

Government of Rajasthan

**Deptt. of Watershed Development & Soil  
Conservation**

**District Watershed Development Unit,  
Tonk**

*Detailed Project Report*



### **IWMP-III (Dolatpura) (2009-10)**

Block :- Tonk    District :- Tonk    Project Area :- 5342 ha.

Project Cost :- Rs. 641.04 Lacs    Convergence Cost :- Rs. 164.16 Lacs

Total Cost :- Rs. 805.20 Lacs

Macro/ Micro No.- 8/3,4,5,8 6/1, 5/4,

G.P.- Jounla, Bagari, Nathari, Hadikalan

Assistant Engineer  
PIA IWMP-III  
Panchayat Samiti, Tonk

Executive Engineer (L.R.)  
cum  
Project Manager, DWDU,  
Zila Parishad (R.D.C.)Tonk

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## MAJOR PROBLEMS AND REMEDIES

**Name of W/s – IWMP III**

**Scheme – IWMP**

**P.S. – TONK**

<b>PROBLEM'S</b>	<b>STEPS TAKEN TO OVER COME PROBLEMS IN PROJECT AREA</b>
(1) EROSION A. Sheet B. Rill and Gully	(1) <b>A. Engineering</b> – Earthen bund with waste weir, water and silt Harvesting structure, Earthen check Dam, Farm ponds (2) <b>B. Agronomic</b> – Contour farmings summer ploughing, Inter cropping Demonstration, cover crop demonstration etc.
(2) Low Irrigation Potential	To increase Water Use Efficiency , Drip and Sprinkler irrigation system will be introduced, Soil & Moisture Conservation activites taken in NRM will also be helpful to increase the potential.
(3) Poor Quality of Drinking water and ground water for irrigation	For Drinking water, Handpump and Installation of Tube well with water tank has been taken as prime activity in EPA. Defloridation plants will be converge with PHED.
(4) Low productivity in agriculture production	Inter Crop & Singal Crop Demonstration, Wormi Compost units & saline, alkaline soil treatment provision is taken in DPR.
(5) Low density of horticulture plants and vegetable production	Provision of Orchard demonstration, Vegetable kits distribution have been taken in DPR.
(6) Lack of pasture land & poor productivity of pasture land, poor quality of fodder.	Technological guidance taken from CSWRI Avikanager and activity has incorporated in DPR for developing good quality pastures, improved fodder demonstration activity is also taken.
(7) Low productivity of live stock	Animal health camps, prucurement of good quality Ram, Buck, Bulls from Reputated institution will be ensured and activity is taken in DPR, Vaccination, Artificialinsemination, Castration, activities are taken. Provision for training of cattle rearers and Dairy development is also taken.
(8) Land less people	Organisation of Self Help Group, and capacity Building programmes are taken up in DPR and provision of off farm activities like repairing

	<p>shops, Tailoring, groceryshops, are also taken to generate local employment.</p> <p><b>On Farm Activities</b> – Bee keeping, raising of Nurseries, Wormi-composting, Dairing activities shall be converged with Deptt. of Horticulture &amp; Deptt. of Industries.</p>
(9) Hesitation in Adoption of New and Proven Technology	Provision of Exposure visits at various institutions, Demonstration of various proven technolgies have been taken in DPR.
(10) Widow, Singlewomen, Divorce ladies, aged people, Handicapped people	WDT social scientist shall be responsible for all the activites which are useful for upliftment of the socio-economic status of the deprived people who are helpless, Old age persons, Children & Women by guiding and providing the information of various schemes to them by liasoning from ICDS, Deptt of social welfare & DIC etc. Social scientist will also work against iradication of social evils and for changing mind set of the rural people to adopt new technologies & innovations,

# **DPR**

## **CHAPTER – I INTROCUATION**

### **Location :**

**IWMP III** Project is located in **TONK** Block, of **TONK** district. The project area is between the latitudes **26° 13' -26° 20'** & **75° 45' -75° 52'** longitudes. It is at a distance of **20 to 35** km from its Block head quarters and **20 to 35** 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)	<b>IWMP-III</b>
(a)	Name of Catchment	Dolatpura
(b)	Name of watershed area(local name)	Dolatpura
©	Project Area	5457
(d)	Net treatable Area	5342
e)	Cost of Project	641.04 lacs
f)	Cost/hectare	12000/- per Ha.
g)	Year of Sanction	2009-2010
h)	Watershed Code	8(3,4,5,8), 5 (4), 6(1)
i)	No. of Gram Panchayats in project area	4
j)	No. of villages in project area	13
k)	Type of Project	Other
l)	Elevation (metres)	305-310 Mtr
m)	Major streams	2
n)	Slope range (%)	1 %

Macro/micro	Name of Gram Panchayat	Name of Villages Covered	Census code of villages	Area
8/08	Hadikalan	Hadikalan,	02609200	598
		Sardarpura	02609300	152
8/03	Hadikalan	Hadikalan,	02609200	272
		Karimpura	02606500	208
8/04	Jounla	Jounla	02606300	673
		Dhusri	02606000	598
		Dolatpura	02606400	209
8/05	Jounla	Jounla	02606300	460
6/01	Nathri	Sisola	02606800	521
		Nathri	02608500	47
		Akabarnagar	02606700	116
		Mawasipura	02608800	205

Macro/micro	Name of Gram Panchayat	Name of Villages Covered	Census code of villages	Area
		Kalyanpura	02603800	50
		Masudpura	02608600	108
5/04	Bagari	Bagri	02606900	695
		Rahimpura	02606600	161
		Akabarnagar	02606700	269

The watershed falls in Agroclimatic Zone **III A**. The soil texture is **Clay Loam**. The average rainfall is **63** cm. The temperatures in the area are in the range between **30°** to **48°** centigrade during summer and **20°** to **-1°** centigrade during winter. The major crops in the area are **Bajra, Jowar, Maize, Urad, Mung, Tameera, Groundnut, Gram, Til, Mustard, Wheat**. 70% land is under cultivation, 5% land fallow, 2% land is wasteland. 10% land is irrigated through wells & Canal.

320 No of households are BPL( 21% households), 79 no. are landless households (5.3% households) and 889 household are small and marginal farmers(57.10%household). Average land holding in the area is 1-2 ha. 45% area is single cropped area and 25% is double cropped. The main source of irrigation is Wells & Tank. The average annual rainfall (5 years) in the area is **470** mm. The Major streams in the Watershed are **Dolatsagar Nala**. The major festivals in the village are **Deewali, Holi & Eid**. At present these villages are having **9235** population with Communities like **Gurjar, Jat, Meena, Bairwa & Mali**.

<b>Climatic and Hydrological information</b>		
<b>1</b>	<b>Average Annual Rainfall(mm)</b>	
	Year	Average Annual Rainfall(mm)
1	2004	672
2	2005	424
3	2006	552
4	2007	485
5	2008	502
6	2009	386
7	2010	1007
<b>2</b>	<b>Avg Monthly rainfall (last ten years)</b>	
	Month	Rainfall(mm)
i)	June	20
ii)	July	180
iii)	August	250
iv)	September	120
<b>3</b>	<b>Maximum rainfall intensity (mm)</b>	
	Duration	rainfall intensity(mm)
	i) 15 minute duration	25
	ii) 30 minute duration	50
	iii) 60 minute duration	60

4	<b>Temperatue (Degree C)</b>			
	Season	Max	Min	
	i) Summer Season	48°C	25°C	
	ii) Winter Season	30°C	-1°C	
	iii) Rainy Season	35°C	10°C	
5	<b>Potential Evaporation Transpiration (PET) (mm/day)</b>			
	Season	PET		
	i) Summer	5mm /day		
	ii) Winter	1mm/day		
	iii) Rainy	0.2mm		
6	<b>Runoff</b>			
	i) Peak Rate (cum/hr)			
	ii) Total run off volume of rainy season (ha.m.)	2150HM		
	iii) Time of return of maximum flood	5 years	10 years	In-Year
	iv)Periodicity of Drought in village area			2003 2007

#### 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	NREGS	PRI	NRM	SC, ST, BPL	
2	BRGF	PRI	Community	Inhabitants	
3	NFSM	Ag. Extn.	Food Prod.	All	
4	NHM	Horticulture	Orchard	All	

<b>Details of infrastructure in the project areas</b>							
<b>Parameters</b>				<b>Status</b>			
(i)	No. of villages connected to the main road by an all-weather road			12			
(ii)	No. of villages provided with electricity			12			
(iii)	No. of households without access to drinking water			1556			
(iv)	No. of educational institutions :			(P)	(S)	(HS)	(VI)(UPS)
	Primary(P)/ Secondary(S)/ Higher Secondary(HS)/ vocational institution(VI)			3	2	1	6
(v)	No. of villages with access to Primary Health Centre			04			
(vi)	No. of villages with access to Veterinary Dispensary			01			
(vii)	No. of villages with access to Post Office			02			
(viii)	No. of villages with access to Banks			01			
(ix)	No. of villages with access to Markets/ mandis			03 (General)			

	<b>Parameters</b>	<b>Status</b>			
(x)	No. of villages with access to Agro-industries	-			
(xi)	Total quantity of surplus milk	1700 Ltr.			
(xii)	No. of milk collection centres	(U)	(S)	(PA)	(O)
	(e.g. Union(U)/ Society(S)/ Private agency(PA)/ others (O))	-	-	-	-
(xiii)	No. of villages with access to Anganwadi Centre	09			
(xiv)	Any other facilities with no. of villages	-			
(xv)	Nearest KVK	Bansthali			
(xvi)	cooperative society	GSS Bagri, GSS Sohela			
(xvii)	NGOs	-			
(xviii)	Credit institutions	-			
	(i) Bank	BOB Bagri			
	(ii) Cooperative Society	GSS Bagri			
(xix)	Agro Service Centre's	-			

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

#### DWDU Details

<b>1</b>	<b>2</b>	<b>3</b>
<b>S.No</b>	<b>Particulars</b>	<b>Details of DWDU</b>
1.	PM ,DWDU	Sh. Sukh Lal Meena
2.	Address with contact no., website	Zila Parishad Tonk
3.	Telephone	01432-247594
4.	Fax	01432-247147
5.	E-mail	dwdu.tonk@gmail.com

#### PIA particulars

<b>1</b>	<b>2</b>	<b>3</b>
<b>S.No</b>	<b>Particulars</b>	<b>Details of PIA</b>
6.	Name of PIA	Sh. M.L.Khangar
7.	Designation	Asst. Engineer
8.	Address with contact no., website	Panchayat Samiti Tonk, District Tonk
9.	Telephone	01432-247447
10	Fax	01432-247447
11	E-mail	iwmp.tonk@gmail.com

**WDT Particulars:**

1	2		3	4	5	6	7	8
S. No	Designation	Name	M/F	Age	Qualification	Experience in watershed(Yrs)	Description of professional training	Role/ Function
1	WDT (Ag.)	Smt. Aradhana Sharma	F	32	BSc. (Ag.)	1 Year	-	Agriculture activities
2	WDT (Social Sci.)	Smt. Vinita Sharma	F	38	MSW, M.A. (Sociology)	4 Year 6 Month	-	Community Organization works
3	WDT ( Engg.)	Sh. Dinesh kumar Nagarwal	M	24	Diploma Civil Engg.	7 Month	-	Engineering Works
4	WDT ( A.H.)	Dr.Raghvendra Sharma	M	37	BVSc & AH	1 Year	-	Livestock Development

### Details of Watershed Committees (WC)

S.N.	Name of WCs	Date of Gram Sabha for WC	Date of Registration as a Society (dd/mm/yyyy)	Designation	Name	M/F	SC/ST/OBC/General	Landless/MF/SF/BF	Name of UG/SHG	Education qualification
1	Hadikalan	29-06-10		President	Kedar/Ladulal Jat	M	OBC	LL	NRM Activities in Agriculture Land	10th
				Secretary	Rajendra Prasad Sharma	M	GEN	SF	-	B.A.
				Member	Govind Narayan/Shrinarayan	M	OBC	SF	NRM Activities in Agriculture Land	10th
					Smt Mamta/ Mahaveer	F	OBC	MF	Jai Bhawani	Literate
					Smt. Dawarka/Girraj	F	OBC	MF	Jai Bhawani	Literate
					Govind Narayan/ Bhuralal	M	OBC	MF	NRM Activities in Agriculture Land	10th
					Smt. Bholi/ Satayanarayan	F	OBC	MF	Shiv shakti	Literate
					Hanuman/ Vijay Narayan	M	OBC	SF	NRM Activities in Agriculture Land	4th
					Bajrang/Balu	M	SC	MF	NRM Activities in Agriculture Land	Literate
					Kamruddin/ Chitar	M	OBC	LL	NRM Activities in Agriculture Land	Literate
					Nisar/Hasna	M	OBC	SF	NRM Activities in Agriculture Land	12th
					Banshi/Ganesh	M	OBC	SF	NRM Activities in Agriculture Land	Unliterate
					Rampal/Kalyan	M	ST	SF	NRM Activities in Agriculture Land	Unliterate
					Smt.Tulsa/Krishna	F	ST	SF	Jai Bhawani	Literate
					Smt.Chandrakala/ Mohan	F	SC	MF	Kavita	Literate
	Mohan/Chutolal	M	OBC	SF	Treta	5th				
	Kajod/Shrilal	M	OBC	MF	Agriculture Production	5th				

S.N.	Name of WCs	Date of Gram Sabha for WC	Date of Registration as a Society (dd/mm/yyyy)	Designation	Name	M/F	SC/ST/OBC/General	Landless/MF/SF/BF	Name of UG/SHG	Educational qualification
2	Jounla	28-6-10		President	Babulal / Madhulal	M	OBC	LL	NRM Activities in Agriculture Land	11th
				Secretary	Shyojiram Jat/ Jagdish Jat	M	OBC	SF	-	B.A.
				Member	Surajmal / Kalyan Meena	M	ST	SF	NRM Activities in Agriculture Land	12th
					Premchand/ Hari Gurjar	M	OBC	SF	NRM Activities in Agriculture Land	5th
					Morpall/Ramkaran Jat	M	OBC	SF	NRM Activities in Agriculture Land	8th
					Rambilas/Ramdayal Gurjar	M	OBC	SF	NRM Activities in Agriculture Land	10th
					Shankar/ Ghasi	M	OBC	MF	Agriculture Production	10th
					Chetan/Hajari Bairwa	M	SC	MF	NRM Activities in Agriculture Land	10th
					Smt.Raja/Kalyan Jat	F	OBC	SF	Durga	Unliterate
					Ranglal/ Ramlal Meena	M	ST	SF	NRM Activities in Agriculture Land	Literate
					Pappu lal/ Kalyan mal Bairwa	M	SC	MF	NRM Activities in Agriculture Land	B.A.
					Smt.Pana devi/ Ramlal	F	OBC	MF	Suman	Literate
					Ramkishan/ Bajrang lal Jat	M	OBC	MF	Agriculture Production	5th
					Smt. Ratan/ Bhanwar Lal Jat	F	OBC	MF	Laxiya	8th
	Smt. Chouti Devi/ Rampratap Jat	F	OBC	LL	Bijasan	Literate				

3	Nathri	26-06-10	President	Jainarayan/Devkaran Gurjar	M	OBC	SF	NRM Activities in Agriculture Land	11th
			Secretary	Prabhudayal/ Hariram Bairwa	M	SC	MF	-	B.A.
			Member	Jainarayan/Gopilal Meena	M	ST	SF	NRM Activities in Agriculture Land	11th
				Radhakishan/ Narayan Gurjar	M	OBC	MF	NRM Activities in Agriculture Land	5th
				Smt. Kamala/ Chutoram Meena	F	ST	SHG	Garima	Literate
				Smt. Prem Devi/ Ramlal Meena	F	ST	SHG	Chetna	Literate
				Phoolchand / Lakhma Gurjar	M	OBC	SF	NRM Activities in Agriculture Land	11th
				Deva/ Jagannath Gurjar	M	OBC	MF	Agriculture Production	B.A.
				Smt. Susila/Devalal Gurjar	F	OBC	MF	Shivaji	Literate
				Smt. Raji / Ramchandra Meena	F	ST	MF	Saraswati	Literate
				Smt. Chandrakanta/ Shankar lal Bairwa	F	SC	MF	Garima	Unliterate
				Smt. Santra / Kamlesh Khatik	F	SC	MF	Chetna	Literate
				Hariram/ Panchu Meena	M	ST	SF	NRM Activities in Agriculture Land	Literate
				Prahlad/ Mangilal	M	ST	LL	Agriculture Production	Unliterate
				Kaluram/ Kalyanmal Gurjar	M	OBC	SF	Agriculture Production	10th
				Shyoji/ Chitar lal Gurjar	M	OBC	SF	NRM Activities in Agriculture Land	Unliterate

S.N.	Name of WCs	Date of Gram Sabha for WC	Date of Registration as a Society (dd/mm/yyyy)	Designation	Name	M/F	SC/ST/O BC/ General	Landless/ MF/SF/ BF	Name of UG/SHG	Educational qualification
4	Bagdi	29-07-11		President	Bhanwar Lal Gurjar / Harnath Gurjar	M	OBC	SF	UG Agri.	8th
				Member	Ramnarayan /Harnath Jat	M	GEN	SF	UG Agri.	8th
					Kanahiyalal / Mool Chand Gurjar	M	OBC	SF	UG Agri	8th
					Prahalad/ Narayan Meena	M	ST	SF	NRM Activities in Agriculture Land	Literate
					Smt.Kamla w/o Sitaram Nayak	F	SC	MF	SHG	Literate
					Smt. Sahida w/o Gulsher	F	OBC	MF	SHG	Literate
					Ramesh / Chothmal Jain	M	Gen.	SF	UG	10h
					Smt. Tulsa w/o Gajendra Sharma	F	Gen.	SF	SHG	Literate
					Smt. Kailashi w/o Shotu	F	OBC	SF	SHG	Literate
					Ratan Lal/ Narayan	M	OBC	SF	UG NRM Activities in Agriculture Land	Literate
					Smt. Lali w/o Satyanarayan Khati	F	OBC	MF	SHG	Literate
					Jagannath / Ladu Jat	M	OBC	SF	UG NRM Activities in Agriculture Land	Literate
					Rameshwar/ Bajrang Jat	M	OBC	SF	UG NRM Activities in Agriculture Land	Literate
					Bhanwar Lal/ Kalyan Gurjar	M	OBC	SF	UG NRM Activities in Agriculture Land	Literate
	Prahlad / Onkar Dhakar	M	OBC	SF	UG NRM Activities in Agriculture Land	Literate				

## **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. **95** ha. land is arable wasteland 240 ha is fallow can be brought under cultivation.

1223 ha is only irrigated and with efforts this can be increased to 1350 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, Agro forestry, fodder crops)and diversification in Livelihoods(Agriculture, Animal husbandry, self employment)

16700 Quintal fodder scarcity can be met out through Pasture development .Improved animal Husbandry practices can increase the productivity of livestock. 336 no of persons migrate due to lack of employment this migration can be checked through creation of employment opportunities in the project area through increase in production and diversification in agriculture and Livelihoods as mentioned above.

**CHAPTER – II**  
**Socio economic Features, Problems and Scope**

**Table 2.1 Population & Household Details:**

Total Population				
Male	Female	Total	SC	ST
4725	4510	9235	1556	1598

Household Details						
BPL Household	Land Less	Small Farmer	Marginal Farmer	Total household	SC household	ST household
320	79	675	214	1556	278	271

**Table 2.2 Development indicators**

S. No.	Development Indicators	State	Project Area
1	Per capita income (Rs.)	16260	15310
2	Poverty ratio	0.22	0.25
3	Literacy (%)	0.604	0.58
4	Sex Ratio	921	937
5	infant mortality rate	--	--
6	maternal mortality ratio	--	--

The table indicates poor socio economic conditions.

**Table 2.3 Land Use**

Land Use	Total area in Ha.				
	Private	Panchayat	Government	Community	Total
Agriculture Land	4379	-	-	-	4379
Temporary fallow	240	-	-	-	240
Permanent Fallow	60	-	38	-	58
Cultivated Rainfed	3096	-	-	-	3096
Cultivated irrigated	1223	-	-	-	1193
Net Sown Area	4289	-	-	-	4404
Net Area sown more than once	1298	-	-	-	1193
Forest Land	-	-	-	-	0
Waste Land	-	-	95	-	95
Pastures	-	-	334	-	334
Others	-	26	370	215	611
<b>Total</b>	-	<b>26</b>	<b>837</b>	<b>215</b>	<b>5457</b>

The project area has 95 ha of cultivable wasteland. 240 ha of fallow land (total 335ha) can be brought under cultivation if some irrigation source can be provided through Construction of WHS like Khadin, Tanka, Farm ponds etc. and also through demonstration of rainfed varieties of crops. Construction of WHS can also increase in area under irrigation which is only 23%, 1223 ha. (7% of

the project area) is under wastelands and pasture can be brought under vegetative cover, with reasonable effort. Activities like Earthen check dams, Pasture development V-ditches, WHS Afforestation of wastelands will be taken up on these lands

**Pasture development** the land use table shows that there is 323 hectare pasture land (7.29%) This emphasizes the need for taking up pastureland development works through sowing of promising species of grasses and plantation

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

Cropping Status												
S. No.	Season	Crop sown	Rain Fed				Irrigated				Total	
			Varieties	Area (ha)	Production (ton)	Productivity (Kg/Ha)	Varieties	Area (ha)	Production (ton)	Productivity (Kg/Ha)	Area (ha)	Production (ton)
1	Kharif											
		Maize	Novjot	340	544	1600	Novjot	20	37	1850	360	
		Jowar	CVS-6	1150	460	400	CVS-6	60	36	600	1210	
		Bajra	Albela	920	644	700	Albela	40	34	850	960	
2	Rabi	Mustard	P.Gold	1520	1520	1000	P.Gold	650	780	1200	2170	
		Wheat	3077	242	605	2500	3077	210	735	3500	552	
		Taramera	T-9	525	525	1000	T-9	175	210	1200	700	
3	Til	Rijaka	Local	50	12.5	250	Local	25	25	1000	75	

**Table 2.4.b Abstract of cropped Area(ha)**

Area under Single crop	2410
Area under Double crop	1298
Area under Multiple crop	70

The farmers are using **Deshi, Local** & varieties of Pvt. Companies Bajra, Jowar, Maize whereas varieties like **HHB-67, CHS-6, PHEM-2** can increase the production of Bajra, Jowar and Maize.

**Crop Rotation\*\*** will vary from project to project

Bajra	-	Wheat
Bajra	-	Fallow
Moong	-	Mustard
Moong	-	Fallow
Fallow	-	Jeera
Fallow	-	Isabgoal
Fallow	-	Lucern
Cluster Bean	-	Fallow
Fallow	-	Taramera
Til	-	Fallow
Caster	-	Caster
Moth	-	Fallow

The table 2.4 b shows that only 1298 ha is (29%) is double cropped area. Also the crop rotation shows that fallow lands are there. This indicates that there is scope for change in crop rotation in fields where there are fallow lands through Soil and Water conservation measures, crop demonstration and diversification in agriculture .

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

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

Name of the crop	Productivity kg/ha				
	Average India (Kg/Ha)	Average prod. In state (Kg/Ha)	Highest Average of Agro climatic zone	District	Project Area
Bajra	886	828	Semiarid Zone iii A	1545	1300
Maige	1912	1737	Semiarid Zone iii A	1227	1200
Moong	-	421	Semiarid Zone iii A	673	400
Wheat	2708	3185	Semiarid Zone iii A	2673	2400
Gram	845	697	Semiarid Zone iii A	502	450
Mustard	1095	1356	Semiarid Zone iii A	769	1600

Analysis of the above table indicate that there is wide gap in productivity between state and National average of maize , Gram, Bajra.

The reasons for this variation are

- The farmers are using varieties of **Desi local** of Pvt. Companies Bajra, Jowar, Maize and other crops whereas the recommended varieties like HHB67 (Bajra), CHS-6 (Jowar), Navjot (Maize) .
- 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 is very less because average rainfall is very less compared to national averages.

**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.

Activity	Area	Species	Varieties	Recommended varieties	Production
Horticulture	--	--	--	--	--
Anwla	0.1	--	Chakaya	NA-7 Chakaya	75-85 Kg. / Plant
Nimbu	0.1	Nimbu	Desi	Kagzi, Baramasi	45-55 Kg /Plant
Vegetables		Cucurbits	--	--	--
Loki	--	--	Local	Marina	2 qt./ha
Tinda	--	--	Local	Mico	2 qt./ha
Floriculture	--	-	--	--	-
	--		--	--	
	--	-	--	--	-
Medicinal Plants	--	-	--	--	-

**Table 2.6 Land holding Pattern in project area**

Type of Farmer	Total Households	Land holding (ha) irrigation source wise			Land holding (ha) Social group wise				
		Irrigated	Rainfed	Total	General	SC	ST	OBC	BPL
(i) Large farmer	267	958	2165	3123	590	348	320	1865	0
(ii) Small farmer	675	275	821	1096	240	247	95	514	0
(iii) Marginal farmer	215	50	110	160	20	38	33	31	38
(iv) Landless person	79	0	0	0	0	0	0	0	0
(V) No. of BPL households	320	0	0	0	0	0	0	0	0
<b>Total</b>	<b>1556</b>	<b>1283</b>	<b>3096</b>	<b>4379</b>	<b>850</b>	<b>633</b>	<b>448</b>	<b>2410</b>	<b>38</b>

57% land holdings belong to small and marginal farmers who own 28% of total cultivated area. Horticulture/vegetables could be more economical to Small and marginal farmers with irrigation source. For large farmers with 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 ,Vegetable kit, Crop demonstration** : As discussed earlier . Horticulture/vegetables could be more economical to Small and marginal farmers with irrigation source.

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

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

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

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

S.No	Description of animals	Population in No.	Yield(milk/mutton/ Wool) (Lit / Day)	Units	Dry matter requirement per year (7Kg per animal.)	Total requirement in M.T.
1	Cows					
	Indigenous	500	1.50-2.00	--	3500	--
	Hybrid	260	2.50-3.00	--	1820	--
2	Buffaloes	1800	3.01-3.50	--	1260	--
3	Goat	1600	--	population /2	1600	--
4	Sheep	2000	--	population /2	2000	--
5	Camel	10	--	--	70	--
6	Poultry	200	--	NA	240	--
7	Piggery	80	--	NA	200	--
	Total	6450	--	--	--	367 Mt.

In spite of the large number of livestock, production is less hence increase in productivity across all species, is a major challenge. To reduce production of unproductive cattle and improve the productivity by improving the breeds by breeding management following activities will be taken up

- Castration
- Artificial insemination
- Distribution of superior Breeding bulls for use in Cattle and Buffalo.
- Breeding distribution crossbred rams, Buck.
- Animals health camps green fodder demonstration.

Besides breed improvement other animal husbandry practices like better health, hygiene and feeding practices can increase productivity of livestock. Hence Activities like Animal health camps 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	24
2	Production of Green fodder	Tonns/year	-
3	Production of Dry fodder	Tonns/ Year	2000
4	Area under Pastures	Ha	334
5	Production of fodder	Tonns/year	
6	Existing area under Fuel wood	Ha	150
7	Supplementary feed	Kgs/ day	850Kgs/Day
8	Silage Pits	No	Nil
9	Availability of fodder	Quintals	200000
10	Deficiency of fodder	Quintals	

The table above shows there is fodder deficiency (Requirement is 3670T and availability 2000T.) 1670T.

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

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

**Table 2.9 Agriculture implements**

1	2	3
S.No.	Implements	Nos.
1	Tractor	53
2	Sprayers-manual/power	286
3	Cultivators/Harrows	48
4	Seed drill	120
5	Any Other Duster	25

**Farm mechanization and seed banks** : As discussed earlier 57 % land holdings belong to small and marginal farmers who own only 28% of total cultivated area so owning of big farm implements by individual farmers is not economical so SHG would be promoted to buy farm implements and rent to farmer

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

Sr. no.	Name of GP/ village	Total No .of job cards	Employment Status	Activity taken up so far
1	Hadikalan	528	410	Desilting of Nadies, WHS, Gravel Road etc.
2	Nathri	645	550	
3	Jounla	1049	735	
4	Bagri	805	630	

**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) Annual
Hadikalan	30	30	Lack of Off Farm activities, Small & fragmented Holdings, Rainfed Ag., Large Family size & Low Wages	90 to 600 km.	Labour in cities	60000 to 120000
Karimpura	06	70		--"--	--"--	--"--
Jounla	45	80		80 to 600 km.	Labour in cities	60000 to 120000
Dhoosri	20	50		--"--	--"--	--"--
Dolatpura	5	60		--"--	--"--	--"--
Nathri	0	0		95 to 610 km.	Labour in cities	60000 to 120000
Masudpura	30	80		--"--	--"--	--"--
Mawasipura	30	80		--"--	--"--	--"--
Sisola	50	80		--"--	--"--	--"--
Bagri	100	80		90 to 600 km.	Labour in cities	60000 to 120000
Rahimpura	05	50		--"--	--"--	--"--
Akbar Nagar	15	60		--"--	--"--	--"--
<b>Total</b>	<b>336</b>					

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

Name of activity	No of House holds	Average annual income from the
cultivators	1356	18000-22000
Dairying	6	20000-22000
Poultry	3	10000-15000
Piggery	6	10000-15000
Landless Agri. Labourers	78	18000-20000

Name of activity	Households/individuals	Average annual income from the
Artisans	30	Rs. 18000-20000
Carpenter	10	Rs. 19000-21000
Blacksmith	3	Rs. 20000-22000
Leather Craft	10	Rs. 13000-14000
Porter	15	Rs. 6000-7000
Mason	40	Rs. 30000-40000
Others specify (Cycle Repair ,STD,Craft etc)	20	Rs. 16000-18000

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

S. No	Name of SHG	Members	Activity involved	Monthly income	Fund available	Assistance available	Source of assistance	Training received	Village
1	Jai Bhawani	10	Tailoring	NIL	4000	NIL	NIL	NIL	Hadikalan
2	Shiv Shakti	10	Flour meal	NIL	16000	NIL	NIL	NIL	Hadikalan
3	Treta	10	Taint House	NIL	4000	NIL	NIL	NIL	Hadikalan
4	Kavita	10	Dairy	NIL	2200	NIL	NIL	NIL	Karimpura
5	Chand	11	Pattal Douna	NIL	4000	NIL	NIL	NIL	Karimpura
6	Durga	11	Manihari	500	32500	20000	BRGB Sohela	NIL	Jounla
7	Suman	11	Genral Stor	600	20000	NIL	NIL	NIL	Jounla
8	Laxshiya	10	Tailoring	NIL	15500	NIL	NIL	NIL	Jounla
9	Bijasan	10	Making Papad	NIL	12200	NIL	NIL	NIL	Jounla
10	Sarita	10	Dairy	NIL	24200	NIL	NIL	NIL	Dolatpura
11	Milan	10	Flour meal	NIL	23200	NIL	NIL	NIL	Dhoosri
12	Garima	10	Tailoring	NIL	55000	NIL	NIL	NIL	Sisola
13	Chetan	10	Tailoring	NIL	25200	NIL	NIL	NIL	Sisola
14	Shivaji	10	Dairy	NIL	2200	NIL	NIL	NIL	Sisola
15	Sarswati	10	Beauty Parlar	NIL	5500	NIL	NIL	NIL	Sisola
16	Kalpna	10	Nageena Machine	NIL	8670	NIL	NIL	NIL	Bagri
17	Begam	20	Beauty Parlar	NIL	25500	NIL	NIL	IWDP Bagari	Bagri
18	Barkat	11	Manihari	500	65677	NIL	NIL	IWDP Bagari	Bagri
19	Chetna	20	Beauty Parlar	NIL	8000	NIL	NIL	IWDP Bagari	Bagri
20	Kanika	13	Flour meal	NIL	2760	NIL	NIL	NIL	Bagri
21	Gagan	10	Genral Stor	600	29500	NIL	NIL	NIL	Bagri

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 Nos.	Area irrigated Ha.	Water availability (days)
i)	Dug wells	95	20-25 Mtr.	51	190	140
ii)	Shallow tube wells	4	70-80 Mtr.	0	10	180
iii)	Pumping sets	105	20-25 Mtr.	0	0	0
iv)	Deep Tube Wells	5	100-125 Mtr.	0	20	230

**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	Hadikalan	91500/day	54900/day	A. Handpump	18	3	2
				B.Well	3	1	1
2	Jounla	105000/day	63000/day	A. Handpump	21	3	3
				B.Well	2	3	1
3	Bagari	100000/day	60000/day	A. Handpump	25	4	2
				B.Well	2	1	0
4	Nathari	92500/day	55500/day	A. Handpump	17	3	3
				B.Well	3	2	1

**Table 2.16 Water Use efficiency**

Name of major crop	Area (Hectare)			Total
	through water saving devices(Drip/Sprinklers)	through water conserving agronomic practices <sup>#</sup>	Any other (pl. specify)	
Mustard, Jowar, Bajara	10 ha.	450 ha	--	460 ha.

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

**Table 2.17 Slope details.**

Slope of Watershed		
S.No.	Slope percentage	Area in hectares
1	0 to 3%	3205
2	3 to 8%	1100
3	8 to 25%	60
4	> 25%	-

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

**Table 2.18 Water Budgeting**

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

Area	Type of Catchment	Yield of runoff from catchment per ha.(cum.) use Stranges table	Total Runoff HM
670	BAD	690	650
2535	GOOD	3800	3100
<b>3205</b>	<b>Total</b>	<b>4490</b>	<b>3750</b>

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

S.No.	Name	No.	Storage Capacity (cum)	Area irrigated (ha)
i)	Major Irrigation Project	0	0	0
ii)	Medium Irrigation Project	1	5150000	510
iii)	Form Ponds/Tanks	15	1450000	250
iv)	Anicuts	4	380000	125
	<b>Total</b>	<b>20</b>	<b>6980000</b>	<b>885</b>

**Table 2.18 c) Balance available runoff (cum)**

Total run off	Net tapped Runoff	Balance Run off	Available for Harvesting (0.75*
1	2	3	4
3750 HM	698 HM	3052 HM	2289 HM

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

**Table 2.19 Soil details**

S.No.	Major Soil Classes	Area in hectares
1	Clay	1335 ha.
2	Silt	1602 ha.
3	Clay loam	910 ha.
4	Sandy loam	1495 ha.
	Soil Depth :	
B	Depth (Cms.)	Area in hectares
1	0.00 to 7.50 60%	3205 ha.
2	7.50 to 45.00	1287 ha.
3	> 45.00	850 ha.

