2.00
1.08

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 11 AT Ch- m**
3 **Name of Village:-** **Jamoli**

1	Available crest length	7.00 M	
2	Hight of structure	0.60 M	38100
3	Top Width	0.3 M	
4	Bottom Width	1.08 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

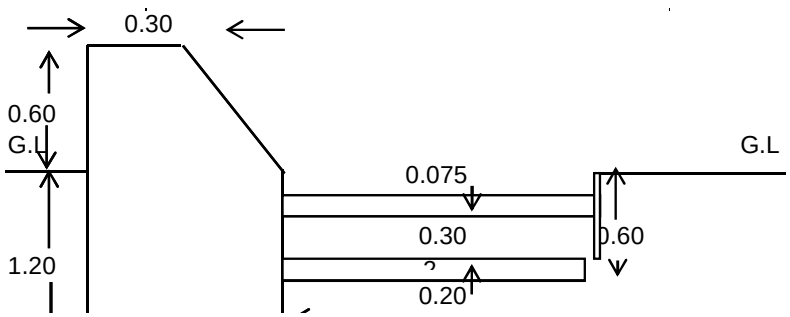
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	7.00	1.08	1.20	9.07				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	7.00	1.50	0.60	6.30				
					Total	(cu.m)	18.25				
	Total Excavation				Total		18.25	91.00	1660.93	91.00	1660.93
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	7.00	1.08	0.30	2.27				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	7.00	1.50	0.20	2.10				
					Total		5.09	1664	8466.43	320.00	1628.16
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	7.00	1.08	0.90	6.80				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	7.00	1.50	0.30	3.15				
					Total		12.11	1183	14330.86	357.00	4324.70
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	7.00	0.69	0.60	2.90				
	H.W.E		2	2.00	0.60	0.60	1.44				
					Total		4.34	1268	5500.58	357.00	1548.67

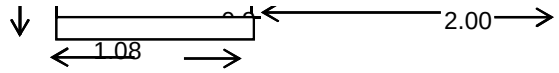
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	7.00	0.60		8.40				
	H.W.		1	7.00	0.80		5.60				
	H.W.E		4	2.00	0.60		4.80				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		21.38	138	2950.44	68.90	1473.08
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	7.00	0.30	0.075	0.16				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	3.00	1.08	0.075	0.24				
					Total		0.58	2642	1533.68	316.00	183.44
	GRAND TOTAL								**34442.93**		**10818.98**
	Je HKkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2484.04**		**2484.04**
									36926.97		**13303.01**
						Says Rs.					**13303**
	METARIAL								**23623.96**		
	LABOUR								**13303.01**		
				TOTAL					**36926.97**		
	GRAND TOTAL								**36927**		
	Add 3% Contingency Charges								**1108**		
				TOTAL Rs.					**38035**		
				Say					**38100**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		5.09	16.28	2.29	4.58					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		12.11	13.0	3.63			13.3			
3	Cement plaster (1:4) 25 mm thick		21.38	4.79	0.68						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		4.34	6.07	1.30			4.77			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.58	3.72	0.26	0.52					
7	Dry stone pitching										
			TOTAL	**43.8**	**8.17**	**5.10**		**18.1**			

SAY **44 BAGS** **2.19 MT**




2.00
1.08

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 10 AT Ch- m**
3 **Name of Village:-** **Jamoli**

1	Available crest length	6.00 M	
2	Hight of structure	0.60 M	33700
3	Top Width	0.3 M	
4	Bottom Width	1.08 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

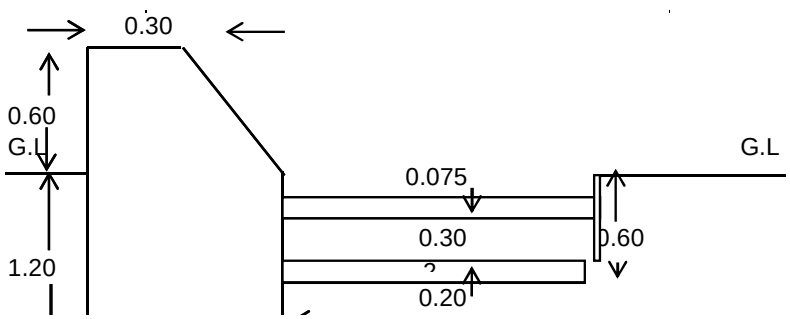
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	6.00	1.08	1.20	7.78				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	6.00	1.50	0.60	5.40				
					Total	(cu.m)	16.06				
	Total Excavation				Total		16.06	91.00	1461.10	91.00	1461.10
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	6.00	1.08	0.30	1.94				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	6.00	1.50	0.20	1.80				
					Total		4.46	1664	7428.10	320.00	1428.48
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	6.00	1.08	0.90	5.83				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	6.00	1.50	0.30	2.70				
					Total		10.69	1183	12648.64	357.00	3817.04
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	6.00	0.69	0.60	2.48				
	H.W.E		2	2.00	0.60	0.60	1.44				
					Total		3.92	1268	4975.63	357.00	1400.87

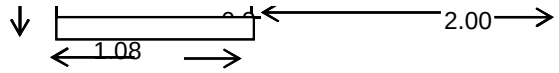
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	6.00	0.60		7.20				
	H.W.		1	6.00	0.80		4.80				
	H.W.E		4	2.00	0.60		4.80				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		19.38	138	2674.44	68.90	1335.28
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	6.00	0.30	0.075	0.14				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	2.00	1.08	0.075	0.16				
					Total		0.48	2642	1260.23	316.00	150.73
	GRAND TOTAL								**30448.13**		**9593.50**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2202.67**		**2202.67**
									32650.80		**11796.17**
						Says Rs.					**11796**
	METARIAL								**20854.63**		
	LABOUR								**11796.17**		
				TOTAL					**32650.80**		
	GRAND TOTAL								**32651**		
	Add 3% Contingency Charges								**980**		
				TOTAL Rs.					**33630**		
				Say					**33700**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		4.46	14.28	2.01	4.02					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		10.69	11.4	3.21			11.8			
3	Cement plaster (1:4) 25 mm thick		19.38	4.34	0.62						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		3.92	5.49	1.18			4.32			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.48	3.05	0.21	0.43					
7	Dry stone pitching										
			TOTAL	**38.6**	**7.23**	**4.45**		**16.1**			

SAY **39 BAGS** **1.93 MT**




2.00
1.08

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 9 AT Ch- m**
3 **Name of Village:-** **Amarwasi (Mayla Poliya)**

1	Available crest length	8.00 M	
2	Hight of structure	0.70 M	45500
3	Top Width	0.3 M	
4	Bottom Width	1.16 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

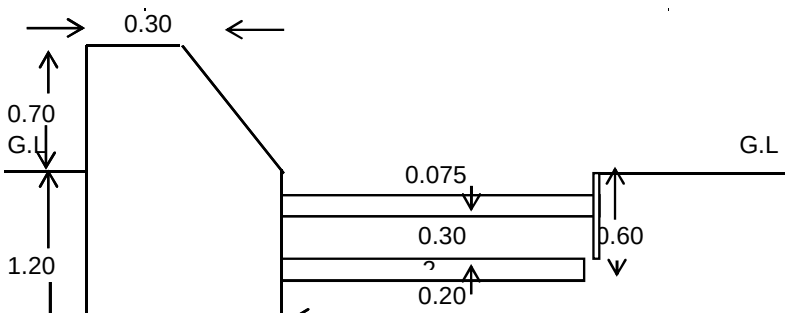
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	8.00	1.16	1.20	11.14				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	8.00	1.50	0.60	7.20				
					Total	(cu.m)	21.22				
	Total Excavation				Total		21.22	91.00	1930.66	91.00	1930.66
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	8.00	1.16	0.30	2.78				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	8.00	1.50	0.20	2.40				
					Total		5.90	1664	9824.26	320.00	1889.28
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	8.00	1.16	0.90	8.35				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	8.00	1.50	0.30	3.60				
					Total		14.11	1183	16694.50	357.00	5037.98
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	8.00	0.73	0.70	4.09				
	H.W.E		2	2.00	0.60	0.70	1.68				
					Total		5.77	1268	7313.82	357.00	2059.18

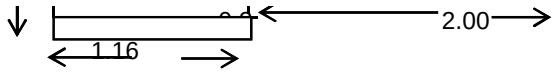
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	8.00	0.70		11.20				
	H.W.		1	8.00	0.80		6.40				
	H.W.E		4	2.00	0.70		5.60				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		25.78	138	3557.64	68.90	1776.24
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	8.00	0.30	0.075	0.18				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	4.00	1.16	0.075	0.35				
					Total		0.71	2642	1870.54	316.00	223.73
	GRAND TOTAL								**41191.41**		**12917.07**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2965.76**		**2965.76**
									44157.17		**15882.82**
						Says Rs.					**15883**
	METARIAL								**28274.34**		
	LABOUR								**15882.82**		
				TOTAL					**44157.17**		
	GRAND TOTAL								**44157**		
	Add 3% Contingency Charges								**1325**		
				TOTAL Rs.					**45482**		
				Say					**45500**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		5.90	18.89	2.66	5.31					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		14.11	15.1	4.23			15.5			
3	Cement plaster (1:4) 25 mm thick		25.78	5.77	0.82						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		5.77	8.08	1.73			6.34			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.71	4.53	0.32	0.64					
7	Dry stone pitching										
			TOTAL	**52.4**	**9.76**	**5.95**		**21.9**			

SAY **52 BAGS** **2.62 MT**




2.00
1.16

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 8 AT Ch- m**
3 **Name of Village:-** **Amarwasi (Mayla Poliya)**

1	Available crest length	9.00 M	
2	Hight of structure	0.80 M	53700
3	Top Width	0.3 M	
4	Bottom Width	1.24 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

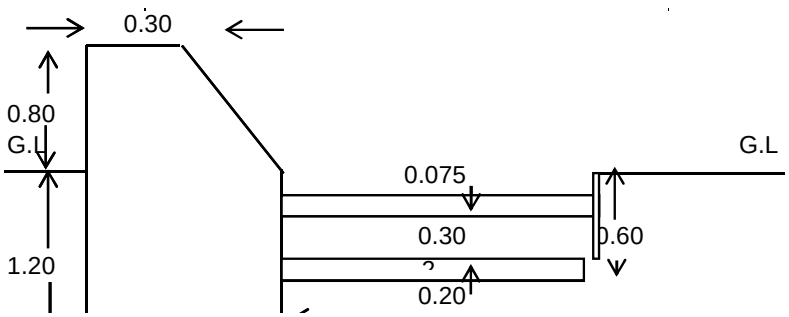
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	9.00	1.24	1.20	13.39				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	9.00	1.50	0.60	8.10				
					Total	(cu.m)	24.37				
	Total Excavation				Total		24.37	91.00	2217.85	91.00	2217.85
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	9.00	1.24	0.30	3.35				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	9.00	1.50	0.20	2.70				
					Total		6.77	1664	11261.95	320.00	2165.76
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	9.00	1.24	0.90	10.04				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	9.00	1.50	0.30	4.05				
					Total		16.25	1183	19228.48	357.00	5802.68
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	9.00	0.77	0.80	5.54				
	H.W.E		2	2.00	0.60	0.80	1.92				
					Total		7.46	1268	9464.35	357.00	2664.65

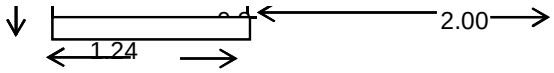
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	9.00	0.80		14.40				
	H.W.		1	9.00	0.80		7.20				
	H.W.E		4	2.00	0.80		6.40				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		30.58	138	4220.04	68.90	2106.96
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	9.00	0.30	0.075	0.20				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	5.00	1.24	0.075	0.47				
					Total		0.85	2642	2239.10	316.00	267.81
	GRAND TOTAL								**48631.77**		**15225.71**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrjDr tkMuk								**3495.82**		**3495.82**
									52127.60		**18721.53**
						Says Rs.					**18722**
	METARIAL								**33406.06**		
	LABOUR								**18721.53**		
				TOTAL					**52127.60**		
	GRAND TOTAL								**52128**		
	Add 3% Contingency Charges								**1564**		
				TOTAL Rs.					**53691**		
				Say					**53700**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		6.77	21.66	3.05	6.09					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		16.25	17.4	4.88			17.9			
3	Cement plaster (1:4) 25 mm thick		30.58	6.85	0.98						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		7.46	10.45	2.24			8.21			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.85	5.42	0.38	0.76					
7	Dry stone pitching										
			TOTAL	**61.8**	**11.52**	**6.85**		**26.1**			

SAY **62 BAGS** **3.09 MT**




2.00
1.24

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 7 AT Ch- m**
3 **Name of Village:-** **Bharni kalan**

1	Available crest length	8.00 M	
2	Hight of structure	0.80 M	48700
3	Top Width	0.3 M	
4	Bottom Width	1.24 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

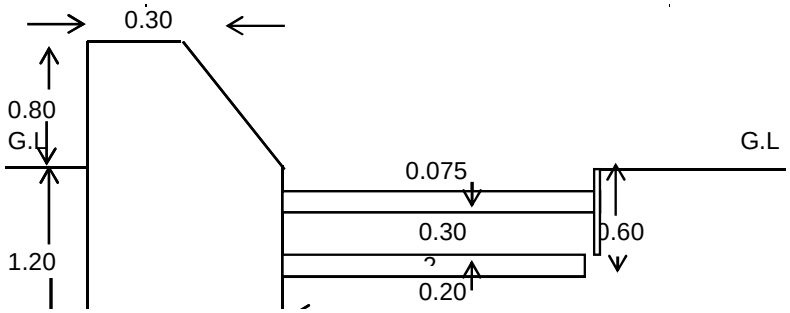
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	8.00	1.24	1.20	11.90				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	8.00	1.50	0.60	7.20				
					Total	(cu.m)	21.98				
	Total Excavation				Total		21.98	91.00	2000.54	91.00	2000.54
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	8.00	1.24	0.30	2.98				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	8.00	1.50	0.20	2.40				
					Total		6.10	1664	10143.74	320.00	1950.72
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	8.00	1.24	0.90	8.93				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	8.00	1.50	0.30	3.60				
					Total		14.69	1183	17375.90	357.00	5243.62
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	8.00	0.77	0.80	4.93				
	H.W.E		2	2.00	0.60	0.80	1.92				
					Total		6.85	1268	8683.26	357.00	2444.74

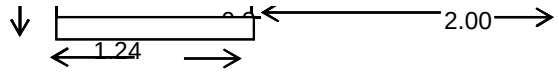
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	8.00	0.80		12.80				
	H.W.		1	8.00	0.80		6.40				
	H.W.E		4	2.00	0.80		6.40				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		28.18	138	3888.84	68.90	1941.60
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	8.00	0.30	0.075	0.18				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	4.00	1.24	0.075	0.37				
					Total		0.73	2642	1933.94	316.00	231.31
	GRAND TOTAL								**44026.24**		**13812.53**
	Je HKkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**3171.36**		**3171.36**
									47197.60		**16983.89**
						Says Rs.					**16984**
	METARIAL								**30213.71**		
	LABOUR								**16983.89**		
				TOTAL					**47197.60**		
	GRAND TOTAL								**47198**		
	Add 3% Contingency Charges								**1416**		
				TOTAL Rs.					**48614**		
				Say					**48700**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		6.10	19.51	2.74	5.49					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		14.69	15.7	4.41			16.2			
3	Cement plaster (1:4) 25 mm thick		28.18	6.31	0.90						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		6.85	9.59	2.05			7.53			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.73	4.68	0.33	0.66					
7	Dry stone pitching										
			TOTAL	**55.8**	**10.44**	**6.15**		**23.7**			

SAY **56 BAGS** **2.79 MT**




2.00
1.24

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 6 AT Ch- m**
3 **Name of Village:-** **Bharni kalan**

1	Available crest length	7.00 M	
2	Hight of structure	0.80 M	43600
3	Top Width	0.3 M	
4	Bottom Width	1.24 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

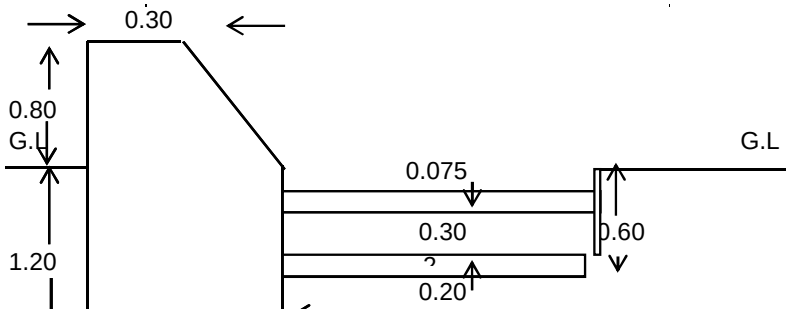
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	7.00	1.24	1.20	10.42				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	7.00	1.50	0.60	6.30				
					Total	(cu.m)	19.60				
	Total Excavation				Total		19.60	91.00	1783.24	91.00	1783.24
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	7.00	1.24	0.30	2.60				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	7.00	1.50	0.20	2.10				
					Total		5.42	1664	9025.54	320.00	1735.68
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	7.00	1.24	0.90	7.81				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	7.00	1.50	0.30	3.15				
					Total		13.12	1183	15523.33	357.00	4684.55
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	7.00	0.77	0.80	4.31				
	H.W.E		2	2.00	0.60	0.80	1.92				
					Total		6.23	1268	7902.18	357.00	2224.82

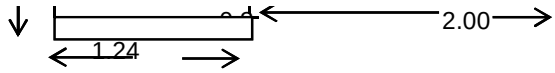
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	7.00	0.80		11.20				
	H.W.		1	7.00	0.80		5.60				
	H.W.E		4	2.00	0.80		6.40				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		25.78	138	3557.64	68.90	1776.24
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	7.00	0.30	0.075	0.16				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	3.00	1.24	0.075	0.28				
					Total		0.62	2642	1628.79	316.00	194.81
	GRAND TOTAL								**39420.71**		**12399.35**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2846.89**		**2846.89**
									42267.60		**15246.24**
						Says Rs.					**15246**
	METARIAL								**27021.36**		
	LABOUR								**15246.24**		
				TOTAL					**42267.60**		
	GRAND TOTAL								**42268**		
	Add 3% Contingency Charges								**1268**		
				TOTAL Rs.					**43536**		
				Say					**43600**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		5.42	17.36	2.44	4.88					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		13.12	14.0	3.94			14.4			
3	Cement plaster (1:4) 25 mm thick		25.78	5.77	0.82						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		6.23	8.72	1.87			6.86			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.62	3.95	0.28	0.55					
7	Dry stone pitching										
			TOTAL	**49.8**	**9.35**	**5.44**		**21.3**			

SAY **50 BAGS** **2.49 MT**




2.00
1.24

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 5 AT Ch- m**
3 **Name of Village:-** **Bharni kalan**

1	Available crest length	7.00 M	
2	Hight of structure	0.80 M	43600
3	Top Width	0.3 M	
4	Bottom Width	1.24 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

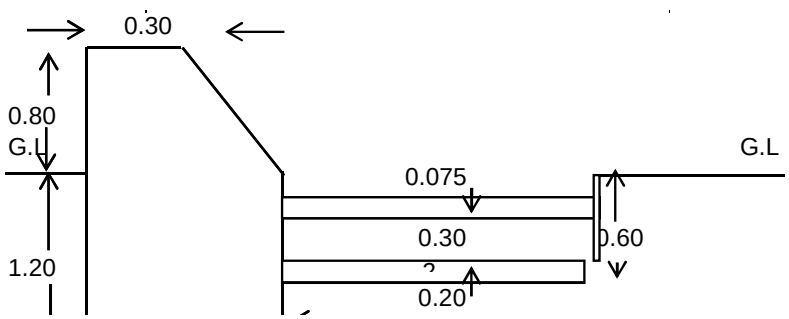
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	7.00	1.24	1.20	10.42				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	7.00	1.50	0.60	6.30				
					Total	(cu.m)	19.60				
	Total Excavation				Total		19.60	91.00	1783.24	91.00	1783.24
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	7.00	1.24	0.30	2.60				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	7.00	1.50	0.20	2.10				
					Total		5.42	1664	9025.54	320.00	1735.68
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	7.00	1.24	0.90	7.81				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	7.00	1.50	0.30	3.15				
					Total		13.12	1183	15523.33	357.00	4684.55
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	7.00	0.77	0.80	4.31				
	H.W.E		2	2.00	0.60	0.80	1.92				
					Total		6.23	1268	7902.18	357.00	2224.82

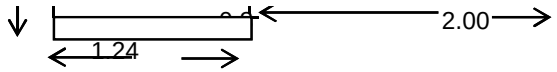
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	7.00	0.80		11.20				
	H.W.		1	7.00	0.80		5.60				
	H.W.E		4	2.00	0.80		6.40				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		25.78	138	3557.64	68.90	1776.24
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	7.00	0.30	0.075	0.16				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	3.00	1.24	0.075	0.28				
					Total		0.62	2642	1628.79	316.00	194.81
	GRAND TOTAL								**39420.71**		**12399.35**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2846.89**		**2846.89**
									42267.60		**15246.24**
						Says Rs.					**15246**
	METARIAL								**27021.36**		
	LABOUR								**15246.24**		
				TOTAL					**42267.60**		
	GRAND TOTAL								**42268**		
	Add 3% Contingency Charges								**1268**		
				TOTAL Rs.					**43536**		
				Say					**43600**		

MATERIAL CONSUMPTION STAEMENT

S.no	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		5.42	17.36	2.44	4.88					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		13.12	14.0	3.94			14.4			
3	Cement plaster (1:4) 25 mm thick		25.78	5.77	0.82						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		6.23	8.72	1.87			6.86			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.62	3.95	0.28	0.55					
7	Dry stone pitching										
			TOTAL	**49.8**	**9.35**	**5.44**		**21.3**			

SAY **50 BAGS** **2.49 MT**




2.00
1.24

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 4 AT Ch- m**
3 **Name of Village:-** **Bharni kalan**

1	Available crest length	6.00 M	
2	Hight of structure	0.80 M	38500
3	Top Width	0.3 M	
4	Bottom Width	1.24 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

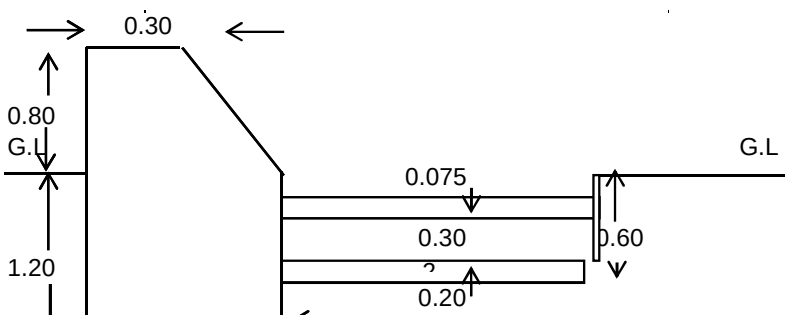
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	6.00	1.24	1.20	8.93				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	6.00	1.50	0.60	5.40				
					Total	(cu.m)	17.21				
	Total Excavation				Total		17.21	91.00	1565.93	91.00	1565.93
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	6.00	1.24	0.30	2.23				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	6.00	1.50	0.20	1.80				
					Total		4.75	1664	7907.33	320.00	1520.64
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	6.00	1.24	0.90	6.70				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	6.00	1.50	0.30	2.70				
					Total		11.56	1183	13670.75	357.00	4125.49
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	6.00	0.77	0.80	3.70				
	H.W.E		2	2.00	0.60	0.80	1.92				
					Total		5.62	1268	7121.09	357.00	2004.91

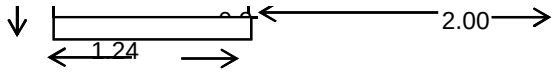
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	6.00	0.80		9.60				
	H.W.		1	6.00	0.80		4.80				
	H.W.E		4	2.00	0.80		6.40				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		23.38	138	3226.44	68.90	1610.88
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	6.00	0.30	0.075	0.14				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	2.00	1.24	0.075	0.19				
					Total		0.50	2642	1323.64	316.00	158.32
	GRAND TOTAL								**34815.17**		**10986.17**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2522.42**		**2522.42**
									37337.60		**13508.59**
						Says Rs.					**13509**
	METARIAL								**23829.00**		
	LABOUR								**13508.59**		
				TOTAL					**37337.60**		
	GRAND TOTAL								**37338**		
	Add 3% Contingency Charges								**1120**		
				TOTAL Rs.					**38458**		
				Say					**38500**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		4.75	15.21	2.14	4.28					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		11.56	12.4	3.47			12.7			
3	Cement plaster (1:4) 25 mm thick		23.38	5.24	0.75						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		5.62	7.86	1.68			6.18			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.50	3.21	0.23	0.45					
7	Dry stone pitching										
			TOTAL	**43.9**	**8.26**	**4.73**		**18.9**			

SAY **44 BAGS** **2.19 MT**




2.00
1.24

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 3 AT Ch- m**
3 **Name of Village:-** **Bharni kalan**

1	Available crest length	8.00 M	
2	Hight of structure	0.60 M	42500
3	Top Width	0.3 M	
4	Bottom Width	1.08 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

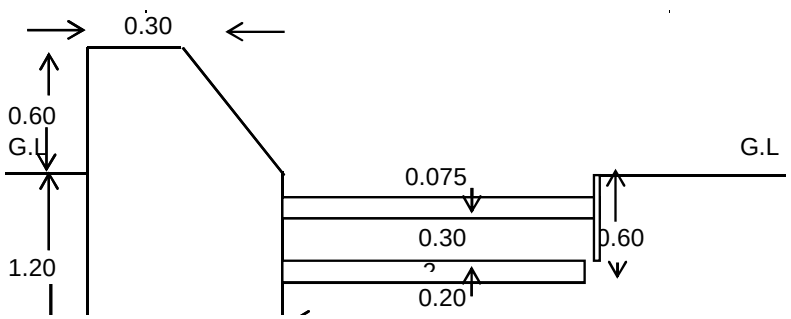
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	8.00	1.08	1.20	10.37				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	8.00	1.50	0.60	7.20				
					Total	(cu.m)	20.45				
	Total Excavation				Total		20.45	91.00	1860.77	91.00	1860.77
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	8.00	1.08	0.30	2.59				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	8.00	1.50	0.20	2.40				
					Total		5.71	1664	9504.77	320.00	1827.84
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	8.00	1.08	0.90	7.78				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	8.00	1.50	0.30	3.60				
					Total		13.54	1183	16013.09	357.00	4832.35
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	8.00	0.69	0.60	3.31				
	H.W.E		2	2.00	0.60	0.60	1.44				
					Total		4.75	1268	6025.54	357.00	1696.46

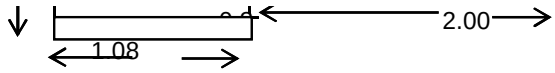
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	8.00	0.60		9.60				
	H.W.		1	8.00	0.80		6.40				
	H.W.E		4	2.00	0.60		4.80				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		23.38	138	3226.44	68.90	1610.88
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	8.00	0.30	0.075	0.18				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	4.00	1.08	0.075	0.32				
					Total		0.68	2642	1807.13	316.00	216.14
	GRAND TOTAL								**38437.73**		**12044.45**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2765.41**		**2765.41**
									41203.13		**14809.86**
						Says Rs.					**14810**
	METARIAL								**26393.28**		
	LABOUR								**14809.86**		
				TOTAL					**41203.13**		
	GRAND TOTAL								**41203**		
	Add 3% Contingency Charges								**1236**		
				TOTAL Rs.					**42439**		
				Say					**42500**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		5.71	18.28	2.57	5.14					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		13.54	14.5	4.06			14.9			
3	Cement plaster (1:4) 25 mm thick		23.38	5.24	0.75						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		4.75	6.65	1.43			5.23			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.68	4.38	0.31	0.62					
7	Dry stone pitching										
			TOTAL	**49.0**	**9.11**	**5.76**		**20.1**			

SAY **49 BAGS** **2.45 MT**




2.00
1.08

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 2 AT Ch- m**
3 **Name of Village:-** **Bharni kalan**

1	Available crest length	8.00 M	
2	Hight of structure	0.60 M	42500
3	Top Width	0.3 M	
4	Bottom Width	1.08 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

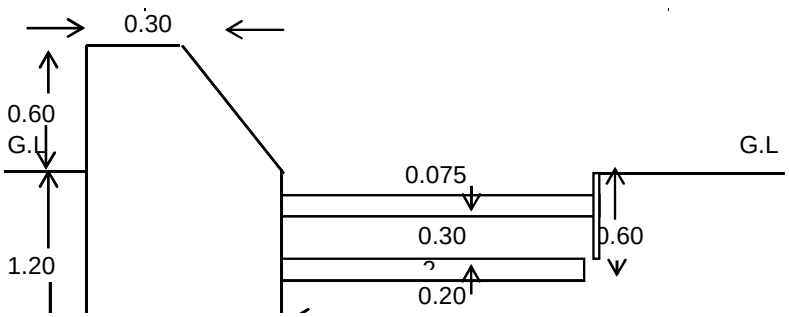
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	8.00	1.08	1.20	10.37				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	8.00	1.50	0.60	7.20				
					Total	(cu.m)	20.45				
	Total Excavation				Total		20.45	91.00	1860.77	91.00	1860.77
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	8.00	1.08	0.30	2.59				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	8.00	1.50	0.20	2.40				
					Total		5.71	1664	9504.77	320.00	1827.84
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	8.00	1.08	0.90	7.78				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	8.00	1.50	0.30	3.60				
					Total		13.54	1183	16013.09	357.00	4832.35
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	8.00	0.69	0.60	3.31				
	H.W.E		2	2.00	0.60	0.60	1.44				
					Total		4.75	1268	6025.54	357.00	1696.46

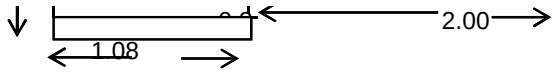
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	8.00	0.60		9.60				
	H.W.		1	8.00	0.80		6.40				
	H.W.E		4	2.00	0.60		4.80				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		23.38	138	3226.44	68.90	1610.88
6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	8.00	0.30	0.075	0.18				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	4.00	1.08	0.075	0.32				
					Total		0.68	2642	1807.13	316.00	216.14
	GRAND TOTAL								**38437.73**		**12044.45**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2765.41**		**2765.41**
									41203.13		**14809.86**
						Says Rs.					**14810**
	METARIAL								**26393.28**		
	LABOUR								**14809.86**		
				TOTAL					**41203.13**		
	GRAND TOTAL								**41203**		
	Add 3% Contingency Charges								**1236**		
				TOTAL Rs.					**42439**		
				Say					**42500**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		5.71	18.28	2.57	5.14					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		13.54	14.5	4.06			14.9			
3	Cement plaster (1:4) 25 mm thick		23.38	5.24	0.75						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		4.75	6.65	1.43			5.23			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.68	4.38	0.31	0.62					
7	Dry stone pitching										
			TOTAL	**49.0**	**9.11**	**5.76**		**20.1**			

SAY **49 BAGS** **2.45 MT**




2.00
1.08

CONTRUCTION OF MASONARY WALL

1 **Name of w/s :-** **IWMP- XIV JAHAJPUR**
P.S Jahajpur DISTT. BHILWARA (RAJ.)
2 **Name of work :-** **CONTRUCTION OF MASONARY WALL No- 1 AT Ch- m**
3 **Name of Village:-** **Bharni kalan**

1	Available crest length	6.00 M	
2	Hight of structure	0.60 M	33700
3	Top Width	0.3 M	
4	Bottom Width	1.08 M	
5	Depth of foundation taking as	1.20 M	
6	Width of Basin	1.50 M	
7	Depth of Basin	0.6 M	
8	Head wall Extension	2 M	

DETAILED ESTIMATE

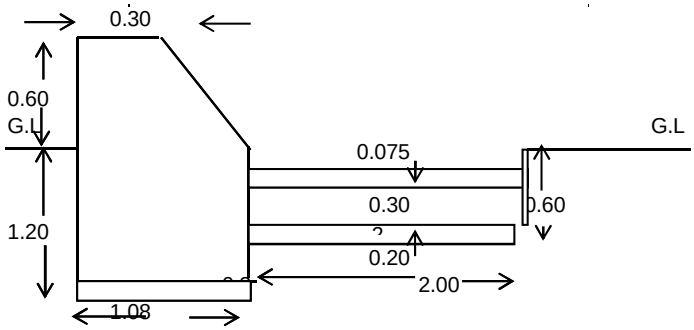
S. No.	PARTICULAR	BSR Page No Item	No.	LENGTH	WIDTH	HT/DEPTH	Qty	Rate	Total Amount	Labour Rate	L.Amount
	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete	1 (2 B)									
	H.W.		1	6.00	1.08	1.20	7.78				
	H.W.E		2	2.00	0.60	1.20	2.88				
	Apron		1	6.00	1.50	0.60	5.40				
					Total	(cu.m)	16.06				
	Total Excavation				Total		16.06	91.00	1461.10	91.00	1461.10
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 40mm	17 (191)									
	H.W		1	6.00	1.08	0.30	1.94				
	H.W.E		2	2.00	0.60	0.30	0.72				
	Apron		1	6.00	1.50	0.20	1.80				
					Total		4.46	1664	7428.10	320.00	1428.48
3	Random rubble stone masonary in cement sand mortar(1:8) for foundation	17 (190B)									
	H.W.		1	6.00	1.08	0.90	5.83				
	H.W.E		2	2.00	0.60	0.90	2.16				
	Apron		1	6.00	1.50	0.30	2.70				
					Total		10.69	1183	12648.64	357.00	3817.04
4	Random rubble stone masonary in cement sand mortar(1:6) for supper structure	17 (190A)									
	H.W.		1	6.00	0.69	0.60	2.48				
	H.W.E		2	2.00	0.60	0.60	1.44				
					Total		3.92	1268	4975.63	357.00	1400.87
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thick	8 (70A)									
	H.W.		2	6.00	0.60		7.20				
	H.W.		1	6.00	0.80		4.80				
	H.W.E		4	2.00	0.60		4.80				
	H.W.E		2	2.00	0.60		2.40				
	Apron		1	0.60	0.30		0.18				
					Total		19.38	138	2674.44	68.90	1335.28

6	Cement concrete coping in cement mortar 1:2:4 12 mm thick	17 (194A)									
	H.W.		1	6.00	0.30	0.075	0.14				
	H.W.E		2	2.00	0.60	0.08	0.18				
	Apron		1	2.00	1.08	0.075	0.16				
					Total		0.48	2642	1260.23	316.00	150.73
	GRAND TOTAL								**30448.13**		**9593.50**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk								**2202.67**		**2202.67**
									32650.80		**11796.17**
						Says Rs.					**11796**
	METARIAL								**20854.63**		
	LABOUR								**11796.17**		
				TOTAL					**32650.80**		
	GRAND TOTAL								**32651**		
	Add 3% Contingency Charges								**980**		
				TOTAL Rs.					**33630**		
				Say					**33700**		

MATERIAL CONSUMPTION STAEMENT

S.n	**Particular**		**Qty.**	**Cement**	**Sand**	**Aggregate**		**Stone**			
				Bags	**Cum**	**50mm**	**20mm**	**Cum**			
1	Cement concrete (1:4:8) 40 mm		4.46	14.28	2.01	4.02					
2	R R stone masonary (1:8) Foundation/ Super structure (cum)		10.69	11.4	3.21			11.8			
3	Cement plaster (1:4) 25 mm thick		19.38	4.34	0.62						
4	Raised &cut pointing										
5	Stone kharanja in cement mortar (1:6)		3.92	5.49	1.18			4.32			
6	Cement concrete coping in cement mortar 1:2:4. 50 mm thick		0.48	3.05	0.21	0.43					
7	Dry stone pitching										
			TOTAL	**38.6**	**7.23**	**4.45**		**16.1**			

SAY **39 BAGS** **1.93 MT**



MODEL ESTIMATE OF HORTICULTURE PLANTATION

Anar Plant

Total plant 400 No C/C 5mx5m

S.N	Details of work	Qty	Unit	Rate		Amount	
1	Excavation of earth work in hard soil for digging of pits, 0.75 x0.75 x0.90 = 0.5062cum As per item no.189 B page 17 of G.K.N.2012 BSR of Bhilwara circle	202.50	cum	91	91	18427.50	18427.50
2	Treatment of pits						
a	Through chemicals As per item no.144 page 14 of G.K.N.2012 BSR of Bhilwara circle	400.00	Per plant	0.55	0.55	220.00	220.00
b	Through mannure As per item no.145 page 14 of G.K.N.2012 BSR of Bhilwara circle	400.00	Per plant	0.27	0.27	108.00	108.00
2	Planting of plant with rehandling upto 100m,refilling of soil & compaction etc As per item no.153 page 15 of G.K.N.2012 BSR of Bhilwara circle	400.00	Per plant	7.40	7.40	2960.00	2960.00
3	Cost of Plant including transportation (16+2=18) As per item no.6 page Meterial cost of G.K.N.2012 BSR of Bhilwara circle	400.00	Per plant	0.00	18.00	0.00	7200.00
4	Making of thanwala,of 50 cm radious As per item no.151 page 14 of G.K.N.2012 BSR of Bhilwara circle	400.00	Per plant	2.40	2.40	960.00	960.00
5	Weeding & hoeing three times in the year (400x3x3=3600) As per item no.150 page 14 of G.K.N.2012 BSR of Bhilwara circle	3600.00	Per plant	1.20	1.20	4320.00	4320.00
6	Cost of Mannure including transportation As per iMarket Rate	400.00	Per Kg	0.50	2.00	200.00	800.00
7	Cost of Chemical including transportation As per iMarket Rate	400.00	Per plant	0.50	1.00	200.00	400.00
	Total					27395.50	35395.50
8	Gap filling 20%					5479.1	7079.10
	Total					**32874.60**	**42474.60**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk					**7548.01**	**7548.01**
						40422.61	**50022.61**
	Say Rs					**40423**	**50023**
	Contengency 3%						1501
	Grand total						**51523**