C	Soil fertility Status	Kg/ha	Recommended
	N or O.C.	0.36 %	> 0.5%
	P	28/ha.	>23 Kg.
	K	350/ha.	>144Kg.
	Micronutrients	PPM	
	Zn	0.29	>0.50
	Fe	3.76	>5.00

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

**Table 2.20 Erosion details**

Erosion status in project Area					
Cause	Type of erosion	Area affected (ha)	Run off(mm/ year)	Average soil loss (Tonnes/ ha/ year)	
Water erosion					
a	Sheet	4120	1510	5-6	
b	Rill	872	350	6-7	
c	Gully	350	160	10-15	
<b>Sub-Total</b>		<b>5342</b>			
Wind erosion		-			
<b>Total for project</b>					

The need is:

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

## CHAPTER - III

### Proposed Development Plan :

#### 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 071113/ 3,4,6,7 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.

Gramasabhas 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 Gramasabha approved EPA
1	Nathri	26-06-2010
2	Jounla	28-06-2010
3	Hadikalan	29-06-2010

1	4	5	6	7	8	9	10	11
S. No.	Names of village	Amount earmarked for EPA	Entry Point Activities planned	Estimated cost	Expenditure incurred	Balance	Expected outcome	Actual outcome
1	Hadikalan	5.90	Handpump & Solar light	5.90	5.20	0.70	--	--
2	Jounla	9.31	Tubewell, Hand pump & Solar light	9.31	8.70	0.61	--	--
3	Bagri	5.40	Handpump & Solar light	5.40	0.00	5.40	--	--
4	Nathari	5.03	Handpump & Solar light	5.03	5.03	0.00	--	--

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	Hadikalan	22-12-2010
2	Karimpura	28-12-2010
3	Dolatpura	30-12-2010
4	Dhoosri	05-01-2011
5	Jounla	31-12-2010
6	Mawasipura	13-01-2011
7	Masudpura	15-01-2011
8	Sisola	20-01-2011

Transect 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 **Apr to Sep. 2010** period covering all the households and primary data on demography, Land holdings, Employment status, Community activities etc. was collected as mentioned in chapter 2.

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

Various thematic layers provided by SRSAC are :

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

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

**CHAPTER -IV**  
**Activity wise Total Abstract of cost**  
**A- NRM**

Activity	Unit/size	Quantity	Unit cost Rs.	Total cost lacs	Cost from Project Fund lacs	Convergence Fund lacs	Beneficiary Contribution* lacs
Earthenbund	0.84 m <sup>2</sup>	92.08 km	75/- m.	69.06	69.06	0.00	4.83
Earthanbund	1.40 m <sup>2</sup>	25.09 km	118/- m.	30.55	30.55	0.00	2.10
Earthen structure		43 nos	40000/no	17.20	17.20	0.00	1.20
Waste Weir	4 m	510 No	19000/no	96.90	96.90	0.00	6.70
	6 m	202 No	25000/no	50.50	50.50	0.00	3.50
Anicut / WHS	10m	3 No	2.93 lacs/no	8.79	8.79	0.00	0.45
	15m	7 No	4.24 lacs/no	29.68	29.68	0.00	1.48
	20m	2 No	5.42 lacs/no	10.84	10.84	0.00	0.54
	30m	2 No	6.55 lacs/no	13.10	13.10	0.00	0.65
	30m	1 No	9.79 lacs/no	9.79	9.79	0.00	0.50
	45m	3 No	10.82 lacs/no	32.46	32.46	0.00	1.62
Pasture Dev.	Ha	50 ha	31500/ Ha	15.75	15.75	0.00	0.80
Farmpond	No	150	1.00 lac	0.00	0.00	150.00	0.00
<b>Total</b>				<b>384.62</b>	<b>384.62</b>	<b>150.00</b>	<b>24.37</b>

**B Agriculture Production System**

Activity	Unit	Quantity No.	Unit cost Rs.	Total cost lacs	Cost from Project Fund lacs	Convergence Fund	Beneficiary Contribution* lacs
Drip system	0.5 Ha	20	21000	4.20	4.20	-	1.26
	1.0 Ha	20	34000	6.80	6.80	-	2.04
		20	21000	0.00	0.00	4.20	0.00
Sprinklar system	0.50 Ha	40	12000	4.80	4.80	-	1.80
	1.00 Ha	41	21000	8.61	8.61	-	3.00
	0.50 ha	20	12000	0.00	0.00	2.40	0.00
Horticulture plants	No	7500	110	8.25	8.25	-	2.00
Vermi compost unit	No	190	1000	1.90	1.90	0	0.50
Compost pit	No	255	1000	2.55	2.55	0	0.40
Land Reclamation	No	40	6900	2.76	2.76	-	1.10
	No	50	6900	0.00	0.00	3.45	0.00
Crop Demostratation	No	1780	500 to 1500	18.20	18.20	-	5.10
Fodder demostratation	No	484	1000 to 1500	5.09	5.09	-	1.20
<b>Total</b>				<b>63.16</b>	<b>63.16</b>	<b>10.05</b>	<b>18.40</b>

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

**CHAPTER – V**  
**ANNUAL ACTION PLAN (Through Project Fund)**

(A)	pPreparatory phase activities capacity building trainings & EPA (Area-5342, Total cost-641.04)																			
Activity	Unit	Quantity	Unit Cost Rs.	Total cost lacs	1st year		2nd year		3rd year		4th year		5th year		6th year		7th year		Total Rs. in lacs	
					Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Admn. 10%				64.10		16.02		16.02		16.02		8.02		8.02						64.10
Monitoring 1%				6.41		1.28		1.28		1.28		1.28		1.29						6.41
Evaluation 1%				6.41								3.40		3.01						6.41
EPA 4%				25.64		25.64														25.64
I & CB 5%				32.06		2.02		15.00		15.04										32.06
DPR 1%				6.41		6.41														6.41
<b>Total (A)</b>				<b>141.03</b>		<b>51.37</b>		<b>32.30</b>		<b>32.34</b>		<b>12.70</b>		<b>12.32</b>						<b>141.03</b>
<b>(B)</b>	<b>Natural resource management(60%) 384.62</b>																			
<b>Conservation measures for arable land</b>																				
Earthen Bund 0.84m <sup>2</sup>	Km	92.08 Km	75/-	69.06					42.08	31.56	25	18.75	25	18.75					92.08	69.06
Earthen Bund 1.40m <sup>2</sup>	Km	25.891 Km	118/-	30.55					13.65	16.10	7.25	8.55	5	5.90					25.89	30.55
Earthan Stru.	No	43No	40000/-	17.20					23	9.20	10	4.00	10	4.00					43	17.20
Wasteweir 4m	No	510No	19000/-	96.90					238	45.22	145	27.55	127	24.13					510	96.90
Wasteweir 6m	No	202No	25000/-	50.50					92	23.00	55	13.75	55	13.75					202	50.50
<b>Conservation measures for non arable land</b>																				
Pasture Development	Ha	50Ha	31500/-	15.75					30	9.45	20	6.30							50	15.75
V - dich/ XB Plantation over reads																				
Water Harvesting Structure																				
Afforestation																				
Drainage line treatment																				
MMS I 10M	No	3No	2.93	8.79					3	8.79	0	0.00	0	0					3	8.79
II 15m	No	7No	4.24	29.68					2	8.48	5	21.20	0	0					7	29.68
III 20m	No	2No	5.42	10.84					0	0.00	0	0.00	2	10.84					2	10.84
IV 30m	No	2No	6.55	13.10					0	0.00	0	0.00	2	13.10					1	13.10



**CHAPTER – V**  
**ANNUAL ACTION PLAN (Through Project Fund) (GP Wise)**

(A)	GP1-Hadikalan(Area-1230 , Cost-147.60)																			
Activity	Unit	Quantity	Unit Cost Rs.	Total cost lacs	1st year		2nd year		3rd year		4th year		5th year		6th year		7th year		Total Rs. in lacs	
					Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Admn. 10%				14.76		3.69		3.69		3.69		1.85		1.85						14.76
Monitoring 1%				1.47		0.29		0.29		0.29		0.29		0.31						1.47
Evaluation 1%				1.47								0.82		0.65						1.47
EPA 4%				5.9		5.9														5.90
I & CB 5%				7.4		0.52		3.40		3.48										7.40
DPR 1%				1.47		1.47														1.47
<b>Total (A)</b>				<b>32.47</b>		<b>11.87</b>		<b>7.38</b>		<b>7.46</b>		<b>2.96</b>		<b>2.81</b>						<b>32.47</b>
<b>(B)</b>	<b>Natural resource management(60%)-88.56</b>																			
<b>Conservation measures for arable land</b>																				
Earthen Bund 0.84m <sup>2</sup>	Km	19.31 Km	75/-	14.48					7.31	5.48	6	4.50	6	4.50					19.3	14.48
Earthen Bund 1.40m <sup>2</sup>	KM	4.065 Km	118/-	4.79					3.06	3.61	1.00	1.18	0	0.00					4.06	4.79
Earthan Stru.	No	9No	40000/-	3.60					5	2.00	2	0.80	2	0.80					9	3.60
Wasteweir 4m	No	150No	19000/-	28.50					70	13.30	40	7.60	40	7.60					150	28.50
Wasteweir 6m	No	42No	25000/-	10.50					22	5.50	10	2.50	10	2.50					42	10.50
<b>Conservation measures for non arable land</b>																				
Pasture Development	Ha	10Ha	31500/-	3.15					6	1.89	4	1.26							10	3.15
V - dich/ XB Plantation over reads																				
Water Harvesting Structure																				
Afforestation																				
Drainage line treatment																				
MMS I 10M	No	1	2.93	2.93					1	2.93	0	0.00							1	2.93
II 15m	No	0	0.00	0.00					0	0.00	0	0.00							0	0.00
III 20m	No	0	0.00	0.00					0	0.00	0	0.00							0	0.00
IV 30m	No	0	0.00	0.00					0	0.00	0	0.00	0	0.00					0	0.00



**CHAPTER-V**  
**ANNUAL ACTION PLAN (Through Project Fund) (GP wise)**

GP2-Jounla (Area-1940Ha ,Cost-232.80)																				
(A)																				
Activity	Unit	Unit Cost Rs.	Total cost lacs	1st year		2nd year		3rd year		4th year		5th year		6th year		7th year		Total Rs. in lacs		
				Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Admn. 10%			23.28		5.82		5.82		5.82		2.91		2.91						23.28	
Monitoring 1%			2.33		0.45		0.45		0.45		0.45		0.53						2.33	
Evaluation 1%			2.33		0.00						1.40		0.93						2.33	
EPA 4%			9.31		9.31														9.31	
I & CB 5%			11.64		0.84		4.80		6.00										11.64	
DPR 1%			2.33		2.33														2.33	
<b>Total (A)</b>			<b>51.22</b>		<b>18.75</b>		<b>11.07</b>		<b>12.27</b>		<b>4.76</b>		<b>4.37</b>						<b>51.22</b>	
<b>(B)</b>		<b>Natural resource management(60%)81.00</b>																		
<b>Conservation measures for arable land</b>																				
Earthen Bund 0.84m <sup>2</sup>	Km	31.51 Km	75/-	23.63					14	10.50	9	6.75	8.51	6.38					31.51	23.63
Earthen Bund 1.40m <sup>2</sup>	Km	8.9 Km	118/-	10.51					4.66	5.50	2.25	2.65	2	2.36					8.91	10.51
Earthan Stru.	No.	16No	40000/-	6.40					8	3.20	4	1.60	4	1.60					16	6.40
Wasteweir 4m	No	139No	19000/-	26.41					69	13.11	35	6.65	35	6.65					139	26.41
Wasteweir 6m	No	40No	25000/-	10.00					20	5.00	10	2.50	10	2.50					40	10.00
<b>Conservation measures for non arable land</b>																				
Pasture Development	Ha	20	31500/-	6.30					12	3.78	8	2.52							20	6.30
V - dich/ XB Plantation over reads																				
Water Harvesting Structure																				
Afforestation																				
Drainage line treatment																				
MMS I 10M	No	2	2.93	5.86					2	5.86	0	0.00							2	5.86
II 15m	No	4	4.24	16.96					0	0.00	4	16.96							4	16.96
III 20m	No	1	5.42	5.42					1	5.42	0	0.00							1	5.42
IV 30m	No	1	6.55	6.55					0	0.00	0	0.00	1	6.55					1	6.55



**CHAPTER – V**  
**ANNUAL ACTION PLAN (Through Project Fund) (GP Wise)**

(A)	GP3-Nathri (Area-1047ha ,Cost-125.64)																			
Activity	Unit	Quantity	Unit Cost Rs.	Total cost lacs	1st year		2nd year		3rd year		4th year		5th year		6th year		7th year		Total Rs. in lacs	
					Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Admn. 10%				12.56		3.50		3.50		3.50		1.03		1.03						12.56
Monitoring 1%				1.26		0.25		0.25		0.25		0.25		0.26						1.26
Evaluation 1%				1.26								0.86		0.4						1.26
EPA 4%				5.02		5.02														5.02
I & CB 5%				6.28		0.58		2.50		3.20										6.28
DPR 1%				1.26		1.26														1.26
<b>Total (A)</b>				<b>27.64</b>		<b>10.61</b>		<b>6.25</b>		<b>6.95</b>		<b>2.14</b>		<b>1.69</b>						<b>27.64</b>
<b>(B)</b>	<b>Natural resoure management (60%)75.38</b>																			
<b>Conservation measures for arable land</b>																				
Earthen Bund 0.84m <sup>2</sup>	Km	17.84	75/-	13.38					7.84	5.88	5	3.75	5	3.75					17.8	13.38
Earthen Bund 1.40m <sup>2</sup>	Km	4.41 Km	118/-	5.20					2.41	2.84	1.00	1.18	1	1.18					4.41	5.20
Earthan Stru.	No	10No	40000/-	4.00					6	2.40	2	0.80	2	0.80					10	4.00
Wasteweir 4m	No	49No	19000/-	9.31					29	5.51	10	1.90	10	1.90					49	9.31
Wasteweir 6m	No	50No	25000/-	12.50					20	5.00	15	3.75	15	3.75					50	12.50
<b>Conservation measures for non arable land</b>																				
Pasture Development	Ha	20Ha	31500/-	6.3					12	3.78	8	2.52							20	6.30
V - dich/ XB Plantation over reads																				
Water Harvesting Structure																				
Afforestation																				
Drainage line treatment																				
MMS I 10M	No	0	0.00	0.00					0	0.00	0	0.00							0	0.00
II 15m	No	3	4.24	12.72					2	8.48	1	4.24							3	12.72
III 20m	No	1	5.42	5.42					1	5.42	0	0.00							1	5.42
IV 30m	No	1	6.55	6.55					0	0.00	0	0.00	1	6.55					1	6.55
V 30m	No	0	0.00	0.00					0	0.00	0	0.00	0	0.00					0	0.00



**CHAPTER-V**  
**ANNUAL ACTION PLAN (Through Project Fund) GP Wise**

GP4-Bagri (Area-1125Ha ,Cost-135.00)																				
Activity	Unit	Unit Cost Rs.	Total cost lacs	1st year		2nd year		3rd year		4th year		5th year		6th year		7th year		Total Rs. in lacs		
				Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	
Admn. 10%			13.50		3.75		3.75		3.50		1.25		1.25						13.50	
Monitoring 1%			1.35		0.27		0.27		0.27		0.27		0.27						1.35	
Evaluation 1%			1.35								0.70		0.65						1.35	
EPA 4%			5.4		5.4														5.40	
I & CB 5%			6.75		0.75		3.00		3.00										6.75	
DPR 1%			1.35		1.35														1.35	
<b>Total (A)</b>			<b>29.70</b>		<b>11.52</b>		<b>7.02</b>		<b>6.77</b>		<b>2.22</b>		<b>2.17</b>						<b>29.70</b>	
<b>(B) Natural resource management(60%)81.00</b>																				
<b>Conservation measures for arable land</b>																				
Earthen Bund 0.84m <sup>2</sup>	Km	23.46 Km	75/-	17.59					13.46	10.09	5	3.75	5	3.75					23.5	17.59
Earthen Bund 1.40m <sup>2</sup>	Km	8.506 Km	118/-	10.03					3.506	4.13	3.00	3.54	2	2.36					8.51	10.03
Earthan Stru.	No	8No	40000/-	3.20					4	1.60	2	0.80	2	0.80					8	3.20
Wasteweir 4m	No	172No	19000/-	32.68					70	13.30	60	11.40	42	7.98					172	32.68
Wasteweir 6m	No	70No	25000/-	17.50					30	7.50	20	5.00	20	5.00					70	17.50
<b>Conservation measures for non arable land</b>																				
Pasture Development	Ha	0	0	0					0	0.00	0	0.00							0	0.00
V - dich/ XB Plantation over reads																				
Water Harvesting Structure																				
Afforestation																				
Drainage line treatment																				
MMS I 10M	No	0	0.00	0.00					0	0.00	0	0.00							0	0.00
II 15m	No	0	0.00	0.00					0	0.00	0	0.00							0	0.00
III 20m	No	0	0.00	0.00					0	0.00	0	0.00							0	0.00
IV 30m	No	0	0.00	0.00					0	0.00	0	0.00	0	0.00					0	0.00























**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	16-18	11 Mtr	
2	Ground water structures repaired/ rejuvenated	No.	Nil	7	
3	Quality of drinking water		Floride	De Florination Plant	PHED से Convengence किया जावेगा।
4	Availability of drinking water		Not Sufficient	Sufficient	
5	Change in irrigated Area	Ha	1223	1350	
6	Change in cropping/ land use pattern		Agr+AH	Agri+Horti+AH	
7	Area under agricultural crop	Ha			
	I Area under single crop	Ha	2410	2550	
	ii Area under double crop	Ha	1298	1410	
	iii Area under multiple crop	Ha	70	110	
8	Change in cultivated Area	Ha			
9 yield of major crops of area	Yield of Bajra	q/ha	6/Ha	6.5/Ha	
	Yield of Wheat	q/ha	30/Ha	35/Ha	
	Yield of Gram	q/ha	6.30/Ha	7.50/Ha	
	Yield of Mustard	q/ha	12/Ha	14/Ha	
10 production of major crops of area	Production of Bajra	tones	678 T	710 T	
	Production of Wheat	tones	1040	1150	
	Production of Gram	tones	70	100T	
	Production of Mustard	tones	2300	2410	
11	Area under vegetation	Ha	-	13 Ha	
12	Area under horticulture	Ha	1	40Ha	
13	Area under fuel	Ha	150	210 Ha	
14	Area under Fodder	Ha	20	50	
15	Fodder production	Q	40000	80000	
16	Milk production	Litres/day	2510	3050	
17	SHGs Active	No.	10	20	
18	No. of livelihoods	No.	79	15	
19	Income	Rs.in la	14100	18000	
20	Migration	No.	336	110	
21	SHG Federations formed	No.	-	1	

## **Critical Assumption**

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

## **Means of Verification of indicators**

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

Data maintained by Government department (Revenue, Agriculture, Groundwater, Irrigation, Animal Husbandry)

## **CHAPTER VII**

Technical designs and estimates for proposed activities.

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

## MODEL ESTIMATE FOR DRIP (Irrigation )

Name of W/S : Dolatpura, P.S. Tonk

Name of Scheme : IWMP-III

Area : 0.50 Hect.

Spacing : 6Mx6M

Purpose : ORCHARD

S. No.	Items	Unit	Quantity (No.)	Rate (Rs.)	Amount (Rs.)
1	PVC Pipe 63 MM 4kg/cm2	Mtr.	102	60.00	6120.00
2	Lateral 16MM Ist Class - Ist	Mtr.	900	6.60	5940.00
3	Dripper	Mtr.	300	2.90	870.00
4	Screen Filter	No.	1	3000.00	3000.00
5	Flush Valve	No.	1	100.00	100.00
6	Fertiliser tank Inventory	No.	1	3000.00	3000.00
7	By pass Assembly	No.	1	2200.00	2200.00
<b>Total</b>					21230.00
<b>Accessories &amp; fit</b>					6.00
<b>Total Amount</b>					21236.00
<b>Total Amount (after round off)</b>					<b>21000.00</b>

## MODEL ESTIMATE FOR DRIP (IRRIGATION)

Area : 0.5 Hect.

Spacing : 6M x 6M

Purposle : ORCHARD

Scheme- IWMP-III

Watershed -Dolatpura

P.S. TONK

S.No.	Items	Unit	Quantity	Rate	Amount
1	PVC Pipe 50 MM 6Kg./ cm2	Mtr.	102	58.00	5916.00
2	Lateral 16 mm ISI Class - Ist	Mtr.	900	6.60	5940.00
2	Dripper	Mtr.	300	2.90	870.00
3	Screen Filter	Nos.	1	2800.00	2800.00
4	Flush Value	Nos.	1	100.00	100.00
5	Fertilizer Tank/Ventury	Nos.	1	3000.00	3000.00
6	By Pass Assembly	Nos.	1	1500.00	1500.00
<b>Total</b>					20126.00
<b>Accessories&amp;Fit @ 5/-</b>					1006.00
<b>Total Amount</b>					21132.30
<b>Total Amount (after round off)</b>					21132

## MODEL ESTIMATE FOR DRIP (Irrigation )

Name of W/S : Dolatpura, P.S. Tonk

Name of Scheme : IWMP-III

Area : 1.0 Hect.

Spacing : 6Mx6M

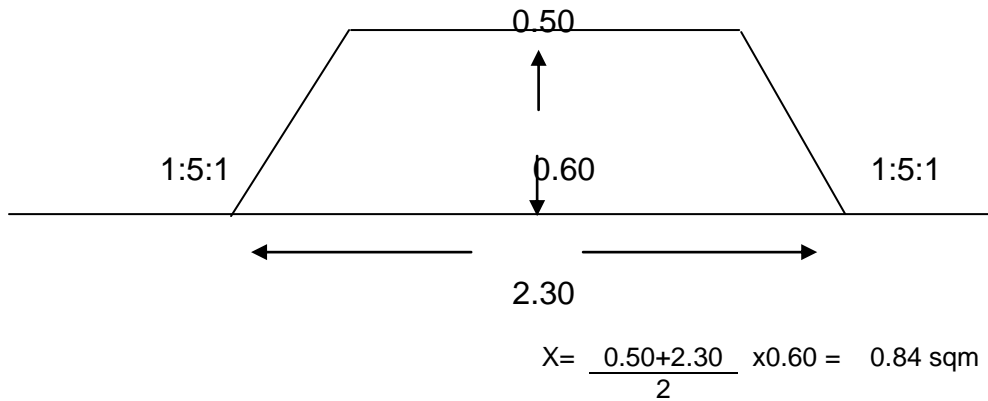
Purposle : ORCHARD

S. No.	Items	Unit	Quantity (No.)	Rate (Rs.)	Amount (Rs.)
1	PVC Pipe 75 MM 4kg/cm2	Mtr.	54	70.00	3780.00
2	PVC Pipe 63 MM 6kg/cm2	Mtr.	102	60.00	6120.00
3	Lateral 12MM Ist Class - Ist	Mtr.	1800	6.60	11880.00
4	Dripper & Lph/4Lph	Nos	600	2.90	1740.00
5	Screen Filter	Nos	1	3000.00	3000.00
6	Control Value 50 MM	Nos	2	500.00	1000.00
7	Flush Value 50 MM	Nos	2	100.00	200.00
8	Ventury	Nos	1	3000.00	3000.00
9	By pass Assembly	Nos	1	2200.00	2200.00
<b>Total</b>					<b>32920.00</b>
<b>Accessories &amp; fit @ 5/-</b>					<b>1590.00</b>
<b>Total Amount</b>					<b>34510.00</b>
<b>Total Amount (after round off)</b>					<b>34000.00</b>

## MODEL ESTIMATE

Name of Work : Construction of Earthen Bund in Arable Land

Length	=	1.00M
Top Width	=	0.50 M
Bottom Width	=	2.30 M
Height of Bund	=	0.60 M
Side slope U/s D/s	=	1.5:1
Cross Section of Bund	=	0.84 sqm

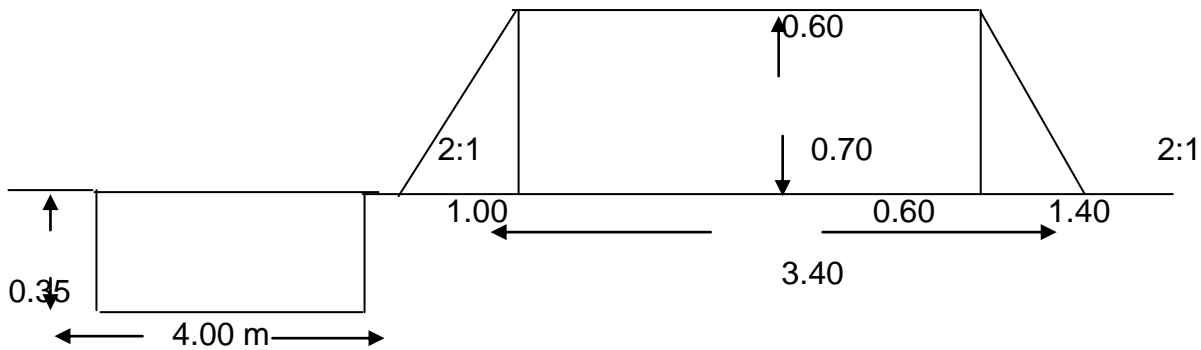


S.No.	Item	Qty.	Rate	Amount
1	Dag belling 5 to 7 cm deep 2x1.00=2.00m	2.00	0.52	/Rmt 1.04
2	Jungle clearance ordinary 1.00x6.00=6.00sqm	6.00	1.20	s/qm 7.20
3	Earth work for Bund/Embankment in dry or moist Soil C/C Laying layers of 15 cms breaking of clods, sorting of grassp bebbles etc. & dressing in required profile when compacted manually or by plain roller with in initial lead of 50 mtr & lift 1.5 M for Hard Soil.	0.84	75.00	/Cum 63.00
4	Sowing of castor seed by notching or dibbling on the bund at spacing of 0.50 M.	2.00	0.52	M 1.04
5	Cost of Seed Dhaman/stylo hemeta & Castor	L.S.		0.55
	TOTAL			72.83
	Add 3% Contengency			2.18
				Rs. 75.01
				Say 75/-Per Rmt

## MODEL ESTIMATE

Name of Work : Construction of Earthen Bund in Arable Land

Length	=	1.00M
Top Width	=	0.60 M
Bottom Width	=	3.40 M
Height of Bund	=	0.70 M
Side slope U/s D/s	=	2:01
Cross Section of Bund	=	1.40 sqm



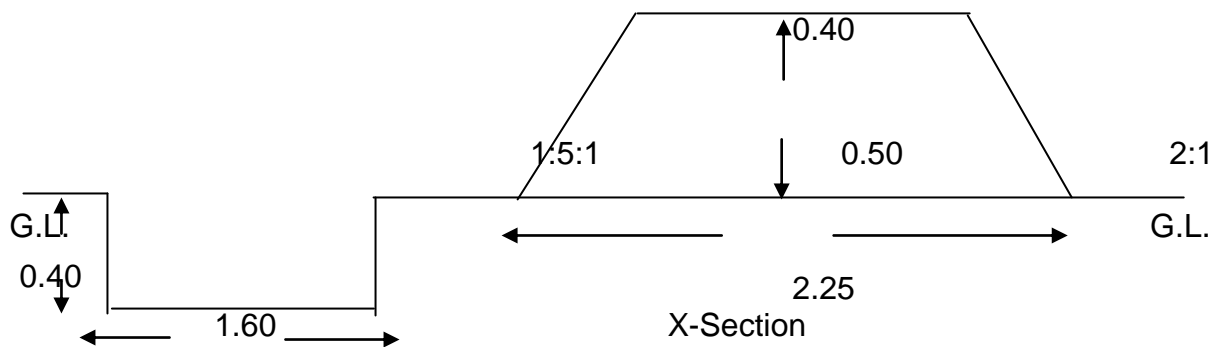
S.No.	Item	Qty.	Rate	Unit	Amount
1	Dag belling 5 to 7 cm deep 2x1.00=2.00m	2.00	0.52	/Rmt	1.04
2	Jungle clearance ordinary 1.00x6.00=6.00sqm	6.00	1.20	s/qm	7.20
3	Earth work for Bund/Embankment in dry or moist Soil C/C Laying layers of 15 cms breaking of clods, sorting of grassp bebbles etc. & dressing in required profile when compacted manually or by plain roller with in initial lead of 50 mtr & lift 1.5 M for Hard Soil.	1.40	75.00	/Cum	105.00
4	Sowing of castor seed by notching or dibbling on the bund at spacing of 0.50 M.	2.00	0.52	M	1.04
5	Cost of Seed Dhaman/stylo hemeta & Castor	L.S.			0.55
	TOTAL				114.83
	Add 3% Contengency				3.44
				Rs.	118.27
				Say	118/-Per Rmt



## MODEL ESTIMATE OF ARABLE LAND (CONTOUR BUND)

Cross Section of bund-0.64 sqm

S.No.	Item	Qty.	Unit	Rate	Amount
1	Dug belling work up to 5-7 cm depth	400	Rm	0.74	296.00
2	Earth work in hard soil for construction of bund including ramming of bund including ramming compaction and dressing up to the lead of 50m and lift 1.5m	64	Cum	75.00	4800.00
3	Sowing of seed on bunds	300	Rm	0.52	156.00
4	Grass seed				0.00
	Stylohemata	1	LS	38.00	38.00
	Dhaman	2	LS	40.00	80.00
	<b>TOTAL</b>				<b>5370.00</b>
	Add 3% Contengency				161.10
	<b>Grand Total</b>				<b>5531.10</b>
				Say	<b>5531</b>



## MODEL ESTIMATE FOR SPRINKLER SYSTEM

Name of W/S : Dolatpura, P.S. Tonk

Name of Scheme : IWMP-III

Area : 1.0 Hect.

S. No.	Items	Unit	Rate (Rs.)	Quantity (No.)	Amount (Rs.)
1	HDPE Sprinkler Pipe 90 MM Porex Brand	No	550	30	16500
2	HDPE Sprinkler Pipe 90 MM 3	No	300	1	300
3	NOZEL BI 12232 ROLEX BRAND	No	300	5	1500
4	RISER PIPE GI 3 NO.	No	80	5	400
5	Adoptor full Button ROLEX BRAND	No	250	5	1250
6	Tec 90 MM HDPE Rolex	No	300	1	300
7	NOZEL 90 MM HDPE ROLEX	No	250	1	250
8	PIN 90 MM HDPE Rolex	No	180	1	180
9	END CAP 90 MM HDPE ROLEX BRANS	No	160	1	160
<b>TOTAL</b>					<b>20840</b>
<b>Say Rs.</b>					<b>21000</b>



## MODEL ESTIMATE FOR SPRINKLER SYSTEM

Name of W/S : Dolatpura, P.S. Tonk

Name of Scheme : IWMP-III

Area : 0.5 Hect.

S. No.	Items	Unit	Rate (Rs.)	Quantity (No.)	Amount (Rs.)
1	HDPE Sprinkler Pipe 90 MM 1.0 No.	No	880	10	8800
2	HDPE Sprinkler Pipe 90 MM	No	100	3	300
3	NOZEL is 12232 Pipe BRAND	No	300	3	900
4	RISER PIPE GI 3 NO.	No	80	3	240
5	Adoptor full Button 90 MM	No	425	3	1250
6	Tec 90 MM HDPE Rolex	No	300	1	300
7	NOZEL 90 MM HDPE ROLEX	No	250	1	250
8	PCN 90 MM HDPE	No	180	1	180
9	END CAP 90 MM HDPE ROLEX BRAND	No	60	1	60
<b>TOTAL</b>					<b>12280</b>
<b>Say Rs.</b>					<b>12000</b>

## MODEL ESTIMATE FOR CROP DEMONSTRATION OF KHARIF CROP

Name of W/S : Dolatpura, P.S. Tonk

Name of Scheme : IWMP-III

Area : 0.5 Hect.

Name of crop : Jowar

S. No.	Activity	Type	Unit	Rate (Rs.)	Quantity (No.)	Amount (Rs.)
1	Seed	CHS-6,15	Kg.	55/kg	5	275.00
2	Seed Treatment	Thiram	gm.	25/100g	12	4.00
3	Culture	Ejetobector	Packet	10/Each	2	20.00
		PSM	Packet	10/Each	2	20.00
4	Fertilizer					
	a. Uriya	Spreading	Kg.	5.50	40	220.00
	b. DAP		Kg.	10.50	50	525.00
<b>TOTAL</b>						<b>1064.00</b>
						<b>Say Rs. 1100.00</b>

## MODEL ESTIMATE FOR FODDER DEMONSTRATION OF KHARIF CROP

Name of W/S : Dolatpura, P.S. Tonk

Name of Scheme : IWMP-III

Area : 0.50 Hect.

Name of crop : Jowar

S. No.	Activity	Type	Unit	Rate (Rs.)	Quantity (No.)	Amount (Rs.)
1	Seed (चारे हेतु)	CHS-6,15	Kg.	55/kg	13	715.00
2	Seed Treatment	Thiram	gm.	25/100g	25	6.25
3	Culture	Ejetobector	Packet	10/Each	2	20.00
		PSM	Packet	10/Each	2	20.00
4	Fertilizer	a. Uriya	Kg.	5.50	40	220.00
		b. DAP	Kg.	10.50	50	525.00
<b>TOTAL</b>						<b>1506.25</b>
<b>Say Rs.</b>						<b>1500.00</b>

## MODEL ESTIMATE

Name of W/S : Dolatpura W/S, P.S. TONK

Name of Scheme : IWMP-III

Name of Work : CONTOUR VEGETATIVE HEDGE (V-DITCH) IN NON ARABLE LAND  
LENGTH OF CONTOUR FURROW : 400 m/Ha.

CROSS SECTION : 0.06 Sqm.

S.No.	PARTICULARS	Unit	Qty.	Rate	Amount
1	Dag belling 5-7 cms deep.	M	800	0.52	416.00
2	Excavation in following type of soil dry or moist i/c disposal of excavated soil Hard Soil	Cum	24	81.00	1944.00
3	Sowing of stylo/dhaman grass on top of ridge 3/4 th length	M	300	0.52	156.00
4	Notching of seeds 3/4 th length	M	300	0.52	156.00
5	Cost of Seed	Kg	5	100.00	500.00
	<b>TOTAL</b>				<b>3172.00</b>
	<b>Add 3% Contengency</b>				<b>95.16</b>
	<b>TOTAL</b>				<b>3267.16</b>
				<b>Say</b>	<b>3300/- ha</b>

## MODEL ESTIMATE

Name of W/S : Dolatpura W/S, P.S. TONK

Name of Scheme : IWMP-III

Name of Work : PLANTATION WORK

Location : Pasture Block Dolatpura W/S

S.No.	PARTICULARS	Unit	Qty.	Rate	Amount
1	Excavation in ordinary morrum mixed with bajari, kankar or boulders etc. lead upto 30M. Lift 1.5 Hard Soil	No.	200	6.00	1200.00
2	Plantation of plants including filling of earth & ramming of sllil i/c 20% gap filling	No.	240	2.60	624.00
3	Application antitermites (insecticides & fertilizers)	No.	240	0.30	72.00
4	Labour charges for watering of plants (6 Nos. for the project period)	No.	1440	1.50	2160.00
5	Labour charges for transportation of plants from nursery to planting site upto 20 Kms lead	No.	240	1.00	240.00
6	Weeding & of plants in the fields 4 Nos.	No.	960	1.10	1056.00
7	Supply of farm yard manares 120 Kgs.	Qtl.	120	3.00	360.00
8	Supply of Anti termities	Lit.	1.00	350	350.00
9	Provision of watch & ward for two years one man for 20 ha @3500/- month 20 ha cost Rs. 84,000/- p.ha. Cost Rs. 4200/-	Ha	1	4200	4200.00
	<b>TOTAL</b>				<b>10262.00</b>
	<b>Add 3% UCR</b>				<b>307.86</b>
	<b>G.Total</b>				<b>10569.86</b>
				<b>Say</b>	<b>10600/- ha</b>

## MODEL ESTIMATE

Name of W/S : Dolatpura W/S, P.S. TONK

Name of Scheme : IWMP-III

Name of Work : OVER SEEDING BY TRACTOR PLOUGLING IN NON ARABLE LAND

Location : Pasture Block Dolatpura W/S

S.No.	PARTICULARS	Unit	Qty.	Rate	Amount
1	Grass seeding with the help of tractors with 9 times cultivators & dibbing of grass seed 80% area	Ha	0.8	500	400.00
2	Cost of grass seeds-				
a)	Dhaman grass seeds	Kg.	6	150	900.00
b)	Stylo hameta	Kg.	2	150	300.00
	<b>TOTAL</b>				<b>1600.00</b>
	<b>Add 3% Contengency</b>				<b>48.00</b>
	<b>G.Total</b>				<b>1648.00</b>
				<b>Say</b>	<b>1650/- ha</b>

## MODEL ESTIMATE FOR CROP DEMONSTRATION OF KHARIF CROP

Name of W/S : Dolatpura, P.S. Tonk

Name of Scheme : IWMP-III

Area : 0.5 Hect.

Name of crop : Urad (Black  
Gram)

S. No.	Activity	Type	Unit	Rate (Rs.)	Quantity (No.)	Amount (Rs.)
1	Seed		Kg.	86/kg	8	688.00
2	Seed Treatment	Thiram	gm.	25/100g	6	2.00
3	Culture	PSM	Packet	10/Each	2	20.00
		Rijobiam	Packet	10/Each	2	20.00
4	Fertilizer	a. Uriya	Kg.	5.50	70	385.00
		b. DAP	Kg.	10.50	33	346.50
<b>TOTAL</b>						<b>1461.50</b>
<b>Say Rs.</b>						<b>1500.00</b>

## MODEL ESTIMATE FOR CROP DEMONSTRATION OF KHARIF CROP

Name of W/S : Dolatpura, P.S. Tonk

Name of Scheme : IWMP-III

Area : 0.5 Hect.

Name of crop : Moong (Green Gram)

S. No.	Activity	Type	Unit	Rate (Rs.)	Quantity (No.)	Amount (Rs.)
1	Seed	RMG-62, K-851	Kg.	85/kg	8	680.00
2	Seed Treatment	Thiram	gm.	25/100g	6	2.00
3	Culture	PSM	Packet	10/Each	2	20.00
		Rijobiam	Packet	10/Each	2	20.00
4	Fertilizer	a. Uriya	Kg.	5.50	70	385.00
		b. DAP	Kg.	10.50	33	346.50
<b>TOTAL</b>						<b>1453.50</b>
						<b>Say Rs. 1500.00</b>

## MODEL ESTIMATE FOR CROP DEMONSTRATION OF RABI CROP

Name of W/S : Dolatpura, P.S. Tonk

Name of Scheme : IWMP-III

Area : 0.5 Hect.

Name of crop : Gram

S. No.	Activity	Type	Unit	Rate (Rs.)	Quantity (No.)	Amount (Rs.)
1	Seed	RSG-888,44	Kg.	25/kg	40	1000.00
2	Seed Treatment	Thiram	gm.	25/100g	100	25.00
3	Culture	PSM	Packet	10/Each	3	30.00
		Rijobiam	Packet	10/Each	3	30.00
4	Fertilizer	a. Uriya	Kg.	5.50	30	165.00
		b. DAP	Kg.	10.50	20	210.00
<b>TOTAL</b>						<b>1460.00</b>
<b>Say Rs.</b>						<b>1500.00</b>

## MODEL ESTIMATE FOR CROP DEMONSTRATION OF RABI CROP

Name of W/S : Dolatpura, P.S. Tonk

Name of Scheme : IWMP-III

Area : 0.5 Hect.

Name of crop : Wheat

S. No.	Activity	Type	Unit	Rate (Rs.)	Quantity (No.)	Amount (Rs.)
1	Seed	Lok-1, Raj-3065, WH-147	Kg.	20/kg	50	1000.00
2	Seed Treatment	Thiram	gm.	25/100g	150	37.50
3	Culture	Ejetobector	Packet	10/Each	2	20.00
		PSM	Packet	10/Each	2	20.00
4	Fertilizer	a. Uriya	Kg.	5.50	50	275.00
		b. DAP	Kg.	10.50	30	315.00
<b>TOTAL</b>						<b>1667.50</b>
						<b>Say Rs. 1700.00</b>

## MODEL ESTIMATE FOR CROP DEMONSTRATION OF RABI CROP

Name of W/S : Dolatpura, P.S. Tonk

Name of Scheme : IWMP-III

Area : 0.50 Hect.

Name of crop : Mustard

S. No.	Activity	Type	Unit	Rate (Rs.)	Quantity (No.)	Amount (Rs.)
1	Seed	Bio-902, RH-3	Kg.	27/kg	2 kg	54.00
2	Seed Treatment	Mainkojeb 2 g per kg seed	Kg.	400/kg	4g	2.00
3	Culture	PSM	Packet	10/Each	2	20.00
		Rijobiam	Packet	10/Each	2	20.00
4	Fertilizer	a. Uriya	Kg.	5.50	30	165.00
		b. Fasforas	Kg.	10.50	20	210.00
<b>TOTAL</b>						<b>471.00</b>
<b>Say Rs.</b>						<b>500.00</b>

## MODEL ESTIMATE FOR CROP DEMONSTRATION OF KHARIF CROP

Name of W/S : Dolatpura, P.S. Tonk

Name of Scheme : IWMP-III

Area : 0.5 Hect.

Name of crop : Bajara

S. No.	Activity	Type	Unit	Rate (Rs.)	Quantity (No.)	Amount (Rs.)
1	Seed	HHB-67	Kg.	70/kg	2	140.00
2	Seed Treatment	Thiram	gm.	25/100g	12	4.00
3	Culture	Ejetobector	Packet	10/Each	2	20.00
		PSM	Packet	10/Each	2	20.00
4	Fertilizer	a. Uriya	Kg.	5.50	40	220.00
		b. DAP	Kg.	10.50	50	525.00
<b>TOTAL</b>						<b>929.00</b>
						<b>Say Rs. 1000.00</b>

## MODEL ESTIMATE FOR CROP DEMONSTRATION OF KHARIF CROP

Name of W/S : Dolatpura, P.S. Tonk

Name of Scheme : IWMP-III

Area : 0.5 Hect.

Name of crop : Bajara

S. No.	Activity	Type	Unit	Rate (Rs.)	Quantity (No.)	Amount (Rs.)
1	Seed (चारे हेतु)	HHB-67	Kg.	70/kg	2.5 kg	175.00
2	Seed Treatment	Thiram	gm.	25/100g	15g	5.00
3	Culture	Ejetobector	Packet	10/Each	2	20.00
		PSM	Packet	10/Each	2	20.00
4	Fertilizer	a. Uriya	Kg.	5.50	40	220.00
		b. DAP	Kg.	10.50	50	525.00
<b>TOTAL</b>						<b>965.00</b>
<b>Say Rs.</b>						<b>1000.00</b>

## MODEL ESTIMATE FOR RECLAMATION OF ALKALI SOIL/HA.

Name of W/S : Dolatpura, P.S. Tonk

Name of Scheme : IWMP-III

Area : 1.00 Ha.

S.No.	Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	Zypsam	Qt.	98	35/Bag	3430.00
2	Repeat for next yr.	Qt.	98	35/Bag	3430.00
<b>Total</b>					6860.00
<b>Say Rs.</b>					6900.00

## MODEL ESTIMATE OF VERMI COMPOST

Name of W/S : Dolatpura, P.S. Tonk

Name of Scheme : IWMP-III

S.No.	Items	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	Verms (earth verm) for vermi compost	Kg	5kg	180/kg	900.00
2	Training Materials				300.00
<b>Each Demonstration</b>					1200.00

## MODEL ESTIMATE FOR FARMPOND

Name of Work :- Construction of Farmpond (कच्चा)

Name of W/S : Dolatpura, P.S. Tonk

Name of Scheme : IWMP-III

S.No.	Items	Qty. (Cum)	Labour		Amount	
			Rate	Amount (Rs.)	Rate	Amount (Rs.)
1	नींव खाई में 1.5मी. गहराई तक मिट्टी की खुदाई सख्त, चिकनी, कंकर मिट्टी में 18x12x1 = 216 cum	216	81.00	17496.00	81.00	17496.00
2	नींव खाई में 1.5मी. गहराई तक मिट्टी की खुदाई, विघटित चट्टान में 18x10x3 = 540 cum	540	118.00	63720.00	118.00	63720.00
	Lift 2 अतिरिक्त lift	540	20.00	10800.00	20.00	10800.00
<b>Total</b>						<b>92016.00</b>
<b>Labour charges for making bund structures</b>						6500.00
<b>Total Amount</b>						<b>98516.00</b>
<b>Say Rs. In lacs</b>						<b>1.00 lac</b>

## List Of Works - Earthen Bund with waste weir (L-4, L-6)

Village - Hadikalan

G.P.- Hadikalan

Sn	Khasra No.	Length of Bund (mtr)		waste weir (No.)		Earthan Structure
		0.84 m <sup>2</sup>	1.40 m <sup>2</sup>	4m	6m	
1	634, 635,632, 633, 639, 640, 641, 643, 662, 663, 664	1200	0	6	0	0
2	1, 2, 5, 6, 7/2007, 8,10, 12, 13, 14, 15, 16, 19, 22, 23, 25, 27, 30	0	450	0	3	1
3	627, 645,661,660,667,657	600	0	3	0	0
4	33, 34,35,36, 37,38,39, 43, 45,46,47,49,54	0	520	0	5	0
5	648, 654, 653	450	0	3	0	0
6	70, 71,73,68,64,63,84, 83, 85,81,78,88,87	0	570	0	4	2
7	1542, 1543, 1544, 1539, 1540, 1537,1535,1534	900	0	5	0	0
8	800, 807, 815, 860, 865, 888, 858, 869, 879, 873, 849, 852, 876	0	560	0	5	2
9	670, 671, 672, 673, 676,677, 678	720	0	4	0	0
10	1546, 1547, 1549, 1550, 1553, 1554	600	0	3	0	0
11	444, 441, 448, 449, 451, 443	650	0	3	0	0
12	1790, 1788, 1782, 1783, 1784, 1785, 1787, 1792, 1793, 1794	600	0	3	5	0
13	1799, 1800, 1801, 1802, 1803, 1805	800	0	4	0	0
14	1764, 1758, 1770, 1771, 1772, 1773, 1774, 1775, 1776, 1778	1600	0	8	0	0
15	1822, 1823, 1824, 1825, 1827, 1826, 1828, 1830, 1832, 1834	1200	0	6	0	0
16	1617, 1618, 1619, 1621, 1622, 1623, 1626, 1624, 1627, 1630, 1632	1150	0	6	0	0
17	1920, 1922, 1925, 1927, 1928,1934	740	0	6	0	0
<b>Total</b>		<b>11210</b>	<b>2100</b>	<b>60</b>	<b>22</b>	<b>5</b>

**List Of Works - Earthen Bund with waste weir (L-4, L-6)**

Village - Karimpura

G.P.- Hadikalan

Sn	Khasra No.n n	Length of Bund (mtr)		waste weir (No.)		Earthan Structure
		0.84 m <sup>2</sup>	1.40 m <sup>2</sup>	4m	6m	
1	1, 2, 3, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 20, 18, 26, 27, 28, 30, 29	950	0	7	0	0
2	160, 158, 163, 169, 168, 159, 185	0	400	5	2	1
3	34, 37, 38, 41, 40, 43, 45, 46, 47, 48, 49, 50, 52, 53, 54, 55	1150	110	8	0	0
4	208, 203, 199, 211, 212, 214, 217	0	645	5	3	1
5	62, 63, 64,65,67,68,71,72, 73,74,75,77,78,80, 81,82, 84	1050	140	8	3	0
6	101, 102, 103, 107, 108, 109, 110, 111, 116, 117, 132, 134	1170	0	7	2	0
	<b>Total</b>	<b>4320</b>	<b>1295</b>	<b>40</b>	<b>10</b>	<b>2</b>

## List Of Works - Earthen Bund with waste weir (L-4, L-6)

Village - Sisola

G.P.- Nathari

Sn	Khasra No.	Length of Bund (mtr)		waste weir (No.)		Earthan Structure
		0.84 m <sup>2</sup>	1.40 m <sup>2</sup>	4m	6m	
1	3, 11, 9, 6,4,16,15,17,18, 19,20	0	310	0	3	0
2	27, 26, 14, 43, 41, 42, 33, 38, 28, 45, 44	500	0	2	0	0
3	51, 54, 55, 58, 50, 61, 62, 63, 64, 65, 66	0	250	0	2	0
4	70, 71, 74, 79, 75, 77, 79, 81, 85, 90	500	0	2	0	0
5	88, 92, 98, 97, 99, 105	300	0	2	0	0
6	128/688, 128/669, 128/2, 128/690, 127	400	0	2	0	0
7	156, 160, 162, 164, 157, 149, 146, 145, 137, 138, 136, 132	590	0	3	0	0
8	126, 123, 117, 120, 127, 121	0	170	0	2	0
9	181/699, 181/693, 168, 175, 176, 180, 181/695, 181/697, 169	550	0	3	0	0
10	170, 173, 172, 178, 184, 186, 190	0	310	0	5	1
11	193, 194, 195, 197, 205	650	0	2	0	0
12	568, 540, 544, 543, 542, 545, 569, 574, 566, 563	750	0	2	0	1
13	660, 662, 661, 666, 672, 673, 663	310	0	2	0	0
14	549, 551/173, 552/710, 550, 245, 342,338, 339, 363, 387	810	0	3	0	1
15	229, 231, 228, 120, 239, 238, 213	550	0	2	0	0
16	630, 629, 628, 627, 623, 632, 631, 622, 624, 625, 626, 634, 638, 637, 645, 643, 644, 641	1150	0	4	0	1
17	606, 609, 608, 589, 601, 605, 603	500	0	2	0	0
18	587, 651, 648, 647, 646, 649, 650, 657, 654, 667, 614	600	0	2	0	0
19	445, 448/689, 450, 468, 469, 471	0	350	0	4	0
20	510, 509, 721/511, 483, 482, 481, 588, 585, 600, 593, 592	0	410	0	4	1
<b>Total</b>		<b>8160</b>	<b>1800</b>	<b>33</b>	<b>20</b>	<b>5</b>

**List Of Works - Earthen Bund with waste weir (L-4, L-6)**

Village -Akbnarnagar

G.P.- Bagari

Sn	Khasra No.	Length of Bund (mtr)		waste weir (No.)		Earthan Structure
		0.84 m <sup>2</sup>	1.40 m <sup>2</sup>	4m	6m	
1	1, 2,4,7,13,10,16,19,21, 24, 27,29	0	1390	0	10	0
2	37, 31, 34, 38, 42, 43, 44, 47, 48, 50, 56, 61/1, 61/2, 61/3, 61/4, 67,68,69	1870	0	13	0	0
3	72, 74, 76,83,74/249, 86,89, 90,92	800	0	6	0	0
4	102,103, 104, 105, 110, 111, 112, 113, 116, 120, 121, 123, 125, 127, 129, 128	1450	0	10	0	1
5	130, 131, 134, 137, 138, 141, 146, 147, 148, 149, 152, 153, 154, 155/2, 158, 160	1330	0	10	0	1
6	194, 195, 196, 185, 204, 205, 206, 207, 208, 209/1, 209/2, 211, 212, 214, 213	1000	0	7	0	1
7	215, 216, 219, 220, 221, 222/1, 222/2, 223/1, 223/2, 225	0	800	0	5	1
8	231, 233, 239, 240, 243, 244, 247	700	0	4	0	0
	<b>Total</b>	<b>7150</b>	<b>2190</b>	<b>50</b>	<b>15</b>	<b>4</b>

**List Of Works - Earthen Bund with waste weir (L-4, L-6)**

Village -Dhoosri

G.P.- Jounla

Sn	Khasra No.	Length of Bund (mtr)		waste weir (No.)		Earthan Structure
		0.84 m <sup>2</sup>	1.40 m <sup>2</sup>	4m	6m	
1	2, 3, 4, 7, 8, 9, 14, 15, 16, 17, 19, 21, 22, 24, 29, 37	0	2000	0	10	2
2	40, 43, 45, 46, 48, 49, 51, 52, 55, 56, 57, 58, 66, 67, 70, 73, 74	2200	0	15	0	2
3	69, 71, 75, 77, 78, 79, 80, 90, 95	1640	0	0	0	0
4	101, 104, 109, 111, 113, 120, 127	0	800	0	5	1
5	133, 134, 137, 140, 141, 145, 146, 147, 148, 157, 172, 175, 180, 181, 182, 188, 195, 196, 187, 179, 184, 183	2250	0	18	0	1
6	197, 198, 207, 230, 275, 277, 286, 217, 218, 243, 282, 284	1000	0	10	0	0
7	341, 352, 402, 324, 442, 480, 481	0	500	0	3	0
8	517, 554, 586, 576, 546, 619/749	0	810	0	5	0
9	634, 636, 647, 648, 649, 650, 654, 658, 663, 666, 667, 670, 673, 678, 679, 681, 685, 687, 689, 698	3600	0	16	0	1
10	712, 728, 729, 731, 733, 734, 735, 737, 739, 741, 742, 732, 740	1620	0	11	0	0
	<b>Total</b>	<b>12310</b>	<b>4110</b>	<b>70</b>	<b>23</b>	<b>7</b>

### List Of Works - Earthen Bund with waste weir (L-4, L-6)

Village - Mawasipura

G.P.- Nathari

Sn	Khasra No.	Length of Bund (mtr)		waste weir (No.)		Earthan Structure
		0.84 m <sup>2</sup>	1.40 m <sup>2</sup>	4m	6m	
1	15, 16, 17, 18, 25, 27, 28	340	0	1	0	1
2	29, 32, 37, 40	300	0	1	0	0
3	67, 68, 60, 45, 46, 75	450	0	1	0	1
4	48	0	300	0	1	1
5	56, 54, 55, 51, 59	250	0	0	0	0
6	76	0	150	0	1	0
7	47, 49/519, 100, 95, 83, 82, 81	410	0	2	0	0
8	85, 79, 52, 50, 84	310	0	0	0	0
9	120, 125, 123, 121	305	0	0	0	0
10	360, 340, 369, 370, 371	0	240	0	6	1
11	387, 392, 389, 390	0	150	0	5	1
12	130, 131	0	240	0	2	0
13	401, 402, 403, 354	350	0	0	0	0
14	142, 143, 147	550	0	0	0	0
15	151, 138, 146	450	0	0	0	0
16	132, 176, 175	400	0	0	0	0
17	169, 167, 173, 175	660	0	0	0	0
	<b>Total</b>	<b>4775</b>	<b>1080</b>	<b>5</b>	<b>15</b>	<b>5</b>

## List Of Works - Earthen Bund with waste weir (L-4, L-6)

Village -Masoodpura

G.P.- Nathari

Sn	Khasra No.	Length of Bund (mtr)		waste weir (No.)		Earthan Structure
		0.84 m <sup>2</sup>	1.40 m <sup>2</sup>	4m	6m	
1	3, 6, 10, 11, 12, 15, 19	500	0	1	0	0
2	27, 29, 45, 46, 47, 49	460	0	1	0	0
3	52, 54, 60, 61, 64, 70, 73, 74, 78	600	0	1	0	0
4	80, 81, 82/318, 82/2, 83, 84,89	700	0	1	0	0
5	93, 95, 99, 97, 100, 101, 102, 103, 108, 110	715	0	2	0	0
6	111, 114, 116, 121, 124, 128	400	0	1	0	0
7	134, 138, 137, 145, 147, 149	400	0	1	0	0
8	154, 156, 157, 158, 159, 162, 164, 166	420	0	1	0	0
9	167, 100/312, 216, 217, 218, 250, 252, 253	710	0	2	0	0
10	168, 171, 174, 176, 187, 188, 185, 193	0	370	0	3	0
11	208, 209, 211, 210, 222, 223	0	310	0	3	0
12	246, 244, 258, 239, 256, 257, 237, 236, 235, 260	0	440	0	4	0
13	230, 261, 267, 266,265, 182, 308, 276	0	410	0	5	0
<b>Total</b>		<b>4905</b>	<b>1530</b>	<b>11</b>	<b>15</b>	<b>0</b>

**List Of Works - Earthen Bund with waste weir (L-4, L-6)**

Village - Dolatpura

G.P.- Jounla

Sn	Khasra No.	Length of Bund (mtr)		waste weir (No.)		Earthan Structure
		0.84 m <sup>2</sup>	1.40 m <sup>2</sup>	4m	6m	
1	4, 5, 6, 10, 11,15,17, 20, 21, 23, 24, 26, 25, 29 ,31, 32, 33	1250	0	10	0	1
2	40, 42, 44, 46, 47, 49, 51, 52, 54, 53, 56, 57, 59, 62, 65	950	0	7	0	0
3	74, 75, 80, 83, 85, 79, 87, 84, 88, 90, 95, 94, 91, 93	1050	0	8	0	0
4	225, 223, 233, 228, 233, 193, 194, 195	850	0	5	0	1
5	156, 158, 110, 111, 114, 103, 107, 115	0	850	0	5	1
	<b>Total</b>	<b>4100</b>	<b>850</b>	<b>30</b>	<b>5</b>	<b>3</b>

**List Of Works - Earthen Bund with waste weir (L-4, L-6)**

Village -Sardarpur

G.P.- Hadikalan

Sn	Khasra No.	Length of Bund (mtr)		waste weir (No.)		Earthan Structure
		0.84 m <sup>2</sup>	1.40 m <sup>2</sup>	4m	6m	
1	399, 398, 397, 395, 418, 408, 410, 412, 408, 419	750	0	5	0	1
2	430, 432, 434, 437, 448, 444	0	350	5	6	0
3	1300, 1303, 1306, 1308	0	320	5	4	0
4	1382, 1383, 1377, 1380, 1398, 1386, 1384, 1368, 1370, 1375	550	0	10	0	1
5	1400, 1401, 1405, 1409, 1410, 1414, 1413, 1415	600	0	6	0	0
6	1518, 1517, 1525, 1526, 1516, 1531, 1503	580	0	5	0	0
7	1619, 1617, 1614, 1613, 1695, 1696, 1697, 1698, 1660, 1625	600	0	4	0	0
8	1739, 1760, 1752, 1750, 1749, 1748, 1756, 1672, 1679, 1732	700	0	10	0	0
	<b>Total</b>	<b>3780</b>	<b>670</b>	<b>50</b>	<b>10</b>	<b>2</b>

## List Of Works - Earthen Bund with waste weir (L-4, L-6)

Village -Bagari

G.P.- Bagari

Sn	Khasra No.	Length of Bund (mtr)		waste weir (No.)		Earthan Structure
		0.84 m <sup>2</sup>	1.40 m <sup>2</sup>	4m	6m	
1	926, 2547, 2546, 2545, 2544	600	0	5	0	1
2	2542, 2534, 2541, 2537, 2536	800	0	7	0	0
3	961, 960, 959, 956, 954, 951, 949, 948, 947, 943, 945, 990, 991	1250	0	9	0	0
4	2560, 2559, 2556, 2561, 2562, 2533, 2532, 2528	900	0	8	2	0
5	2527, 2529, 2531, 2530, 2568, 2563, 2564, 2566, 2528	760	0	8	2	0
6	2506, 2508, 2509, 2510, 2498, 2575, 2573, 2572, 2576, 2577, 2549, 2580	1000	0	10	2	0
7	2496, 2444, 2493, 2492, 2499, 2507, 2491, 2487, 2485	1200	0	6	2	0
8	2411, 2412, 2434, 2433, 2432, 2436, 2444, 2445, 2453, 2447, 2431, 2430, 2414, 2427, 2425, 2449	2000	0	7	2	0
9	1032, 1033, 1126, 1129, 986, 985, 938, 1137, 1143	0	1200	2	5	1
10	2470, 2466, 2464, 2459, 2456, 981, 2514, 2515, 979	0	1000	2	6	1
11	2439, 2438, 2441, 2359, 2370, 2360, 1153, 1158, 1153, 1165	0	800	2	6	1
12	2348, 1224, 2344, 2343, 2342, 2340, 2316, 2310, 2304, 2309	0	690	2	3	0
13	2208, 2221, 2222, 2223, 2224, 2227, 2228	1800	0	8	4	0
14	2235, 2237, 2396, 2395, 2392, 2271, 2388, 2214, 2218, 2230, 2296, 2340	850	0	6	6	0
	<b>Total</b>	<b>11160</b>	<b>3690</b>	<b>82</b>	<b>40</b>	<b>4</b>

**List Of Works - Earthen Bund with waste weir (L-4, L-6)**

Village - Rahimpura

G.P.- Bagdi

Sn	Khasra No.	Length of Bund (mtr)		waste weir (No.)		Earthan Structure
		0.84 m <sup>2</sup>	1.40 m <sup>2</sup>	4m	6m	
1	2,3,4,5,6,7,8,9,11,12,13, 14,15	1080	0	10	0	0
2	19,20,21,22,23,24,25,26, 27,28,29,30	1065	0	5	0	0
3	31, 32,33,34	160	0	5	0	0
4	187,188,189,190	0	980	0	5	0
5	45,46,47,52,53,54,55,56, 57,59	560	0	5	0	0
6	191,192,193,194	0	510	0	3	0
7	82,83,84,87,88,89,90	325	0	5	0	0
8	157,159,160,161,162, 163,166,167	1550	0	5	0	0
9	150,151,152,153	410	0	5	0	0
10	180,181,182,183,185,188, 189	0	515	0	5	0
11	175,176,178,179	0	621	0	2	0
	<b>Total</b>	<b>5150</b>	<b>2626</b>	<b>40</b>	<b>15</b>	<b>0</b>

## List of Farmponds

Sn	Khasra No.	Name of Village	No. of Farmpond	Unit Cost lacs	Total Cost lacs
1	315, 1066, 1067, 336, 1025, 521, 1018, 1020, 1717, 1718, 517, 146, 990, 2422, 1030, 1031 1036, 1032, 1695, 1680, 2337, 2204, 1055, 1090, 1138	Jounla	25	1.00	25.00
2	517/2, 140, 102, 80, 115, 207, 141, 658, 679, 680, 448, 675, 654, 650, 450, 102, 734, 650, 148, 668, 674/2, 449, 142, 674, 101	Dhoosri	25	1.00	25.00
3	978	Dolatpura	1	1.00	1.00
4	95, 231, 308, 180, 1515, 182, 244, 1533, 1557, 1575, 1928, 1915, 1914, 1775, 1830, 1834, 1904, 68, 175, 181, 309, 246, 1534, 1576	Hadikalan	24	1.00	24.00
5	105, 176, 179, 610, 662, 632, 651, 663, 667, 564, 540, 443, 657, 658, 650, 569, 545, 546, 568, 512	Sisola	20	1.00	20.00
6	48, 37, 29, 75, 46	Mawasipura	5	1.00	5.00
	<b>Total</b>		<b>100</b>		<b>100.00</b>

### List of MM Structures

Sn	Name of Work & Location	Name of Village	Nam of G.P.	Nos.	Cost per No.	Total Cost (Lacs)
1	दौलतपुरा से जौला के रास्ते पर नाले में वेस्टवियर 45 मीटर लम्बाई	Dhoosri	Jounla	1	10.82	10.82
2	शमशान घाट के पास नाले में वेस्टवियर 20 मीटर लम्बाई	Dhoosri	Jounla	1	5.42	5.42
3	जिन्द बाबा के मन्दिर के पास नाले में वेस्टवियर 15 मीटर लम्बाई	Dhoosri	Jounla	1	4.24	4.24
4	ओड़ी कुएँ के नीचे नाले में 15 मीटर लम्बाई का वेस्टवियर	Dhoosri	Jounla	1	4.24	4.24
5	रतन जाट के कुएँ के नीचे नाले में 10 मीटर लम्बाई वेस्टवियर	Dhoosri	Jounla	1	2.93	2.93
6	श्योजी सांवता के खेत के पास नाले में 10 मीटर लम्बाई वेस्टवियर	Dhoosri	Jounla	1	2.93	2.93
7	छोटी हाड़ी जबाड़िया नहर के पास नाले में 45 मीटर लम्बाई वेस्टवियर	Hadikalan	Hadikalan	1	10.82	10.82
8	खेड़या के कुएँ के पास नाले में 30 मीटर लम्बाई वेस्टवियर	Hadikalan	Hadikalan	1	6.55	6.55
9	चारागाह मे नाले में 10 मीटर लम्बाई वेस्टवियर	Hadikalan	Hadikalan	1	2.93	2.93
10	रामराय जाट के कुएँ के नीचे नाले में 30 मीटर लम्बाई वेस्टवियर	Jounla	Jounla	1	9.79	9.79
11	रामफूल रेगर के कुएँ के पास दोताना सीमा पर नाले में 45 मीटर लम्बाई वेस्टवियर	Jounla	Jounla	1	10.82	10.82

12	गुर्जरो के कुएँ के पास नाले में 15 मीटर लम्बाई वेस्टवियर	Jounla	Jounla	1	4.24	4.24
13	रजवास के रास्ते पर झोंपड़ों में नाले में 15 मीटर लम्बाई वेस्टवियर	Jounla	Jounla	1	4.24	4.24
14	प्यावड़ी के रास्ते पर नाले में 30 मीटर लम्बाई वेस्टवियर	Sisola	Nathari	1	6.55	6.55
15	खंगारो के अलाट वाले खेतों के पास नाले में 20 मीटर लम्बाई वेस्टवियर	Sisola	Nathari	1	5.42	5.42
16	बगड़ी रास्ते में प्रेमदेवी के अलाट वाले खेत के नीचे नाले में 15 मीटर लम्बाई वेस्टवियर	Sisola	Nathari	1	4.24	4.24
17	बेथाली मदन बैरवा के खेत के नीचे नाले में 15 मीटर लम्बाई वेस्टवियर	Sisola	Nathari	1	4.24	4.24
18	भूरिया टीबा पीपलू के रास्ते पर नाले में 15 मी. लम्बाई वेस्टवियर	Sisola	Nathari	1	4.24	4.24
	<b>Total</b>			<b>18</b>		<b>104.66</b>

## DETAIL OF ESTIMATE

**NAME OF WORK :- Construction of M.M.Structure**

Ht.-1.20, Span-45 m

Depth.-0.90

S.No.	Particulars	No.	L.	B.	H/D	Qty.
1	Jungle Clearance, ordinary (BSR-2000, Chap-V, Item No.1)					
2-	Dagbelling 5 cm. to 7 cm. deep L.S.					
3	E/W in excavation in foundation in 1- Hard Soil					
	HW	1	45.00	3.00	2.50	337.50
	HWE	2	3.50	1.50	2.50	26.25
	SW	2	5.00	1.50	2.50	37.50
	Apron	1	45.00	2.50	0.90	101.25
	TW	1	45.00	0.90	1.20	48.60
	WW	2	2.50	1.35	1.50	10.13
	Total					<b>561.23</b>
4	C.C. Well mixed in C.M. (1:3:6) with agg. Size up to 20 mm					
	HW	1	45.00	3.00	0.30	40.50
	HWE	2	3.50	1.50	0.30	3.15
	SW	2	5.00	1.50	0.30	4.50
	Apron	1	45.00	2.50	0.30	33.75
	TW	1	45.00	0.90	0.20	8.10
	WW	2	2.50	1.35	0.30	2.03
	Total					<b>92.03</b>
5	R.R. Stone Masonry in C.M.(1:6) for foundation					
	HW	1	45.00	2.65	1.10	131.18
	HWE	2	3.50	1.35	1.10	10.40
		2	3.50	1.20	1.10	9.24
	SW	2	5.00	1.50	1.10	16.50
		2	5.00	1.35	1.10	14.85
	Apron	1	45.00	2.50	0.30	33.75
	TW	1	45.00	0.90	0.50	20.25
		1	45.00	0.60	0.50	13.50
	WW	2	2.50	1.20	0.60	3.60
		2	2.50	1.05	0.60	3.15
	Total					<b>256.41</b>
6	R.R.Stone masonry in C.M. (1:6) for Super structure					
	HW	1	45.00	1.88	1.70	143.82
	HWE	2	3.50	0.90	3.00	18.90
	SW	2	2.50	0.90	3.00	13.50
		2	2.50	0.90	2.00	9.00
	WW	2	2.50	0.83	2.00	8.30