Labour Am 40423
Meterial Am 11101
Total Am 51523

MODEL ESTIMATE OF HORTICULTURE PLANTATION

Guava Plant

Total plant 277 No C/C 6mx6m

S.N	Details of work	Qty	Unit	Rate		Amount	
				Lc	Total	Lc	Total
1	Excavation of earth work in hard soil for digging of pits, 0.75 x0.75 x0.90 = 0.5062cum As per item no.189 B page 17 of G.K.N.2012 BSR of Bhilwara circle	140.23	cum	91	91	12761	12761
2	Treatment of pits						
a	Through chemicals As per item no.144 page 14 of G.K.N.2012 BSR of Bhilwara circle	277	Per plant	0.55	0.55	152.35	152.35
b	Through mannure As per item no.145 page 14 of G.K.N.2012 BSR of Bhilwara circle	277	Per plant	0.27	0.27	74.79	74.79
3	Planting of plant with rehandling upto 100m,refilling of soil & compaction etc As per item no.153 page 15 of G.K.N.2012 BSR of Bhilwara circle	277	Per plant	7.40	7.40	2049.8	2049.80
4	Cost of Plant including transportation (14+2=16) As per item no.6 page Meterial cost of G.K.N.2012 BSR of Bhilwara circle	277	Per plant	0.00	16.00	0	4432.00
5	Making of thanwala,of 50 cm radious As per item no.151 page 14 of G.K.N.2012 BSR of Bhilwara circle	277	Per plant	2.40	2.40	664.8	664.80
6	Weeding & hoeing three times in the year (277x3x3=2493)As per item no.150 page 14 of G.K.N.2012 BSR of Bhilwara circle	2493	Per plant	1.20	1.20	2991.6	2991.60
7	Cost of Mannure including transportation As per iMarket Rate	277	Per Kg	0.50	2.00	138.5	554.00
8	Cost of Chemical including transportation As per iMarket Rate	277	Per plant	0.25	1.00	69.25	277.00
	Total					18902.13	23957.38
9	Gap filling 20%					3780.427	4791.48
	Total					**22682.56**	**28748.86**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk					**5207.92**	**5207.92**
						27890.48	**33956.78**
	Say					27890	33957
	Contengency 3%						1019
	Grand total						**34975**

Labour Am **27890**
Meterial Am **7085**
Total Am **34975**

MODEL ESTIMATE OF HORTICULTURE PLANTATION

Nimbu Plant

Total plant 277 No C/C 6mx6m

S.N	Details of work	Qty	Unit	Rate		Amount	
				Lc	Total	Lc	Total
1	Excavation of earth work in hard soil for digging of pits, 0.75 x0.75 x0.90 = 0.5062cum As per item no.189 B page 17 of G.K.N.2012 BSR of Bhilwara circle	140.23	cum	91.00	91.00	12761.04	12761.04
2	Treatment of pits						
a	Through chemicals As per item no.144 page 14 of G.K.N.2012 BSR of Bhilwara circle	277	Per plant	0.55	0.55	152.35	152.35
b	Through mannure As per item no.145 page 14 of G.K.N.2012 BSR of Bhilwara circle	277	Per plant	0.27	0.27	74.79	74.79
3	Planting of plant with rehandling upto 100m,refilling of soil & compaction etc As per item no.153 page 15 of G.K.N.2012 BSR of Bhilwara circle	277	Per plant	7.40	7.40	2049.80	2049.80
4	Cost of Plant including transportation (7+2=9) As per item no.6 page Meterial cost of G.K.N.2012 BSR of Bhilwara circle	277	Per plant	0.00	9.00	0.00	2493.00
5	Making of thanwala,of 50 cm radious As per item no.151 page 14 of G.K.N.2012 BSR of Bhilwara circle	277	Per plant	2.40	2.40	664.80	664.80
6	Weeding & hoeing three times in the year (156x3x3=1404) As per item no.150 page 14 of G.K.N.2012 BSR of Bhilwara circle	2493	Per plant	1.20	1.20	2991.60	2991.60
7	Cost of Mannure including transportation As per iMarket Rate	277	Per Kg	0.50	2.00	138.50	554.00
8	Cost of Chemical including transportation As per iMarket Rate	277	Per plant	0.50	1.00	138.50	277.00
	Total					18971.38	22018.38
9	Gap filling 20%					3794.2768	4403.68
	Total					**22765.66**	**26422.06**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk					**5227.00**	**5227.00**
						27992.66	**31649.06**
	Say Rs					27993	31649
	Contengency 3%						949
	Grand total						**32599**

Labour Am 27993
Meterial Am 4606
Total Am 32599

MODEL ESTIMATE OF HORTICULTURE PLANTATION

Orange Plantation Production

Total plant 277 No C/C 6mx6m

S.N	Details of work	Qty	Unit	Rate		Amount	
				Lc	Total	Lc	Total
1	Excavation of earth work in hard soil for digging of pits, 0.75 x0.75 x0.90 = 0.5062cum As per item no.189 B page 17 of G.K.N.2012 BSR of Bhilwara circle	140.23	cum	91.00	91.00	12761.04	12761.04
2	Treatment of pits						
a	Through chemicals As per item no.144 page 14 of G.K.N.2012 BSR of Bhilwara circle	277.00	Per plant	0.55	0.55	152.35	152.35
b	Through mannure As per item no.145 page 14 of G.K.N.2012 BSR of Bhilwara circle	277.00	Per plant	0.27	0.27	74.79	74.79
3	Planting of plant with rehandling upto 100m,refilling of soil & compaction etc As per item no.153 page 15 of G.K.N.2012 BSR of Bhilwara circle	277.00	Per plant	7.40	7.40	2049.80	2049.80
4	Cost of Plant including transportation (16+2=18) As per item no.6 page Meterial cost of G.K.N.2012 BSR of Bhilwara circle	277.00	Per plant	0.00	18.00	0.00	4986.00
5	Making of thanwala,of 50 cm radious As per item no.151 page 14 of G.K.N.2012 BSR of Bhilwara circle	277.00	Per plant	2.40	2.40	664.80	664.80
6	Weeding & hoeing three times in the year (277x3x3=2493) As per item no.150 page 14 of G.K.N.2012 BSR of Bhilwara circle	2493.00	Per plant	1.20	1.20	2991.60	2991.60
7	Cost of Mannure including transportation As per iMarket Rate	277.00	Per Kg	0.50	2.00	138.50	554.00
8	Cost of Chemical including transportation As per iMarket Rate	277.00	Per plant	0.50	1.00	138.50	277.00
	Total					18971.38	24511.38
9	Gap filling 20%					3794.277	4902.28
	Total					**22765.66**	**29413.66**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk					**5227.00**	**5227.00**
						27992.66	**34640.66**
	Say Rs					27993	34641
	Contengency 3%						1039
	Grand total						**35680**

Labour Am	**27993**
Meterial Am	**7687**
Total Am	**35680**

MODEL ESTIMATE OF ALOVERA PLANTATION							
	District - Bhilwara, State - Rajasthan, India						
	Name of work:-	Aloevera plantation					
	No of plants:-	150			Spacing		0.6
				Rate		Amount	
S.no.	**Item**	**Quantity**	**Unit**	**Lc**	**Total**	**Lc**	**Total**
	Aloevera plantation						
1	Cost of Aloevera Plant Including Transporting,Loading & unloading.(3.75+0.94+0.297+0.3715 =5.36)	150	Per Plant	0	5.36	0.00	804.00
2	Plantation work of plant 150X0.6=90Rmt	90	Per Rmt	9.97	9.97	897.30	897.30
	Total					897.30	**1701.30**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk					206.02	**206.02**
						1103.32	1907.32
	Add. 0.03% Contengency charge						57
	Total Amount						1965

Labour Am	897
Meterial Am	1067
Total Am	**1965 Per Ha**

MODEL ESTIMATE OF AGRO FORESTY							
	District - Bhilwara, State - Rajasthan, India						
							W/S
	Name of work:-	Karonda fencing					
	No of plants:-	150		Spacing			2 m
				Rate		Amount	
S.no	**Item**	**Quantity**	**Unit**	**Lc**	**Total**	**Lc**	**Total**
	Karonda Fencing						
1	E/w Excavation for pit in hard soil in top of bund + 10% extra for different position	150	No	7.48	7.48	1122.00	1122.00
2	Cost of Karonda Plant Including Transporting,Loading & unloading. (6+2=8)	150	Per Plant	0	8.00	0.00	1200.00
3	Plantation work of plant	150	Per Plant	7.4	7.40	1110.00	1110.00
4	**Watering Charges (three year) 3x5=15Nox150=2250 Nox15=33750**						
A	Cost of water including Transporting	33750	4000 Per Litre	0	450.00	0.00	3796.88
B	Watering charges (150X3X5=2250)	2250	Per Plant	1.85	1.85	4162.50	4162.50
5	**Treatment of pit**						
A	Cost of FYM	150	Per Plant	0	2.00	0.00	300.00
B	Cost of Clorophyropas Powder	150	Per Plant	0	0.50	0.00	75.00
C	Cost of Clorophyropas 2ml per plant	0.30	Per Litre	0	280.00	0.00	84.00
D	Labour charge for treatment (0.55+0.27=0.82)	150	Per Plant	0.82	0.82	123.00	123.00
6	Weeding & Hoeing of plant in three year 2x3=6No x150 =900	900	Per Plant	1.2	1.20	1080.00	1080.00
	Total					7597.50	13053.38
7	Gap filling 20%					1519.50	2610.68
	Total					**9117.00**	**15664.05**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk					**2093.26**	**2093.26**
	;kx					**11210.26**	**17757.31**
	Say Rs					**11210**	**17757**
	Aloevera plantation						
8	Cost of Aloevera Plant Including Transporting,Loading & unloading.	150	Per Plant	0	5.36	0.00	804.00
9	Plantation work of plant (1 m X 1m)	150	Per Rmt	9.97	9.97	1495.50	1495.50
	Total					1495.50	**2299.50**
	Grand Total					12705.8	**20056.81**
	Say Rs					12706	**20057**
	Add. 0.03% Contengency charge						602
	Total Amount						20659

Labour Am	12706
Meterial Am	7953
Total Am	**20659 Per Ha**

MODEL ESTIMATE

Name of work :-Bank Stabilization through construction of earthen bund

Height	0.80	mt.
Bottom width	2.90	mt.
Top width	0.50	mt.
X-Section	1.36	sqm.

Estimate For 100 M Length

S.N.	Item	Unit	Quantity	Rate (Rs./unit)		Amount	Rs.
				Lab.	total	Lab.	total
1	Jungal clearance by cutting						
	ordinary vegetation and bushes						
	(As per BSR 2011 , page no 10, item no 95)						
		sqm	400.00	1.36	1.36	544.00	544.00
2	Dag balling work	sqm	400.00	1.00	1.00	400.00	400.00
	(As per BSR 2011 , page no 14, item no 156)						
3	Earth work for bund /embankment						
	in dry or moist soil including						
	laying in layers of 15cms. Break-						
	ing of clods,sorting of grass,						
	pebbles etc.and dressing in						
	requried profile with manual						
	compaction in hard soil. (As per						
	BSR 2011 , page no 17, item no						
	188 b) (0.50+2.00)/2*0.75	cum	136.000	85.00	85.00	11560.00	11560.00
4	Vegetative measures		L-S			350	350.00
				Total		***12454.00***	**12454.00**
	Add.22.96% in Rising Labour Rate					***2859.44***	**2859.44**
						15313.44	**15313.44**
	Add 3% Contingency						459.40
				Total Am.			***15772.84***
	Total Amount	**15772.84**			**Say**		**15800.00**
	Labour Componant	**15313.44**			**OR**		**158/-Per M**
	Material Componant	**459.40**					

DESIGN OF SEMI PUCCA BUND

Block - A

$$\text{Slope} = \frac{\text{Elevation difference}}{\text{Horizental length}} \times 100$$

$$S = \frac{24}{1750} \times 100$$

$$S = 1.37\ \%$$

$$V.I = \left| \frac{S}{3} + 2 \right| \times 0.3$$

V.I = 0.74 m H.I = 55 m

$$\text{Height of bund} = \sqrt{\frac{Re \times V.I}{50}}$$

Re = 10 cm

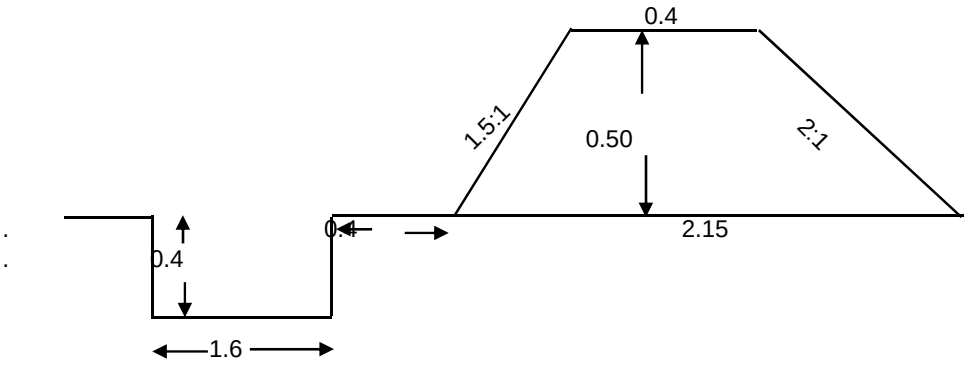
V. I =0.74 m

H = 0.38 m SAY 0.40 m ,
Free board = 0.35 m
Total height = 0.75 m

Block B & C

Total height = 0.75 m

MODEL ESTIMATE OF ARABLE LAND (SEMI PUCCA BUND)							
A	Cross section of bund-	0.64	Sqm		Top Width		0.4
B	Length -	100	Rmt		Bottom Width		2.15
					Height		0.5
S.no.	**Item**	**Quantity**	**Unit**	**Labour Rate**	**Total Rate**	**Labour Amount**	**Total Amount**
1	Dug belling work up to 5-7 cm depth 4x100=400m As per item no.156 page 15 of G.K.N.2012 BSR of Bhilwara circle	400	Rm	1	1	400	400
2	Earth work in hard soil for construction of bund including ramming compaction and dressing up to the lead of 50m and lift 1.5 m 0.64x100=64 cum As per item no.188B page 17 of G.K.N.2012 BSR of Bhilwara circle	64	Cum	85	85	5440	5440
	Total					**5840.00**	**5840.00**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrjDr tkMuk					**1340.86**	**1340.86**
						7180.86	**7180.86**
	Say Rs					**7181**	**7181**
		Contingency @ 3%					215
		Grand Total					**7396**
		Say am			**7400**		
		Per Rmt	**74/-**				
	Avarage length per Rm/Ha = 122 Rm	**Per Ha Cost**		9028			
		Say am	**0.090**				



DESIGN OF SEMI PUCCA BUND

Block - A

$$\text{Slope} = \frac{\text{Elevation difference}}{\text{Horizental length}} \times 100$$

$$S = \frac{24}{1750} \times 100$$

$$S = 1.37\ \%$$

$$V.I = \left| \frac{S}{3} + 2 \right| \times 0.3$$

V.I = 0.74 m H.I = 55 m

$$\text{Height of bund} = \sqrt{\frac{Re \times V.I}{50}}$$

Re = 10 cm

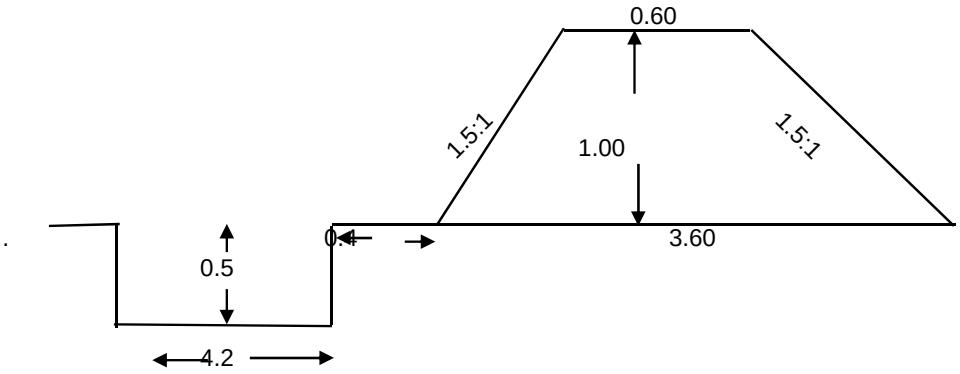
V. I =0.74 m

H = 0.38 m SAY 0.40 m ,
Free board = 0.35 m
Total height = 0.75 m

Block B & C

Total height = 0.75 m

MODEL ESTIMATE OF ARABLE LAND (SEMI PUCCA BUND)							
A	Cross section of bund-	2.1	Sqm		Top Width		0.60
B	Length -	100	Rmt		Bottom Width		3.60
					Height		1.00
S.no.	**Item**	**Quantity**	**Unit**	**Labour Rate**	**Total Rate**	**Labour Amount**	**Total Amount**
1	Dug belling work up to 5-7 cm depth 4x100=400m As per item no.156 page 15 of G.K.N.2012 BSR of Bhilwara circle	400	Rm	1	1	400	400
2	Earth work in hard soil for construction of bund including ramming compaction and dressing up to the lead of 50m and lift 1.5 m 0.64x100=64 cum As per item no.188B page 17 of G.K.N.2012 BSR of Bhilwara circle	210	Cum	85	85	17850	17850
	Total					**18250.00**	**18250.00**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrjDr tkMuk					**4190.20**	**4190.20**
						22440.20	**22440.20**
	Say Rs					**22440**	**22440**
		Contingency @ 3%					673
		Grand Total					**23113**
		Say am			**23113**		
		Per Rmt	**231/-**				
	Avarage length per Rm/Ha = 120 Rm	**Per Ha Cost**		27720			
		Say am	**0.277**				



4.2

fuek.k dk; gr foLrr ykxr&rdehuk ipk;r lfefr & tgktij

1-	dk; dk Ukke& Qke ik.M fuek.k dk; xke& xke ipk;r&											
	in dh pkMkb 10 eh- & Äij dh pkMkb 20 eh- & xgjkb 2 ehVj							Location- 0				
2-	;ktuk dk uke&											
Ø-l-	dk; dk fooj.k	l0	in dk {k=Qy	Äij dk {k=Qy	vklr {k=Qy	xgjkb	ek=k	bdkb	nj		jkf'k	
									Je	dy	Je	;kx
1	uho] [kkb] ijukyk e 1-5 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 djukA it u 1 vkbVe u 2											
A-	l[r] fpduh] ddj feêh e 80 ifr- vklr	1	100	400	250	1.6	400	?ku eh-	91.00	91.00	36400.00	36400.00
B-	fo?kfVr pVVku @eje 20 ifr- vklr	1	100	400	250	0.4	100	?ku eh-	134.00	134.00	13400.00	13400.00
2	vfrfjDr fy¶V dk dk; it u 1 vkbVe u 3	1	100	156.25	128.125	0.5	64.06	?ku eh-	11.00	11.00	704.69	704.69
3	vfrfjDr yhM dk dk; it u 1 vkbVe u 4	1	100	400	250	1	250	?ku eh-	33.80	33.80	8450.00	8450.00
	Total									Total	58954.69	58954.69
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk										**13536**	**13536**
											72490.68	**72490.68**
	tkM 3 % dfUVu tlh											2174.72
										dy ;kx		74665
										SAY		74700
	ykxr Je en e											**59000**
	ykxr lkexh en e											**15700**
	dy ;kx											**74700**