	TW	1	45.00	0.50	0.30	6.75
	Total					<b>200.27</b>
7	25 mm Thick cement Plaster in C.M. (1:6)					
	FDW	1	45.00	2.00	0.00	90.00
		1	45.00	3.40	0.00	153.00
	HWE	0	0.00	0.00	0.00	0.00
	SW	2	2.50	3.00	0.00	15.00
		2	2.50	2.50	0.00	12.50
	Apron	1	45.00	2.50	0.00	112.50
	TW	1	45.00	0.80	0.00	36.00
	WW	2	2.50	2.00	0.00	10.00
		2	1.00	0.60	0.00	1.20
	Total					<b>430.20</b>
8	C.C.Coping in CM (1:2:4) with agg. Size 20 mm thick					
	HW	1	45.00	1.25	0.00	56.25
	HWE	2	3.50	0.60	0.00	4.20
	SW	2	5.00	0.60	0.00	6.00
	TW	1	45.00	0.50	0.00	22.50
	WW	2	2.50	0.60	0.00	3.00
	Apron	1	45.00	2.50	0.00	112.50
	Total					<b>204.45</b>

## ABSTRACT OF COST

**NAME OF WORK :- Construction of M.M.Structure 45m span**

S.No.	Particulars	Qty.	Rate	Labour Rate (in Rs.)	Labour Amount (in Rs.)	Amount (in Rs.)
1	Jungle Clearance, ordinary					
2	Dagbelling 5 cm. to 7 cm. deep					
3	E/W in excavation in foundation in					
	1- Hard Soil	280.61	81.00	81.00	22729	22729
	2- Soft Rock	280.61	118.00	118.00	33112	33112
4	Extra lead for disposal of excavated earth beyond 30 mtr. For 60 to 90 mtr. 2 lead					
5	Extra lift for disposal of excavated earth above 1.50 M					
6	C.C. Well mixed in C.M. (1:3:6) with agg. Size up to 20 mm	92.03	2048.00	281.47	25902	188467
7	R.R. Stone Masonary in C.M.(1:6) for foundation	256.41	1512.00	310.80	79692	387692
8	R.R.Stone masonry in C.M. (1:6) for Super structure	200.27	1632.00	427.80	85676	326841
9	25 mm Thick cement Plaster in C.M. (1:6)	430.20	119.00	59.01	25386	51194
10	C.C.Coping in CM (1:2:4) with agg. Size 20 mm thick	204.45	200.00	69.00	14107	40890
11	Add contingency 3% for Survey, Photographs, Vehicle charges etc. & modification at the time of execution					31528
	<b>Grand Total</b>				<b>286605</b>	<b>1082453</b>
	<b>Say</b>					<b>10.82 lacs</b>

## METARIAL CONSUMPTION STATEMENT

S.No.	Item	Qty.	Cement in Bags	Stone in Cum	Sand in Cum	Aggregate in Cum	
						40 mm	20 mm
1	Cement Concrete (1:3:6) in Foundation 3.20      0.45      0.90 Ceme      Sand      Stone	92.03	294	82.82	4.14	82.82	0.00
2	R.R.Stone Masonary in 1:6 for Foundation 1.40      0.30      1.00 Ceme      Sand      Stone	256.41	359	256.41	76.92	230.77	0.00
3	R.R.Stone Masonary in 1:6 Super Structure 1.40      0.30      1.00 Ceme      Sand      Stone	200.27	280	200.27	60.08	180.24	0.00
4	Dry Stone Pitching in 23 Cm thick	0	0	0.00	0.00	0.00	0.00
5	25 mm Thick Plaster in cm (1:4) 0.224      0.032 Ceme      Sand	430.20	96	0.00	13.77	0.00	0.00
6	Cement Concrete coping in 1:2:4 2"thi 0.312      0.022      0.045 Ceme      Sand      Age.	204.45	64	0.00	4.50	0.00	9.20
	<b>Total</b>		<b>1094</b>	<b>539.50</b>	<b>159.41</b>	<b>493.83</b>	<b>9.20</b>
	<b>Say</b>		<b>1094</b>				

## DETAIL OF ESTIMATE

### NAME OF WORK :- Construction of M.M.Structure

Ht.-1.50 Span- 20m

Depth.-1.20

S.No.	Particulars	No.	L.	B.	H/D	Qty.
1	Jungle Clearance, ordinary (BSR-2000, Chap-V, Item No.1)					
2-	Dagbelling 5 cm. to 7 cm. deep L.S.					
3	E/W in excavation in foundation in 1- Hard Soil					
	HW	1	20.00	2.50	2.00	100.00
	HWE	2	3.50	1.20	2.00	16.80
	SW	2	5.00	1.20	2.00	24.00
	Apron	1	20.00	2.70	0.90	48.60
	TW	1	20.00	0.90	1.20	21.60
	WW	2	2.70	1.20	1.50	9.72
	Total					<b>220.72</b>
4	C.C. Well mixed in C.M. (1:3:6) with agg. Size up to 20 mm					
	HW	1	20.00	2.50	0.30	15.00
	HWE	2	3.50	1.20	0.30	2.52
	SW	2	5.00	1.20	0.30	3.60
	Apron	1	20.00	2.70	0.30	16.20
	TW	1	20.00	0.90	0.20	3.60
	WW	2	2.70	1.20	0.30	1.94
	Total					<b>42.86</b>
5	R.R. Stone Masonary in C.M.(1:6) for foundation					
	HW	1	20.00	2.35	0.90	42.30
	HWE	1	20.00	2.20	0.80	35.20
	HWE	2	3.50	1.20	0.90	7.56
	HWE	2	3.50	1.05	0.80	5.88
	SW	2	5.00	1.20	0.90	10.80
	SW	2	5.00	1.05	0.80	8.40
	Apron	1	20.00	2.70	0.30	16.20
	TW	1	20.00	0.90	0.50	9.00
	TW	1	20.00	0.60	0.50	6.00
	WW	2	2.70	1.05	0.60	3.40
	WW	2	2.70	0.90	0.60	2.92
	Total					<b>147.66</b>
6	R.R.Stone masonry in C.M. (1:6) for Super structure					
	HW	1	20.00	1.55	1.50	46.50
	HWE	2	3.50	0.78	3.00	16.38
	SW	2	2.50	0.78	3.00	11.70
	SW	2	2.50	0.78	2.25	8.78

	WW	2	2.70	0.70	1.50	5.67
	TW	1	20.00	0.50	0.30	3.00
	Total					<b>92.03</b>
7	25 mm Thick cement Plaster in C.M. (1:6)					
	HW	1	20.00	1.80	0.00	36.00
		1	20.00	3.30	0.00	66.00
	HWE	0	0.00	0.00	0.00	0.00
	SW	2	2.50	3.00	0.00	15.00
		2	2.50	2.25	0.00	11.25
	Apron	1	20.00	2.70	0.00	54.00
	TW	1	20.00	0.80	0.00	16.00
	WW	2	2.70	1.50	0.00	8.10
		2	1.00	0.50	0.00	1.00
	Total					<b>207.35</b>
8	C.C.Coping in CM (1:2:4) with agg. Size 20 mm thick					
	HW	1	20.00	0.90	0.00	18.00
	HWE	2	3.50	0.50	0.00	3.50
	SW	2	5.00	0.50	0.00	5.00
	TW	1	20.00	0.50	0.00	10.00
	WW	2	2.70	0.50	0.00	2.70
	Apron	1	20.00	2.70	0.00	54.00
	Total					<b>93.20</b>

## ABSTRACT OF COST

**NAME OF WORK :- Construction of M.M.Structure 20m span**

S.No.	Particulars	Qty.	Rate	Labour Rate (in Rs.)	Labour Amount (in Rs.)	Amount (in Rs.)
1	Jungle Clearance, ordinary					
2	Dagbelling 5 cm. to 7 cm. deep					
3	E/W in excavation in foundation in					
	1- Hard Soil	110.36	81.00	81.00	8939	8939
	2- Soft Rock	110.36	118.00	118.00	13022	13022
4	Extra lead for disposal of excavated earth beyond 30 mtr. For 60 to 90 mtr. 2 lead					
5	Extra lift for disposal of excavated earth above 1.50 M					
6	C.C. Well mixed in C.M. (1:3:6) with agg. Size up to 20 mm	42.86	2048.00	281.47	12065	87785
7	R.R. Stone Masonary in C.M.(1:6) for foundation	147.66	1512.00	310.80	45892	223259
8	R.R.Stone masonry in C.M. (1:6) for Super structure	92.03	1632.00	427.80	39368	150185
9	25 mm Thick cement Plaster in C.M. (1:6)	207.35	119.00	59.01	12236	24675
10	C.C.Coping in CM (1:2:4) with agg. Size 20 mm thick	93.20	200.00	69.00	6431	18640
11	Add contingency 3% for Survey, Photographs, Vehicle charges etc. & modification at the time of execution					15795
	<b>Grand Total</b>				<b>137953</b>	<b>542300</b>
	<b>Say</b>					<b>5.42 lacs</b>

## METARIAL CONSUMPTION STATEMENT

S.No.	Item	Qty.	Cement in Bags	Stone in Cum	Sand in Cum	Aggregate in Cum	
						40 mm	20 mm
1	Cement Concrete (1:3:6) in Foundation 3.20      0.45      0.90 Ceme      Sand      Stone	42.86	137	38.58	1.93	38.58	0.00
2	R.R.Stone Masonary in 1:6 for Foundation 1.40      0.30      1.00 Ceme      Sand      Stone	147.66	207	147.66	44.30	132.89	0.00
3	R.R.Stone Masonary in 1:6 Super Structure 1.40      0.30      1.00 Ceme      Sand      Stone	3.00	4	3.00	0.90	2.70	0.00
4	Dry Stone Pitching in 23 Cm thick	0	0	0.00	0.00	0.00	0.00
5	25 mm Thick Plaster in cm (1:4) 0.224      0.032 Ceme      Sand	207.35	46	0.00	6.64	0.00	0.00
6	Cement Concrete coping in 1:2:4 2"thi 0.312      0.022      0.045 Ceme      Sand      Age.	93.20	29	0.00	2.05	0.00	4.19
	<b>Total</b>		<b>424</b>	<b>189.24</b>	<b>55.81</b>	<b>174.17</b>	<b>4.19</b>
	<b>Say</b>		<b>424</b>				

## DETAIL OF ESTIMATE

**NAME OF WORK :- Construction of M.M.Structure**

Ht.-1.50      Span-30 m

Depth.-1.70

S.No.	Particulars	No.	L.	B.	H/D	Qty.
1	Jungle Clearance, ordinary (BSR-2000, Chap-V, Item No.1)					
2-	Dagbelling 5 cm. to 7 cm. deep L.S.					
3	E/W in excavation in foundation in 1- Hard Soil					
	HW	1	30.00	3.00	2.50	225.00
	HWE	2	4.00	1.50	2.50	30.00
	SW	2	5.50	1.35	2.50	37.13
	Apron	1	30.00	3.20	0.90	86.40
	TW	1	30.00	1.05	1.40	44.10
	WW	2	3.00	1.05	1.50	9.45
	Total					<b>432.08</b>
4	C.C. Well mixed in C.M. (1:3:6) with agg. Size up to 20 mm					
	HW	1	30.00	3.00	0.30	27.00
	HWE	2	4.00	1.50	0.30	3.60
	SW	2	5.50	1.35	0.30	4.46
	Apron	1	30.00	3.20	0.30	28.80
	TW	1	30.00	1.05	0.20	6.30
	WW	2	3.00	1.05	0.30	1.89
	Total					<b>72.05</b>
5	R.R. Stone Masonary in C.M.(1:6) for foundation					
	HW	1	30.00	2.65	1.10	87.45
	HWE	1	30.00	2.50	1.10	82.50
	HWE	2	4.00	1.35	1.10	11.88
	HWE	2	4.00	1.20	1.10	10.56
	SW	2	5.50	1.20	1.10	14.52
	SW	2	5.50	1.05	1.10	12.71
	Apron	1	30.00	3.20	0.30	28.80
	TW	1	30.00	1.05	0.60	18.90
	TW	1	30.00	0.90	0.60	16.20
	WW	2	3.00	1.05	0.60	3.78
	WW	2	3.00	0.90	0.60	3.24
	Total					<b>290.54</b>
6	R.R.Stone masonry in C.M. (1:6) for Super structure					
	HW	1	30.00	1.75	1.70	89.25
	HWE	2	4.00	0.90	3.50	25.20
	SW	2	2.25	0.83	3.50	13.07
	SW	2	2.25	0.83	2.75	10.27
	WW	2	3.00	0.75	2.00	9.00
	TW	1	30.00	0.60	0.30	5.40

	Total					<b>152.19</b>
7	25 mm Thick cement Plaster in C.M. (1:6)					
	HW	1	30.00	2.00	0.00	60.00
		1	30.00	3.70	0.00	111.00
	HWE	0	0.00	0.00	0.00	0.00
	SW	2	2.25	3.50	0.00	15.75
		2	2.25	2.75	0.00	12.38
	Apron	1	30.00	3.20	0.00	96.00
	TW	1	30.00	0.90	0.00	27.00
	WW	2	3.00	2.00	0.00	12.00
		2	2.00	0.60	0.00	2.40
	Total					<b>336.53</b>
8	C.C.Coping in CM (1:2:4) with agg. Size 20 mm thick					
	HW	1	30.00	1.00	0.00	30.00
	HWE	2	4.00	0.60	0.00	4.80
	SW	2	5.50	0.60	0.00	6.60
	TW	1	30.00	0.60	0.00	18.00
	WW	2	3.00	0.60	0.00	3.60
	Apron	1	30.00	3.20	0.00	96.00
	Total					<b>159.00</b>

## ABSTRACT OF COST

**NAME OF WORK :- Construction of M.M.Structure 30m span**

S.No.	Particulars	Qty.	Rate	Labour Rate (in Rs.)	Labour Amount (in Rs.)	Amount (in Rs.)
1	Jungle Clearance, ordinary					
2	Dagbelling 5 cm. to 7 cm. deep					
3	E/W in excavation in foundation in					
	1- Hard Soil	216.04	81.00	81.00	17499	17499
	2- Soft Rock	216.04	118.00	118.00	25493	25493
4	Extra lead for disposal of excavated earth beyond 30 mtr. For 60 to 90 mtr. 2 lead					
5	Extra lift for disposal of excavated earth above 1.50 M					
6	C.C. Well mixed in C.M. (1:3:6) with agg. Size up to 20 mm	72.05	2048.00	281.47	20279	147548
7	R.R. Stone Masonary in C.M.(1:6) for foundation	290.54	1512.00	310.80	90298	439289
8	R.R.Stone masonry in C.M. (1:6) for Super structure	152.19	1632.00	427.80	65108	248380
9	25 mm Thick cement Plaster in C.M. (1:6)	336.53	119.00	59.01	19858	40046
10	C.C.Coping in CM (1:2:4) with agg. Size 20 mm thick	159.00	200.00	69.00	10971	31800
11	Add contingency 3% for Survey, Photographs, Vehicle charges etc. & modification at the time of execution					28502
	<b>Grand Total</b>				<b>249507</b>	<b>978557</b>
	<b>Say</b>					<b>9.79 lacs</b>

## METARIAL CONSUMPTION STATEMENT

S.No.	Item	Qty.	Cement in Bags	Stone in Cum	Sand in Cum	Aggregate in Cum	
						40 mm	20 mm
1	Cement Concrete (1:3:6) in Foundation 3.20      0.45      0.90 Ceme      Sand      Stone	72.05	231	64.84	3.24	64.84	0.00
2	R.R.Stone Masonary in 1:6 for Foundation 1.40      0.30      1.00 Ceme      Sand      Stone	290.54	407	290.54	87.16	261.48	0.00
3	R.R.Stone Masonary in 1:6 Super Structure 1.40      0.30      1.00 Ceme      Sand      Stone	152.19	213	152.19	45.66	136.97	0.00
4	Dry Stone Pitching in 23 Cm thick	0	0	0.00	0.00	0.00	0.00
5	25 mm Thick Plaster in cm (1:4) 0.224      0.032 Ceme      Sand	336.53	75	0.00	10.77	0.00	0.00
6	Cement Concrete coping in 1:2:4 2"thi 0.312      0.022      0.045 Ceme      Sand      Age.	159.00	50	0.00	3.50	0.00	7.16
	<b>Total</b>		<b>975</b>	<b>507.57</b>	<b>150.33</b>	<b>463.30</b>	<b>7.16</b>
	<b>Say</b>		<b>975</b>				

## DETAIL OF ESTIMATE

### NAME OF WORK :- Construction of M.M.Structure

Ht.-1.50                      Span-15 m

Depth.-0.90

S.No.	Particulars	No.	L.	B.	H/D	Qty.
1	Jungle Clearance, ordinary (BSR-2000, Chap-V, Item No.1)					
2-	Dagbelling 5 cm. to 7 cm. deep L.S.					
3	E/W in excavation in foundation in 1- Hard Soil					
	HW	1	15.00	2.50	2.00	75.00
	HWE	2	3.50	1.20	2.00	16.80
	SW	2	4.70	1.20	2.00	22.56
	Apron	1	15.00	2.50	0.90	33.75
	TW	1	15.00	0.90	1.20	16.20
	WW	2	2.00	1.20	1.50	7.20
	Total					<b>171.51</b>
4	C.C. Well mixed in C.M. (1:3:6) with agg. Size up to 20 mm					
	HW	1	15.00	2.50	0.30	11.25
	HWE	2	3.50	1.20	0.30	2.52
	SW	2	4.70	1.20	0.30	3.38
	Apron	1	15.00	2.50	0.30	11.25
	TW	1	15.00	0.90	0.20	2.70
	WW	2	2.00	1.20	0.30	1.44
	Total					<b>32.54</b>
5	R.R. Stone Masonary in C.M.(1:6) for foundation					
	HW	1	15.00	2.35	0.90	31.73
	HWE	1	15.00	2.20	0.80	26.40
	HWE	2	3.50	1.20	0.90	7.56
	HWE	2	3.50	1.05	0.80	5.88
	SW	2	4.70	1.20	0.90	10.15
	SW	2	4.70	1.05	0.80	7.90
	Apron	1	15.00	2.50	0.30	11.25
	TW	1	15.00	0.90	0.50	6.75
	TW	1	15.00	0.75	0.50	5.63
	WW	2	2.00	1.20	0.60	2.88
	WW	2	2.00	1.05	0.60	2.52
	Total					<b>118.64</b>
6	R.R.Stone masonry in C.M. (1:6) for Super structure					
	HW	1	15.00	1.55	1.50	34.88
	HWE	2	3.50	0.83	2.50	14.53
	SW	2	2.50	0.75	2.50	9.38
	SW	2	2.20	0.75	2.00	6.60
	WW	2	2.00	0.75	1.50	4.50
	TW	1	15.00	0.60	0.30	2.70
	Total					<b>72.58</b>

7	25 mm Thick cement Plaster in C.M. (1:6)					
	HW	1	15.00	1.80	0.00	27.00
		1	15.00	3.30	0.00	49.50
	HWE	0	0.00	0.00	0.00	0.00
	SW	2	2.50	2.50	0.00	12.50
		2	2.20	2.00	0.00	8.80
	Apron	1	15.00	2.50	0.00	37.50
	TW	1	15.00	0.90	0.00	13.50
	WW	2	2.00	1.50	0.00	6.00
		2	1.00	0.60	0.00	1.20
	Total					<b>156.00</b>
8	C.C.Coping in CM (1:2:4) with agg. Size 20 mm thick					
	HW	1	15.00	0.90	0.00	13.50
	HWE	2	3.50	0.60	0.00	4.20
	SW	2	4.70	0.60	0.00	5.64
	TW	1	15.00	0.60	0.00	9.00
	WW	2	2.00	0.60	0.00	2.40
	Apron	1	15.00	2.50	0.00	37.50
	Total					<b>72.24</b>

## ABSTRACT OF COST

**NAME OF WORK :- Construction of M.M.Structure 15m span**

S.No.	Particulars	Qty.	Rate	Labour Rate (in Rs.)	Labour Amount (in Rs.)	Amount (in Rs.)
1	Jungle Clearance, ordinary					
2	Dagbelling 5 cm. to 7 cm. deep					
3	E/W in excavation in foundation in					
	1- Hard Soil	171.51	81.00	81.00	13892	13892
	2- Soft Rock					
4	Extra lead for disposal of excavated earth beyond 30 mtr. For 60 to 90 mtr. 2 lead					
5	Extra lift for disposal of excavated earth above 1.50 M					
6	C.C. Well mixed in C.M. (1:3:6) with agg. Size up to 20 mm	32.54	2048.00	281.47	9160	66650
7	R.R. Stone Masonary in C.M.(1:6) for foundation	118.64	1512.00	310.80	36873	179381
8	R.R.Stone masonry in C.M. (1:6) for Super structure	72.58	1632.00	427.80	31048	118442
9	25 mm Thick cement Plaster in C.M. (1:6)	156.00	119.00	59.01	9206	18564
10	C.C.Coping in CM (1:2:4) with agg. Size 20 mm thick	72.24	200.00	69.00	4985	14448
11	Add contingency 3% for Survey, Photographs, Vehicle charges etc. & modification at the time of execution					12341
	<b>Grand Total</b>				<b>105163</b>	<b>423719</b>
	<b>Say</b>					<b>4.24 lacs</b>

## METARIAL CONSUMPTION STATEMENT

S.No.	Item	Qty.	Cement in Bags	Stone in Cum	Sand in Cum	Aggregate in Cum	
						40 mm	20 mm
1	Cement Concrete (1:3:6) in Foundation 3.20      0.45      0.90 Ceme      Sand      Stone	32.54	104	29.29	1.46	29.29	0.00
2	R.R.Stone Masonary in 1:6 for Foundation 1.40      0.30      1.00 Ceme      Sand      Stone	118.64	166	118.64	35.59	106.77	0.00
3	R.R.Stone Masonary in 1:6 Super Structure 1.40      0.30      1.00 Ceme      Sand      Stone	72.58	102	72.58	21.77	65.32	0.00
4	Dry Stone Pitching in 23 Cm thick	0	0	0.00	0.00	0.00	0.00
5	25 mm Thick Plaster in cm (1:4) 0.224      0.032 Ceme      Sand	156.00	35	0.00	4.99	0.00	0.00
6	Cement Concrete coping in 1:2:4 2"thi 0.312      0.022      0.045 Ceme      Sand      Age.	72.24	23	0.00	1.59	0.00	3.25
	<b>Total</b>		<b>429</b>	<b>220.50</b>	<b>65.41</b>	<b>201.38</b>	<b>3.25</b>
	<b>Say</b>		<b>429</b>				

## DETAIL OF ESTIMATE

**NAME OF WORK :- Construction of M.M.Structure**

Ht.-1.50

Span-30 m

Depth.-1.00

S.No.	Particulars	No.	L.	B.	H/D	Qty.
1	Jungle Clearance, ordinary (BSR-2000, Chap-V, Item No.1)					
2-	Dagbelling 5 cm. to 7 cm. deep L.S.					
3	E/W in excavation in foundation in 1- Hard Soil					
	HW	1	30.00	2.50	2.00	150.00
	HWE	2	3.50	1.20	2.00	16.80
	SW	2	4.50	1.20	2.00	21.60
	Apron	1	30.00	2.50	0.90	67.50
	TW	1	30.00	0.90	1.20	32.40
	WW	2	2.25	1.20	1.50	8.10
	Total					<b>296.40</b>
4	C.C. Well mixed in C.M. (1:3:6) with agg. Size up to 20 mm					
	HW	1	30.00	2.50	0.30	22.50
	HWE	2	3.50	1.20	0.30	2.52
	SW	2	4.50	1.20	0.30	3.24
	Apron	1	30.00	2.50	0.30	22.50
	TW	1	30.00	0.90	0.20	5.40
	WW	2	2.25	1.20	0.30	1.62
	Total					<b>57.78</b>
5	R.R. Stone Masonary in C.M.(1:6) for foundation					
	HW	1	30.00	2.15	0.90	58.05
	HWE	1	30.00	2.00	0.80	48.00
	HWE	2	3.50	1.05	0.90	6.62
	HWE	2	3.50	0.90	0.80	5.04
	SW	2	4.50	1.05	0.90	8.51
	SW	2	4.50	0.90	0.80	6.48
	Apron	1	30.00	0.90	0.30	8.10
	TW	1	30.00	0.90	0.50	13.50
	TW	1	30.00	0.75	0.50	11.25
	WW	2	2.25	1.05	0.60	2.84
	WW	2	2.25	0.90	0.60	2.43
	Total					<b>170.81</b>
6	R.R.Stone masonry in C.M. (1:6) for Super structure					
	HW	1	30.00	1.45	1.50	65.25
	HWE	2	3.50	0.75	2.50	13.13
	SW	2	2.50	0.75	2.50	9.38
	SW	2	2.00	0.75	2.00	6.00
	WW	2	2.25	0.75	1.50	5.06
	TW	1	30.00	0.60	0.30	5.40
	Total					<b>104.21</b>

7	25 mm Thick cement Plaster in C.M. (1:6)					
	HW	1	30.00	1.80	0.00	54.00
		1	30.00	3.30	0.00	99.00
	HWE	0	0.00	0.00	0.00	0.00
	SW	2	2.50	2.50	0.00	12.50
		2	2.00	2.00	0.00	8.00
	Apron	1	30.00	2.50	0.00	75.00
	TW	1	30.00	0.90	0.00	27.00
	WW	2	2.25	1.50	0.00	6.75
		2	1.00	0.60	0.00	1.20
	Total					<b>283.45</b>
8	C.C.Coping in CM (1:2:4) with agg. Size 20 mm thick					
	HW	1	30.00	0.90	0.00	27.00
	HWE	2	3.50	0.60	0.00	4.20
	SW	2	4.50	0.60	0.00	5.40
	TW	1	30.00	0.60	0.00	18.00
	WW	2	2.25	0.60	0.00	2.70
	Apron	1	30.00	2.50	0.00	75.00
	Total					<b>132.30</b>

## ABSTRACT OF COST

**NAME OF WORK :- Construction of M.M.Structure 30m span**

S.No.	Particulars	Qty.	Rate	Labour Rate (in Rs.)	Labour Amount (in Rs.)	Amount (in Rs.)
1	Jungle Clearance, ordinary					
2	Dagbelling 5 cm. to 7 cm. deep					
3	E/W in excavation in foundation in					
	1- Hard Soil	148.20	81.00	81.00	12004	12004
	2- Soft Rock	148.20	118.00	118.00	17488	17488
4	Extra lead for disposal of excavated earth beyond 30 mtr. For 60 to 90 mtr. 2 lead					
5	Extra lift for disposal of excavated earth above 1.50 M					
6	C.C. Well mixed in C.M. (1:3:6) with agg. Size up to 20 mm	57.78	2048.00	281.47	16263	118333
7	R.R. Stone Masonary in C.M.(1:6) for foundation	170.81	1512.00	310.80	53086	258257
8	R.R.Stone masonry in C.M. (1:6) for Super structure	104.21	1632.00	427.80	44582	170075
9	25 mm Thick cement Plaster in C.M. (1:6)	283.45	119.00	59.01	16726	33731
10	C.C.Coping in CM (1:2:4) with agg. Size 20 mm thick	132.30	200.00	69.00	9129	26460
11	Add contingency 3% for Survey, Photographs, Vehicle charges etc. & modification at the time of execution					19090
	<b>Grand Total</b>				<b>169279</b>	<b>655438</b>
	<b>Say</b>					<b>6.55 lacs</b>

## METARIAL CONSUMPTION STATEMENT

S.No.	Item	Qty.	Cement in Bags	Stone in Cum	Sand in Cum	Aggregate in Cum	
						40 mm	20 mm
1	Cement Concrete (1:3:6) in Foundation 3.20      0.45      0.90 Ceme      Sand      Stone	57.78	185	52.00	2.60	52.00	0.00
2	R.R.Stone Masonary in 1:6 for Foundation 1.40      0.30      1.00 Ceme      Sand      Stone	170.81	239	170.81	51.24	153.72	0.00
3	R.R.Stone Masonary in 1:6 Super Structure 1.40      0.30      1.00 Ceme      Sand      Stone	104.21	146	104.21	31.26	93.79	0.00
4	Dry Stone Pitching in 23 Cm thick	0	0	0.00	0.00	0.00	0.00
5	25 mm Thick Plaster in cm (1:4) 0.224      0.032 Ceme      Sand	283.45	63	0.00	9.07	0.00	0.00
6	Cement Concrete coping in 1:2:4 2"thi 0.312      0.022      0.045 Ceme      Sand      Age.	132.30	41	0.00	2.91	0.00	5.95
	<b>Total</b>		<b>675</b>	<b>327.02</b>	<b>97.09</b>	<b>299.52</b>	<b>5.95</b>
	<b>Say</b>		<b>675</b>				

## DETAIL OF ESTIMATE

**NAME OF WORK :- Construction of M.M.Structure**

Ht.-1.20      Span-10m

Depth.-0.90

S.No.	Particulars	No.	L.	B.	H/D	Qty.
1	Jungle Clearance, ordinary (BSR-2000, Chap-V, Item No.1)					
2-	Dagbelling 5 cm. to 7 cm. deep L.S.					
3	E/W in excavation in foundation in 1- Hard Soil					
	HW	1	10.00	2.30	2.00	46.00
	HWE	2	3.00	1.20	2.00	14.40
	SW	2	4.20	1.20	2.00	20.16
	Apron	1	10.00	2.20	0.90	19.80
	TW	1	10.00	0.90	1.20	10.80
	WW	2	2.00	1.20	1.50	7.20
	Total					<b>118.36</b>
4	C.C. Well mixed in C.M. (1:3:6) with agg. Size up to 20 mm					
	HW	1	10.00	2.30	0.30	6.90
	HWE	2	3.00	1.20	0.30	2.16
	SW	2	4.20	1.20	0.30	3.02
	Apron	1	10.00	2.20	0.30	6.60
	TW	1	10.00	0.90	0.20	1.80
	WW	2	2.00	1.20	0.30	1.44
	Total					<b>21.92</b>
5	R.R. Stone Masonary in C.M.(1:6) for foundation					
	HW	1	10.00	2.15	0.90	19.35
	HWE	1	10.00	2.00	0.80	16.00
	HWE	2	3.00	1.20	0.90	6.48
	HWE	2	3.00	1.05	0.80	5.04
	SW	2	4.20	1.20	0.90	9.07
	SW	2	4.20	1.05	0.80	7.06
	Apron	1	10.00	2.20	0.30	6.60
	TW	1	10.00	0.90	0.50	4.50
	TW	1	10.00	0.60	0.50	3.00
	WW	2	2.00	1.05	0.60	2.52
	WW	2	2.00	0.90	0.60	2.16
	Total					<b>81.78</b>
6	R.R.Stone masonry in C.M. (1:6) for Super structure					
	HW	1	10.00	1.45	1.50	21.75
	HWE	2	3.00	0.68	2.20	8.98
	SW	2	2.00	0.68	2.00	5.44
	SW	2	2.20	0.68	3.50	10.47
	WW	2	2.00	0.68	1.50	4.08
	TW	1	10.00	0.50	0.30	1.50
	Total					<b>52.22</b>

7	25 mm Thick cement Plaster in C.M. (1:6)					
	HW	1	10.00	1.80	0.00	18.00
		1	10.00	3.30	0.00	33.00
	HWE	0	0.00	0.00	0.00	0.00
	SW	2	2.00	2.20	0.00	8.80
		2	2.20	1.85	0.00	8.14
	Apron	1	10.00	2.20	0.00	22.00
	TW	1	10.00	0.80	0.00	8.00
	WW	2	2.00	1.50	0.00	6.00
		2	1.00	0.45	0.00	0.90
	Total					<b>104.84</b>
8	C.C.Coping in CM (1:2:4) with agg. Size 20 mm thick					
	HW	1	10.00	0.90	0.00	9.00
	HWE	2	3.00	0.45	0.00	2.70
	SW	2	4.20	0.45	0.00	3.78
	TW	1	10.00	0.50	0.00	5.00
	WW	2	2.00	0.45	0.00	1.80
	Apron	1	10.00	2.20	0.00	22.00
	Total					<b>44.28</b>

## ABSTRACT OF COST

**NAME OF WORK :- Construction of M.M.Structure 10m span**

S.No.	Particulars	Qty.	Rate	Labour Rate (in Rs.)	Labour Amount (in Rs.)	Amount (in Rs.)
1	Jungle Clearance, ordinary					
2	Dagbelling 5 cm. to 7 cm. deep					
3	E/W in excavation in foundation in					
	1- Hard Soil	118.36	81.00	81.00	9587	9587
	2- Soft Rock					
4	Extra lead for disposal of excavated earth beyond 30 mtr. For 60 to 90 mtr. 2 lead					
5	Extra lift for disposal of excavated earth above 1.50 M					
6	C.C. Well mixed in C.M. (1:3:6) with agg. Size up to 20 mm	21.92	2048.00	281.47	6171	44900
7	R.R. Stone Masonary in C.M.(1:6) for foundation	81.78	1512.00	310.80	25417	123648
8	R.R.Stone masonry in C.M. (1:6) for Super structure	52.22	1632.00	427.80	22339	85220
9	25 mm Thick cement Plaster in C.M. (1:6)	104.84	119.00	59.01	6187	12476
10	C.C.Coping in CM (1:2:4) with agg. Size 20 mm thick	44.28	200.00	69.00	3055	8856
11	Add contigency 3% for Survey, Photographs, Vehicle charges etc. & modification at the time of execution					8541
	<b>Grand Total</b>				<b>72755</b>	<b>293228</b>
	<b>Say</b>					<b>2.93 lacs</b>

## METARIAL CONSUMPTION STATEMENT

S.No.	Item	Qty.	Cement in Bags	Stone in Cum	Sand in Cum	Aggregate in Cum	
						40 mm	20 mm
1	Cement Concrete (1:3:6) in Foundation 3.20      0.45      0.90 Ceme      Sand      Stone	21.92	70	19.73	0.99	19.73	0.00
2	R.R.Stone Masonary in 1:6 for Foundation 1.40      0.30      1.00 Ceme      Sand      Stone	81.78	114	81.78	24.53	73.60	0.00
3	R.R.Stone Masonary in 1:6 Super Structure 1.40      0.30      1.00 Ceme      Sand      Stone	52.22	73	52.22	15.67	47.00	0.00
4	Dry Stone Pitching in 23 Cm thick	0	0	0.00	0.00	0.00	0.00
5	25 mm Thick Plaster in cm (1:4) 0.224      0.032 Ceme      Sand	104.84	23	0.00	3.35	0.00	0.00
6	Cement Concrete coping in 1:2:4 2"thi 0.312      0.022      0.045 Ceme      Sand      Age.	44.28	14	0.00	0.97	0.00	1.99
	<b>Total</b>		<b>295</b>	<b>153.73</b>	<b>45.51</b>	<b>140.33</b>	<b>1.99</b>
	<b>Say</b>		<b>295</b>				

## DETAIL OF ESTIMATE

**NAME OF WORK :- Construction of West weir 6m**

Length - 6 m

S.No.	Particulars	No.	L.	B.	H/D	Qty.
1	Jungle Clearance, ordinary (BSR-2000, Chap-V, Item No.1)					
2-	Dagbelling 5 cm. to 7 cm. deep L.S.					
3	E/W in excavation in foundation in 1- Hard Soil					
	HW	1	6.00	0.60	0.60	2.16
	HWE	2	1.00	0.60	0.60	0.72
	SW	2	1.80	0.60	0.60	1.30
	Apron	1	6.00	1.00	0.60	3.60
	TW	1	6.00	0.50	0.45	1.35
	WW	2	0.60	0.60	0.60	0.43
	Total					<b>9.56</b>
4	C.C. Well mixed in C.M. (1:3:6) with agg. Size up to 20 mm					
	HW	1	6.00	0.60	0.10	0.36
	HWE	2	1.00	0.60	0.10	0.12
	SW	2	1.80	0.60	0.10	0.22
	Apron	1	6.00	1.00	0.10	0.60
	TW	1	6.00	0.50	0.10	0.30
	WW	2	0.60	0.60	0.10	0.07
	Total					<b>1.67</b>
5	R.R. Stone Masonry in C.M.(1:6) for foundation					
	HW	1	6.00	0.60	0.50	1.80
	HWE	2	1.00	0.60	0.50	0.60
	SW	2	1.80	0.60	0.50	1.08
	WW	2	0.60	0.60	0.50	0.36
	Apron	1	6.00	1.00	0.30	1.80
	TW	1	6.00	0.50	0.35	1.05
	Total					<b>6.69</b>
6	R.R.Stone masonry in C.M. (1:6) for Super structure					
	HW	1	6.00	0.50	0.50	1.50
	HWE	2	1.00	0.30	1.00	0.60
	SW	2	1.80	0.30	0.75	0.81
	WW	2	0.60	0.30	0.50	0.18
	TW	1	6.00	0.30	0.30	0.54
	Total					<b>3.63</b>
7	25 mm Thick cement Plaster in C.M. (1:6)					

	HW	1	6.00	1.00	0.00	6.00
	HWE	0	0.00	0.00	0.00	0.00
	SW	2	1.80	0.75	0.00	2.70
	Apron	0	0.00	0.00	0.00	0.00
	TW	1	6.00	0.60	0.00	3.60
	WW	2	0.30	0.50	0.00	0.30
		2	0.60	0.50	0.00	0.60
	Total					<b>13.20</b>
8	C.C.Coping in CM (1:2:4) with agg. Size 20 mm thick					
	HW	1	6.00	0.50	0.00	3.00
	HWE	2	1.00	0.30	0.00	0.60
	SW	2	1.80	0.30	0.00	1.08
	TW	1	6.00	0.30	0.00	1.80
	WW	2	0.60	0.30	0.00	0.36
	Apron	1	6.00	1.00	0.00	6.00
	Total					<b>12.84</b>

## ABSTRACT OF COST

**NAME OF WORK :- Construction of West weir 6m**

S.No.	Particulars	Qty.	Rate	Labour Rate (in Rs.)	Labour Amount (in Rs.)	Amount (in Rs.)
1	Jungle Clearance, ordinary					
2	Dagbelling 5 cm. to 7 cm. deep					
3	E/W in excavation in foundation in					
	1- Hard Soil	9.56	81.00	81.00	774	774
	2- Soft Rock					
4	Extra lead for disposal of excavated earth beyond 30 mtr. For 60 to 90 mtr. 2 lead					
5	Extra lift for disposal of excavated earth above 1.50 M					
6	C.C. Well mixed in C.M. (1:3:6) with agg. Size up to 20 mm	1.67	2048.00	281.47	469	3416
7	R.R. Stone Masonry in C.M.(1:6) for foundation	6.69	1512.00	310.80	2079	10115
8	R.R.Stone masonry in C.M. (1:6) for Super structure	3.63	1632.00	427.80	1553	5924
9	25 mm Thick cement Plaster in C.M. (1:6)	13.20	119.00	59.01	779	1571
10	C.C.Coping in CM (1:2:4) with agg. Size 20 mm thick	12.84	200.00	69.00	886	2568
11	Add contingency 3% for Survey, Photographs, Vehicle charges etc. & modification at the time of execution					731
	<b>Grand Total</b>				<b>6541</b>	<b>25100</b>
	<b>Say</b>				<b>Rs.</b>	<b>25000/-</b>

## METARIAL CONSUMPTION STATEMENT

S.No.	Item	Qty.	Cement in Bags	Stone in Cum	Sand in Cum	Aggregate in Cum	
						40 mm	20 mm
1	Cement Concrete (1:3:6) in Foundation 3.20      0.45      0.90 Ceme      Sand      Stone	1.67	5	1.50	0.08	1.50	0.00
2	R.R.Stone Masonary in 1:6 for Foundation 1.40      0.30      1.00 Ceme      Sand      Stone	6.69	9	6.69	2.01	6.02	0.00
3	R.R.Stone Masonary in 1:6 Super Structure 1.40      0.30      1.00 Ceme      Sand      Stone	3.63	5	3.63	1.09	3.27	0.00
4	Dry Stone Pitching in 23 Cm thick	0	0	0.00	0.00	0.00	0.00
5	25 mm Thick Plaster in cm (1:4) 0.224      0.032 Ceme      Sand	13.20	3	0.00	0.42	0.00	0.00
6	Cement Concrete coping in 1:2:4 2"thi 0.312      0.022      0.045 Ceme      Sand      Age.	12.84	4	0.00	0.28	0.00	0.58
	<b>Total</b>		<b>27</b>	<b>11.82</b>	<b>3.88</b>	<b>10.79</b>	<b>0.58</b>
	<b>Say</b>		<b>27</b>				

## DETAIL OF ESTIMATE

**NAME OF WORK :- Construction of West weir 4m**

Length - 4 m

S.No.	Particulars	No.	L.	B.	H/D	Qty.
1	Jungle Clearance, ordinary (BSR-2000, Chap-V, Item No.1)					
2-	Dagbelling 5 cm. to 7 cm. deep L.S.					
3	E/W in excavation in foundation in 1- Hard Soil					
	HW	1	4.00	0.60	0.60	1.44
	HWE	2	0.90	0.60	0.60	0.65
	SW	2	1.80	0.60	0.60	1.30
	Apron	1	4.00	1.00	0.60	2.40
	TW	1	4.00	0.50	0.45	0.90
	WW	2	0.60	0.60	0.60	0.43
	Total					<b>7.12</b>
4	C.C. Well mixed in C.M. (1:3:6) with agg. Size up to 20 mm					
	HW	1	4.00	0.60	0.10	0.24
	HWE	2	0.90	0.60	0.10	0.11
	SW	2	1.80	0.60	0.10	0.22
	Apron	1	4.00	1.00	0.10	0.40
	TW	1	4.00	0.50	0.10	0.20
	WW	2	0.60	0.60	0.10	0.07
	Total					<b>1.24</b>
5	R.R. Stone Masonary in C.M.(1:6) for foundation					
	HW	1	4.00	0.60	0.50	1.20
	HWE	2	0.90	0.60	0.50	0.54
	SW	2	1.80	0.60	0.50	1.08
	WW	2	0.60	0.60	0.50	0.36
	Apron	1	4.00	1.00	0.30	1.20
	TW	1	4.00	0.50	0.35	0.70
	Total					<b>5.08</b>
6	R.R.Stone masonry in C.M. (1:6) for Super structure					
	HW	1	4.00	0.50	0.50	1.00
	HWE	2	0.90	0.30	0.90	0.49
	SW	2	1.80	0.30	0.70	0.76
	WW	2	0.60	0.30	0.50	0.18
	TW	1	4.00	0.30	0.30	0.36
	Total					<b>2.78</b>
7	25 mm Thick cement Plaster in C.M. (1:6)					
	HW	1	4.00	1.00	0.00	4.00

	HWE	0	0.00	0.00	0.00	0.00
	SW	2	1.80	0.70	0.00	2.52
	Apron	0	0.00	0.00	0.00	0.00
	TW	1	4.00	0.60	0.00	2.40
	WW	2	0.30	0.50	0.00	0.30
		2	0.60	0.50	0.00	0.60
	Total					<b>9.82</b>
8	C.C.Coping in CM (1:2:4) with agg. Size 20 mm thick					
	HW	1	4.00	0.50	0.00	2.00
	HWE	2	0.90	0.30	0.00	0.54
	SW	2	1.80	0.30	0.00	1.08
	TW	1	4.00	0.30	0.00	1.20
	WW	2	0.60	0.30	0.00	0.36
	Apron	1	4.00	1.00	0.00	4.00
	Total					<b>9.18</b>

## ABSTRACT OF COST

**NAME OF WORK :- Construction of West weir 4m**

S.No.	Particulars	Qty.	Rate	Labour Rate (in Rs.)	Labour Amount (in Rs.)	Amount (in Rs.)
1	Jungle Clearance, ordinary					
2	Dagbelling 5 cm. to 7 cm. deep					
3	E/W in excavation in foundation in					
	1- Hard Soil	7.12	81.00	81.00	576	576
	2- Soft Rock					
4	Extra lead for disposal of excavated earth beyond 30 mtr. For 60 to 90 mtr. 2 lead					
5	Extra lift for disposal of excavated earth above 1.50 M					
6	C.C. Well mixed in C.M. (1:3:6) with agg. Size up to 20 mm	1.24	2048.00	281.47	348	2531
7	R.R. Stone Masonary in C.M.(1:6) for foundation	5.08	1512.00	310.80	1579	7681
8	R.R.Stone masonry in C.M. (1:6) for Super structure	2.78	1632.00	427.80	1190	4540
9	25 mm Thick cement Plaster in C.M. (1:6)	9.82	119.00	59.01	579	1169
10	C.C.Coping in CM (1:2:4) with agg. Size 20 mm thick	9.18	200.00	69.00	633	1836
11	Add contigency 3% for Survey, Photographs, Vehicle charges etc. & modification at the time of execution					550
	<b>Grand Total</b>				<b>4906</b>	<b>18883</b>
	<b>Say</b>				<b>Rs.</b>	<b>19000/-</b>

## METARIAL CONSUMPTION STATEMENT

S.No.	Item	Qty.	Cement in Bags	Stone in Cum	Sand in Cum	Aggregate in Cum	
						40 mm	20 mm
1	Cement Concrete (1:3:6) in Foundation 3.20      0.45      0.90 Ceme      Sand      Stone	1.24	4	1.11	0.06	1.11	0.00
2	R.R.Stone Masonary in 1:6 for Foundation 1.40      0.30      1.00 Ceme      Sand      Stone	5.08	7	5.08	1.52	4.57	0.00
3	R.R.Stone Masonary in 1:6 Super Structure 1.40      0.30      1.00 Ceme      Sand      Stone	2.78	4	2.78	0.83	2.50	0.00
4	Dry Stone Pitching in 23 Cm thick	0	0	0.00	0.00	0.00	0.00
5	25 mm Thick Plaster in cm (1:4) 0.224      0.032 Ceme      Sand	9.82	2	0.00	0.31	0.00	0.00
6	Cement Concrete coping in 1:2:4 2"thi 0.312      0.022      0.045 Ceme      Sand      Age.	9.18	3	0.00	0.20	0.00	0.41
	<b>Total</b>		<b>20</b>	<b>8.97</b>	<b>2.93</b>	<b>8.19</b>	<b>0.41</b>
	<b>Say</b>		<b>20</b>				

## DESIGN OF M.M. STRUCTURE

1. Name of Work : Construction of MM Structures Dhoosri
2. Name of Scheme : IWMP-III, Dolatpura W/s,
3. G.P. : Jounla

4. Detail of Design proposed Anicut :

- a. Total Catchment area :
- b. Available crest length : 45.00 M
- c. Free Board : 0.30 Mt.
- d. Height of Headwall : 1.70 Mt.

e. Calculation of peak runoff rate (Design Discharge) :-

$$Q = Cb^{3/4}$$

Where A = Catchment area in Sq. Km. = Sqkm

C = Run off Coefficient

(11.04 For Nothen India)

=

= Cumee.

f. Structural Design Parameters :-

1. Head over Crest (h)

$$h = \left( \frac{Q}{1.711} \right)^{2/3} \quad \left( \quad \right)$$

= meter

2. Free Board :- As per recommendation and site conditions taken as

= Mtr.

3. Total depth of flow (d) = h + FB = mt.

4. Depth of foundation (o) =  $0.47 (Q1F)^{1/3}$

5. Specification of Head Wall :-

a. Crest length of head wall (L) = 45 Mt.

b. Crest height of head wall (H) = 1.50 Mt.

c. T.W. of head Wall

$$\text{T.W. (a)} = \frac{1}{2} \sqrt{(H+D)^2}$$

$$= \frac{\sqrt{1.50+1.00}}{2} = \frac{2.22}{2} = 1.11$$

$$= 1.25 \text{ Mt.}$$

$$= 1.25 \text{ M. Say}$$

d. Bottom width of head wall at ground level :-

$$\text{B.W. (d)} = \text{T.W.} + 0.8 H = 1.25 + 0.8 \times 1.50$$

$$= 2.50 \text{ Mt.}$$

e. Bottom width of Masonry in foundation in Head wall at Ground level:-

$$= 2.65 \text{ Mt.}$$

f. Bottom width of foundation C.C. in H.W.

$$= 3.00 \text{ Mt.}$$

g. Depth of foundation = 2.50 Mt.

6. SPECIFICATION OF HEAD WALL EXTENSION (H.W.E.) :-

a. Length =  $H + h + 1.00 =$  Mt.

$$= 1.50 + 1.00 + 1.00 = 3.50 \text{ Mt.}$$

Taken as per site condition

b. Top width = 0.60 Mt.

c. Bottom width of H.W.E. at ground level :-

$$= 1.20 \text{ Mt.}$$

d. Bottom width of Masonry in foundation In head wall at Ground level :-

$$= 1.35 \text{ Mt.}$$

e. Bottom width of foundation C.C. in H.W.E. :-

$$= 1.50 \text{ Mt.}$$

f. Height of H.W.E. =  $H + d + 0.50 = 1.50 + 1.00 + 0.50 = 3.00 \text{ Mt.}$

g. Depth of foundation of H.W.E. = 2.50 mt.

7. SPECIFICATION OF SIDE WALL :-

a. Length =  $1.75 + H + 0.75h + 0.45$

$$= 5.00 \text{ mt.}$$

b. Height of side wall (D/s) :-

- i. At the junction of H.W.E. =  $H + d = 3.00$  Mt.
- ii. At the junction of W.W. = Ht. of wing wall = 3.00 mt.
- c. Top width of side wall = 0.60 Mtr.
- d. Bottom width side wall = 1.20 Mtr.
- e. Depth of foundation = 2.50 Mtr.

8. SPECIFICATION OF WINGWALL :-

- a. Length =  $2.25 \times h = 2.25 \times 1.00 = 2.25$  mt.  
= 2.25 (say)
- b. Height of wing wall =  $1.50 \times h = 1.50 \times 1.20 = 1.80$  mtr.  
Say = 2.00 Mtr.
- c. Top width of wing wall = 0.60 Mtr.
- d. Bottom width wing wall = 1.05 Mtr.
- e. Depth of foundation = 1.50 Mtr.

9. SPECIFICATION OF TOEWALL :-

- a. Length = 45.00 Mtr.
- b. Top width = 0.60 Mtr.
- c. Bottom width at C.C. level = 0.90 Mtr.
- d. Depth of foundation = 1.20 Mtr.

10. SPECIFICATION OF APRON :-

- a. Length of Basin = 45.00 Mtr.
- b. Width of Basin =  $H + d = 1.50 + 1.0 = 2.50$   
= 2.50 Mtr.  
= 2.50 Mtr. Say
- c. Depth of foundation = Mtr.

11. R.L. of bed level of Nalla Deepest Point

12. R.L. of F.T.L. =

13. R.L. of M.W.L. =

14. R.L. of T.B.L. =

Note :- All suprastructure height excluded coping thickness and top width excludes thickness of plaster (25 mm.)

## DESIGN OF M.M. STRUCTURE

1. Name of Work : Construction of MM Structures Dhoosri
2. Name of Scheme : IWMP-III, Dolatpura W/s,
3. G.P. : Jounla

4. Detail of Design proposed Anicut :

- a. Total Catchment area :
- b. Available crest length : 15.00 M
- c. Free Board : 0.30 Mt.
- d. Height of Headwall : 1.70 Mt.

e. Calculation of peak runoff rate (Design Discharge) :-

$$Q = Cb^{3/4}$$

Where A = Catchment area in Sq. Km. = Sqkm

C = Run off Coefficient

(11.04 For Nothen India)

=

= Cumee.

f. Structural Design Parameters :-

1. Head over Crest (h)

$$h = \left( \frac{Q}{1.711} \right)^{2/3} \quad \left( \quad \right)$$

= meter

2. Free Board :- As per recommendation and site conditions taken as

= Mtr.

3. Total depth of flow (d) = h + FB = mt.

4. Depth of foundation (o) =  $0.47 (Q1F)^{1/3}$

5. Specification of Head Wall :-

a. Crest length of head wall (L) = 15.0 Mt.

b. Crest height of head wall (H) = 1.70 Mt.

c. T.W. of head Wall

$$\text{T.W. (a)} = \frac{1}{2} \sqrt{(H+D)^2}$$

$$= \frac{\sqrt{1.70+1.20}}{2} = \frac{2.50}{2} = 1.25$$

$$= 1.25 \text{ Mt.}$$

$$= 1.25 \text{ M. Say}$$

d. Bottom width of head wall at ground level :-

$$\text{B.W. (d)} = \text{T.W.} + 0.8 H = 1.25 + 0.8 \times 1.70 = 2.60$$

$$= 2.60 \text{ Mt.}$$

e. Bottom width of Masonry in foundation in Head wall at Ground level:-

$$= 2.75 \text{ Mt.}$$

f. Bottom width of foundation C.C. in H.W.

$$= 3.00 \text{ Mt.}$$

g. Depth of foundation = 2.50 Mt.

6. SPECIFICATION OF HEAD WALL EXTENSION (H.W.E.) :-

a. Length =  $H + h + 1.00 =$  Mt.

$$= 1.70 + 1.20 + 1.00 = 3.90 \text{ Mt.}$$

Taken 4.0 m. as per site condition

b. Top width = 0.60 Mt.

c. Bottom width of H.W.E. at ground level :-

$$= 1.20 \text{ Mt.}$$

d. Bottom width of Masonry in foundation In head wall at Ground level :-

$$= 1.35 \text{ Mt.}$$

e. Bottom width of foundation C.C. in H.W.E. :-

$$= 1.35 \text{ Mt.}$$

f. Height of H.W.E. =  $H + d = 1.70 + 1.20 = 2.90$  Mt. Say 3.00 Mt.

g. Depth of foundation of H.W.E. = 3.00 mt.

7. SPECIFICATION OF SIDE WALL :-

a. Length =  $1.75 + H + 0.75h + 0.45$

$$= 5.00 \text{ mt.}$$

b. Height of side wall (D/s) :-  $1.75 \times 1.70 + 0.75 \times 1.20 + 0.45 = 4.32$   
Taken 5.50 m cum per site cudita

i. At the junction of H.W.E. =  $H + d = 1.70 + 1.20 = 2.90$  Mt. say 3.00 Mt.

ii. At the junction of W.W. = Ht. of wing wall = 2.00 mt.

c. Top width of side wall = 0.60 Mtr.

d. Bottom width side wall = 1.05 Mtr.

e. Depth of foundation = 2.50 Mtr.

8. SPECIFICATION OF WINGWALL :-

a. Length =  $2.25 \times h = 2.25 \times 1.20 = 2.70$  mt.  
= 3.00 (say)

b. Height of wing wall =  $1.50 \times h = 1.50 \times 1.20 = 1.80$  mtr.  
Say = 2.00 Mtr.

c. Top width of wing wall = 0.60 Mtr.

d. Bottom width wing wall = 0.90 Mtr.

e. Depth of foundation = 1.50 Mtr.

9. SPECIFICATION OF TOEWALL :-

a. Length = 15.00 Mtr.

b. Top width = 0.30 Mtr.

c. Bottom width at C.C. level = 0.90 Mtr.

d. Depth of foundation = 1.20 Mtr.

10. SPECIFICATION OF APRON :-

a. Length of Basin = 15.00 Mtr.

b. Width of Basin =  $H + d = 1.70 + 1.20 = 2.90$   
= 3.00 Mtr.  
= 3.00 Mtr. Say

c. Depth of foundation = Mtr.

11. R.L. of bed level of Nalla Deepest Point

12. R.L. of F.T.L. =

13. R.L. of M.W.L. =

14. R.L. of T.B.L. =

Note :- All suprestructure height excluded coping thickness and top width excludes thickness of plaster (25 mm.)

## DESIGN OF M.M. STRUCTURE

1. Name of Work : Construction of MM Structures Dhoosri
2. Name of Scheme : IWMP-III, Dolatpura W/s,
3. G.P. : Jounla

4. Detail of Design proposed Anicut :

- a. Total Catchment area :
- b. Available crest length : 20.00 M
- c. Free Board : 0.30 Mt.
- d. Height of Headwall : 1.50 Mt.

e. Calculation of peak runoff rate (Design Discharge) :-

$$Q = Cb^{3/4}$$

Where A = Catchment area in Sq. Km. = Sqkm

C = Run off Coefficient

(11.04 For Nothen India)

=

= Cumee.

f. Structural Design Parameters :-

1. Head over Crest (h)

$$h = \left( \frac{Q}{1.711} \right)^{2/3} \quad \left( \quad \right)$$

= meter

2. Free Board :- As per recommendation and site conditions taken as

= Mtr.

3. Total depth of flow (d) = h + FB = mt.

4. Depth of foundation (o) =  $0.47 (Q1F)^{1/3}$

5. Specification of Head Wall :-

a. Crest length of head wall (L) = 20.0 Mt.

b. Crest height of head wall (H) = 1.50 Mt.

c. T.W. of head Wall

$$\text{T.W. (a)} = \frac{1}{2} \sqrt{(H+D)^2}$$

$$= \frac{\sqrt{1.50+1.20}}{2} = 0.82 \text{ Mt}$$

$$= 0.90 \text{ Mt.}$$

$$= 0.90 \text{ Mt. Say}$$

d. Bottom width of head wall at ground level :-

$$\begin{aligned} \text{B.W. (d)} &= \text{T.W.} + 0.8 H = 0.90 + 0.8 \times 1.50 = 2.10 \\ &= 2.20 \text{ Mt.} \end{aligned}$$

e. Bottom width of Masonry in foundation in Head wall at Ground level:-

$$= 2.35 \text{ Mt.}$$

f. Bottom width of foundation C.C. in H.W.

$$= 2.50 \text{ Mt.}$$

g. Depth of foundation = 2.00 Mt.

6. SPECIFICATION OF HEAD WALL EXTENSION (H.W.E.) :-

a. Length =  $H + h + 1.00 =$  Mt.

$$= 1.50 + 1.20 + 1.00 = 3.70 \text{ Mt.}$$

Taken 3.50 m. as per site condition

b. Top width = 0.50 Mt.

c. Bottom width of H.W.E. at ground level :-

$$= 1.05 \text{ Mt.}$$

d. Bottom width of Masonry in foundation In head wall at Ground level :-

$$= 1.20 \text{ Mt.}$$

e. Bottom width of foundation C.C. in H.W.E. :-

$$= 1.20 \text{ Mt.}$$

f. Height of H.W.E. =  $H + d = 1.50 + 1.20 = 2.70 \text{ Mt. Say } 3.00 \text{ Mt.}$

g. Depth of foundation of H.W.E. = 3.00 mt.

7. SPECIFICATION OF SIDE WALL :-

a. Length =  $1.75 + H + 0.75h + 0.45$

$$= \text{mt.}$$

b. Height of side wall (D/s) :-

i. At the junction of H.W.E. =  $H + d = 1.50 + 1.20 = 2.70 \text{ Mt. say } 3.00 \text{ Mt.}$

ii. At the junction of W.W. = Ht. of wing wall = 2.00 mt.

- c. Top width of side wall = 0.50 Mtr.
- d. Bottom width side wall = 1.05 Mtr.
- e. Depth of foundation = 2.00 Mtr.

8. SPECIFICATION OF WINGWALL :-

- a. Length =  $2.25 \times h = 2.25 \times 1.20 = 2.70$  mt.  
= 2.70 (say)
- b. Height of wing wall =  $1.50 \times h = 1.50 \times 1.20 = 1.80$  mtr.  
Say = 2.00 Mtr.
- c. Top width of wing wall = 0.60 Mtr.
- d. Bottom width wing wall = 0.90 Mtr.
- e. Depth of foundation = 1.50 Mtr.

9. SPECIFICATION OF TOEWALL :-

- a. Length = 20.00 Mtr.
- b. Top width = 0.50 Mtr.
- c. Bottom width at C.C. level = 0.90 Mtr.
- d. Depth of foundation = 1.20 Mtr.

10. SPECIFICATION OF APRON :-

- a. Length of Basin = 10.00 Mtr.
- b. Width of Basin =  $H+d = 1.50+1.20= 2.70$   
= 2.70 Mtr.  
= 2.70 Mtr. Say
- c. Depth of foundation = 0.90 Mtr.

11. R.L.of bed level of Nalla Deepest Point

12. R.L of F.T.L =

13. R.L. of M.W.L. =

14. R.L. of T.B.L. =

Note :- All suprestructure height excluded coping thickness and top width excludes thickness of plaster (25 mm.)

## DESIGN OF M.M. STRUCTURE

1. Name of Work : Construction of MM Structures Sisola
2. Name of Scheme : IWMP-III, Dolatpura W/s,
3. G.P. : Nathari

4. Detail of Design proposed Anicut :

- a. Total Catchment area :
- b. Available crest length : 30.00 M
- c. Free Board : 0.30 Mt.
- d. Height of Headwall : 1.70 Mt.

e. Calculation of peak runoff rate (Design Discharge) :-

$$Q = Cb^{3/4}$$

Where A = Catchment area in Sq. Km. = Sqkm

C = Run off Coefficient

(11.04 For Nothen India)

=

= Cumee.

f. Structural Design Parameters :-

1. Head over Crest (h)

$$h = \left( \frac{Q}{1.711} \right)^{2/3} \quad \left( \quad \right)$$

= meter

2. Free Board :- As per recommendation and site conditions taken as

= Mtr.

3. Total depth of flow (d) = h + FB = mt.

4. Depth of foundation (o) =  $0.47 (Q1F)^{1/3}$

5. Specification of Head Wall :-

a. Crest length of head wall (L) = 30.0 Mt.

b. Crest height of head wall (H) = 1.70 Mt.

c. T.W. of head Wall

$$\text{T.W. (a)} = \frac{1}{2} \sqrt{(H+D)^2}$$

$$= \frac{\sqrt{1.70+1.50}}{2} = 1.00 \text{ Mt}$$

$$= 1.00 \text{ Mt.}$$

$$= 1.00 \text{ Mt. Say}$$

d. Bottom width of head wall at ground level :-

$$\begin{aligned} \text{B.W. (d)} &= \text{T.W.} + 0.8 H = 1.00 + 0.8 \times 1.70 = 2.36 \\ &= 2.50 \text{ Mt.} \end{aligned}$$

e. Bottom width of Masonry in foundation in Head wall at Ground level:-

$$= 2.65 \text{ Mt.}$$

f. Bottom width of foundation C.C. in H.W.

$$= 3.00 \text{ Mt.}$$

g. Depth of foundation = 2.50 Mt.

6. SPECIFICATION OF HEAD WALL EXTENSION (H.W.E.) :-

a. Length =  $H + h + 1.00 =$  Mt.  
=  $1.70 + 1.50 + 1.00 = 4.20 \text{ Mt.}$

Taken 4.00 m. as per site condition

b. Top width = 0.60 Mt.

c. Bottom width of H.W.E. at ground level :-

$$= 1.20 \text{ Mt.}$$

d. Bottom width of Masonry in foundation In head wall at Ground level :-

$$= 1.35 \text{ Mt.}$$

e. Bottom width of foundation C.C. in H.W.E. :-

$$= 1.50 \text{ Mt.}$$

f. Height of H.W.E. =  $H + d = 1.70 + 1.50 = 3.20 \text{ Mt. Say } 3.50 \text{ Mt.}$

g. Depth of foundation of H.W.E. = 2.50 mt.

7. SPECIFICATION OF SIDE WALL :-

a. Length =  $1.75 + H + 0.75h + 0.45$   
= mt.

b. Height of side wall (D/s) :-

i. At the junction of H.W.E. =  $H + d = 1.70 + 1.50 = 3.20 \text{ Mt. say } 3.50 \text{ Mt.}$

ii. At the junction of W.W. = Ht. of wing wall = 2.00 mt.

- c. Top width of side wall = 0.60 Mtr.
- d. Bottom width side wall = 1.05 Mtr.
- e. Depth of foundation = 2.50 Mtr.

8. SPECIFICATION OF WINGWALL :-

- a. Length =  $2.25 \times h = 2.25 \times 1.50 = 3.37$  mt.  
= 3.00 (say)
- b. Height of wing wall =  $1.50 \times h = 1.50 \times 1.50$  mtr.  
Say = 2.00 Mtr.
- c. Top width of wing wall = 0.60 Mtr.
- d. Bottom width wing wall = 0.90 Mtr.
- e. Depth of foundation = 1.50 Mtr.

9. SPECIFICATION OF TOEWALL :-

- a. Length = 20.00 Mtr.
- b. Top width = 0.60 Mtr.
- c. Bottom width at C.C. level = 0.90 Mtr.
- d. Depth of foundation = 1.20 Mtr.

10. SPECIFICATION OF APRON :-

- a. Length of Basin = 20.00 Mtr.
- b. Width of Basin =  $H+d = 1.70+1.50= 3.20$   
= 3.20 Mtr.  
= 3.20 Mtr. Say
- c. Depth of foundation = Mtr.

11. R.L.of bed level of Nalla Deepest Point

12. R.L of F.T.L =

13. R.L. of M.W.L. =

14. R.L. of T.B.L. =

Note :- All suprestructure height excluded coping thickness and top width excludes thickness of plaster (25 mm.)

## DESIGN OF M.M. STRUCTURE

1. Name of Work : Construction of MM Structures Sisola
2. Name of Scheme : IWMP-III, Dolatpura W/s,
3. G.P. : Nathari

4. Detail of Design proposed Anicut :

- a. Total Catchment area :
- b. Available crest length : 15.00 M
- c. Free Board : 0.30 Mt.
- d. Height of Headwall : 1.50 Mt.

e. Calculation of peak runoff rate (Design Discharge) :-

$$Q = Cb^{3/4}$$

Where A = Catchment area in Sq. Km. = Sqkm

C = Run off Coefficient

(11.04 For Nothen India)

=

= Cumee.

f. Structural Design Parameters :-

1. Head over Crest (h)

$$h = \left[ \frac{Q}{1.711} \right]^{2/3} \quad \left( \quad \right)$$

= meter

2. Free Board :- As per recommendation and site conditions taken as

= Mtr.

3. Total depth of flow (d) = h + FB = mt.

4. Depth of foundation (o) =  $0.47 (Q1F)^{1/3}$

5. Specification of Head Wall :-

a. Crest length of head wall (L) = 15.0 Mt.

b. Crest height of head wall (H) = 1.50 Mt.

c. T.W. of head Wall

$$\text{T.W. (a)} = \frac{1}{2} \sqrt{(H+D)^2}$$

$$= \frac{\sqrt{1.50+0.90}}{2} = 0.77 \text{ Mt}$$

$$= 0.90 \text{ Mt.}$$

$$= 1.00 \text{ Mt. Say}$$

d. Bottom width of head wall at ground level :-

$$\text{B.W. (d)} = \text{T.W.} + 0.8 H = 0.90 + 0.8 \times 1.50 = 2.10$$

$$= 2.20 \text{ Mt.}$$

e. Bottom width of Masonry in foundation in Head wall at Ground level:-

$$= 2.20 \text{ Mt.}$$

f. Bottom width of foundation C.C. in H.W.

$$= 2.50 \text{ Mt.}$$

g. Depth of foundation = 2.00 Mt.