Abstract of Cost Kitchen Gardening

S. no.	Activity	Cost	Anexture
1	Operations Total		
1.1	Season 1	3450	1
1.2	Season 2	3150	2
1.3	Season 3	3450	3
2	Material Cost		
2.1	Season 1	8145.00	
2.2	Season 2	2575.00	
2.3	Season 3	3684.00	
1.3	Drip irrigation System	30000	4
	Total Project Cost	**54454**	

Cost of cultivation of tomato,chilli,onoin,Bhindi (0.1ha. model)

I Cost **June to September**

SI.NO.	Item of investment	Quantity/Unit		Rate /Kg.	Amount (Rs.)
A	**Operations**	**Mandays**			
1	Land prepartation & laying beds	**3**			450
2	Nuresery development	3			450
3	Transplantation cost	1			150
4	Application of FYM, organic fertilisers and pesticides	3			450
5	Weeding and intercultural operation	5			750
6	Harvesting	5			750
7	Grading, packing/crating, labelling	3			450
	Total Operational cost	23			3450
B	**Materials**				
1	Planting material				200
	Tometo (0.02 ha.)	0.005	kg.	20000	100
	Bhindi (0.03 ha.)	0.3	kg.	800	240
	Chilli (0.02 ha.)	0.006	kg.	30000	180
	Onion (0.03 ha.)	0.3	kg.	15000	4500
2	Farm Yard Manure	2.5	tonnes	1000	2500
3	Neem cake	4	kg		25
4	Azospirllum, Ryzobium,Potassium soulbilising bacteria	L.S			400
	Total material costs				**8145**
	Total cost (A+B)				**11595**

Cost of cultivatio of Pea,Carrot,Cabbage (0.1ha. model)

I Cost **October to January**

SI.NO.	Item of investment	Quantity/Unit		Rate /Kg.	Amount (Rs.)
A	**Operations**	**Mandays**			
1	Land prepartation & laying beds	**3**			450
2	Nuresery development	2			300
3	Transplantation cost	1			150
4	Application of FYM, organic fertilisers and pesticides	3			450
5	Weeding and intercultural operation	5			750
6	Harvesting	4			600
7	Grading, packing/crating, labelling	3			450
	Total Operational cost	21			3150
B	**Materials**				
1	Planting material	50	g		200
	Pea (0.03 ha.)	3	kg.	60	180
	Carrot (0.05 ha.)	0.3	kg.	400	120
	Cabbage (0.02 ha.)	0.01	kg.	15000	150
2	Farm Yard Manure	2.5	tonnes		1500
3	Neem cake	4	kg		25
4	Azospirllum, Ryzobium,Potassium soulbilising bacteria	L.S			400
	Total material costs				**2575**
	Total cost (A+B)				**5725**

Cost of cultivation of Bhindi,Coriander,Tinda (0.1ha. model)

I Cost **Feb.to may**

Sl.NO.	**Item of investment**	**Quantity/Unit**		Rate /Kg.	**Amount (Rs.)**
A	**Operations**	**Mandays**			
1	Land prepartation & laying beds	**3**			450
2	Nuresery development	3			450
3	Transplantation cost	1			150
4	Application of FYM, organic fertilisers and pesticides	3			450
5	Weeding and intercultural operation	5			750
6	Harvesting	5			750
7	Grading, packing/crating, labelling	3			450
	Total Operational cost	23			**3450**
B	**Materials**				
1	Planting material				200
	Bhindi (0.05 ha.)	0.5	kg.	800	400
	Corinder (0.03 ha.)	0.36	kg.	400	144
	Tinda (0.02 ha.)	0.05	kg.	300	15
2	Farm Yard Manure	2.5	tonnes	1000	2500
3	Neem cake	4	kg		25
4	Azospirllum, Ryzobium,Potassium soulbilising bacteria	L.S			400
	Total material costs				**3684**
	Total cost (A+B)				**7134**

Estimate cost of Drip irrigation system on 0.1 ha plot of

	(PLANTING SPACE 1 X 0.3 Mtrs)				
	Cost Estimate				
	item	**Quantity**	Unit	**Rate (Rs./m) LS**	**Cost (Rs.)**
1	Main line PVCrigid pipe ISIMark 4kg./cm. 63 mm dia	50	R.M..	61.5	3075
2	Lateral 16 mm online dia	50	R.M..	10	500
3	16 mm Emiting pipes 2 lph	1000	Mtrs	13	13000
4	Lateral Connectors	50		2	100
5	End Connector at Laterals	50		2	100
6	Tees end - plug	50	No.	2	100
7	Joints regulatore etc	50	No.	2	100
8	Rubber Grommet	50	No.	2	100
9	GI Manifold	1	No.	500	500
10	PVC Tank 500 Liters	1		1575	1575
11	accessories miscellaneous				1000
12	Installation chages for drip	1	No.	1200	1200
13	Zero energy Pumpset including all assisries	1	No.	6000	6000
14	Stand for plastic tank 10 fit height	1	No.	1500	1500
15	Miscellenious				1150
		Total			**30000**

MODEL ESTIMATE OF OPEN CONTOUR TRENCH

Name of Work :- Continious contour trench

	Jal Grahan Vikash Samiti						
Costing & Quantity Estimation of Contour trench							
Total length of CCT per ha =300 rm/ha							
CX= 0.2025 Cum							W/S
	Total Area in Ha	1					
S. No.	**Item**	**Quantity**	**Unit**	**Rate**		**Amount**	
				Lc	**Total**	**Lc**	**Total**
1	Marking of contour line through dumpy level	300	Per metre	0.31	0.31	93.00	93.00
2	Dug belling work for CCT up to 5-7 cm depth (As per BSR2011, P.no. 14, item no. 155a) (2X300=600)	600	Rm	1.00	1.00	600.00	600.00
	Quantity of E/W (300Rmt X 0.2025=60.75 cum)	60.75	Cum			0.00	0.00
3	Excavation of hard soil for CCT as per BSR2012 40%	24.3	Cum	85.00	85.00	2065.50	2065.50
4	Excavation of murram for CCT as per BSR2012 60%	36.45	Cum	91.00	91.00	3316.95	3316.95
5	Sowing of local grass seed on bunds As per BSR2012 (3X300=900)	900	Rm	0.59	0.59	531.00	531.00
6	Grass seed					0.00	0.00
A	Spreeding of Grass seed	1	Ha	160	160	160.00	160.00
B	Making of pallets	12	Kg	18.9	18.9	226.80	226.80
C	Dhaman	12	Kg	0	83	0.00	996.00
	Total cost for CCT					**6993.25**	**7989.25**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr					**1605.65**	**1605.65**
						8598.90	**9594.90**
	Contengency charge 3%						**287.85**
							9882.75
	SAY Amount		**9900 Per Ha**				

	Name of Work :- Pasture Land Development				**(NRM) JAHAJPUR**		
	Costing & Quantity Estimation of Pasture Land Development						
1.00	Ha. Area for trenching, Size of trench	0.45	mt. Depth		0.45		mt. Width
33.3	Mt. Contour to contour intervals	0.2025	Sqm cross section area of trench				
80	MM / Hr. Rainfall intensity of area						0.002
296	Mt. trenching length required in one hectare of la	Say CCT/ha.	300.00				
60	Rmt. Length of Ditch cum bund fencing per ha.						
278	Plants to be planted in one hectare	Say	300		36.00	2.5 x 2.5 mt. Spacing	
1.20	Mt. Depth of cattle protection trench,	Top width	1.5		Bottom width		0.9
1.44	Sqm cross section area of DCB	60.00	mt. Length of Ditch cum bund fencing per ha.				Total C P
S.no	**Particular**	**Unit**	**Quantity**	**Labour Rate**	**Total Rate**	**Labour Cost**	**Total Amount**
(A)	**Ditch cum bund**						
1	Dug belling work up to 5 to 7 cm depth. (4X60=240)	Rmt.	240	1.00	1.00	240	240.00
2	Excavation of Ditch cum bund fencing	Cum	86.4				
3	Hard Soil 40% (60X1.44X0.4=34.56)	Cum	34.56	91	91	3144.96	3144.96
4	Ordinary Murram 30% (60X1.44X0.3=25.92)	Cum	25.92	99	99	2566.08	2566.08
5	Disintric Rock 30% (60X1.44X0.3=25.92)	Cum	25.92	134	134	3473.28	3473.28
(B)	**Thor fencing work**						
6	Excavation for thor fencing size 0.15x0.15x60 m	Cum	1.35	91	91	122.85	122.85
(C)	**Counter Trench**						
7	Layout (by A-farm or dumpy level) for contouring.	Rmt.	300	0.31	0.31	93	93.00
8	Dug belling work up to 5 to 7 cm depth for contouring. (2X300=600)	Rmt.	600	1.00	1.00	600	600.00
40%	Contour trench Excavation in 40 % Hard soil for trenching. (1X300X0.2025X0.40=24.30)	Cum	24.3	91	91.00	2211.3	2211.30
60%	Contour trench Excavation in 60 % Ordinary Murram for trenching. (1X300X0.2025X0.60=36.45)	Cum	36.45	99	99.00	3608.55	3608.55
(D)	**Pits Work**						
40%	Pit digging in hard soil of size 45x45x45 Cm.	Per pit	120	7.48	7.48	897.6	897.60
60%	Pit digging in moorm soil of size 45x45x45 Cm.	Per pit	180	14.74	14.74	2653.2	2653.20
9	Ring making of 1.0 Mt. Radius & 30 Cm. width X 20 Cm. Depth.	Per plant	300	2.40	2.40	720	720.00
	Note:- All Rates Apply Gramin kary Nirdesika 2011				**Total**	**Rs.20,331**	**Rs.20,331**
	Total					**Rs.20,331**	**20331**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk					**Rs.4,668**	**4668**
						Rs.24,999	**Rs.24,999**
	Contengency 3%						**750**
	Total Amount						**25749**

MODEL ESTIMATE OF PASTURE LAND DOVELOPMENT WORK

	Name of Work :- Pasture Land Development				(Production)		W/S
	Costing & Quantity Estimation of Pasture Land Development						
1	Ha. Area for P.D,					**JAHAJPUR**	
60	Rmt. Length of Ditch cum bund fencing per ha.						
277.8	Plants to be planted in one hectare	Say	300		36.00	6 x 6 mt. Spacing	
S.no	**Particular**	**Unit**	**Quantity**	**Labour Rate**	**Total Rate**	**Labour Cost**	**Total Amount**
(A)	**Thor fencing work**						
1	Supply and cutting of 80 cm thor sticks. (7N0 Danda /-Ha)	Per 100 stick	420	74.3	174	312.06	730.80
2	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading.	Per 100 stick	420	100	100	420	420.00
3	Rehandling work of thor sticks up to 200 to 500mt distance.	Per 100 stick	420	76.5	76.5	321.3	321.30
4	Planting of Thor sticks.	Rmt.	60	6.93	6.93	415.8	415.80
(B)	**Plantation work**						
5	Treatment of pit by FYM & cloropairyphose Powder (25gm per pit)	Per pit	300	0.82	0.82	246	246.00
6	Cost of cloropairyphose Powder (As per market Rate)	Per Kg	7.50	0.00	32.00	0	240.00
7	Cost of cloropairyphose 0.3x0.6=1.8 lit	Per litre	1.80	0.00	280.00	0	504.00
8	Cost of FYM	Per Kg	300.00	0.00	2.00	0	600.00
9	Cost of saplings	Per plant	300	0	5.00	0	1500.00
10	Transportation Cost of saplings from 10 km distance.	Per 1000 Plant	0.3	196	1444.00	58.8	433.20
11	Planting of plant with Rehandling work 100m distance, mixing of soil with FYM,cloropairyphose Powder & filling of pit.cutting of polythine bag & planting with doing compact soil.	Per pit	300	7.40	7.40	2220	2220.00
12	Planting of Aloevera plant on top of contour trench 0.60m spacing with complete work.600x0.6=360 Rmt	Per Rmt	360	9.97	9.97	3589.2	3589.20
13	Cost of Aloevera including transport 10 Km + Loading Unloading + Rehandling 50%(3.75+0.94+0.297+0.3715=5.36)	Per plant	600	0	5.36	0	3216.00

14	Watering to the plant with 15 liters per plant for first year three times,second year five times & third year five times with mixing cloropairyphose.(2ml per pit) (300X13=3900)	Per plant	3900	1.85	1.85	7215	7215.00
15	Transportation Cost of water up to 5 km distance.(300X13X15=58500)	Per 4000 Litre	58500.00	0	450.00	0	6581.25
16	Weeding & Hoeing (300X2X3=1800)	Per plant	1800	1.20	1.20	2160	2160.00
17	Ploughing by tractor cultivator and grass seed broadcasting (seed rate 6 to 8 kgs/ha) cost of seed not included	Ha.	0.80	284.00	958.00	227.2	766.40
18	*Grass seed As per forest BSR 2004-2005 page no-12.*						
100%	Dhaman	Kg.	12	0	82.00	0	984.00
19	Making pallets of mixture of fine soil, grass seed, manure etc (seed rate 6 to 8 kgs/ha) cost of seed not included	Kg.	12.00	18.90	18.90	226.8	226.80
20	Sowing of grass seed pallets on bunds in two rows.	Rmt.	720	0.59	0.59	424.8	424.80
21	Sowing of tree seed on ridges.	Rmt.	300.00	0.59	0.59	177	177.00
22	Sowing of tree seed on bund (Desi Babool,neem & jetropha).	Rmt.	180	0.59	0.59	106.2	106.20
23	*Tree seed As per forest BSR 2004-2005 page no-12.*						
	Deshibabool	Kg.	0.40	0.00	18.00	0	7.20
	Kher	Kg.	0.40	0.00	19.00	0	7.60
	Neem	Kg.	0.40	0.00	39.00	0	15.60
	Kumath	Kg.	0.40	0.00	33.00	0	13.20
24	One man chokidar for three year (within 25 Ha)	No	43.80	135.00	135.00	5913	5913.00
25	Gap filling in Second year (20%)					3097.8	4985.73
	Note:- All Rates Apply Gramin kary Nirdesika 2011				**Total**	**Rs.27,131**	**Rs.44,020**
						Rs.27,131	**Rs.44,020**
					Total	**Rs.27,131**	**44020.08**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk					**Rs.6,229**	**6229.27**
						Rs.33,360	**Rs.50,249**
	Add.3% Contengency						1507.48
	Grand Total						**51756.83**

Total Cost/ Ha	**Labour Cost/ Ha**	**Material Cost/ Ha**
51757	33360	18397

Total Cost of Pasture Dovelopment	77506
NRM Part	25749
Production	51757

Panchayat samity----------, District - Bhilwara, State - Rajasthan,

	Name of Village :-						
	Name of Panchayat :-					**ALOEVERA**	
	Name of Work :- Pasture Land Development					**(Production)**	
	Costing & Quantity Estimation of Pasture Land Development						
1	Ha. Area for P.D,						
400	Rmt. Length of Thore fencing per ha.						
400	Plants to be planted in one hectare	Say	400			1.0 x 1.0 mt. Spacing	
S.no	**Particular**	**Unit**	**Quantity**	**Labour Rate**	**Total Rate**	**Labour Cost**	**Total Amount**
(A)	**Thor fencing work**						
1	Excavation for thor fencing size 0.15x0.15x60 m	Cum	9.00	91	91	819.00	819.00
2	Supply and cutting of 80 cm thor sticks.(7 No Danda /-Ha)	Per 100 stick	2800	74.3	174	2080.4	4872.00
3	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading. (70+30=100)	Per 100 stick	2800	100	100	2800	2800.00
4	Rehandling work of thor sticks up to 200 to 500mt distance.	Per 100 stick	2800	76.5	76.5	2142	2142.00
5	Planting of Thor sticks.	Rmt.	400	6.93	6.93	2772	2772.00
	Total					**10613.40**	**13405.00**
(B)	**Plantation work**						
6	Planting of Aloevera plant on Boundary of field & (0.6mx0.6m) spacing with complete work (400x0.6=240 Rmt)	Per Rmt	240	9.97	9.97	2392.8	2392.8
7	Cost of Aloevera Including Transportation 10 Km + Loading Unloading + Rehandling 50 %(3.75+0.94+0.297+0.3715=5.36)	Per plant	400	1	5.36	400	2144.00
8	Grass Seeding work (Dhaman Seed)12 kg/-Ha	Per Kg	12	0	50.00	0	600.00
9	Making of Pallets	Per Kg	12	18.9	18.90	226.8	226.80
10	Spreeding of Grass Seed	Per Ha	1	160	160.00	160	160.00
	Note:- All Rates Apply Gramin kary Nirdesika 2012				**Total**	**Rs.3,180**	**Rs.5,524**
						Rs.3,180	**Rs.5,524**
					Total	**Rs.3,180**	**5523.60**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk					**Rs.730**	**730.04**
						Rs.3,910	**Rs.6,254**
	Add.3% Contengency						187.61
	Grand Total						**6441.25**

	Total Cost/ Ha	**Labour Cost/ Ha**	**Material Cost/ Ha**
	6441	3910	2532

Total Cost of Private Pasture Dovelopment	**19846**
Cost From w/s scheme	**6441**
Contribution From Farmer in terms of live fencing	**13405**

Panchayat samity----------, District - Bhilwara, State - Rajasthan,

	Name of Village :-						
	Name of Panchayat :-						**Private Pasture MNREGS**
	Name of Work :- Pasture Land Development						**Jaivik Bad(Production)**
	Costing & Quantity Estimation of Pasture Land Development						
1	Ha. Area for P.D,						
400	Rmt. Length of Thore fencing per ha.						
400	Plants to be planted in one hectare	Say	400			1.0 x 1.0 mt. Spacing	
S.no	**Particular**	**Unit**	**Quantity**	**Labour Rate**	**Total Rate**	**Labour Cost**	**Total Amount**
(A)	**Thor fencing work**						
1	Excavation for thor fencing size 0.15x0.15x60 m	Cum	9.00	0.88	0.88	7.92	7.92
2	Supply and cutting of 80 cm thor sticks.(7 No Danda /-Ha)	Per 100 stick	2800	65.5	165	1834	4620.00
3	Transportation cost of thor sticks through bullock cart from 5 km distance, loading & unloading. (70+30=100)	Per 100 stick	2800	25.3	96.5	708.4	2702.00
4	Rehandling work of thor sticks up to 200 to 500mt distance.	Per 100 stick	2800	65.5	67.4	1834	1887.20
5	Planting of Thor sticks.	Rmt.	400	6.93	6.93	2772	2772.00
	Total					**7156.32**	**11989.12**
	Je Hkkx e 30 % VkLd dh deh d dkj.k vfrjDr tkMuk					3066.48312	3066.48
	;kx					**10223**	**15055.60**
	tkM 3 % ikuh okyk vk;k					306.68	306.68
	;kx					**10529**	**15362.29**
	tkM 2 % dfUVu tlh						307.25
	dy ;kx						15670
	SAY						15700
					ykxr Je en e		**10530**
					ykxr lkexh en e		**5170**
					dy ;kx		**15700**