6. SPECIFICATION OF HEAD WALL EXTENSION (H.W.E.) :-

a. Length =  $H + h + 1.00 =$  Mt.

$$= 1.50 + 0.90 + 1.00 = 3.40 \text{ Mt.}$$

Taken 3.50 m. as per site condition

b. Top width = 0.60 Mt.

c. Bottom width of H.W.E. at ground level :-

$$= 1.05 \text{ Mt.}$$

d. Bottom width of Masonry in foundation In head wall at Ground level :-

$$= 1.20 \text{ Mt.}$$

e. Bottom width of foundation C.C. in H.W.E. :-

$$= 1.50 \text{ Mt.}$$

f. Height of H.W.E. =  $H + d = 1.50 + 0.90 = 2.40 \text{ Mt. Say } 2.40 \text{ Mt.}$

g. Depth of foundation of H.W.E. = 2.50 mt.

7. SPECIFICATION OF SIDE WALL :-

a. Length =  $1.75 + H + 0.75h + 0.45$

$$= 4.70 \text{ mt.}$$

b. Height of side wall (D/s) :-

i. At the junction of H.W.E. =  $H + d = 1.50 + 0.90 = 2.40 \text{ Mt. say } 2.50 \text{ Mt.}$

ii. At the junction of W.W. = Ht. of wing wall = 1.50 mt.

- c. Top width of side wall = 0.60 Mtr.
- d. Bottom width side wall = 0.90 Mtr.
- e. Depth of foundation = 2.00 Mtr.

8. SPECIFICATION OF WINGWALL :-

- a. Length =  $2.25 \times h = 2.25 \times 0.90 = 2.02 \text{ mt.}$   
= 2.00 (say)
- b. Height of wing wall =  $1.50 \times h = 1.50 \times 0.90 \text{ mtr.} = 1.35$   
Say = 1.50 Mtr.
- c. Top width of wing wall = 0.60 Mtr.
- d. Bottom width wing wall = 0.90 Mtr.
- e. Depth of foundation = 1.50 Mtr.

9. SPECIFICATION OF TOEWALL :-

- a. Length = 15.00 Mtr.
- b. Top width = 0.60 Mtr.
- c. Bottom width at C.C. level = 0.90 Mtr.
- d. Depth of foundation = 1.20 Mtr.

10. SPECIFICATION OF APRON :-

- a. Length of Basin = 15.00 Mtr.
- b. Width of Basin =  $H+d = 1.50+0.90 = 2.40$   
= 2.50 Mtr.  
= 2.50 Mtr. Say
- c. Depth of foundation = 0.90 Mtr.

11. R.L.of bed level of Nalla Deepest Point

12. R.L of F.T.L =

13. R.L. of M.W.L. =

14. R.L. of T.B.L. =

Note :- All suprestructure height excluded coping thickness and top width excludes thickness of plaster (25 mm.)

## DESIGN OF M.M. STRUCTURE

1. Name of Work : Construction of MM Structures Jounla
2. Name of Scheme : IWMP-III, Dolatpura W/s,
3. G.P. : Jounla

4. Detail of Design proposed Anicut :

- a. Total Catchment area :
- b. Available crest length : 30.00 M
- c. Free Board : 0.30 Mt.
- d. Height of Headwall : 1.50 Mt.

e. Calculation of peak runoff rate (Design Discharge) :-

$$Q = Cb^{3/4}$$

Where A = Catchment area in Sq. Km. = Sqkm

C = Run off Coefficient

(11.04 For Nothen India)

=

= Cumee.

f. Structural Design Parameters :-

1. Head over Crest (h)

$$h = \left[ \frac{Q}{1.711} \right]^{2/3} \quad \left( \quad \right)$$

= meter

2. Free Board :- As per recommendation and site conditions taken as

= Mtr.

3. Total depth of flow (d) = h + FB = mt.

4. Depth of foundation (o) =  $0.47 (Q1F)^{1/3}$

5. Specification of Head Wall :-

a. Crest length of head wall (L) = 30.0 Mt.

b. Crest height of head wall (H) = 1.50 Mt.

c. T.W. of head Wall

$$\text{T.W. (a)} = \frac{1}{2} \sqrt{(H+D)^2}$$

$$= \frac{\sqrt{1.50+1.00}}{2} = 0.70 \text{ Mt}$$

$$= 0.90 \text{ Mt.}$$

$$= 0.90 \text{ Mt. Say}$$

d. Bottom width of head wall at ground level :-

$$\text{B.W. (d)} = \text{T.W.} + 0.8 H = 0.90 + 0.8 \times 1.50 = 2.10$$

$$= 2.00 \text{ Mt.}$$

e. Bottom width of Masonry in foundation in Head wall at Ground level:-

$$= 2.15 \text{ Mt.}$$

f. Bottom width of foundation C.C. in H.W.

$$= 2.50 \text{ Mt.}$$

g. Depth of foundation = 2.00 Mt.

6. SPECIFICATION OF HEAD WALL EXTENSION (H.W.E.) :-

a. Length =  $H + h + 1.00 =$  Mt.

$$= 1.50 + 1.00 + 1.00 = 3.50 \text{ Mt.}$$

Taken 3.50 m. as per site condition

b. Top width = 0.60 Mt.

c. Bottom width of H.W.E. at ground level :-

$$= 0.90 \text{ Mt.}$$

d. Bottom width of Masonry in foundation In head wall at Ground level :-

$$= 1.05 \text{ Mt.}$$

e. Bottom width of foundation C.C. in H.W.E. :-

$$= 1.20 \text{ Mt.}$$

f. Height of H.W.E. =  $H + d = 1.50 + 1.00 = 2.50 \text{ Mt. Say } 2.50 \text{ Mt.}$

g. Depth of foundation of H.W.E. = 2.00 mt.

7. SPECIFICATION OF SIDE WALL :-

a. Length =  $1.75 + H + 0.75h + 0.45$

$$= \text{mt.}$$

- b. Height of side wall (D/s) :-
- i. At the junction of H.W.E. =  $H + d = 1.50 + 1.00 = 2.50$  Mt. say 2.50 Mt.
- ii. At the junction of W.W. = Ht. of wing wall = 2.00 mt.
- c. Top width of side wall = 0.60 Mtr.
- d. Bottom width side wall = 1.05 Mtr.
- e. Depth of foundation = 2.50 Mtr.

8. SPECIFICATION OF WINGWALL :-

- a. Length =  $2.25 \times h = 2.25 \times 1.00 = 2.25$  mt.  
= 2.25 (say)
- b. Height of wing wall =  $1.50 \times h = 1.50 \times 1.00$  mtr. = 1.50  
Say = 1.50 Mtr.
- c. Top width of wing wall = 0.60 Mtr.
- d. Bottom width wing wall = 0.90 Mtr.
- e. Depth of foundation = 1.50 Mtr.

9. SPECIFICATION OF TOEWALL :-

- a. Length = 30.00 Mtr.
- b. Top width = 0.60 Mtr.
- c. Bottom width at C.C. level = 0.90 Mtr.
- d. Depth of foundation = 1.20 Mtr.

10. SPECIFICATION OF APRON :-

- a. Length of Basin = 30.00 Mtr.
- b. Width of Basin =  $H + d = 1.50 + 1.00 = 2.50$   
= 2.50 Mtr.  
= 2.50 Mtr. Say
- c. Depth of foundation = Mtr.

11. R.L. of bed level of Nalla Deepest Point

12. R.L. of F.T.L. =

13. R.L. of M.W.L. =

14. R.L. of T.B.L. =

Note :- All suprastructure height excluded coping thickness and top width excludes thickness of plaster (25 mm.)

## DESIGN OF M.M. STRUCTURE

1. Name of Work : Construction of MM Structures Dhoosri
2. Name of Scheme : IWMP-III, Dolatpura W/s,
3. G.P. : Jounla

4. Detail of Design proposed Anicut :

- a. Total Catchment area :
- b. Available crest length : 10.00 M
- c. Free Board : 0.30 Mt.
- d. Height of Headwall : 1.20 Mt.

e. Calculation of peak runoff rate (Design Discharge) :-

$$Q = Cb^{3/4}$$

Where A = Catchment area in Sq. Km. = Sqkm

C = Run off Coefficient

(11.04 For Nothen India)

=

= Cumee.

f. Structural Design Parameters :-

1. Head over Crest (h)

$$h = \left( \frac{Q}{1.711} \right)^{2/3} \quad \left( \quad \right)$$

= meter

2. Free Board :- As per recommendation and site conditions taken as

= Mtr.

3. Total depth of flow (d) = h + FB = mt.

4. Depth of foundation (o) =  $0.47 (Q1F)^{1/3}$

5. Specification of Head Wall :-

a. Crest length of head wall (L) = 10.0 Mt.

b. Crest height of head wall (H) = 1.20 Mt.

c. T.W. of head Wall

$$\begin{aligned} \text{T.W. (a)} &= \frac{1}{2} \sqrt{(H+D)^2} \\ &= \frac{\sqrt{1.20+0.90}}{2} = 0.72 \text{ Mt} \\ &= 0.90 \text{ Mt.} \\ &= 0.90 \text{ Mt. Say} \end{aligned}$$

d. Bottom width of head wall at ground level :-

$$\begin{aligned} \text{B.W. (d)} &= \text{T.W.} + 0.8 H = 0.90 + 0.8 \times 1.20 = 2.04 \\ &= 2.00 \text{ Mt.} \end{aligned}$$

e. Bottom width of Masonry in foundation in Head wall at Ground level:-

$$= 2.15 \text{ Mt.}$$

f. Bottom width of foundation C.C. in H.W.

$$= 2.30 \text{ Mt.}$$

g. Depth of foundation = 2.00 Mt.

6. SPECIFICATION OF HEAD WALL EXTENSION (H.W.E.) :-

a. Length =  $H + h + 1.00 =$  Mt.  
=  $1.20 + 0.90 + 1.00 = 3.10 \text{ Mt.}$

Taken 3.00 m. as per site condition

b. Top width = 0.45 Mt.

c. Bottom width of H.W.E. at ground level :-

$$= 0.90 \text{ Mt.}$$

d. Bottom width of Masonry in foundation In head wall at Ground level :-

$$= 1.05 \text{ Mt.}$$

e. Bottom width of foundation C.C. in H.W.E. :-

$$= 1.20 \text{ Mt.}$$

f. Height of H.W.E. =  $H + d = 1.20 + 0.90 = 2.10 \text{ Mt. Say } 2.00 \text{ Mt.}$

g. Depth of foundation of H.W.E. = 2.20 mt.

7. SPECIFICATION OF SIDE WALL :-

a. Length =  $1.75 + H + 0.75h + 0.45$   
= mt.

- b. Height of side wall (D/s) :-
  - i. At the junction of H.W.E. =  $H + d = 1.20 + 0.90 = 2.10$  Mt. say 2.00 Mt.
  - ii. At the junction of W.W. = Ht. of wing wall = 1.50 mt.
- c. Top width of side wall = 0.45 Mtr.
- d. Bottom width side wall = 0.90 Mtr.
- e. Depth of foundation = 2.00 Mtr.

8. SPECIFICATION OF WINGWALL :-

- a. Length =  $2.25 \times h = 2.25 \times 0.90 = 2.02$  mt.  
= 2.00 (say)
- b. Height of wing wall =  $1.50 \times h = 1.50 \times 0.90$  mtr. = 1.35 mtr.  
Say = 1.50 Mtr.
- c. Top width of wing wall = 0.45 Mtr.
- d. Bottom width wing wall = 0.90 Mtr.
- e. Depth of foundation = 1.50 Mtr.

9. SPECIFICATION OF TOEWALL :-

- a. Length = 10.00 Mtr.
- b. Top width = 0.30 Mtr.
- c. Bottom width at C.C. level = 0.90 Mtr.
- d. Depth of foundation = 1.20 Mtr.

10. SPECIFICATION OF APRON :-

- a. Length of Basin = 10.00 Mtr.
- b. Width of Basin =  $H + d = 1.20 + 0.90 = 2.10$   
= 2.20 Mtr.  
= 2.00 Mtr. Say
- c. Depth of foundation = 0.90 Mtr.

11. R.L. of bed level of Nalla Deepest Point

12. R.L. of F.T.L. =

13. R.L. of M.W.L. =

14. R.L. of T.B.L. =

Note :- All suprestructure height excluded coping thickness and top width excludes thickness of plaster (25 mm.)

## **CHAPTER - VIII**

### **Enclosures -**

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

#### **Documents of Agreements:**

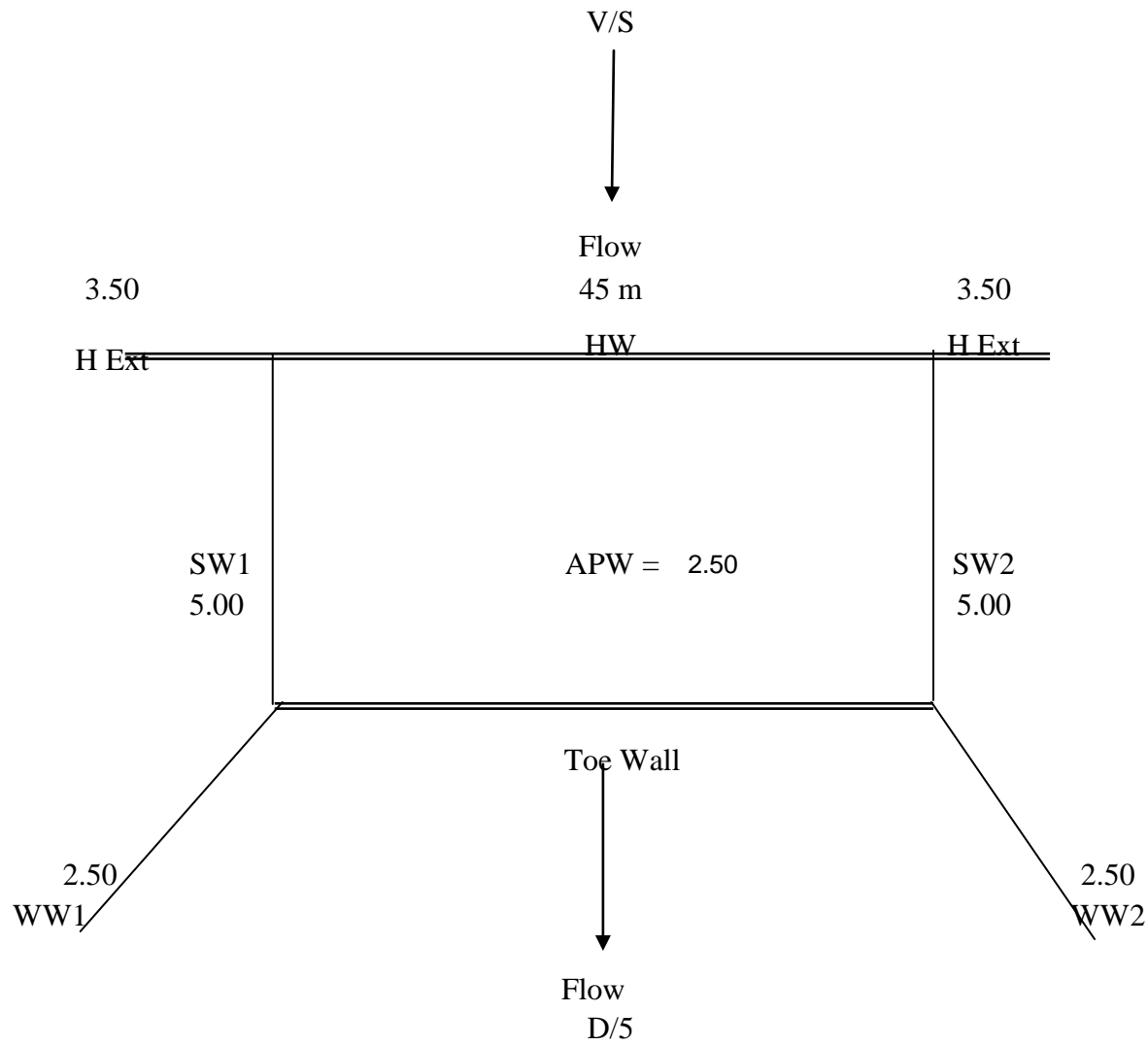
Proceedings of gram sabha for EPA approval

Proceedings of gram sabha Resolution for committee constitution

Proceedings of gram sabha for DPR approval

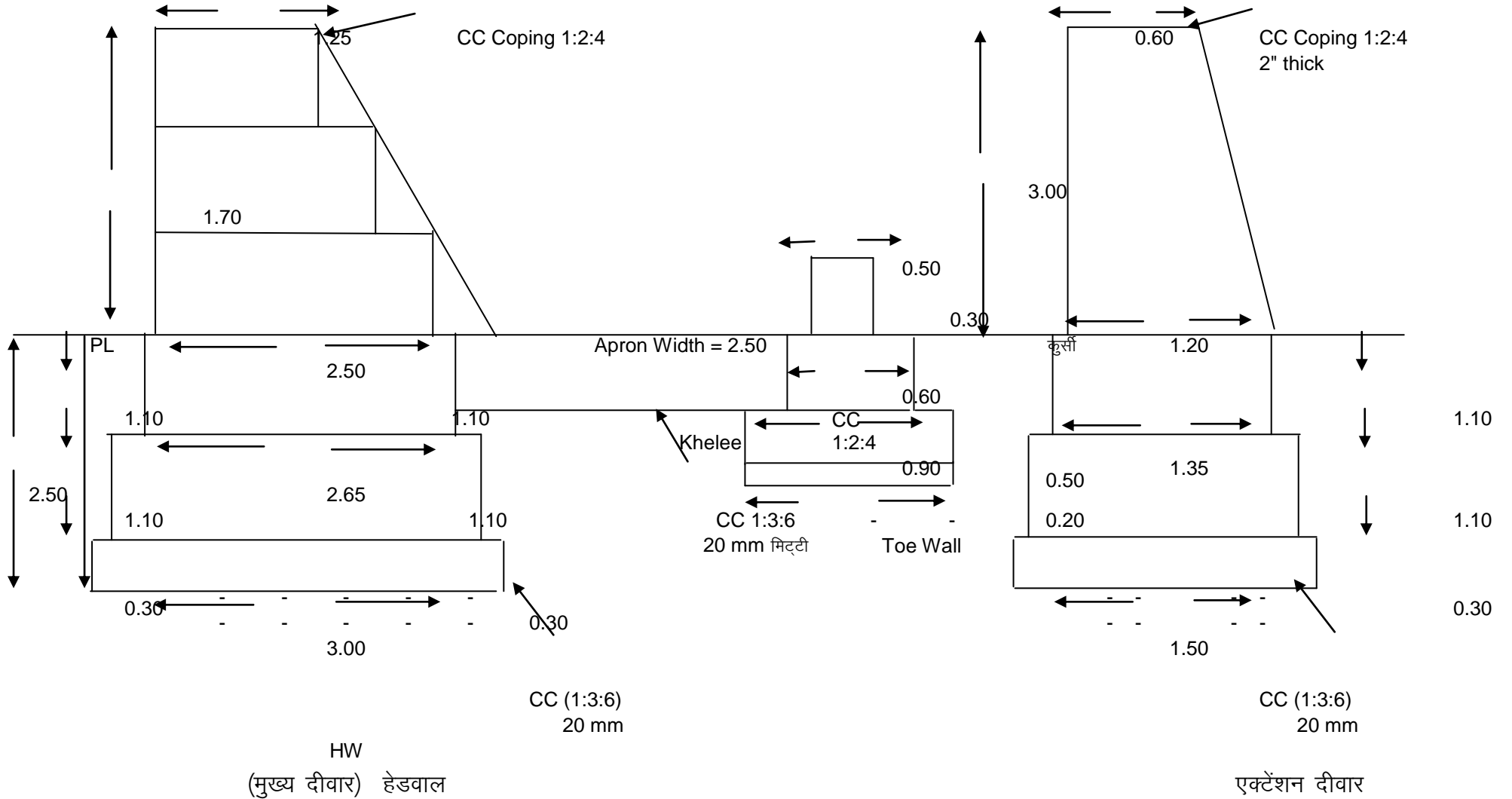
DPR approval by district

Construction of M.M.Structure  
Name of Watershed : IWMP-III, Dolatpura P.S. TONK

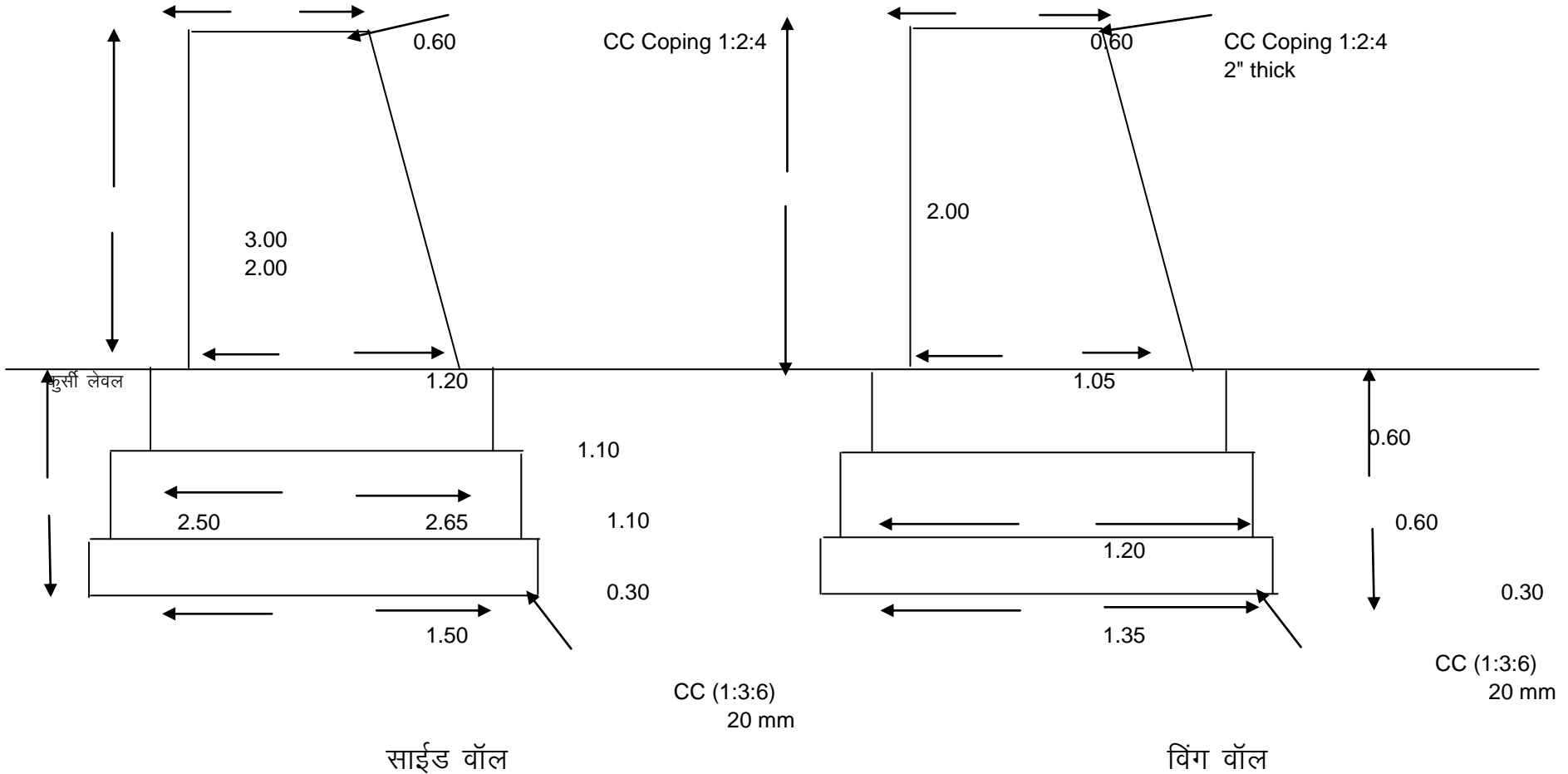


# Construction of M.M. Structure

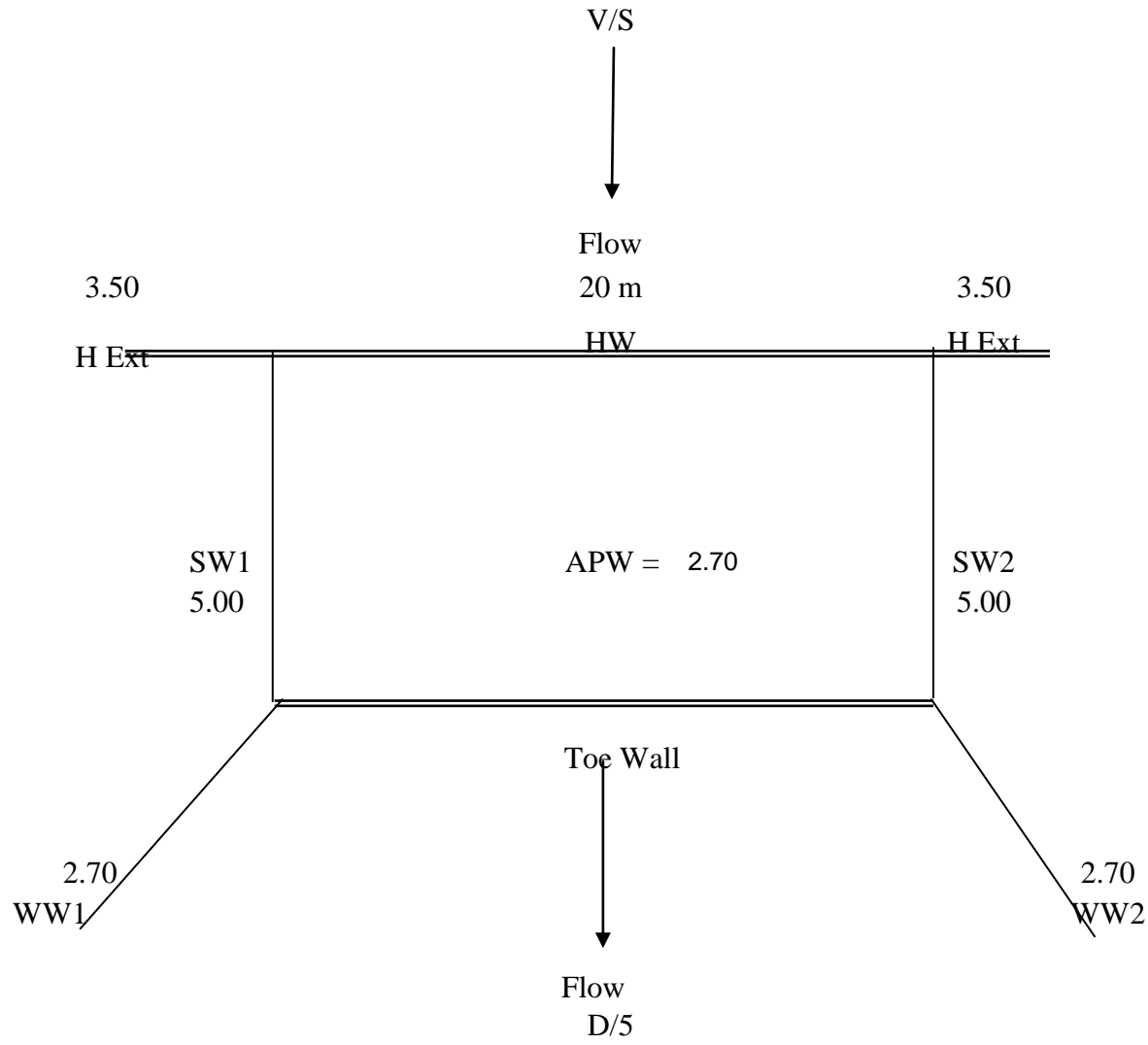
Name of W/S : IWMP-III, Dolatpura, P.S. TONK



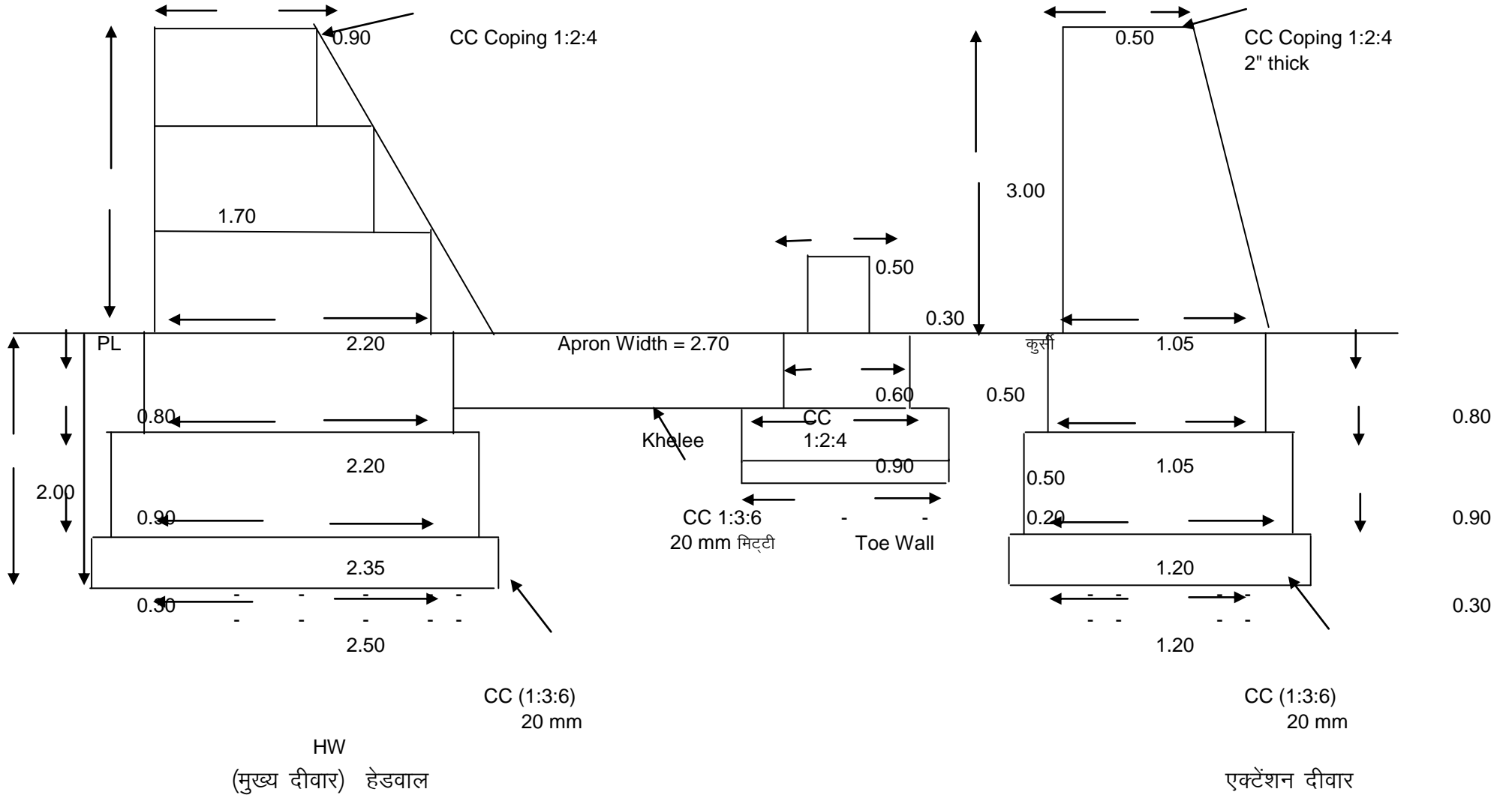
**Construction of M.M. Structure**  
**Name of W/S : IWMP-III, Dolatpura, P.S. TONK**



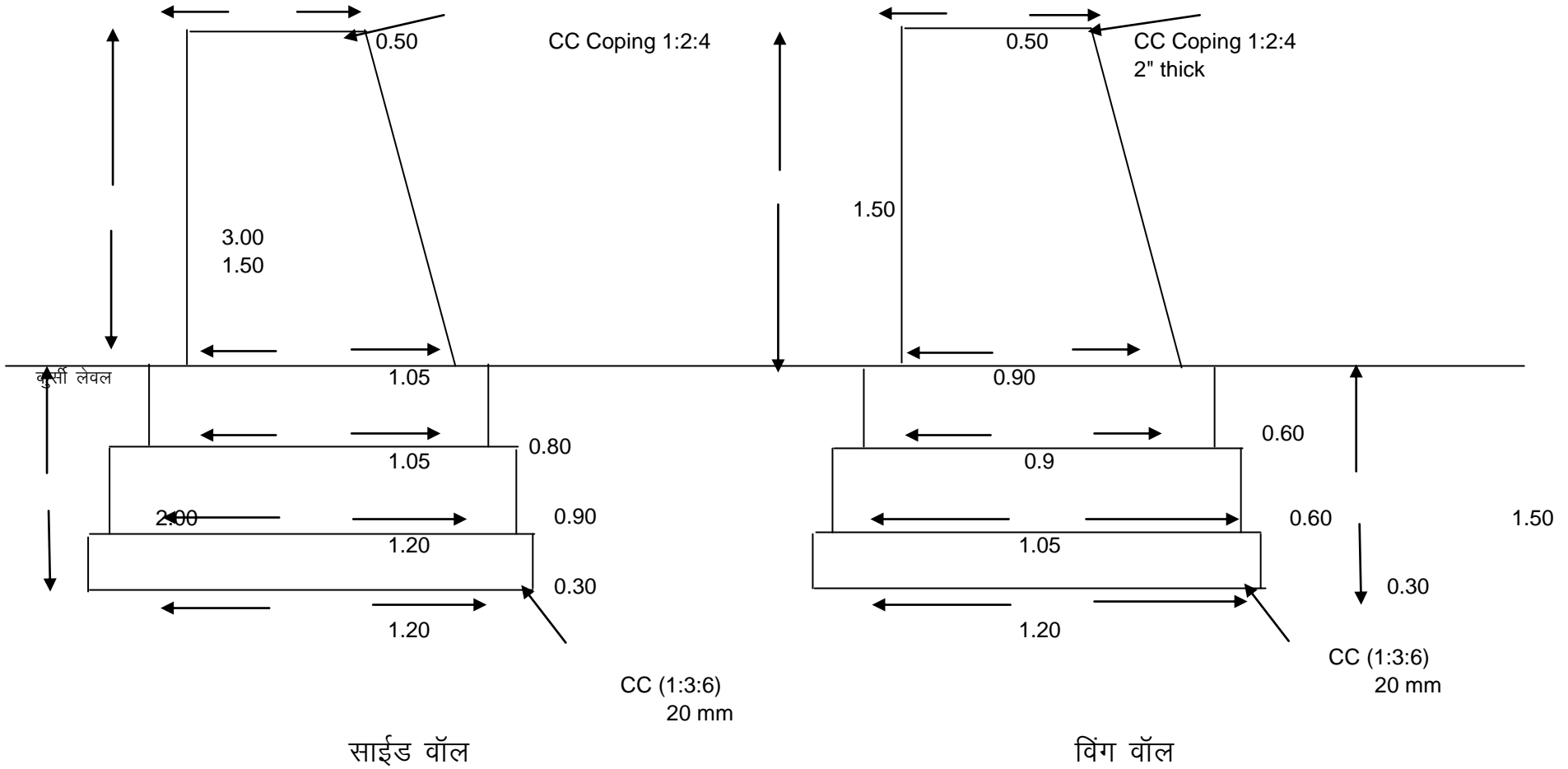
Construction of M.M.Structure  
Name of Watershed : IWMP-III, Dolatpura P.S. TONK