MODEL ESTIMATE OF PRIVATE PASTURE LAND DOVELOPMENT WORK							
	Name of Work :- Indivisual Farmer Land Development Work					ALOEVERA NRM	
1	Ha. Area for P.D,						
400	Rmt. Length of Thore fencing per ha.						
400	Plants to be planted in one hectare	Say	400			1.0 x 1.0 mt. Spacing	
(A)	**Plantation work**	**Unit**	**Quantity**	**Labour**	**Total**	**Labour**	**Total**
1	Planting of Aloevera plant on Boundary of field & (0.6mx0.6m) spacing with complete work (400x0.6=240 Rmt)	Per Rmt	240	9.97	9.97	2392.8	2392.8
2	Cost of Aloevera Including Transportation 10 Km + Loading Unloading + Rehandling 50 %(3.75+0.94+0.297+0.3715=5.36)	Per plant	400	1	5.36	400	2144.00
3	Grass Seeding work (Dhaman Seed)12 kg/-Ha	Per Kg	12	0	82.00	0	984.00
4	Making of Pallets	Per Kg	12	18.9	18.90	226.8	226.80
5	Spreeding of Grass Seed	Per Ha	1	160	160.00	160	160.00
	Note:- All Rates Apply Gramin kary Nirdesika 2012				**Total**	**Rs.3,180**	**Rs.5,908**
						Rs.3,180	**Rs.5,908**
					Total	**Rs.3,180**	**5907.60**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk					**Rs.730**	**730.04**
						Rs.3,910	**Rs.6,638**
	Add.3% Contengencey						199.13
	Grand Total						**6836.77**

	Total Cost/ Ha	**Labour Cost/ Ha**	**Material Cost/ Ha**
	6837	3910	2927
Total Cost of Private Pasture Dovelopment	**6837**		
Cost From w/s scheme	**6837**		

ESTIMATE OF ROAD SIDE PLANTATION WORK

iFke o"k l/kkj.k

d-l-	fooj.k	bdkb	ek=k	nj		jk'kh	
				Je	dy	Je	dy jk'kh
1	dBkj feVVh e [kMMk [knkb dk; 0-60 * 0.60 *0.60=0.216 CumX200 No =43.20 Cum	Per Cum	43.20	73.8	81	3188.16	3499.2
2	dBkj feVVh e fjx [knkb dk;	Per Cum	118.69	73.8	81	8759.322	9613.89
3	xMMk e Hkju gr ckgj l ihyh feVVh d; dj ifjogu e; xMMk e Hkjkb vkl ru 20 ifr'kr xMMk e 73.8+41.70=115.50 cum	Per Cum	8.64	73.8	115.5	637.632	997.92
4	ik/kk [kjhn ou foHkkx dh uljh l nk o"k dk ik/kk	ifr ik/kk	220	0	8	0.00	1760.00
5	ik/k ifjogu 20 fdeh- l vf/kd njh l	ifr ik/kk	220	172.6	2631	37.97	578.82
6	[kn g, xMMk dk dhVuk'kd nok l mipkjhr djuk A	ifr ik/kk	200	0.5	0.49	100.00	98.00
7	dhVuk'kd nok [kjhn dk;	ifr ik/kk	200	0.5	1	100.00	200.00
8	ik/kk dk jki.k	ifr ik/kk	200	3.2	3.2	640.00	640.00
9	ty lj{k.k gr Fkkoyk cukuk 50 leh- v/n0;kl eA	ifr Fkkoyk	200	2.1	2.1	420.00	420.00
10	ik/kk dk ikuh fiykuk 20 yhVj ifr ik/kk lkr ckjA 200X7=1400 No	ifr ik/kk ifr lkr ckj	1400	1.55	1.55	2170.00	2170.00
11	ikuh [kjhn e; ifjogu 200X7X20=28000 Lit.	ifr Vdj / 4000 lit	7	0	450	0.00	3150.00
12	o"kk fjr e ik/kk dh nk ckj funkb xMkb djuk (2*200=400 No)	ifr ik/kk	400	1.1	1.1	440.00	440.00
13	Fkkj Qflx dk; fjx d vUnj	Rmt	1507	18	30	27126.00	45210.00
14	ik/kd pkjk vkj rjQ 2 fe- ifjf/k dVhyh >kfM;k dh ckM yxkuk e;	ifr ik/kk	200	7.2	7.2	1440.00	1440.00
	dy jkf'k					**45059.09**	**70217.83**
	f}rh; o"k l/kkj.k						
d-l-	**fooj.k**	**bdkb**	**ek=k**	**nj**		**jk'kh**	
				Je	**dy**	**Je**	**dy jk'kh**
12	f}rh; o"k iuh jki.k gr 20% jkf'k iFke o"k d ;kx dh					6590.43	10729.20
13	ik/kk dh ifux djuk A	ifr ik/kk	200	1.348	1.35	269.60	270.00
14	o"kk fjr e ik/kk dh nk ckj funkb xMkb djuk (2*200=400 No)	ifr ik/kk	400	1.1	1.1	440.00	440.00
15	ik/kk dk ikuh fiykuk 20 yhVj ifr ik/kk lkr ckjA 200X7=1400 No	ifr ik/kk ifr lkr ckj	1400	1.55	1.55	2170.00	2170.00

16	ikuh [kjhn e; ifjogu 200X7X20=28000 Lit.	ifr Vdj / 4000 lit	7	0	450	0.00	3150.00
	dy jkf'k					**9470.03**	**16759.20**
	rrh; o"k l/kkj.k						
d-l-	**fooj.k**	**bdkb**	**ek=k**	**nj**		**jk'kh**	
				Je	**dy**	**Je**	**dy jk'kh**
17	ik/kk dh ifux djuk A	ifr ik/kk	200	1.348	1.35	269.60	270.00
18	o"kk fjr e ik/kk dh nk ckj funkb xMkb djuk (2*200=400 No)	ifr ik/kk	400	1.1	1.1	440.00	440.00
19	ik/kk dk ikuh fiykuk 20 yhVj ifr ik/kk lkr ckjA 200X7=1400 No	ifr ik/kk ifr lkr ckj	1400	1.55	1.55	2170.00	2170.00
20	ikuh [kjhn e; ifjogu 200X7X20=28000 Lit.	ifr Vdj / 4000 lit	7	0	450	0.00	3150.00
	dy jkf'k					**2879.60**	**6030.00**
	rhuk o"k dk dy ;kx					**57408.71**	**93007.03**

Total Cost/ Ha	**Labour Cost/ Ha**	**Material Cost/ Ha**		
			Labour cost	57409
			Add.30% reduction	24600
93007	**57409**	**35598**	Meterial	35598
			Add.3% water,Aaya	2460
			Total	**120067**
			Contengency 2%	2401
			Grand Total	**122468**

ESTIMATE OF ROAD SIDE PLANTATION WORK

iFke o"k l/kkj.k

d-l-	fooj.k	bdkb	ek=k	nj		jk'kh	
				Je	dy	Je	dy jk'kh
1	dBkj feVVh e [kMMk [knkb dk; 0-60 * 0.60 *0.60=0.216 CumX200 No =43.20 Cum	Per Cum	43.20	91	91	3931.2	3931.2
2	dBkj feVVh e fjx [knkb dk;	Per Cum	118.69	91	91	10800.79	10800.79
3	xMMk e Hkju gr ckgj l ihyh feVVh d; dj ifjogu e; xMMk e Hkjkb vkl ru 20 ifr'kr xMMk e 91+41.70=132.70 cum	Per Cum	8.64	91	132.7	786.24	1146.528
4	ik/kk [kjhn ou foHkkx dh uljh l nk o"k dk ik/kk	ifr ik/kk	220	0	8	0.00	1760.00
5	ik/k ifjogu 20 fdeh- l vf/kd njh l	ifr ik/kk	220	196	2654	43.12	583.88
6	[kn g, xMMk dk dhVuk'kd nok l mipkjhr djuk A	ifr ik/kk	200	0.55	0.55	110.00	110.00
7	dhVuk'kd nok [kjhn dk;	ifr ik/kk	200	0.5	1	100.00	200.00
8	ik/kk dk jki.k	ifr ik/kk	200	3.6	3.6	720.00	720.00
9	ty lj{k.k gr Fkkoyk cukuk 50 leh- v/n0;kl eA	ifr Fkkoyk	200	2.4	2.4	480.00	480.00
10	ik/kk dk ikuh fiykuk 20 yhVj ifr ik/kk lkr ckjA 200X7=1400 No	ifr ik/kk ifr lkr	1400	1.85	1.85	2590.00	2590.00
11	ikuh [kjhn e; ifjogu 200X7X20=28000 Lit.	ifr Vdj / 4000 lit	7	0	450	0.00	3150.00
12	o"kk fjr e ik/kk dh nk ckj funkb xMkb djuk (2*200=400 No)	ifr ik/kk	400	1.2	1.2	480.00	480.00
13	Fkkj Qflx dk; fjx d vUnj	Rmt	1507	24	31	36168.00	46717.00
14	ik/kd pkjk vkj rjQ 2 fe- ifjf/k dVhyh >kfM;k dh ckM yxkuk e;	ifr ik/kk	200	8.2	8.2	1640.00	1640.00
	dy jkf'k					**57849.35**	**74309.40**
	Contengency 3%						**2229.28**
	dy jkf'k iFke o"k						**76538.68**
	f}rh; o"k l/kkj.k						
d-l-	**fooj.k**	**bdkb**	**ek=k**	**nj**		**jk'kh**	
				Je	**dy**	**Je**	**dy jk'kh**
12	f}rh; o"k iuh jki.k gr 20% jkf'k iFke o"k d ;kx dh					8618.46	11188.42
13	ik/kk dh ifux djuk A	ifr ik/kk	200	1.53	1.53	306.00	306.00
14	o"kk fjr e ik/kk dh nk ckj funkb xMkb djuk (2*200=400 No)	ifr ik/kk	400	1.2	1.2	480.00	480.00

15	ik/kk dk ikuh fiykuk 20 yhVj ifr ik/kk lkr ckjA 200X7=1400 No	ifr ik/kk ifr lkr ckj	1400	1.85	1.85	2590.00	2590.00
16	ikuh [kjhn e; ifjogu 200X7X20=28000 Lit.	ifr Vdj / 4000 lit	7	0	450	0.00	3150.00
	dy jkf'k					**11994.46**	**17714.42**
	Contengency 3%						**531.43**
	dy jkf'k f}rh; o"k					**11994.46**	**18245.85**
	rrh; o"k l/kkj.k						
d-l-	**fooj.k**	**bdkb**	**ek=k**	**nj**		**jk'kh**	
				Je	**dy**	**Je**	**dy jk'kh**
17	ik/kk dh ifux djuk A	ifr ik/kk	200	1.53	1.53	306.00	306.00
18	o"kk fjr e ik/kk dh nk ckj funkb xMkb djuk (2*200=400 No)	ifr ik/kk	400	1.2	1.2	480.00	480.00
19	ik/kk dk ikuh fiykuk 20 yhVj ifr ik/kk lkr ckjA 200X7=1400 No	ifr ik/kk ifr lkr ckj	1400	1.85	1.85	2590.00	2590.00
20	ikuh [kjhn e; ifjogu 200X7X20=28000 Lit.	ifr Vdj / 4000 lit	7	0	450	0.00	3150.00
						3376.00	6526.00
	Contengency 3%						**195.78**
	dy jkf'k rrh; o"k					**3376.00**	**6721.78**
	rhuk o"kk dk dy ;kx					**73219.81**	**101506.31**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk					16811.27	16811.269
						90031.08	**118317.58**
	egk;kx						**118318**

Say Rs 1.19/-KM

MODEL ESTIMATE OF STEGERD CONTOUR TRENCH

Name of Work :- Stegerd contour trench

	Jal Grahan Vikash Samiti						
	Total No of Trench	75	No				
	Length of Trench	4	M				
	X-Section of trench	0.2025	Sqm				W/S
	Total Area	1	Ha				
	Total Quantity	60.75	Cum				

S. No.	Item	Quantity	Unit	Rate		Amount	
				Lc	Total	Lc	Total
1	Marking of contour line through dumpy level	300	Per metre	0.31	0.31	93.00	93.00
2	Dug belling work for CCT up to 5-7 cm depth (As per BSR2011, P.no. 14, item no. 155a) (2X300=600)	600	Rm	1.00	1.00	600.00	600.00
	Quantity of E/W (75X4X 0.2025=60.75 cum)	60.75	Cum			0.00	0.00
3	Excavation of hard soil for CCT as per BSR2012 40%	24.3	Cum	85.00	85.00	2065.50	2065.50
4	Excavation of murram for CCT as per BSR2012 60%	36.45	Cum	91.00	91.00	3316.95	3316.95
5	Sowing of local grass seed on bunds As per BSR2012 (3X300=900)	900	Rm	0.59	0.59	531.00	531.00
6	Grass seed					0.00	0.00
A	Spreeding of Grass seed	1	Ha	160	160	160.00	160.00
B	Making of pallets	12	Kg	18.9	18.9	226.80	226.80
C	Dhaman	12	Kg	0	83	0.00	996.00
	Total cost for CCT					**6993.25**	**7989.25**
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr					**1605.65**	**1605.65**
						8598.90	**9594.90**
	Contengency charge 3%						**287.85**
							9882.75
	SAY Amount		**9900 Per Ha**				

DETAILED ESTIMATE OF ONE DAYS TRAINING

Total Member 30

S.No	Activity	No of Trainees	Rates	Total Am (Rs)	Reference.	Remark
1	Daily Allowance for lodging / boarding for non-residential training within the district/state.	30	75/- per trainees/day	2250	Cir.No; 729-814. Dt 09.05.11 Dir. WDSC, Jaipur Item No 1	
2	Honorium of Resource person	30	250/- per lecture (2 Hr /lecture/day)	1000	Cir.No; 729-814. Dt 9.05.11 Dir. WDSC, Jaipur Item No 5	
3	POL (two days jeep Hire Charges)	30	500/- per day	1000	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 7	
4	Literature & stationary	30	50/- per trainees	1500	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 11	
5	Seating arrangement (tent,matting,chairs,etc)	30	750/-	750	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 10	
6	Miscellaneous charges	30	0	300	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 12	
7						
	TOTAL Am			**6800**		

DETAILED ESTIMATE OF TWO DAYS TRAINING

S.No	Activity	No of Trainees	Rates	Total Am (Rs)	Reference.	Remark
1	Daily Allowance for lodging / boarding for residential training within the district.	30	125/- per trainees/day	7500	Cir.No; 729-814. Dt 9.05.11 Dir. WDSC, Jaipur Item No 2	
2	Honorium of Resource person	30	250/- per lecture (2 Hr /lecture/day)	2000	Cir.No; 729-814. Dt 9.05.11 Dir. WDSC, Jaipur Item No 5	
3	POL (three days jeep Hire Charges)	30	500/- per day	1500	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 7	
4	One Day Bus Hire Charge for side visit within 300 km	30	0.42/-per km / member	3780		
5	Literature & stationary	30	100/- per trainees	3000	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 11	
6	Seating arrangement (tent,matting,chairs,etc)	30	1500/-	1500	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 10	
7	Miscellaneous charges	30	0	500	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 12	
8						
			TOTAL AM	**19780**		

DETAILED ESTIMATE OF PADYATRA (Railly)

S.No	Activity	No of Trainees	Rates	Total Am (Rs)	Remark
1	Meal Expenses	100	75/- per trainees/day	7500	
2	POL (two days Two jeep Hire Charges)	100	500/- per day	2000	
3	One Day small truck Hire Charge for Railly	100	1100/- per day	1100	
4	Two day tractor Hire Charge for Railly min. 4 tractor	100	1000/- per day	8000	
5	Material for construction of model	100	L S	5000	
6	Literature & stationary for Exivation	100	100/- per trainees	10000	
7	Seating arrangement (tent,matting,chairs, mike, etc)	100	2000/-	2000	
8	Photography,Video	100	For one days	500	L.S
9	Purchase of Banner	100	20 No of Banner	4000	L.S
10	Expenditure for Break fast	100	75/- per trainees/day	7500	
11	Water tanker for Drinking	100	500/- per day	1000	
12	Miscellaneous charges	100	L.S	2000	
13					
			TOTAL AM	**50600**	

PRAPOSED ESTIMATE FOR EDUCATIONAL TOUR UNDER WATERSHED DEVLOPMENT PROGRAME

PARTICIPANTS-50

DURATION-SEVEN NIGHT & SIX DAYS

TOTAL DISTANCE- 1800KM

S.No	HEAD	UNIT CHARGES	UNIT	No. OF Participants	Amount Rs	Remarks
1	Travelling Allowances & Local	1800	Km	50	90000	
2	Daily Allowances for loading & boarding of trainees	200x6	No	50	36000	
3	Stationery & training material (per trainees)	150	No	50	7500	
4	D.A. of Resource person with the tour (4x6=24 no)	250	No	24	6000	
5	POL (seven days jeep Hire Charges)	500	Per Day	7 Days	3500	
6	Other Expenses	7000		L.S.	7000	
7						
				TOTAL Am	**150000**	

WESTE WEIR FOR ARAIBLE LAND

1 Name of village :- G.P.
P.S Jahajpur DISTT. BHILWARA (RAJ.)

2 Name of work :- CONTRUCTION OF PAKA WESTE WEIR

Design

1	Available crest length	4.00	M
2	Total catchment area	1.00	Ha
3	Hight of structure	0.35	M

A Design discharge (By flood discharge method)

A HYDROLIC DESIGN

Peak rate of run off in cum/sec.=

$Q = \frac{C\ I\ A}{36}$ C= 0.40

Catchment Area 1.00 Ha

Q = 0.27 cumsec

$K = \sqrt{\frac{L^3}{H}}$

L= 75.00 M

Say 0.27 cumsec H= 0.80 M

K 726.18

$Tc = 0.0195K^{0.7}$

3.11

I = 23.90 cm/hr.

B HYDROLIC DESIGN

$Q = 1.71L(h)^{3/2}$ L = 4.00 mt length available at site

$h = [Q/1.71L]^{2/3}$

h = 0.11 Say = 0.10

Taking free board as 0.05 M

Total d = 0.15

C. STRUCTURAL DESIGN

(I) Top width of Head wall

$h/(p-1)^{0.5}$	0.09	0.09 say	=	0.40 M
(as per site condition where h =		0.10 m p = 2.3		0.10 M

p Specific gravty of stone masnory in cm = 2.3

(ii) Bottom width of head wall

$b = h+H/(p-1)^{0.5}$	0.39		Say =	0.75 M
H =heigth of head wall in meters =		0.35 m		0.35 M

(iii) Length of head wall extension

H +d + 1	1.50			1.50 M
d = h+free board =	0.15			0.15 M
but as per side condition L/S M	1.5	R/S M	1.5	3.00 M

(iv) Heigth of Head wall extension

H + d = 0.50 M

(v) Botton width of HW ext. side wall & wing wall

0.5(H+h)= 0.23 0.45 M

(vi) Top width of HW ext

0.4H= 0.14 0.40 M

(vii) Length of Basin

L.B =0.75(H+d)+H 0.73 0.75 M

(viii) Thickness of Basin =0.60m(incloding concreting)

(ix) Height of side wall

H+d = 0.50 0.50 M

(x) Height of side wall =1.5h at W W joints

1.5h = 0.15 0.25 M

(xi) Length of side wall = B. W. of H. W -B.W of H W E+L.B+ width of toe wall

1.50

(xii) Length of wing wall = 2.25 h=

0.23 0.00 M

(xiii) Height of the wing wall =

0.15 0.00 M

(xiv) Top width of Head wall ext site wall wing wall =

(xv) Width of toe wall= 0.3 M

(xvi) Height of toe wall = 0.15 M

(xvii) Height of wing wall at wing end =

0.00 M

(xviii) Bottem width of the side wall &wing wall taking as per Bottom width

	of the head wall ext as in item no.5= m	0.45	M
(xix)	Depth of foundation taking as	0.60	M

Prepared by Checked by Approved by

STABILITY CHECK'S

a Top width of anicut = 0.40 m

b Bottm width of anicut = 0.75 m

w_1 + w self weight of anicut

p_1 Pressure due to water besswall

p_2 Horizontal water pressure

p_3 Up lift pressure

h Food heigth = 0.10 m
H heigth of anicut = 0.35 m
L considening one metre = 1
S 2.3
C 0.6

Forces acting on a over flow gravity dam
Forces and momrnt calculation's
considening one metre length of ancut and taking
Restoring moment as positive (+ ve) and overturning moment as negative (-ve)
moment taken at B

s. no.	Forces	v- vertical forces	H- horizontal forces	Force acting at a distance from B	moment at B 2x5	
					+ ve	-ve
1	w_1 = a x H xLxS					
	0.32	0.32		2.20	0.71	
2	w2 = 1/2x(b-a)xHxLxS					
	0.14	0.14		1.13	0.16	
3	p_1 =wh x H					
	0.04		0.04	0.90		0.03
4	p_2 =wH^2/2 x H					
	0.06		0.06	0.60		0.04
5	p_3 =cxwbx(H+h)/2					
	0.09	0.09		1.80		0.17
	TOTAL	0.37	0.10		0.87	0.24

Em=mr-mo
0.63

CHECKS IN OVERTURNING

Factor of satety agaist overturning

Emr/Emo =+m/-m = Restoning moment/overturning moment

3.64

it is more than 1.50 hance structure is safe against overturning

SLINDING

Factor of safety against slinding

Ev/Eh = 3.83

it is more than 1.0 hance structure is safe against slinding

RUPTURE (safety against tension at the bese)

X Relne Position of resultant measured from toe

x = Em/Ev =	1.71
e = b/2 - X	-1.33
Ev/b (1+6e/b)	-10.17
Ev/b (1-6e/b)	11.16
P max =	-10.17
P min =	11.16

Modal estimate of wasteweir in arale land

ABSTRACT OF COST

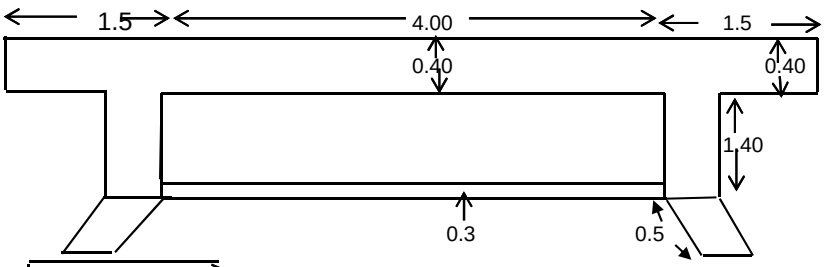
Name of work :-Waste weir

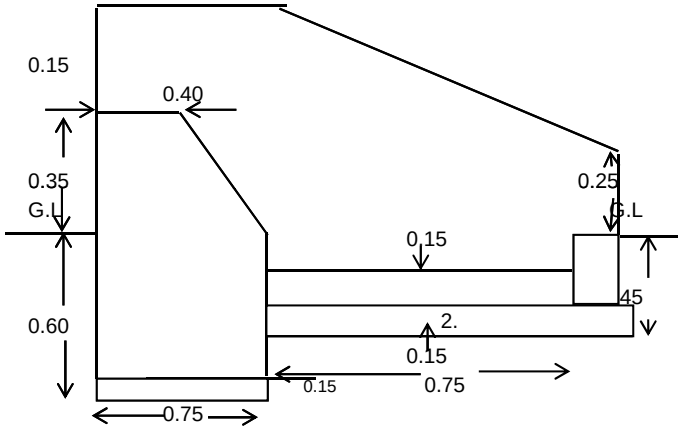
S.No	Particular	Qty.	Rate	Per	Amount	Labour Rate	L.Amount
1	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete As per item no.2 page 1 of G.K.N.2012 BSR of Bhilwara circle	5.58	91.00	cum	507.78	91.00	507.78
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 50mm. HBAs per item no.191 page 17 of G.K.N.2012 BSR of Bhilwara circle	1.55	1664.00	cum	2583.36	320.00	496.8
3	Random rubble stone masonary in cement sand mortar(1:6) for foundationAs per item no.190A page 17 of G.K.N.2012 BSR of Bhilwara circle	3.58	1268.00	cum	4536.27	357.00	1277.168
4	Random rubble stone masonary in cement sand mortar(1:6) forsuper structureAs per item no.191 page 17 of G.K.N.2012 BSR of Bhilwara circle	1.85	1268.00	cum	2339.46	357.00	658.665
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thickAs per item no.70A page 8 of G.K.N.2012 BSR of Bhilwara circle	11.77	138.00	cum	1623.57	68.90	810.61
6	Cement concrete coping in cement mortar1:.2:4.100mm thickAs per item no.194A page 17 of G.K.N.2012 BSR of Bhilwara circle	0.27	2642.00	cum	718.62	316.00	85.95
	TOTAL				12309.06		3836.97
7	Rehandling of cement beyond 100 m initial lead lead up to 200	0.88	85.00		75.11	85.00	75.11
			TOTAL		12384.17		3912.08
	TOTAL				12384.17		3912.08
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr				898.21		898.21
					13282.39		4810.30
	Add 3% Contingency Charges				398.47		
					13680.86		
	METARIAL				8870.56	SAY	0.089
	LABOUR				4810.30	SAY	0.048
	TOTAL				13680.86		
			TOTAL Rs.		13680.86		
						Say	13700

MATERIAL CONSUMPTION STATEMENT

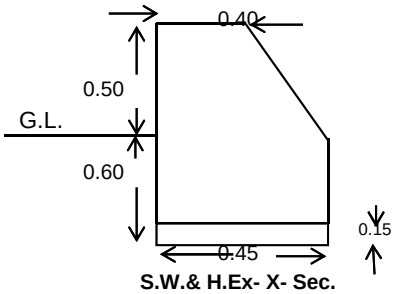
NAME OF WORK : WASTE WEIR							
S.no	Particular	Qty.	Cement	Sand	Aggregate		Stone
			Bags	Cum	50mm	20mm	Cum
1	Cement concrete (1:3:6) mm HB (cum) 4.05,0.43,0.86	1.55	6.29	0.67	1.34		
2	R R stone masonary (1:6) Foundation/ Super structure (cum) 1.40, 0.30, 1.10	5.42	7.59	1.63			5.96
3	Cement plaster (1:6)25 mm thick (sqm) 0.153 0.03	11.77	1.80	0.35			
4	Raised &cut pointing (sqm) 0.0.32, 0.0043						
5	Stone kharanja in cement mortar (1:6)(cum) 1.80, 0.375, 1.20						
6	Cement concrete coping in cement mortar1:1.5:3.75 mm thick 7.33,0.40,0.78	0.27	1.99	0.11	0.21		
7	Dry stone pitching						
		TOTAL	17.67	2.76	1.55		5.96
	SAY		18 BAGS	0.88 MT			

PLAN





X-Section



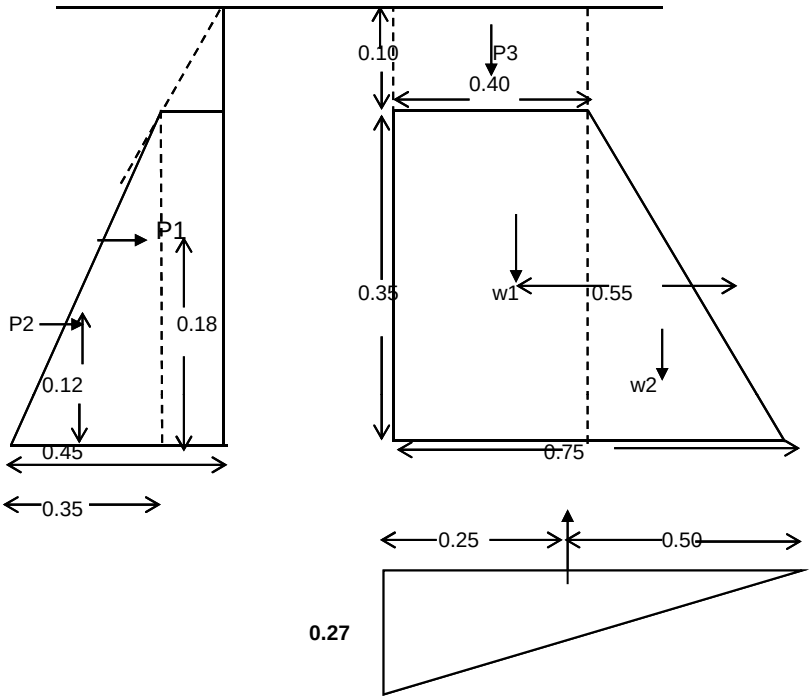
S.W.& H.Ex- X- Sec.

DETAILED ESTIMATE

Name of work :- Weste Weir
P,S, DISTT. BHILWARA

S.No	PARTICULAR	No.	LENGTH	BREADT	HT/DEPTH	QUANTITY
1	Total Excavation					
	H.W.	1.00	4.00	0.75	0.60	1.80
	H.W.E.	2.00	1.50	0.45	0.60	0.81
	S.W.	2.00	1.50	0.45	0.60	0.81
	Toe wall	1.00	4.00	0.30	0.45	0.54
	Apron	1.00	4.00	0.75	0.45	1.35
	Wing Wall	2.00	0.50	0.45	0.60	0.27
				Total (cu.m)		5.58
2	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete 10%of TotalExcavation					
				Total		5.58
5	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 50mm. HB Total Excavation					
	H.W.	1.00	4.00	0.75	0.15	0.45
	H.W.E.	2.00	1.50	0.45	0.15	0.20
	S.W.	2.00	1.50	0.45	0.15	0.20
	Toe Wall	1.00	4.00	0.30	0.15	0.18
	Apron	1.00	4.00	0.75	0.15	0.45
	Wing Wall	2.00	0.50	0.45	0.15	0.07
				Total		1.55
6	Random rubble stone masonary in cement sand mortar(1:6) for foundation					
	H.W.	1.00	4.00	0.75	0.45	1.35
	H.W.E.	2.00	1.50	0.45	0.45	0.61
	S.W.	2.00	1.50	0.45	0.45	0.61
	Toe Wall	1.00	4.00	0.30	0.30	0.36
	Apron	1.00	4.00	0.75	0.15	0.45
	Wing Wall	2.00	0.50	0.45	0.45	0.20
				Total		3.58
7	Random rubble stone masonary in cement sand mortar(1:6) forsuper structure					
	H.W.	1.00	4.00	0.58	0.35	0.81
	H.W.E	1.00	3.00	0.40	0.50	0.60
	S.W.	2.00	1.05	0.40	0.25	0.21
		2.00	0.30	0.40	0.50	0.12
		2.00	0.05	0.40	0.25	0.01
	Wing Wall	2.00	0.50	0.40	0.25	0.10
				Total		1.85

9	Cement plaster including smooth finishing in cement mortar (1:3)25mm thick					
	H.W.	1.00	4.00	0.35		1.40
		1.00	4.00	0.65		2.60
		1.00	4.00	0.30		1.20
	S.W.	2.00	0.40	0.15		0.12
		2.00	0.35	0.33		0.12
		2.00	1.05	0.25		0.53
		2.00	0.75	0.30		0.45
	H.W.E.	1.00	3.00	0.50		1.50
	Toe Wall	1.00	4.00	0.15		0.60
	Wing Wall	2.00	0.50	0.25		0.25
	Apron	1.00	4.00	0.75		3.00
				Total		11.77
11	Cement concrete coping in cement mortar1:2:4.75 mm thick					
	H.W.	1.00	4.00	0.40	0.05	0.08
	S.W.	2.00	1.80	0.40	0.05	0.07
	H.W.E.	1.00	3.00	0.40	0.05	0.06
	Toe.Wall	1.00	4.00	0.30	0.05	0.06
				Total		0.27
12	E/W for bind / embankment in dry or mosit soil including laying on layers 1.5cm Breaking of clods sort ing of grass pabbles ete and dressing in requred profile when compacted manually or by plain roller with initial lead of 30mt and lift 1.5 mt (exeluding charges of waterring and compaction) Hard soil					
				Total		0
13	Dry stone pitching hammer dressing with packing of voids from small stone including all lifts in reqired profile of depth of 20 to 23 cm					0
				Total		0


0.10
P3
0.40
P1
0.35
w1
0.55
P2
0.18
w2
0.12
0.45
0.75
0.35
0.25
0.50
0.27

WESTE WEIR FOR BANK STAIBLISATION WORK

1 Name of village :- G.P.
P.S Jahajpur DISTT. BHILWARA (RAJ.)

2 Name of work :- CONTRUCTION OF PAKA WESTE WEIR

Design

1	Available crest length	4.00	M
2	Total catchment area	1.00	Ha
3	Hight of structure	0.50	M

A Design discharge (By flood discharge method)

A HYDROLIC DESIGN

Peak rate of run off in cum/sec.=

$Q = \frac{C\ I\ A}{36}$ C= 0.40

Catchment Area 1.00 Ha

Q = 0.27 cumsec

$K = \frac{L^3}{H}$

L= 75.00 M

Say 0.27 cumsec

H= 0.80 M

K 726.18

$Tc=0.0195K^{0.}$

3.11

I = 23.90 cm/hr.

B HYDROLIC DESIGN

$Q = 1.71L(h)^{3/2}$

$h =[Q/1.71L]^{2/3}$

L = 4.00 mt length available at site

h = 0.11 Say : 0.10

Taking free board as 0.05 M

Total d = 0.15

C. STRUCTURAL DESIGN

(I) Top width of Head wall

$h/(p-1)^{0.5}$	0.09	0.09 say =		0.40 M
(as per site condition where h =		0.10 m p = 2.3		0.10 M

p Specific gravty of stone masnory in cm = 2.3

(ii) Bottom width of head wall

$b = h+H/(p-1)^{0.5}$	0.53	Say :	0.75 M

H =heigth of head wall in meters = 0.5 m 0.50 M

(iii) Length of head wall extension

H +d + 1	1.65			1.65 M
d = h+free board =	0.15			0.15 M
but as per side condition L/S M	1.5	R/S M	1.5	3.00 M

(iv) Heigth of Head wall extension

H + d = 0.65 M

(v) Botton width of HW ext. side wall & wing wall

0.5(H+h)= 0.30 0.45 M

(vi) Top width of HW ext

0.4H= 0.2 0.40 M

(vii) Length of Basin

L.B =0.75(H+d)+H 0.99 1.00 M

(viii) Thickness of Basin =0.60m(incloding concreting)

(ix) Height of side wall

H+d = 0.65 0.65 M

(x) Height of side wall =1.5h at W W joints

1.5h = 0.15 0.25 M

(xi) Length of side wall = B. W. of H. W -B.W of H W E+L.B+ width of toe wall

1.75

(xii) Length of wing wall = 2.25 h=

0.23 0.00 M

(xiii) Height of the wing wall =

0.15 0.00 M

(xiv) Top width of Head wall ext site wall wing wall =

(xv) Width of toe wall= 0.3 M

(xvi) Height of toe wall = 0.15 M

(xvii) Height of wing wall at wing end = 0.00 M

(xviii) Bottem width of the side wall &wing wall taking as per Bottom width of the head wall ext as in item no.5= m 0.45 M

(xix) Depth of foundation taking as 0.60 M

Prepared by Checked by Approved by

STABILITY CHECK'S

a Top width of anicut = 0.40 m

b Bottm width of anicut = 0.75 m

w_1 + w self weight of anicut

p_1 Pressure due to water besswall

p_2 Horizontal water pressure

p_3 Up lift pressure

h Food heigth = 0.10 m
H heigth of anicut = 0.50 m
L considening one metre = 1
S 2.3
C 0.6

Forces acting on a over flow gravity dam
Forces and momrnt calculation's
considening one metre length of ancut and taking
Restoring moment as positive (+ ve) and overturning moment as negative (-ve)
moment taken at B

s. no.	Forces	v- vertical forces	H- horizontal forces	Force acting at a distance from B	moment at B 2x5	
					+ ve	-ve
1	w_1 = a x H xLxS					
	0.46	0.46		2.20	1.01	
2	w2 = 1/2x(b-a)xHxLxS					
	0.20	0.20		1.13	0.23	
3	p_1 =wh x H					
	0.05		0.05	0.90		0.05
4	p_2 =wH^2/2 x H					
	0.13		0.13	0.60		0.08
5	p_3 =cxwbx(H+h)/2					
	0.14	0.14		1.80		0.24
	TOTAL	0.53	0.18		1.24	0.36

Em=mr-mo
0.88

CHECKS IN OVERTURNING

Factor of satety agaist overturning

Emr/Emo =+m/-m = Restoning moment/overturning moment

3.41

it is more than 1.50 hance structure is safe against overturning

SLINDING

Factor of safety against slinding

Ev/Eh = 3.01

it is more than 1.0 hance structure is safe against slinding

RUPTURE (safety against tension at the bese)

X Relne Position of resultant measured from toe

x = Em/Ev =	1.67
e = b/2 - X	-1.29
Ev/b (1+6e/b)	-9.62
Ev/b (1-6e/b)	11.02
P max =	-9.62
P min =	11.02