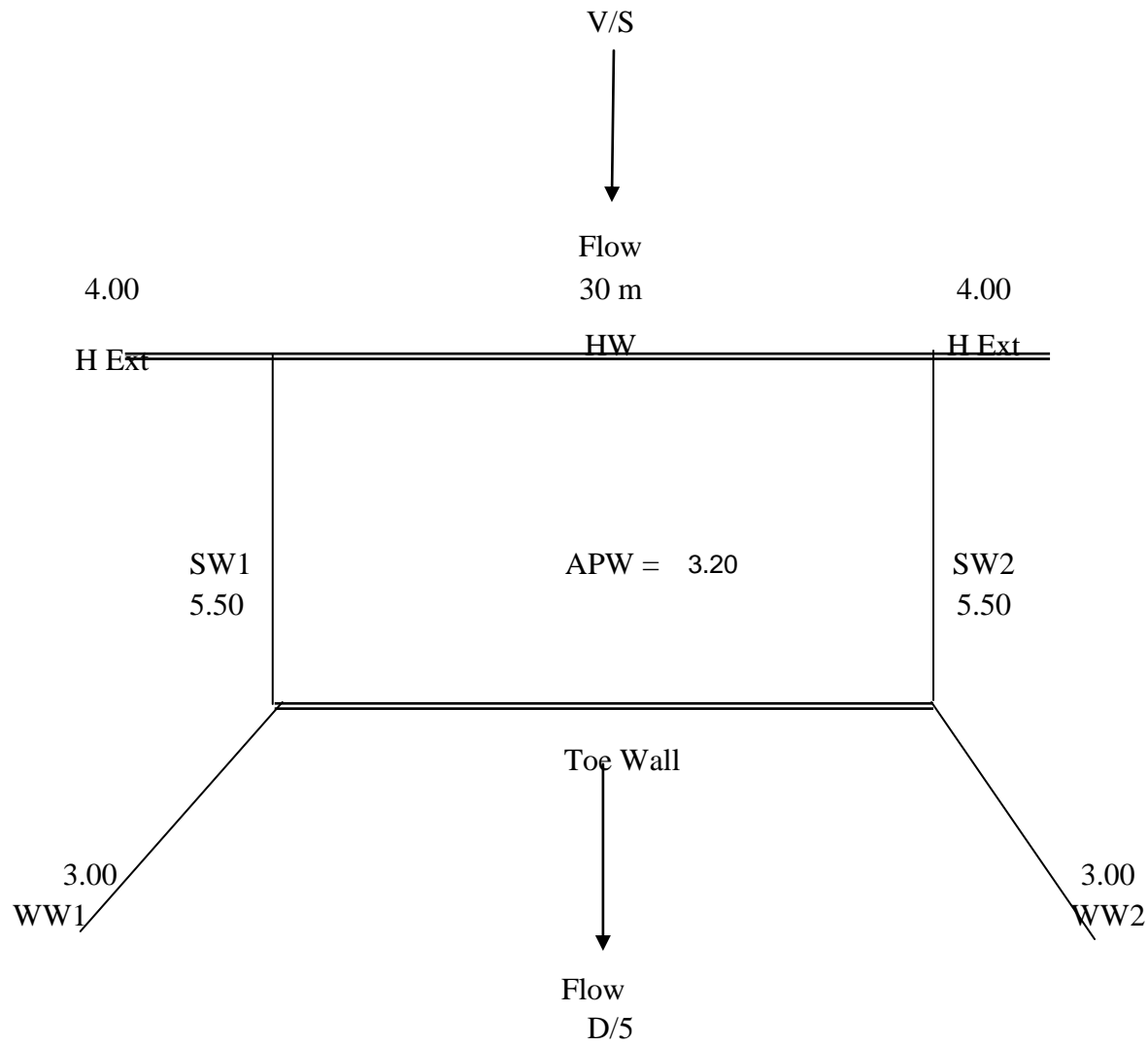
**Construction of M.M. Structure**  
**Name of W/S : IWMP-III, Dolatpura, P.S. TONK**



**Construction of M.M.Structure**  
**Name of W/S : IWMP-III, Dolatpura, P.S. TONK**

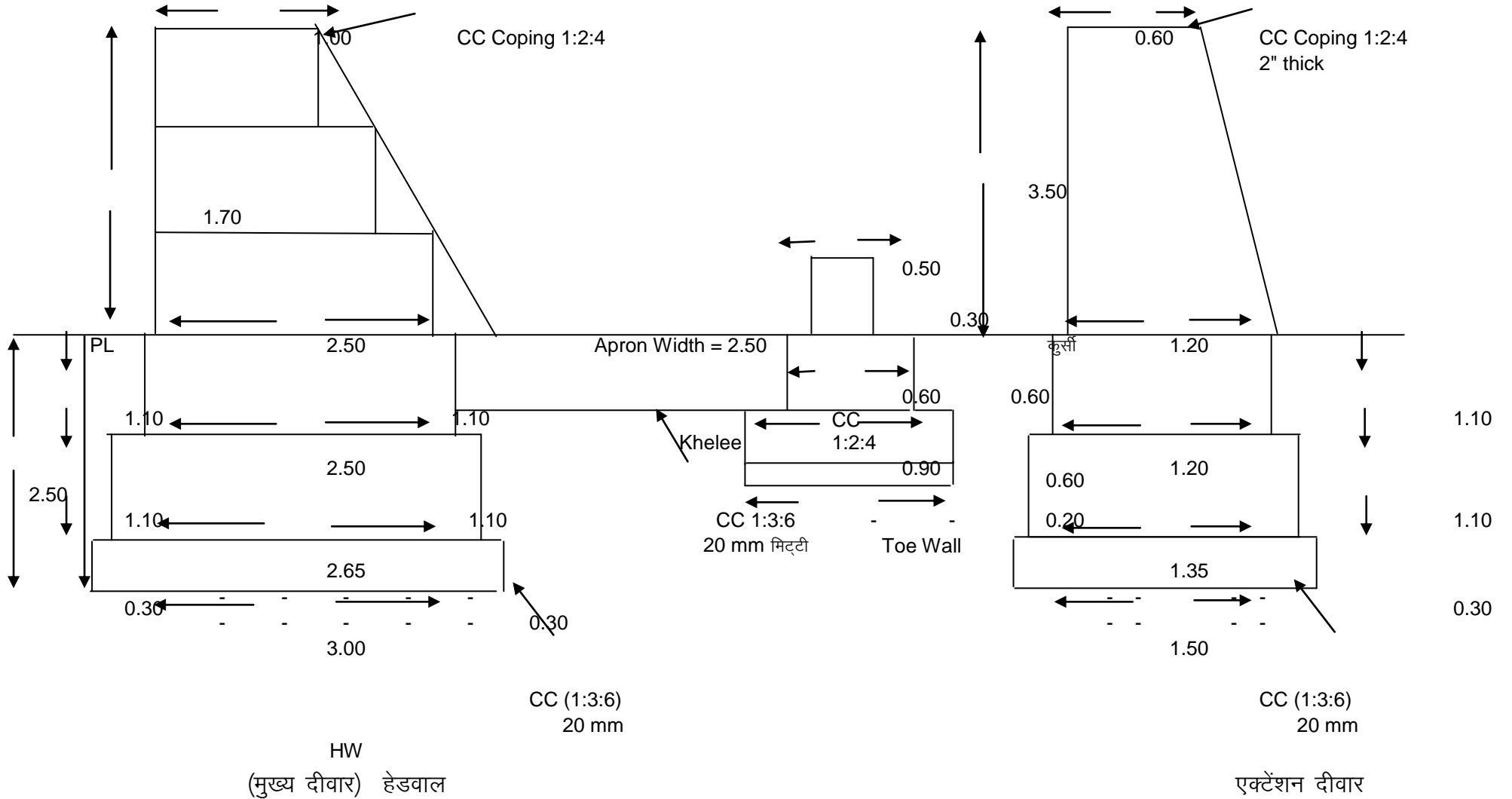


Construction of M.M.Structure  
Name of Watershed : IWMP-III, Dolatpura P.S. TONK

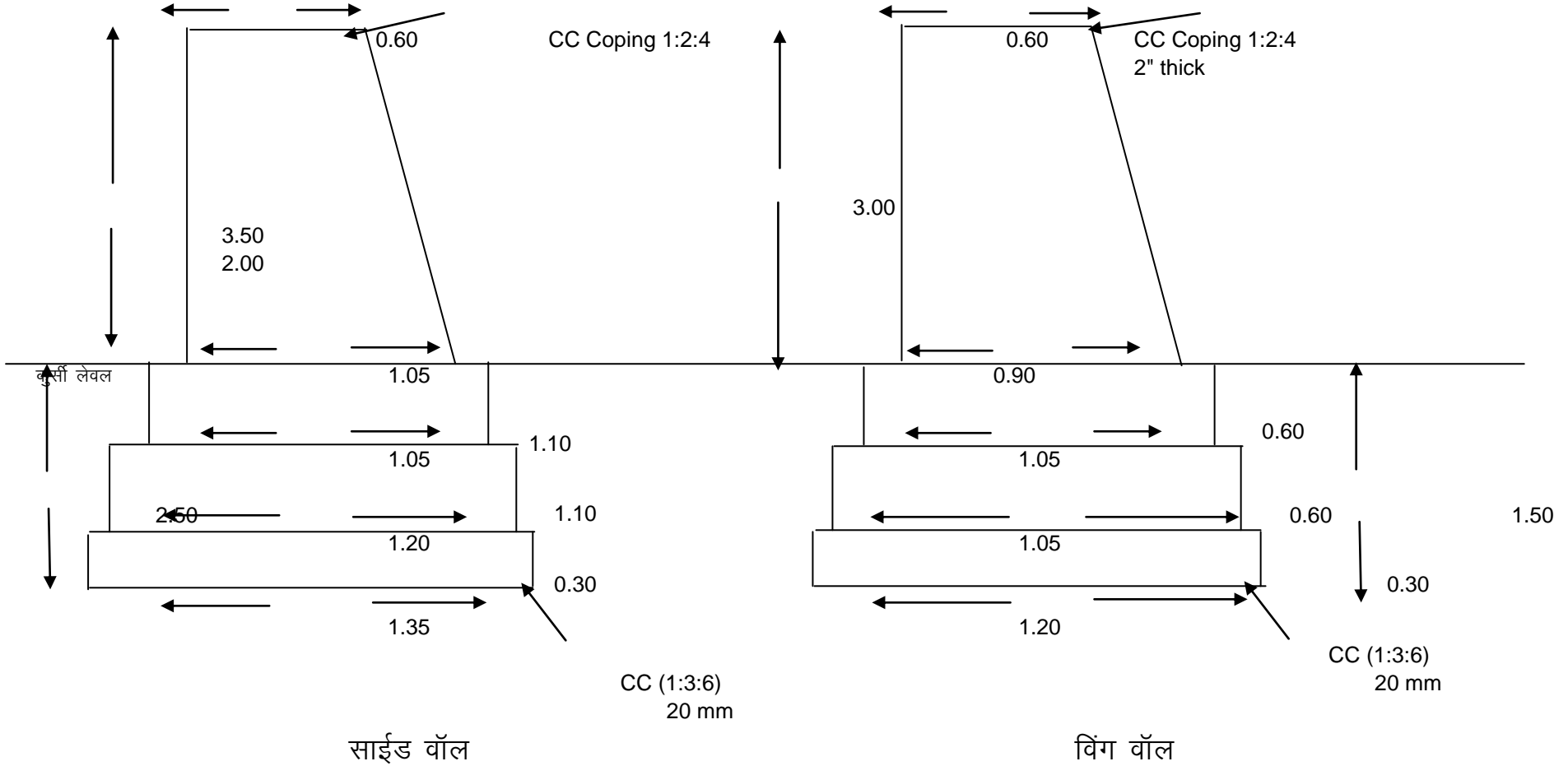


# Construction of M.M. Structure

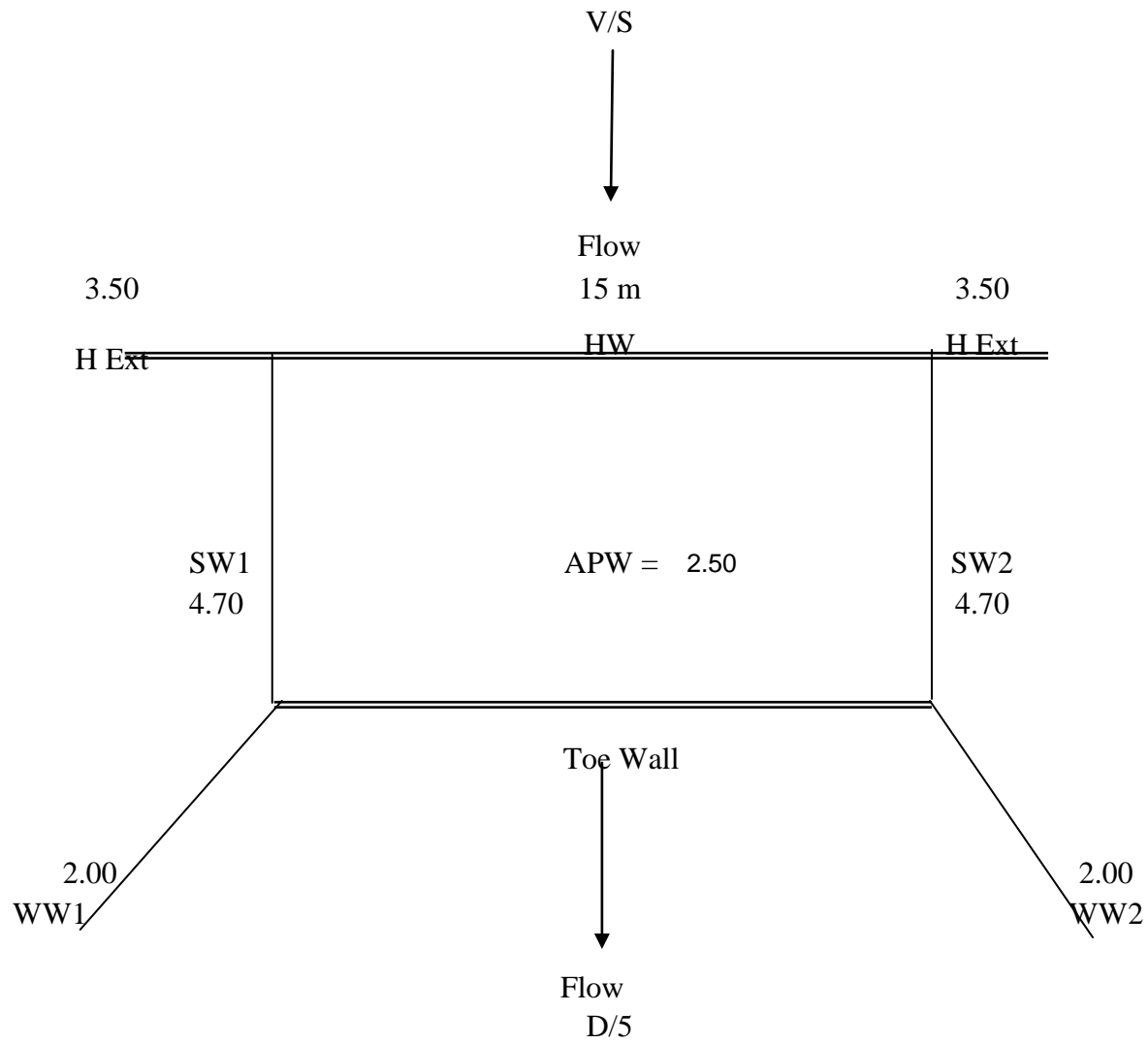
Name of W/S : IWMP-III, Dolatpura, P.S. TONK



**Construction of M.M. Structure**  
**Name of W/S : IWMP-III, Dolatpura, P.S. TONK**

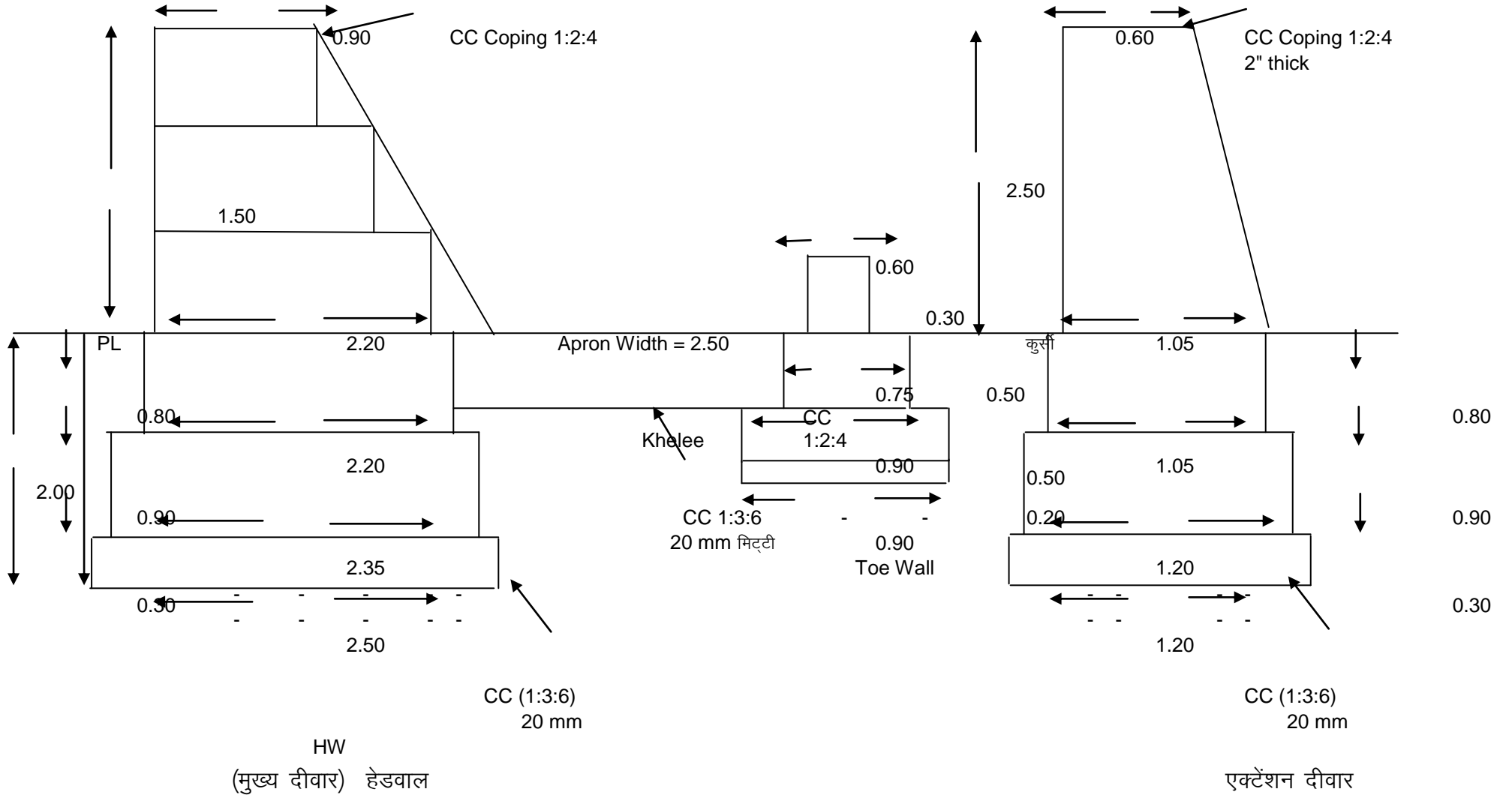


Construction of M.M.Structure  
Name of Watershed : IWMP-III, Dolatpura, P.S. TONK

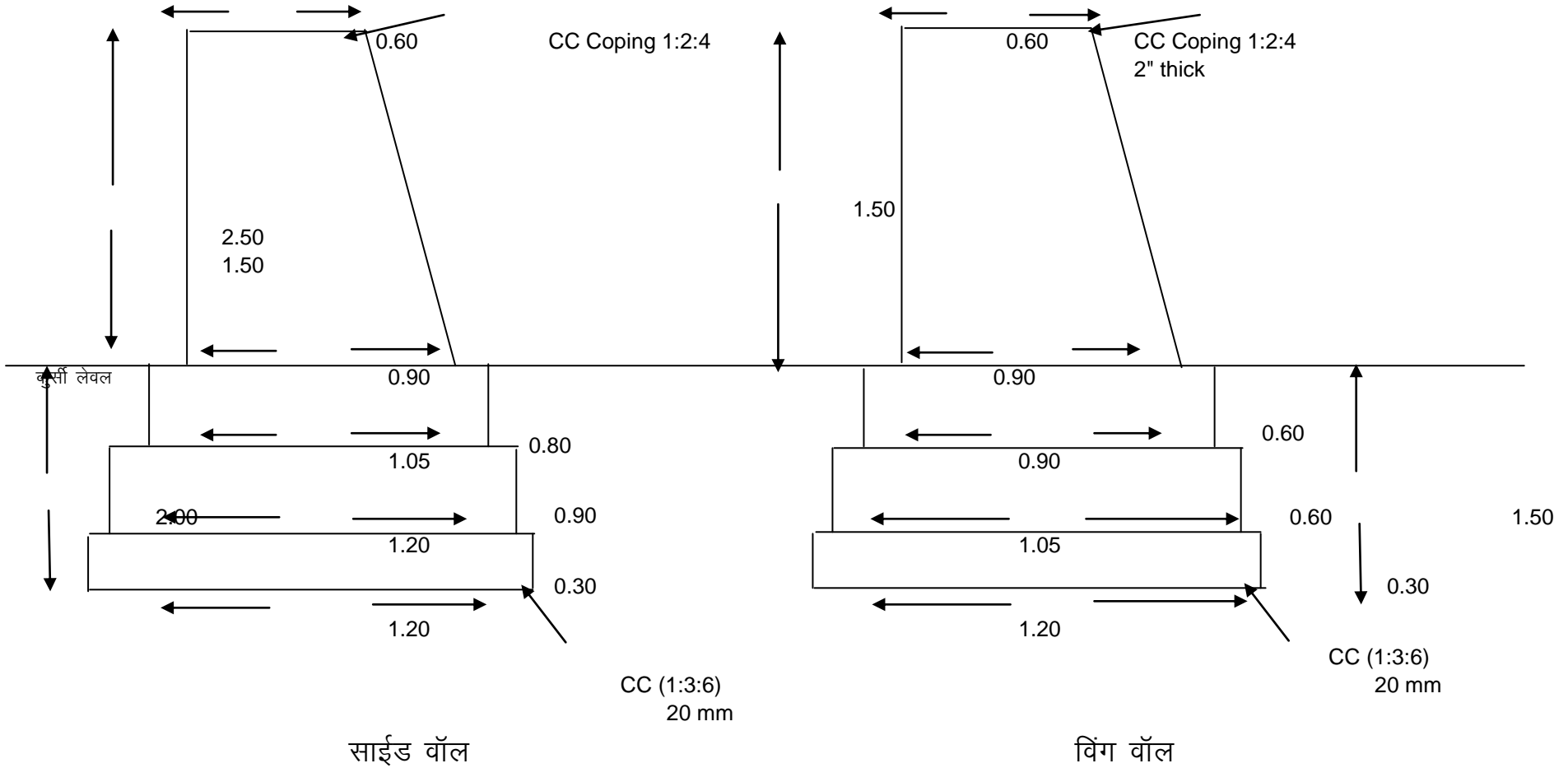


# Construction of M.M. Structure

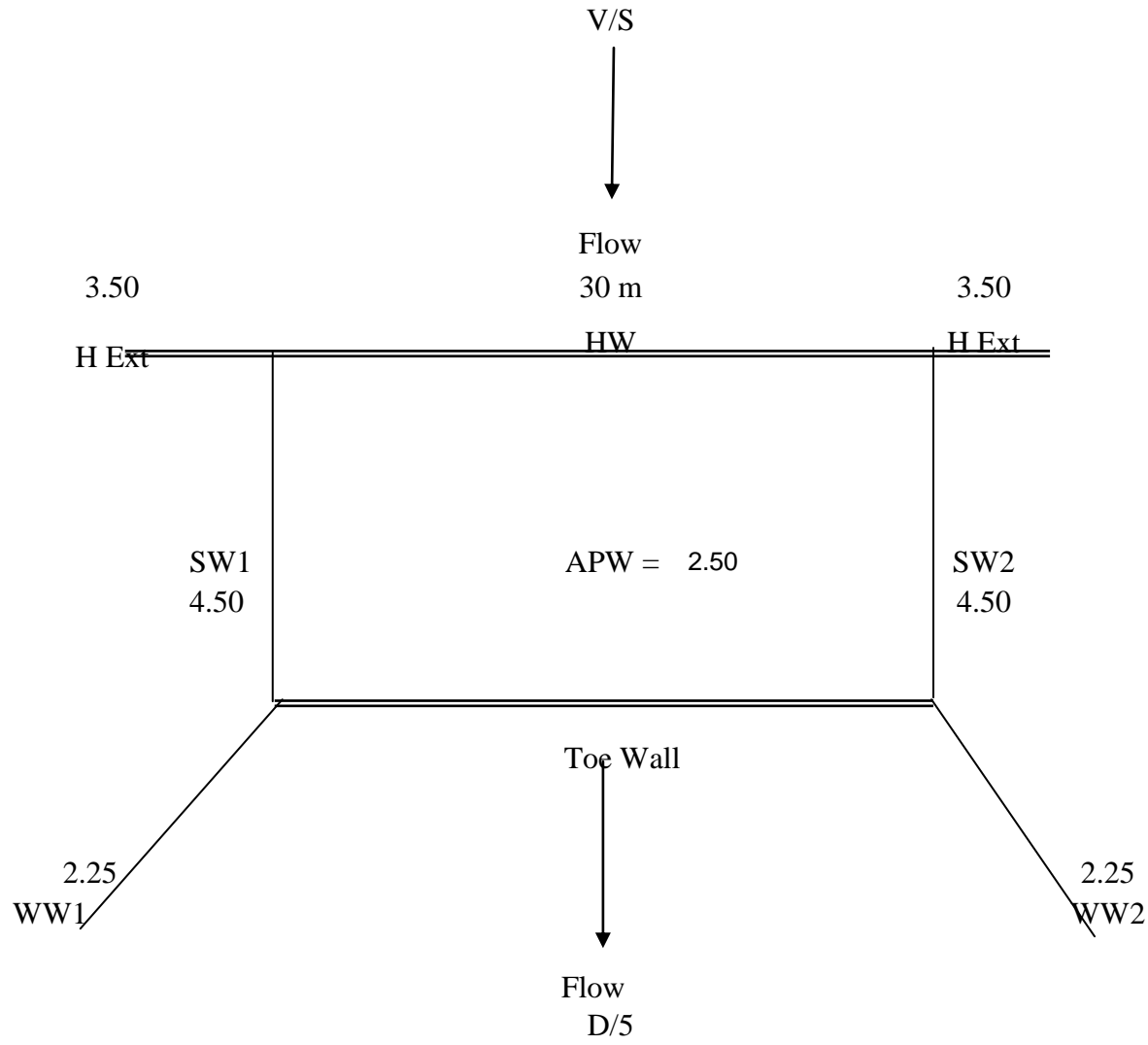
Name of W/S : IWMP-III, Dolatpura, P.S. TONK



**Construction of M.M.Structure**  
**Name of W/S : IWMP-III, Dolatpura, P.S. TONK**

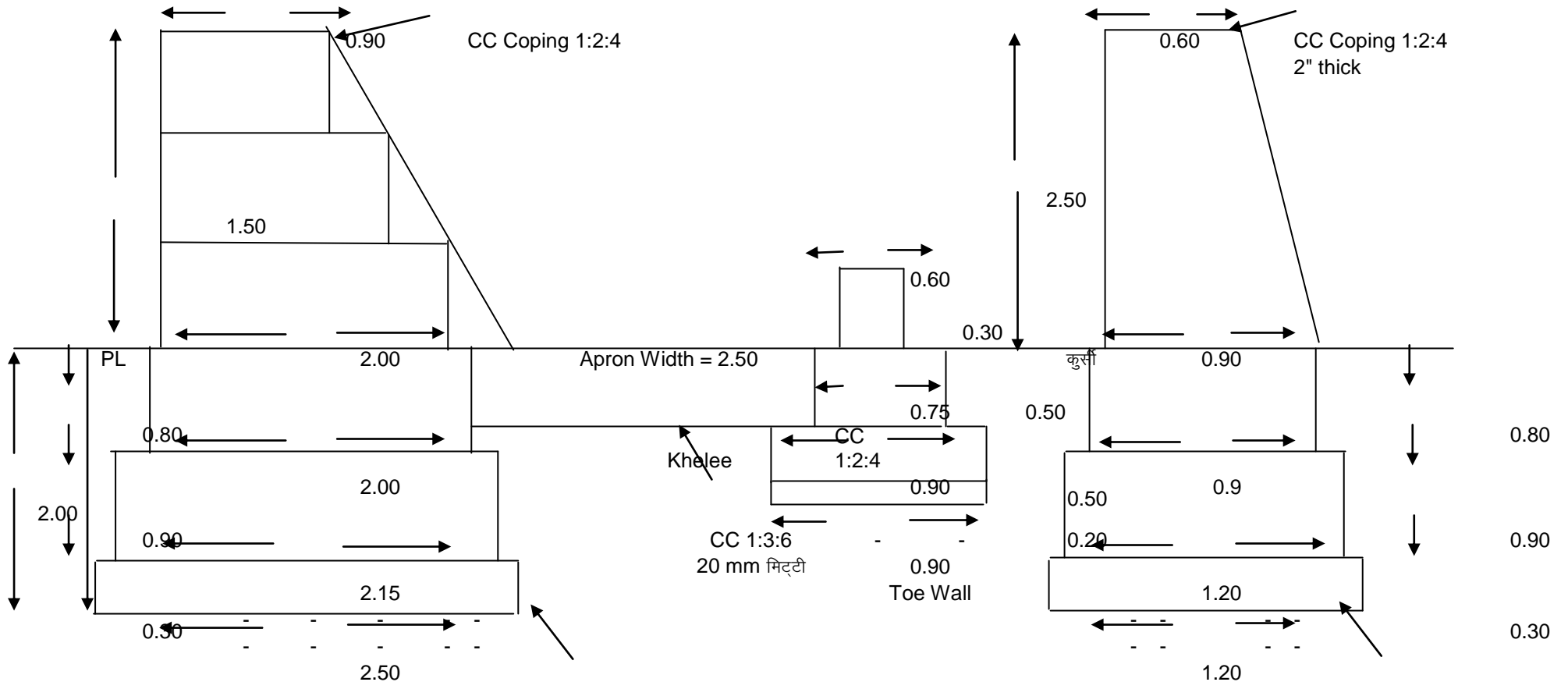


Construction of M.M.Structure  
Name of Watershed : IWMP-III, Dolatpura, P.S. TONK