Modal estimate of wasteweir in arale land

ABSTRACT OF COST

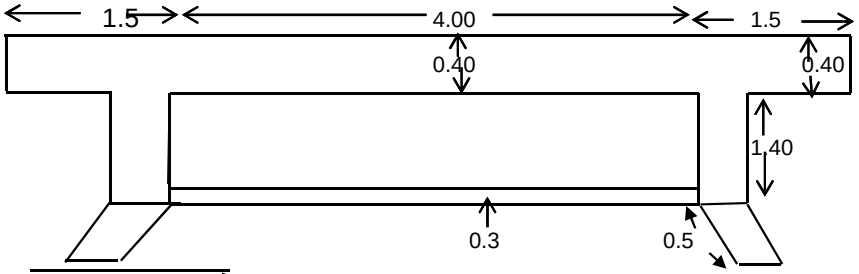
Name of work :-Waste weir

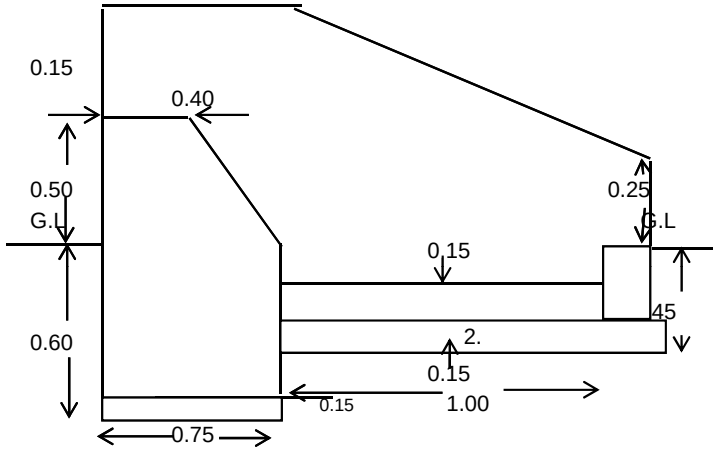
S.No	Particular	Qty.	Rate	Per	Amount	Labour Rate	L.Amount
1	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete As per item no.2 page 1 of G.K.N.2012 BSR of Bhilwara circle	6.17	91.00	cum	561.02	91.00	561.015
2	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 50mm. HBAs per item no.191 page 17 of G.K.N.2012 BSR of Bhilwara circle	1.74	1664.00	cum	2889.12	320.00	555.6
3	Random rubble stone masonary in cement sand mortar(1:6) for foundationAs per item no.190A page 17 of G.K.N.2012 BSR of Bhilwara circle	3.83	1268.00	cum	4854.86	357.00	1366.86
4	Random rubble stone masonary in cement sand mortar(1:6) forsuper structureAs per item no.191 page 17 of G.K.N.2012 BSR of Bhilwara circle	2.57	1268.00	cum	3254.96	357.00	916.419
5	Cement plaster including smooth finishing in cement mortar (1:4)25mm thickAs per item no.70A page 8 of G.K.N.2012 BSR of Bhilwara circle	13.44	138.00	cum	1854.03	68.90	925.67
6	Cement concrete coping in cement mortar1:.2:4.100mm thickAs per item no.194A page 17 of G.K.N.2012 BSR of Bhilwara circle	0.28	2642.00	cum	745.04	316.00	89.11
	TOTAL				14159.02		4414.68
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk				1013.61		1013.61
	TOTAL				**15172.63**		5428.29
			TOTAL		15172.63		5428.29
	Add 3% Contingency Charges				455		
			TOTAL		15628		5428.29
	METARIAL				10200	SAY	9900/-
	LABOUR				5428	SAY	4700/-
	TOTAL				15628		
			TOTAL Rs.		15628	**Say**	**15700**

MATERIAL CONSUMPTION STATEMENT

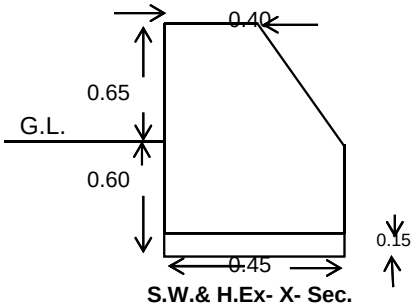
NAME OF WORK : WASTE WEIR							
S.no	Particular	Qty.	Cement	Sand	Aggregate		Stone
			Bags	Cum	50mm	20mm	Cum
1	Cement concrete (1:3:6) mm HB (cum) 4.05,0.43,0.86	1.74	7.03	0.75	1.49		
2	R R stone masonary (1:6) Foundation/ Super structure (cum) 1.40, 0.30, 1.10	6.40	8.95	1.92			7.04
3	Cement plaster (1:6)25 mm thick (sqm) 0.153 0.03	13.44	2.06	0.40			
4	Raised &cut pointing (sqm) 0.0.32, 0.0043						
5	Stone kharanja in cement mortar (1:6)(cum) 1.80, 0.375, 1.20						
6	Cement concrete coping in cement mortar1:1.5:3.75 mm thick 7.33,0.40,0.78	0.28	2.07	0.11	0.22		
7	Dry stone pitching						
		TOTAL	20.11	3.18	1.71		7.04
	SAY		20 BAGS		1.01 MT		

PLAN





X-Section



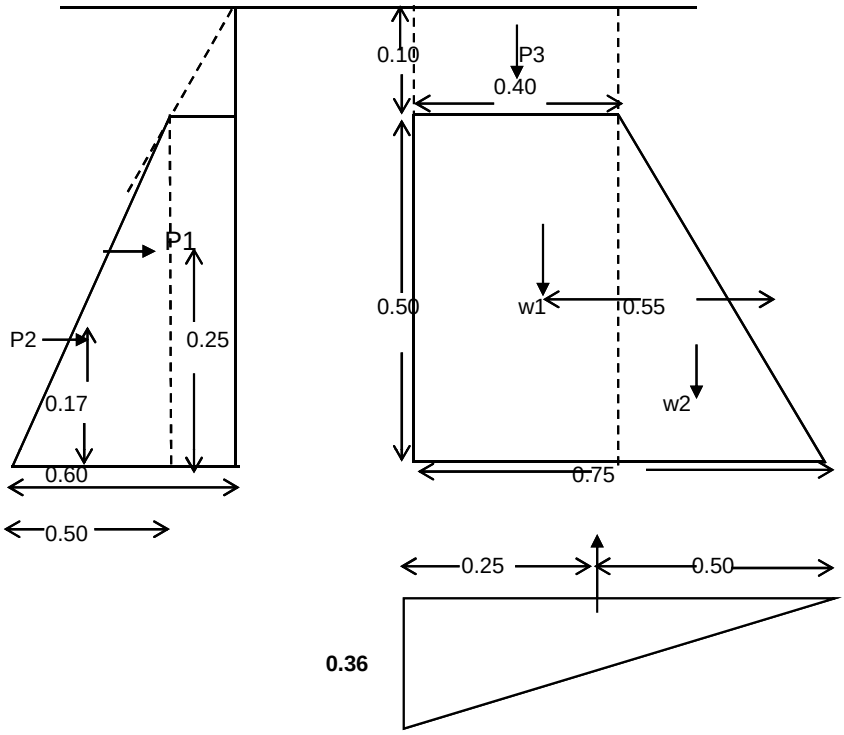
S.W.& H.Ex- X- Sec.

DETAILED ESTIMATE

Name of work :- Weste Weir
P,S, -Jahajpur DISTT. BHILWARA

S.No	PARTICULAR	No.	LENGTH	BREADT	HT/DEPTH	QUANTITY
1	Total Excavation					
	H.W.	1.00	4.00	0.75	0.60	1.80
	H.W.E.	2.00	1.50	0.45	0.60	0.81
	S.W.	2.00	1.75	0.45	0.60	0.95
	Toe wall	1.00	4.00	0.30	0.45	0.54
	Apron	1.00	4.00	1.00	0.45	1.80
	Wing Wall	2.00	0.50	0.45	0.60	0.27
				Total (cu.m)		6.17
2	Excavation in hard soil dry or most&disposal of excavated material within intial lead of 30 m and liftof 1.5m including dressing etc complete 10%of TotalExcavation					
				Total		6.17
5	cement concrete well mixed in cement mortar(1:4:8) laid in position complete including curing Aggregate size upto 50mm. HB Total Excavation					
	H.W.	1.00	4.00	0.75	0.15	0.45
	H.W.E.	2.00	1.50	0.45	0.15	0.20
	S.W.	2.00	1.75	0.45	0.15	0.24
	Toe Wall	1.00	4.00	0.30	0.15	0.18
	Apron	1.00	4.00	1.00	0.15	0.60
	Wing Wall	2.00	0.50	0.45	0.15	0.07
				Total		1.74
6	Random rubble stone masonary in cement sand mortar(1:6) for foundation					
	H.W.	1.00	4.00	0.75	0.45	1.35
	H.W.E.	2.00	1.50	0.45	0.45	0.61
	S.W.	2.00	1.75	0.45	0.45	0.71
	Toe Wall	1.00	4.00	0.30	0.30	0.36
	Apron	1.00	4.00	1.00	0.15	0.60
	Wing Wall	2.00	0.50	0.45	0.45	0.20
				Total		3.83
7	Random rubble stone masonary in cement sand mortar(1:6) forsuper structure					
	H.W.	1.00	4.00	0.58	0.50	1.15
	H.W.E	1.00	3.00	0.40	0.65	0.78
	S.W.	2.00	1.30	0.40	0.33	0.34
		2.00	0.30	0.40	0.65	0.16
		2.00	0.05	0.40	0.33	0.01
	Wing Wall	2.00	0.50	0.40	0.33	0.13
				Total		2.57

9	Cement plaster including smooth finishing in cement mortar (1:3)25mm thick					
	H.W.	1.00	4.00	0.50		2.00
		1.00	4.00	0.80		3.20
		1.00	4.00	0.30		1.20
	S.W.	2.00	0.40	0.15		0.12
		2.00	0.35	0.40		0.12
		2.00	1.30	0.33		0.85
		2.00	1.00	0.30		0.60
	H.W.E.	1.00	3.00	0.50		1.50
	Toe Wall	1.00	4.00	0.15		0.60
	Wing Wall	2.00	0.50	0.25		0.25
	Apron	1.00	4.00	0.75		3.00
				Total		13.44
11	Cement concrete coping in cement mortar1:2:4.75 mm thick					
	H.W.	1.00	4.00	0.40	0.05	0.08
	S.W.	2.00	2.05	0.40	0.05	0.08
	H.W.E.	1.00	3.00	0.40	0.05	0.06
	Toe.Wall	1.00	4.00	0.30	0.05	0.06
				Total		0.28
12	E/W for bind / embankment in dry or mosit soil including laying on layers 1.5cm Breaking of clods sort ing of grass pabbles ete and dressing in requred profile when compacted manually or by plain roller with initial lead of 30mt and lift 1.5 mt (exeluding charges of waterring and compaction) Hard soil					
				Total		0
13	Dry stone pitching hammer dressing with packing of voids from small stone including all lifts in reqired profile of depth of 20 to 23 cm					0
				Total		0


0.10
P3
0.40
P1
0.50
w1
0.55
P2
0.25
w2
0.17
0.60
0.75
0.50
0.25
0.50
0.36

DETAILED EXPENDITURE OF PASTURE DEVELOPMENT & MANAGEMENT TRAINING

(Four Day Training)

Training Date :- Panchayat Sameeti :- JAHAJPUR

Training Place :- DISTICT LEVEL No. of Training Days :- 4

Project Name :- IWMP -XVII

NAME OF TRAINNERS :- PIA & WDT No. of Trainees:- 30

S.No	Activities	No. Of Person		Rate	Unit	Total	Remark
1	Daily allowance For Loading/ Boarding Trainees	30	Trainees for Four Days	800	per Trainees per Days	96000.00	As per Annexure I
2	Food Charges (Break fast, lunch, Dinner, Tea & Snakes	30	Trainees for Four Days	200	per Trainees per Days	24000.00	As per Annexure I
3	Stationary and Training Material (Per Trainees)	30	Trainees	390	Per Trainees	11700.00	As per Annexure I
4	Honorium of resource person (4X2=8)	8	Resource person for One days per two hour	700	per resource person	5600.00	As per Annexure I
5	Honorium of Eminent Guest Speakers	2	Resource person for One days per two hour	2500	per resource person	5000.00	As per Annexure I
6	Daily allowance of resource person	10	Resource person for One days	800	per resource person	8000.00	As per Annexure I
7	Travelling allowance of resource person	10	Resource person for One days	100	Actual bus fare	1000.00	As per Annexure I
8	Tantage and class room facility creation	4	One days programme	3000	Actual	12000.00	As per Annexure I
9	Miscellaneous charges	(a) Bannar (b) Photo			Actual	3600.00	As per Annexure I
	Total					**166900.00**	

Total Cost of 30 member 166900

Per Member Cost 5600

Say 5600/-Rs per Member per trainning

DETAILED EXPENDITURE OF WDT & PIA TRANNING PROGRAMME

(Three Day Training)

Training Date :- Panchayat Sameeti :- JAHAJPUR

Training Place :- STATE LEVEL No. of Training Days :- 3

Project Name :- IWMP -XVII

NAME OF TRAINNERS :- PIA & WDT No. of Trainees:- 30

S.No	Activities	No. Of Person		Rate	Unit	Total	Remark
1	Daily allowance For Loading/ Boarding Trainees	30	Trainees for Three Days	1000	per Trainees per Days	90000.00	As per Annexure I
2	Food Charges (Break fast, lunch, Dinner, Tea & Snakes	30	Trainees for Three Days	250	per Trainees per Days	22500.00	As per Annexure I
3	Stationary and Training Material (Per Trainees)	30	Trainees	390	Per Trainees	11700.00	As per Annexure I
4	Honorium of resource person (3X2=6)	6	Resource person for One days per two hour	700	per resource person	4200.00	As per Annexure I
5	Honorium of Eminent Guest Speakers	2	Resource person for One days per two hour	2500	per resource person	5000.00	As per Annexure I
6	Daily allowance of resource person	8	Resource person for One days	1000	per resource person	8000.00	As per Annexure I
7	Travelling allowance of resource person	8	Resource person for One days	150	Actual bus fare	1200.00	As per Annexure I
8	Tantage and class room facility creation	3	One days programme	4000	Actual	12000.00	As per Annexure I
9	Miscellaneous charges	(a) Bannar (b) Photo		Actual		3600.00	As per Annexure I
	Total					**158200.00**	

Total Cost of 30 member **158200**

Per Member Cost **5300**

Say 5300/-Rs per Member per trainning

DETAILED ESTIMATE OF ONE DAYS TRAINING

Total Member 30

S.No	Activity	No of Trainees	Rates	Total Am (Rs)	Reference.	Remark
1	Daily Allowance for lodging / boarding for non-residential training within the district/state.	30	75/- per trainees/day	2250	Cir.No; 729-814. Dt 09.05.11 Dir. WDSC, Jaipur Item No 1	
2	Honorium of Resource person	30	250/- per lecture (2 Hr /lecture/day)	1000	Cir.No; 729-814. Dt 9.05.11 Dir. WDSC, Jaipur Item No 5	
3	POL (two days jeep Hire Charges)	30	500/- per day	1000	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 7	
4	Literature & stationary	30	50/- per trainees	1500	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 11	
5	Seating arrangement (tent,matting,chairs,etc)	30	750/-	750	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 10	
6	Miscellaneous charges	30	0	300	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 12	
7						
	TOTAL Am			**6800**		

DETAILED ESTIMATE OF TWO DAYS TRAINING

S.No	Activity	No of Trainees	Rates	Total Am (Rs)	Reference.	Remark
1	Daily Allowance for lodging / boarding for residential training within the district.	30	125/- per trainees/day	7500	Cir.No; 729-814. Dt 9.05.11 Dir. WDSC, Jaipur Item No 2	
2	Honorium of Resource person	30	250/- per lecture (2 Hr /lecture/day)	2000	Cir.No; 729-814. Dt 9.05.11 Dir. WDSC, Jaipur Item No 5	
3	POL (three days jeep Hire Charges)	30	500/- per day	1500	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 7	
4	One Day Bus Hire Charge for side visit within 300 km	30	0.42/-per km / member	3780		
5	Literature & stationary	30	100/- per trainees	3000	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 11	
6	Seating arrangement (tent,matting,chairs,etc)	30	1500/-	1500	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 10	
7	Miscellaneous charges	30	0	500	Cir.No; 1147-1200. Dt 12.07.04 Dir. WDSC, Jaipur Item No 12	
8						
			TOTAL AM	**19780**		

DETAILED ESTIMATE OF PADYATRA (Railly)

S.No	Activity	No of Trainees	Rates	Total Am (Rs)	Remark
1	Meal Expenses	100	75/- per trainees/day	7500	
2	POL (two days Two jeep Hire Charges)	100	500/- per day	2000	
3	One Day small truck Hire Charge for Railly	100	1100/- per day	1100	
4	Two day tractor Hire Charge for Railly min. 4 tractor	100	1000/- per day	8000	
5	Material for construction of model	100	L S	5000	
6	Literature & stationary for Exivation	100	100/- per trainees	10000	
7	Seating arrangement (tent,matting,chairs, mike, etc)	100	2000/-	2000	
8	Photography,Video	100	For one days	500	L.S
9	Purchase of Banner	100	20 No of Banner	4000	L.S
10	Expenditure for Break fast	100	75/- per trainees/day	7500	
11	Water tanker for Drinking	100	500/- per day	1000	
12	Miscellaneous charges	100	L.S	2000	
13					
			TOTAL AM	**50600**	

PRAPOSED ESTIMATE FOR EDUCATIONAL TOUR UNDER WATERSHED DEVLOPMENT PROGRAME

PARTICIPANTS-50

DURATION-SEVEN NIGHT & SIX DAYS

TOTAL DISTANCE- 1800KM

S.No	HEAD	UNIT CHARGES	UNIT	No. OF Participants	Amount Rs	Remarks
1	Travelling Allowances & Local	1800	Km	50	90000	
2	Daily Allowances for loading & boarding of trainees	200x6	No	50	36000	
3	Stationery & training material (per trainees)	150	No	50	7500	
4	D.A. of Resource person with the tour (4x6=24 no)	250	No	24	6000	
5	POL (seven days jeep Hire Charges)	500	Per Day	7 Days	3500	
6	Other Expenses	7000		L.S.	7000	
7						
				TOTAL Am	**150000**	

OTHER STATE EXPOSURE TOUR ESTIMATE

Outer State Exposure trip of IWMP_15 Asind (Panchayat Samiti Asind)

Number of Participants 40
Total no of Exposure 1

Sno	Description	Roadways Bus (RSTC)				
		Km	**Rate in RS**	**Unit**	**Amount**	**Remarks**
1	Bus Charges 41/56 Seater for 6 days RSTC rate as per RSTC Jaipur Order dated 3/10/2011 (Insurance / Toll tex approx /Interstate permit)	2300	50	Per Km	115000	Both Side
2	Lodging and Boarding for 6 day	40	250	Per Person	60000	(40x250x6=60000)
3	Training Materials	40	150	Per Person	6000	(150x40=6000)
4	Honorarium Charges of Resource persons	6	1000	Per days	6000	1 day = 8 hrs, so there would be 4 sessions per day. Thus honorarium charges = RS 250/ 2hrs * 4 sessions
5	Hired Jeep	7	500	Per days	3500	
6	training hall , banner, medicines, WOTR A dministrative charges and other Misc expenses				20000	WOTR admin charges - 10 % of its overall expenses.
			Total Am		**210500**	

dk;ky; ipk;r lfefr] tgktij] ftyk HkhyokMk **fuek.k**

dk; gr foLrr ykxr&vueku

1-	dk; dk Ukke& Qke ik.M fuek.k dk;						xke&		xke ipk;r&			
	in dh pkMkb 12 eh- & Äij dh pkMkb 20 eh- & xgjkb 2 ehVj						Location- 0					
2-	;ktuk dk uke&											
Ø-l-	**dk; dk fooj.k**	**l0**	**in dk {k=Qy**	**Äij dk {k=Qy**	**vklr {k=Qy**	**xgjkb**	**ek=k**	**bdkb**	**nj**		**jkf'k**	
									Je	**dy**	**Je**	**;kx**
1	5 l 7 leh xgjkb dk Mkxcfyx dk;	1	2	50			100					
		1	4	20			80	ifr jfux eh				
		1	4	12			48					
		Total					**228**		**1.00**	**1.00**	**228.00**	**228.00**
2	txy dh lQkb] lk/kkj.k ouLifr rFkk >kfM;k dk dkVu lfgrA	1	44	32			1408	ox eh-	1.36	1.36	1914.88	1914.88
3	uho] [kkb] ijukyk e 1-5 xgjkb rd feêh dh [knkb djuk] ry dk dVuk] ikuh Mkyuk] cxy dk lokjuk]											
A-	l[r] fpduh] ddj feêh e 60 ifr- vklr	1	144	400	272	1.2	326.4	?ku eh-	91.00	91.00	29702.40	29702.40
B-	eje	1	144	400	272	0.4	108.8	?ku eh-	99.00	99.00	10771.20	10771.20
C-	fo?kfVr pVVku @eje 20 ifr- vklr	1	144	400	272	0.4	108.8	?ku eh-	134.00	134.00	14579.20	14579.20
4	vfrfjDr fy¶V dk dk;	1	144	196	170	0.5	85	l[;k	11.00	11.00	935.00	935.00
5	c.M ij /kke.k /kkl cckb dk dk;A 15 ykbu e	1	15	50			750	ifr	0.59	0.59	442.50	442.50
6	/kke.k /kkl [kjhn dk;A						6	fdxk	0.00	82.00	0.00	492.00
	Total								Total		58573.18	59065.18
	Je Hkkx e 22.96 % etnjh e of) d dkj.k vfrfjDr tkMuk										13448.40	13448.40
										;kX	**72022**	**72513.58**
	tkM 3 % dfUVu tlh											2175.41
										dy ;kx		74689
											SAY	74700
								ykxr Je en e				**72020**
								ykxr lkexh en e				**2680**
								dy ;kx				**74700**

dk;ky; ipk;r lefr] tgk tij] fty k Hkh yokMk **fuek.k**

dk; gr foLrr ykxr&vueku

1-	dk; dk Ukke& Qke ik.M fuek.k dk;						xke&				xke ipk;r&	
	in dh pkMkb 12 eh- & Åij dh pkMkb 20 eh- & xgjkb 2 ehVj						Location- 0					
2-	;k tuk dk uke& NREGS										MNREGS	
Ø-l-	dk; dk fooj.k	l0	in dk {k=Qy	Åij dk {k=Qy	vk l r {k=Qy	xgjkb	ek=k	bdkb	nj		jkf'k	
									Je	dy	Je	;kx
1	5 l 7 leh xgjkb dk Mkxcfyx dk;	1	2	50			100					
		1	4	20			80	ifr jfux eh				
		1	4	12			48					
		Total					**228**		**0.88**	**0.88**	**200.64**	**200.64**
2	txy dh lQkb] lk/kkj.k ouLifr rFkk >kfM;k dk dkVu lfgrA	1	44	32			1408	ox eh-	1.20	1.20	1689.60	1689.60
3	uho] [kkb] ijukyk e 1-5 xgjkb rd feêh dh [knkb djuk] ry dk dVuk] ikuh Mkyuk] cxy dk lokjuk]											
A-	l[r] fpduh] ddj feêh e 60 ifr- vk l r	1	144	400	272	1.2	326.4	?ku eh-	73.80	81.00	24088.32	26438.40
B-	eje	1	144	400	272	0.4	108.8	?ku eh-	79.30	88.00	8627.84	9574.40
C-	fo?kfVr pVVku @eje ifr- vk l r	1	144	400	272	0.4	108.8	?ku eh-	110.70	118.00	12044.16	12838.40
4	vfrfjDr fy¶V dk dk;	1	144	196	170	0.5	85.00	l[;k	10.00	10.00	850.00	850.00
5	c.M ij /kke.k /kkl cckb dk dk;A 15 ykbu e	1	15	50			750	ifr jfux eh	0.52	0.52	390.00	390.00
6	/kke.k /kkl [kjhn dk;A						6	fdxk	0.00	82.00	0.00	492.00
	Total									Total	47890.56	52473.44
	Je Hkkx e 30 % VkLd dh deh d dkj.k vfrfjDr tkMuk										20521.105	20521.10
										;kx	**68412**	**72994.54**
	tkM 3 % ikuh okyk vk;k										2052.35	2052.35
										;kx	**70464**	**75046.89**
	tkM 2 % dfUVu tlh											1500.94
										dy ;kx		76548
										SAY		76600
								ykxr Je en e				**70460**
								ykxr lkexh en e				**6140**
								dy ;kx				**76600**

AREA IN HACT. 0.4O tyxg.k {k= e [kjhQ dh Qly in'ku																
				dy ykxr			iFke o"k		f)rh; o"k		rrh; o"k		prFk o"k		ipe o"k	
d-l-	xko dk uke	xke ipk;r	Qly dk uke	d"kd dh l[;k	nj	jkf'k	d"kd dh l[;k	jkf'k	d"kd dh l[;k	jkf'k	d"kd dh l[;k	jkf'k	d"kd dh l[;k	jkf'k	d"kd dh l[;k	jkf'k
1	ygkjh [kn	ygkjh dyk	eDdk	47	2116	99452			10	21160	17	35972	10	21160	10	21160
			mMn	0	2363	0			0	0	0	0	0	0	0	0
			e|x	0	2695	0			0	0	0	0	0	0	0	0
			fry	0	2163	0			0	0	0	0	0	0	0	0
			Xokj	0	2490	0			0	0	0	0	0	0	0	0
	Total			**47**		**99452**	**0**	**0**	**10**	**21160**	**17**	**35972**	**10**	**21160**	**10**	**21160**
2	ek;yk ikfy;k	vejokl h	eDdk	0	2116	0			0	0	0	0	0	0	0	0
			mMn	0	2363	0			0	0	0	0	0	0	0	0
			e|x	0	2695	0			0	0	0	0	0	0	0	0
			fry	0	2163	0			0	0	0	0	0	0	0	0
			Xokj	0	2490	0			0	0	0	0	0	0	0	0
	Total			**0**		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
3	VhdM	VhdM	eDdk	30	2116	63480			10	21160	10	21160	10	21160	0	0
			mMn	10	2363	23630			0	0	5	11815	5	11815	0	0
			e|x	10	2695	26950			0	0	5	13475	5	13475	0	0
			fry	10	2163	21630			0	0	5	10815	5	10815	0	0
			Xokj	10	2490	24900			0	0	5	12450	5	12450	0	0
	Total			**70**		**160590**	**0**	**0**	**10**	**21160**	**30**	**69715**	**30**	**69715**	**0**	**0**
4	geijk	VhdM	eDdk	10	2116	21160			5	10580	5	10580	0	0	0	0
			mMn	5	2363	11815			0	0	5	11815	0	0	0	0
			e|x	5	2695	13475			0	0	5	13475	0	0	0	0
			fry	5	2163	10815			0	0	5	10815	0	0	0	0
			Xokj	5	2490	12450			0	0	5	12450	0	0	0	0
	Total			**30**		**69715**	**0**	**0**	**5**	**10580**	**25**	**59135**	**0**	**0**	**0**	**0**
5	dljijk	VhdM	eDdk	10	2116	21160			5	10580	5	10580	0	0	0	0
			mMn	5	2363	11815			5	11815	0	0	0	0	0	0
			e|x	5	2695	13475			5	13475	0	0	0	0	0	0
			fry	5	2163	10815			5	10815	0	0	0	0	0	0
			Xokj	5	2490	12450			5	12450	0	0	0	0	0	0

	Total			**30**		**69715**	**0**	**0**	**25**	**59135**	**5**	**10580**	**0**	**0**	**0**	**0**
6	dpyokMk dyk	VhdM	eDdk	10	2116	21160			5	10580	5	10580	0	0	0	0
			mMn	5	2363	11815			0	0	5	11815	0	0	0	0
			e|x	10	2695	26950			0	0	5	13475	5	13475	0	0
			fry	5	2163	10815			0	0	5	10815	0	0	0	0
			Xokj	5	2490	12450			0	0	5	12450	0	0	0	0
	Total			**35**		**83190**	**0**	**0**	**5**	**10580**	**25**	**59135**	**5**	**13475**	**0**	**0**
7	dpyokMk [kn	VhdM	eDdk	10	2116	21160			5	10580	5	10580	0	0	0	0
			mMn	5	2363	11815			0	0	5	11815	0	0	0	0
			e|x	5	2695	13475			0	0	5	13475	0	0	0	0
			fry	5	2163	10815			0	0	5	10815	0	0	0	0
			Xokj	5	2490	12450			0	0	5	12450	0	0	0	0
	Total			**30**		**69715**	**0**	**0**	**5**	**10580**	**25**	**59135**	**0**	**0**	**0**	**0**
8	tkekyh	tkekyh	eDdk	50	2116	105800			20	42320	10	21160	10	21160	10	21160
			mMn	15	2363	35445			5	11815	5	11815	5	11815	0	0
			e|x	14	2695	37730			4	10780	5	13475	5	13475	0	0
			fry	10	2163	21630			5	10815	5	10815	0	0	0	0
			Xokj	10	2490	24900			5	12450	5	12450	0	0	0	0
	Total			**99**		**225505**	**0**	**0**	**39**	**88180**	**30**	**69715**	**20**	**46450**	**10**	**21160**
9	j/kukFk ijk	tkekyh	eDdk	20	2116	42320			10	21160	10	21160	0	0	0	0
			mMn	5	2363	11815			0	0	5	11815	0	0	0	0
			e|x	5	2695	13475			0	0	5	13475	0	0	0	0
			fry	5	2163	10815			0	0	5	10815	0	0	0	0
			Xokj	5	2490	12450			0	0	5	12450	0	0	0	0
	Total			**40**		**90875**	**0**	**0**	**10**	**21160**	**30**	**69715**	**0**	**0**	**0**	**0**
10	'kdjijk	tkekyh	eDdk	20	2116	42320			10	21160	10	21160	0	0	0	0
			mMn	5	2363	11815			0	0	5	11815	0	0	0	0
			e|x	5	2695	13475			0	0	5	13475	0	0	0	0
			fry	5	2163	10815			0	0	5	10815	0	0	0	0
			Xokj	5	2490	12450			0	0	5	12450	0	0	0	0
	Total			**40**		**90875**	**0**	**0**	**10**	**21160**	**30**	**69715**	**0**	**0**	**0**	**0**
11	jkeijk	tkekyh	eDdk	20	2116	42320			10	21160	10	21160	0	0	0	0
			mMn	5	2363	11815			5	11815	0	0	0	0	0	0
			e|x	5	2695	13475			5	13475	0	0	0	0	0	0
			fry	5	2163	10815			5	10815	0	0	0	0	0	0

			Xokj	5	2490	12450			5	12450	0	0	0	0	0	0
	Total			**40**		**90875**	**0**	**0**	**30**	**69715**	**10**	**21160**	**0**	**0**	**0**	**0**
12	Hkjuh dyk	Hkjuh dyk	eDdk	20	2116	42320			0	0	10	21160	10	21160	0	0
			mMn	7	2363	16541			0	0	7	16541	0	0	0	0
			e|x	5	2695	13475			0	0	5	13475	0	0	0	0
			fry	5	2163	10815			0	0	5	10815	0	0	0	0
			Xokj	0	2490	0			0	0	0	0	0	0	0	0
	Total			**37**		**83151**	**0**	**0**	**0**	**0**	**27**	**61991**	**10**	**21160**	**0**	**0**
13	vkfM;k [kMk	Hkjuh dyk	eDdk	5	2116	10580			5	10580	0	0	0	0	0	0
			mMn	5	2363	11815			5	11815	0	0	0	0	0	0
			e|x	5	2695	13475			5	13475	0	0	0	0	0	0
			fry	5	2163	10815			5	10815	0	0	0	0	0	0
			Xokj	0	2490	0			0	0	0	0	0	0	0	0
	Total			**20**		**46685**	**0**	**0**	**20**	**46685**	**0**	**0**	**0**	**0**	**0**	**0**
	Total Kharif			**518**	**0**	**1180343**	**0**	**0**	**169**	**380095**	**254**	**585968**	**75**	**171960**	**20**	**42320**

13	vkfM;k [kMk	Hkjuh dyk	eDdk	252	2116	533232
			mMn	72	2363	170136
			e|x	74	2695	199430
			fry	65	2163	140595
			Xokj	55	2490	136950
	Total			**518**		**1180343**

AREA IN HACT. 0.4O tyxg.k {k= e jch dh Qly in'ku																	
							iFke o"k		f)rh; o"k		rrh; o"k		prFk o"k		ipe o"k	
d-l-	xko dk uke	xke ipk;r	Qly dk uke	d"kd dh l[;k	nj	jkf'k	d"kd dh l[;k	jkf'k	d"kd dh l[;k	jkf'k	d"kd dh l[;k	jkf'k	d"kd dh l[;k	jkf'k	d"kd dh l[;k	jkf'k
1	ygkjh [kn	ygkjh dyk	xgw	10	2600	26000			5	13000	5	13000	0	0	0	0
			puk	5	3083	15415			0	0	5	15415	0	0	0	0
			ljlk	5	1894	9470			0	0	5	9470	0	0	0	0
	Total			**20**		**50885**	**0**	**0**	**5**	**13000**	**15**	**37885**	**0**	**0**	**0**	**0**
2	ek;yk ikfy;k	vejok lh	xgw	0	2600	0			0	0	0	0	0	0	0	0
			puk	0	3083	0			0	0	0	0	0	0	0	0
			ljlk	0	1894	0			0	0	0	0	0	0	0	0
	Total			**0**		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
3	VhdM	VhdM	xgw	30	2600	78000			10	26000	20	52000	0	0	0	0
			puk	10	3083	30830			0	0	5	15415	5	15415	0	0
			ljlk	10	1894	18940			0	0	5	9470	5	9470	0	0
	Total			**50**		**127770**	**0**	**0**	**10**	**26000**	**30**	**76885**	**10**	**24885**	**0**	**0**
4	geijk	VhdM	xgw	10	2600	26000			0	0	10	26000	0	0	0	0
			puk	5	3083	15415			0	0	5	15415	0	0	0	0
			ljlk	5	1894	9470			0	0	5	9470	0	0	0	0
	Total			**20**		**50885**	**0**	**0**	**0**	**0**	**20**	**50885**	**0**	**0**	**0**	**0**
5	dljijk	VhdM	xgw	10	2600	26000			0	0	5	13000	5	13000	0	0
			puk	5	3083	15415			0	0	5	15415	0	0	0	0
			ljlk	5	1894	9470			0	0	5	9470	0	0	0	0
	Total			**20**		**50885**	**0**	**0**	**0**	**0**	**15**	**37885**	**5**	**13000**	**0**	**0**
6	dpyokMk dyk	VhdM	xgw	17	2600	44200			0	0	10	26000	7	18200	0	0
			puk	5	3083	15415			0	0	5	15415	0	0	0	0
			ljlk	5	1894	9470			0	0	5	9470	0	0	0	0
	Total			**27**		**69085**	**0**	**0**	**0**	**0**	**20**	**50885**	**7**	**18200**	**0**	**0**
7	dpyokMk [kn	VhdM	xgw	10	2600	26000			0	0	10	26000	0	0	0	0
			puk	5	3083	15415			0	0	5	15415	0	0	0	0
			ljlk	5	1894	9470			0	0	5	9470	0	0	0	0
	Total			**20**		**50885**	**0**	**0**	**0**	**0**	**20**	**50885**	**0**	**0**	**0**	**0**
8	tkekyh	tkekyh	xgw	50	2600	130000			20	52000	20	52000	10	26000	0	0
			puk	20	3083	61660			10	30830	5	15415	5	15415	0	0
			ljlk	20	1894	37880			10	18940	5	9470	5	9470	0	0
	Total			**90**		**229540**	**0**	**0**	**40**	**101770**	**30**	**76885**	**20**	**50885**	**0**	**0**

9	j/kukFk i jk	tkekyh	xgw	13	2600	33800			0	0	5	13000	8	20800	0	0
			puk	5	3083	15415			0	0	5	15415	0	0	0	0
			l j l k	5	1894	9470			0	0	5	9470	0	0	0	0
	Total			**23**		**58685**	**0**	**0**	**0**	**0**	**15**	**37885**	**8**	**20800**	**0**	**0**
10	'kdj i jk	tkekyh	xgw	10	2600	26000			0	0	5	13000	5	13000	0	0
			puk	5	3083	15415			0	0	5	15415	0	0	0	0
			l j l k	5	1894	9470			0	0	5	9470	0	0	0	0
	Total			**20**		**50885**	**0**	**0**	**0**	**0**	**15**	**37885**	**5**	**13000**	**0**	**0**
11	jke i jk	tkekyh	xgw	10	2600	26000			0	0	10	26000	0	0	0	0
			puk	5	3083	15415			0	0	5	15415	0	0	0	0
			l j l k	5	1894	9470			0	0	5	9470	0	0	0	0
	Total			**20**		**50885**	**0**	**0**	**0**	**0**	**20**	**50885**	**0**	**0**	**0**	**0**
12	Hkjuh dyk	Hkjuh dyk	xgw	16	2600	41600			0	0	8	20800	8	20800	0	0
			puk	10	3083	30830			0	0	5	15415	5	15415	0	0
			l j l k	10	1894	18940			0	0	5	9470	5	9470	0	0
	Total			**36**		**91370**	**0**	**0**	**0**	**0**	**18**	**45685**	**18**	**45685**	**0**	**0**
13	vkfM ;k [kMk	Hkjuh dyk	xgw	10	2600	26000			0	0	5	13000	5	13000	0	0
			puk	5	3083	15415			0	0	5	15415	0	0	0	0
			l j l k	4	1894	7576			0	0	4	7576	0	0	0	0
	Total			**19**		**48991**	**0**	**0**	**0**	**0**	**14**	**35991**	**5**	**13000**	**0**	**0**
	Total Rabi			**365**		**930751**	**0**	**0**	**55**	**140770**	**232**	**590526**	**78**	**199455**	**0**	**0**

vkfM ;k [kMk	Hkjuh dyk	xgw	196	2600	509600
		puk	85	3083	262055
		l j l k	84	1894	159096
Total			**365**		**930751**

Qynkj ik/kk jki.k (NRM + Production)

S.NO.	TEYP OF PLANTS	UNIT Hact.	UINT COST /Ha.	Total Cost	I YEAR		II YEAR		III YEAR		IV YEAR		V YEAR	
					UNIT	COST	UNIT	COST	UNIT	COST	UNIT	COST	UNIT	COST
1	GUAVAVA	4.25	34975	148643.75	0	0	2	69950	2.25	78693.8	0	0	0	0
2	ANAR	3.00	51523	154569	0	0	2	103046	1	51523	0	0	0	0
3	ORANGE	4.00	35680	142720	0	0	2	71360	2	71360	0	0	0	0
4	NIMBU	4.00	32599	130396	0	0	2	65198	2	65198	0	0	0	0
TOTAL(C)		**15.25**		**576328.75**	**0**	**0**	**8**	**309554**	**7.25**	**266775**	**0**	**0**	**0**	**0**