# Construction of M.M. Structure

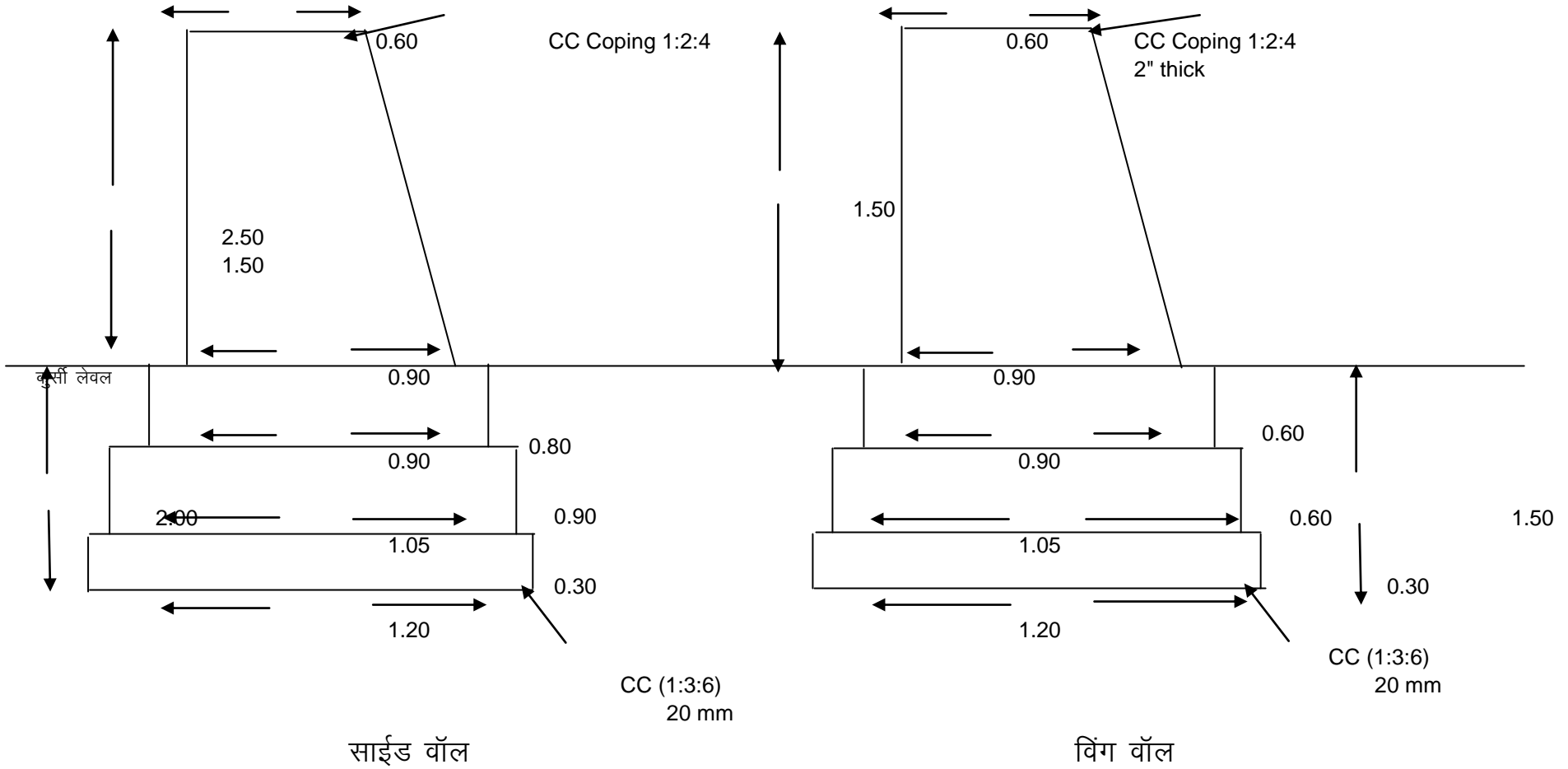
Name of W/S : IWMP-III, Dolatpura, P.S. TONK



HW  
(मुख्य दीवार) हेडवाल

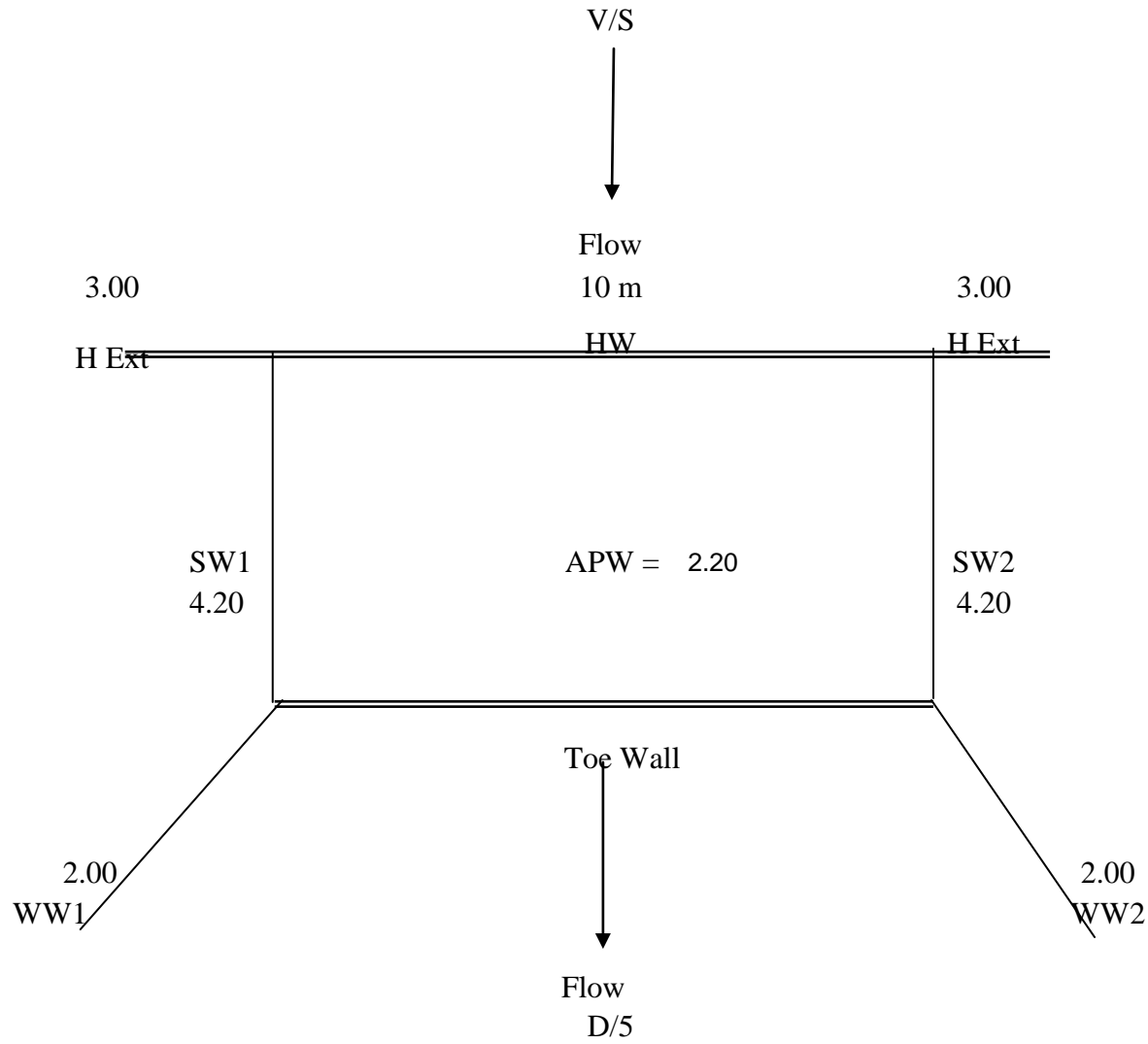
एक्स्टेंशन दीवार

**Construction of M.M. Structure**  
**Name of W/S : IWMP-III, Dolatpura, P.S. TONK**

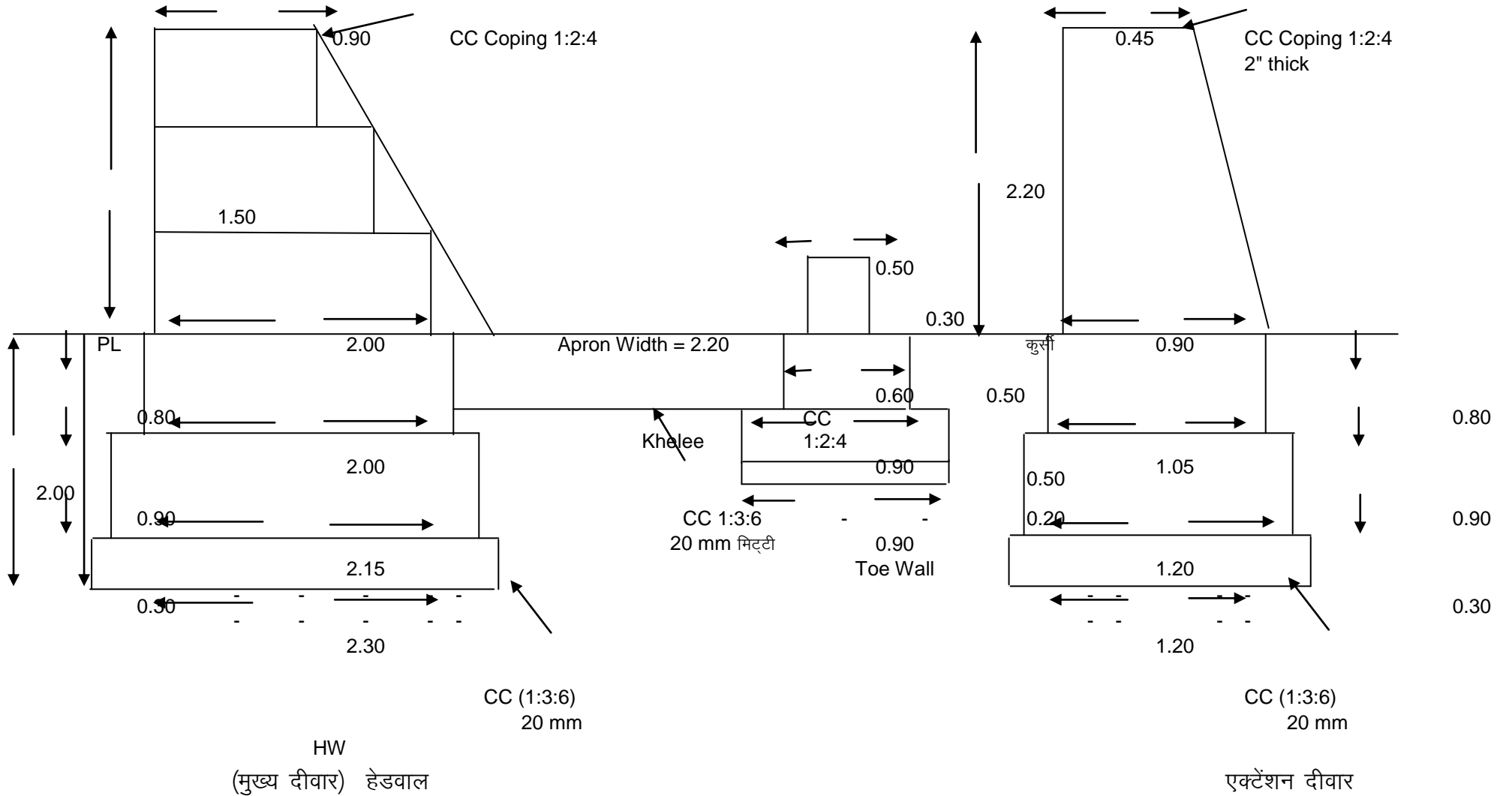


# Construction of M.M.Structure

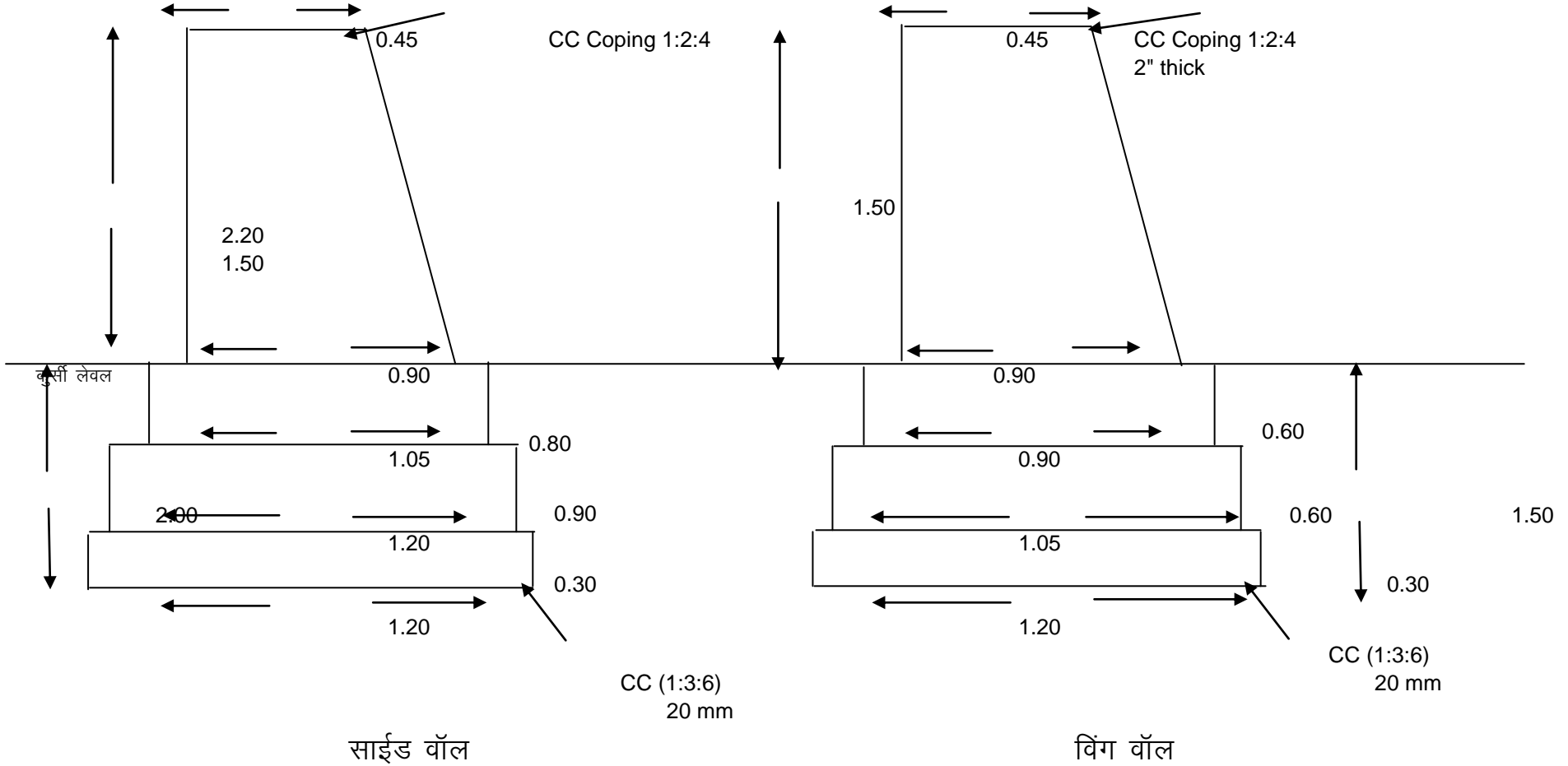
Name of Watershed : IWMP-III, Dolatpura, P.S. TONK



**Construction of M.M. Structure**  
**Name of W/S : IWMP-III, Dolatpura, P.S. TONK**



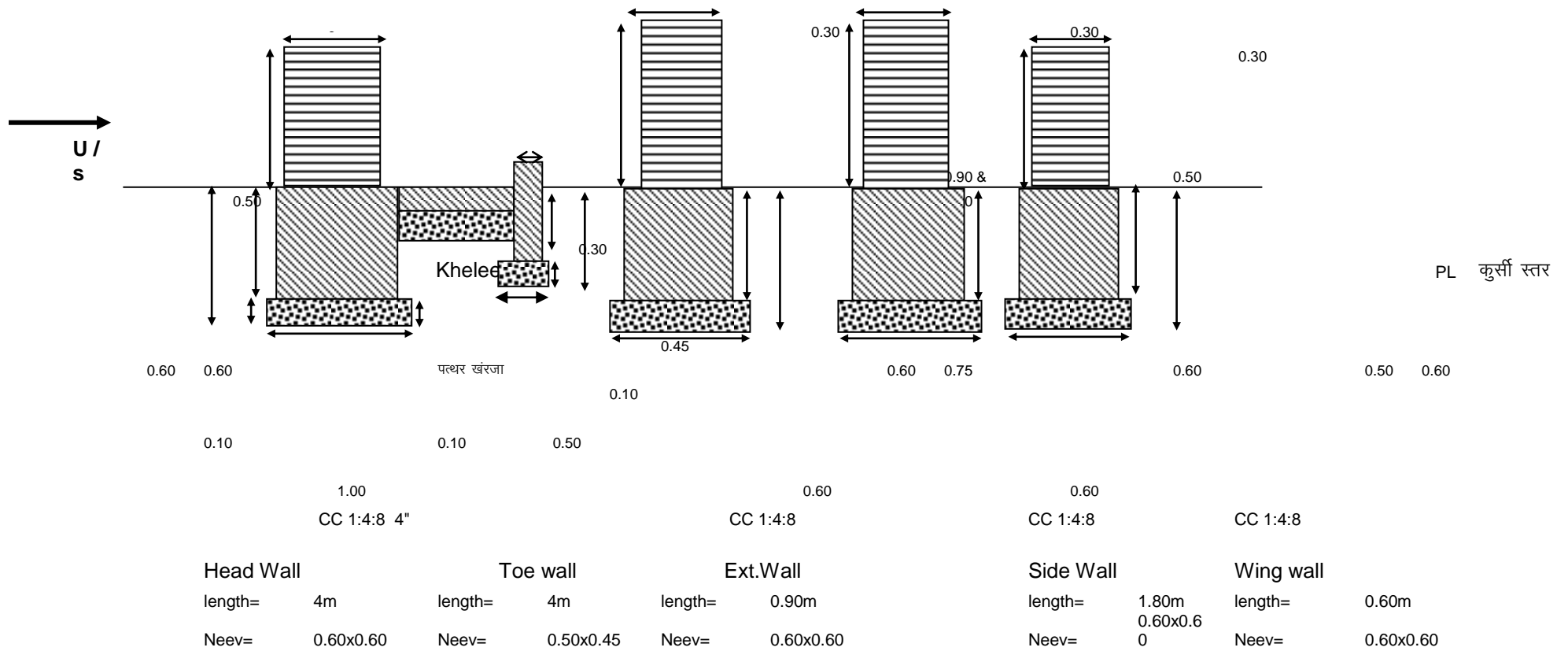
**Construction of M.M. Structure**  
**Name of W/S : IWMP-III, Dolatpura, P.S. TONK**





# DRAWING OF WASTE WEIR 4m length

Name of W/s : IWMP-III, Dolatpura, P.S. Tonk

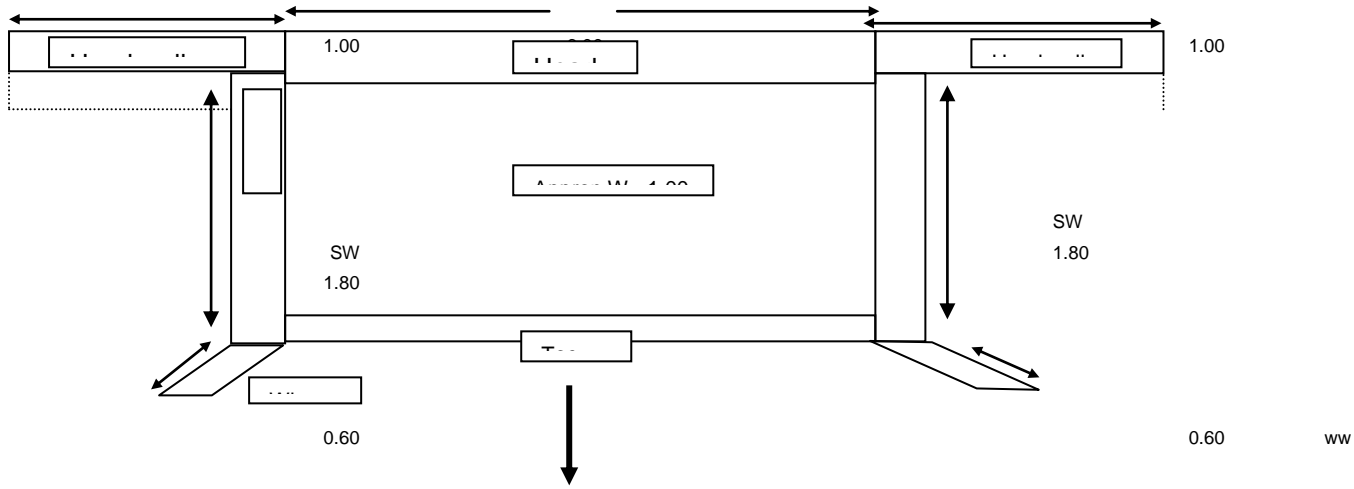


## X-Section

# DRAWING OF WASTE WEIR 6m length

Name of W/s : IWMP-III, Dolatpura, P.S. Tonk

U / 5

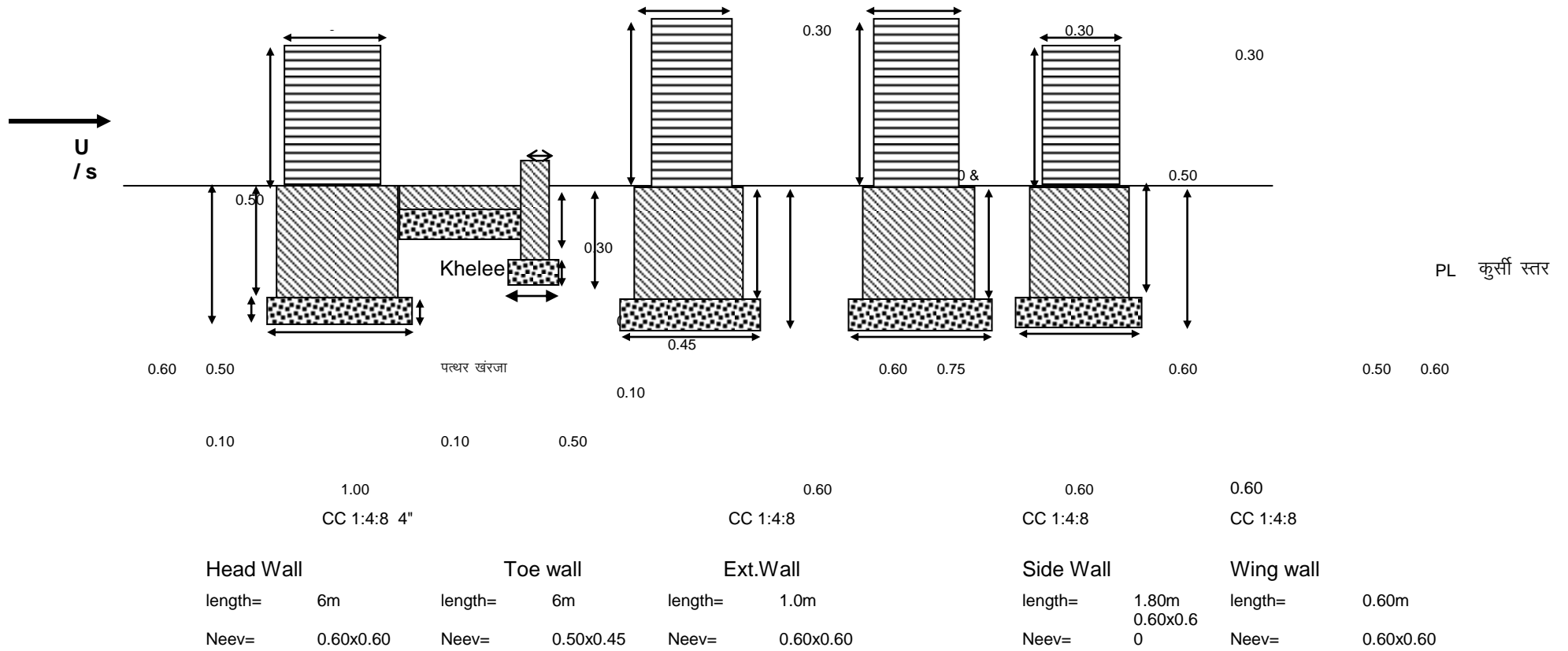


D/5

PLAN OF WASTE WEIR

# DRAWING OF WASTE WEIR 6m length

Name of W/s : IWMP-III, Dolatpura, P.S. Tonk



## X-Section

# कार्यालय ग्राम पंचायत, बगड़ी (विजयगढ़)

पंचायत समिति, टोंक 304001 (राज.)

क्रमांक: का.ग्रा.पं./बगड़ी/

दिनांक .....

श्रीमान् .....

ग्राम सभा दिनांक 11-5-2011

उत्तराव सेरवा 8

1. साधारण आभियन्ता I.W.M.P पंचायत समिति टोंक ने आपका करापा की बगड़ी ग्रामपंचायत में जल गृहण योजना स्वीकृत कर दी है। इस योजना में जल गृहण कैसे की जायेगी यह निर्णय ग्राम सभा करवाने का निर्णय लिया गया।
2. जल गृहण परियोजना के ली गई गारिगिधिया के क्षेत्र में पड़ कर सुनापा गया जिसमें मिट्टी के बन्ध-पहरी चादर जल गृहण लाने, कृषि भूमि में उत्पादन करके भूमिहीन के लिये आप वृद्धक करके लाने जाये है। 1.25 हेक्टर क्षेत्रफल में लाने जाये है। 135 लाख है करपा का ग्राम सभा में सर्वसम्मति से अनुमोदन लिया गया।



ग्राम सचिव

ग्राम पंचायत बगड़ी

पं. स. टोंक (राज.)

# कार्यालय ग्राम पंचायत, हाड़ीकलां

पंचायत समिति, टैंक 304001 (राज.)

क्रमांक: का.ग्रा.पं./हाड़ीकलां/

ग्राम सभा दिनांक 11-5-2001

प्र० सं. 8 - ग्राम पंचायत क्षेत्र में स्वी.

एकीकृत जल-गुहण परिपोजना प्रतिवेदन पर-चर्चा

जल गुहण विकास दल सदस्य श्री दिनेश कुमार नागरवाल ने सुवगत कराया कि ग्राम पंचायत हाड़ीकलां क्षेत्र में जल-गुहण परिपोजना की जल-गुहण समिति बनायी गई है। एवं परिपोजना रिपोर्ट तैयार करली गई है। 1230 है. क्षेत्रफल के लिए रु० 147-60 लाख स्वीकृत हुए है। सारकृत माहिती सर्व से प्राप्त रिपोर्ट एवं क्षेत्र की कच्चा पक्की-चादर निर्माण-चारागाह विकास कार्य जल गुहण दान्ये कृषि उत्पादन व वान व जल सारसंग के कार्य लिए जपे है। जिन्हें ग्राम सभा में पढ़कर सुनाया गया - एवं सर्व सहमति से परिपोजना रिपोर्ट को अनुमोदन से सर्व सहमति से किया गया।

स्वीकृत प्रति लिए

11/5/01  
 आशा राम मीणा  
 ग्राम सेवक एवं पदेन सचिव  
 ग्राम पंचायत, हाड़ीकलां

# कार्यालय ग्राम पंचायत, जौला

पंचायत समिति टोंक, तहसील पीपलू जिला टोंक (राज.)

प्रेषक -  
सरपंच  
श्रीमती प्रवीण देवी

प्रेषित -  
श्रीयुक्त सहायक अभियन्ता  
B.W.M.P. (ग्रंसेरखन विभाग)  
प.स. टोंक

क्रमांक :- कां. शा. प. / जौला / 128

दिनांक :- 5/7/2011

ग्रामसभा दि: 11-5-2011  
 पुरोसो . ग्राम पंचायत जौला में स्वीकृत जल शुद्धा परिपोजना -  
 अनुकोष पर चर्चा।  
 ग्राम पंचायत जौला के ग्राम दुसरी, दोलतपुरा एवं जौला में  
 जल शुद्धा परिपोजना स्वीकार की गई है। इस योजना में साईट की  
 आवश्यकता एवं लागतों की जरूरत के अनुसार लिये गये  
 कार्यों के बारे में ग्राम सभा में चर्चा की गई। इस योजना  
 में जौला डेज के 1940 हेक्टेयर में 232.80 लाख रुपये के  
 विभिन्न मदी के कार्यों की आवश्यकता कृषि विभाग की सदस्य श्री  
 दिनेश जागरवाल ने की। कार्यों में शक्ति व जल संरक्षण के  
 मिडि के बंध, पादरनिर्माण, चरागाह विकास, जल संग्रहण टांचे,  
 फलदार पौधा रोपण, ड्रिप सिस्टम, कृषि फसल प्रदर्शन व उसर ग्राभ  
 संधार एवं लघु उद्योग संबन्धी कार्य लिये गये। ग्राम सभा ने  
 ग्राम वास्तियों के हितार्थ परिपोजना रिपोर्ट में लिये गये कार्यों  
 का सर्व सम्मति से अनुकोष किया।

श्रीमती प्रवीण देवी  
 सरपंच  
 ग्राम पंचायत जौला  
 प.स. टोंक

# कार्यालय ग्राम पंचायत नाथडी

पंचायत समिति टोंक जिला टोंक (राज.)


क्रमांक

दिनांक .....

प्रस्ताव नकल

ग्राम सभा दिनांक 10/3/2011 प्रस्ताव संख्या 20

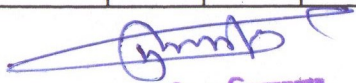
प्रस्ताव संख्या :- नाथडी पंचायत में स्वीकृत जल ग्रहण  
परियोजना में विर गये कार्यो को ग्राम सभा में पक्कर  
सुनाया गया एवं डी. पी. आर. का अनुमोदन किया गया।

  
साचिव  
ग्राम पंच नाथडी


**CHAPTER - V (IWMP-III) P.S. TONK**  
**ANNUAL ACTION PLAN (Through Project Fund)**

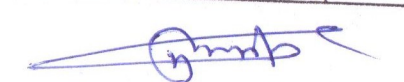
Preparatory phase activities capacity building trainings & EPA (Area-5342, Total cost-641.04)

(A)																						
Activity	Unit	Quantity	Unit Cost Rs.	Total cost lacs	1st year		2nd year		3rd year		4th year		5th year		6th year		7th year		Total Rs. in lacs			
					Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
Admn. 10%				64.10		16.02		16.02		16.02		8.02		8.02						64.10		
Monitoring 1%				6.41		1.28		1.28		1.28		1.28		1.29						6.41		
Evaluation 1%				6.41								3.40		3.01						6.41		
EPA 4%				25.64		25.64														25.64		
I & CB 5%				32.06		2.02		15.00		15.04										32.06		
DPR 1%				6.41		6.41														6.41		
<b>Total (A)</b>				<b>141.03</b>		<b>51.37</b>		<b>32.30</b>		<b>32.34</b>		<b>12.70</b>		<b>12.32</b>						<b>141.03</b>		
(B)																						
<b>Natural resource management(60%) 384.62</b>																						
<b>Conservation measures for arable land</b>																						
Earthen Bund 0.84m <sup>2</sup>	Rmt	92.08 Km	75/-	69.06					42.08	31.56	25	18.75	24.5	18.75						92.1	69.06	
Earthen Bund 1.40m <sup>2</sup>	Rmt	25.891 Km	118/-	30.55					13.65	16.10	7.25	8.55	5	5.90						25.89	30.55	
Earthen Stru.	Rmt	43No	40000/-	17.20					23	9.20	10	4.00	10	4.00						43	17.20	
Wasteweir 4m	No	510No	19000/-	96.90					238	45.22	145	27.55	127	24.13						510	96.90	
Wasteweir 6m	No	202No	25000/-	50.50					92	23.00	55	13.75	55	13.75						202	50.50	
<b>Conservation measures for non arable land</b>																						
Pasture Development	Ha	50Ha	31500/-	15.75					30	9.45	20	6.30								50	15.75	
V - dich/ XB Plantation over reads																						
Water Harvesting Structure																						
Afforestation																						
Drainage line treatment																						
MMS I 10M	No	3No	2.93	8.79					3	8.79	0	0.00	0	0						3	8.79	
II 15m	No	7No	4.24	29.68					2	8.48	5	21.20	0	0						7	29.68	
III 20m	No	2No	5.42	10.84					0	0.00	0	0.00	2	10.84						2	10.84	
IV 30m	No	2No	6.55	13.10					0	0.00	0	0.00	2	13.10						1	13.10	
V 30m	No	1No	9.79	9.79					0	0.00	0	0.00	1	9.79						1	9.79	
VI 45m	No	3No	10.82	32.46					0	0.00	0	0.00	3	32.46						3	32.46	
LSCD																						

  
**अधिसाधी अभियन्ता**  
 (भू-संसाधन)  
 जिला परिषद (ग्र.वि.प्र.)  
 टोंक

pPreparatory phase activities capacity building trainings & EPA (Area-5342, Total cost-641.04)																						
Activity	Unit	Quantity	Unit Cost Rs.	Total cost lacs	1st year		2nd year		3rd year		4th year		5th year		6th year		7th year		Total Rs. in lacs			
					Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin	Phy	Fin
WHS																						
Gully Plugs(ECD)																						
Ground water recharge Structure																						
<b>Total (B)</b>				<b>384.62</b>						<b>151.80</b>		<b>100.10</b>		<b>132.72</b>								
<b>(C)</b>																				<b>384.62</b>		
<b>Production System and micro enterprise(15%) 96.15</b>																						
<b>Production measures for arable land</b>																						
Horticulture plantation	No	7500	110/-	8.25					2500	2.75	3000	3.30	2000	2.2						7500	8.25	
Sprinklers	No	81	12000 to 21000	13.41					22	3.63	30	4.95	29	4.82							81	13.41
Drip irrigation	No	40	21000 to 34000	11.00					10	2.75	14	3.85	16	4.4							40	11.00
Vermi compost	No	190	1000	1.90					40	0.40	75	0.75	75	0.75							190	1.90
Crop Demonstration	No	1780	500 to 1500	18.20					900	6.50	750	9.75	130	1.95							1780	18.20
Fodder demonstration	No	484	1000 to 1500	5.09					50	0.50	242	2.42	192	2.17							484	5.09
Compost pit	No	255	1000	2.55					110	1.10	95	0.95	50	0.50							255	2.55
<b>MICRO ENTERPRENUERSHIP</b>																						
Land development	No	40	6900	2.76								17	1.16	23	1.6							2.76
House Hold Act / Revolving Fund To SHG & livestock Etc		33No	1.00	33.00					10	10.00	12	12.00	11	11.00								33.00
<b>Total (C)</b>				<b>96.16</b>																		
(D)Consolidation 3%				19.23																		
<b>Grand Total % Targets</b>				<b>641.04</b>																		

  
 सहायक-अभियन्ता,  
 पी.जाई.ए. WMP III  
 पं.स. टोंक

  
 अधिशाषी अभियन्ता  
 (भू-संसाधन)  
 जिला-परिषद (ग्र.वि.प्र.)  
 टोंक