



**PUBLIC WORKS DEPARTMENT  
WATER RESOURCES ORGANISATION**

IAMWARM PROJECT

**SWETHA NADHI SUB BASIN**

DETAILED PROJECT REPORT

ADDITIONAL PROPOSALS FOR REHABILITATION  
WORKS IN RESPECT OF SWETHA NADHI SUB BASIN

**DPR ESTIMATE Rs. 95.60 LAKHS**

TRICHY REGION, TRICHY.  
UPPER CAUVERY BASIN CIRCLE, SALEM.  
SARABANGA BASIN DIVISION, NAMAKKAL.

**Additional proposals for providing Lining of Irrigation Channel and Flow Measuring Device in Swetha Nadhi Sub Basin (Phase II) under IAMWARM Project**

The lining of irrigation channel and installation of measuring device has been proposed for Phase I and II sub basins by utilizing the Project Savings as discussed with the World Bank, during the implementation support mission from Sept 12-20th 2011.

Accordingly in the Swetha Nadhi sub basin of Phase I the following works have been proposed ,

- i) Lining of irrigation channel below the tanks sluice using CC. M 15 as per sketch enclosed
- ii) Installing flow measuring device in the irrigation channel as per sketch
- iii) L.S provision of 2.8 % for Provision of labour welfare @ 0.30 % and provision for contingencies, advertisement charges , photographic charges @ 2.5%

The package details are appended separately and works are proposed to be taken up under national shopping procedure

The total cost for the DPR works out to Rs.95.60 lakhs

(Nodal officer) / Executive Engineer, WRD, Sarabanga Basin Subdivision, Namakkal.	Superintending Engineer,WRD, Uper Cauvery Basin Circle, Salem.	Chief Engineer, WRD, Trichy Region Trichy.
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**FORMAT- I**

Name of Region  
 Name of Circle  
 Name of Division  
 Name of Sub Basin

Trichy.  
 Uper Cauvery Basin Circle,Trichy.  
 Sarabanga Basin Subdivision, Namakkal.  
 Swetha Nadhi

Total Number of Tanks taken up under IAMWARM :

18

**NO OF TANKS, SLUICES IN EACH PACKAGE**

**TOTAL NO OF TANKS TAKEN UNDER IAMWARM : 18 Nos**

S.I.No	PACKAGE NO	Name of Tank / Anicut / Reservoir	No of Sluices	Flow Measuring Device		Lining the field channel			Total Amount Rs.	L.S. Provision @2.80%	Grand Total Rs	Remarks
				No	Amount	Type of soil BC / OS*	Length (m)	Amount				
1 i	1	Sentharapatty Tank	5	5	50000.00	BC	140	744800.00	794800.00			
		Jangamma Samudram Anicut		-	0.00	OS	35	148800.00	148800.00			
		<b>Total</b>	<b>5</b>	<b>5</b>	<b>50000.00</b>		<b>175</b>	<b>893600.00</b>	<b>943600.00</b>	<b>26400.00</b>	<b>970000.00</b>	
2 ii iii iv	2	Kodayampalli Tank	2	2	20000.00	BC	56	299100.00	319100.00			
		Ulipuram pudur odai Anicut	0	-	0.00	OS	37	148800.00	148800.00			
		Kotti pallathur Anicut	0	-	0.00	OS	36	148800.00	148800.00			
		Narai kinathu odai mel & keel Anicut	0	-	0.00	OS	56	297700.00	297700.00			
		<b>Total</b>	<b>2</b>	<b>2</b>	<b>20000.00</b>		<b>185</b>	<b>894400.00</b>	<b>914400.00</b>	<b>25600.00</b>	<b>940000.00</b>	
3 v	3	Gudamalai Tank	2	2	20000.00	BC	56	298200.00	318200.00			
		Gudamalai Kallar Anicut	0	-	0.00	OS	34	148800.00	148800.00			
		<b>Total</b>	<b>2</b>	<b>2</b>	<b>20000.00</b>		<b>90</b>	<b>447000.00</b>	<b>467000.00</b>	<b>13000.00</b>	<b>480000.00</b>	
4 vi	4	Anaiyampatti Ponneri	3	3	30000.00	BC	84	444900.00	474900.00			
		Kadambur Musavar Anicut		-	0.00	OS	37	148800.00	148800.00			

vii		Kanavoi Anicut		-	0.00	OS	37	148800.00	148800.00		
viii		Karadi Odai Anicut		-	0.00	OS	36	148800.00	148800.00		
ix		Anayampatti Kattu Odai Anicut		-	0.00	OS	36	148800.00	148800.00		
		<b>Total</b>	<b>3</b>	<b>3</b>	<b>30000.00</b>		<b>230</b>	<b>1040100.00</b>	<b>1070100.00</b>	<b>29900.00</b>	<b>1100000.00</b>
<b>5</b>	<b>5</b>	Thidavur Tank	5	5	50000.00	BC	140	747700.00	797700.00		
		<b>Total</b>	<b>5</b>	<b>5</b>	<b>50000.00</b>		<b>140</b>	<b>747700.00</b>	<b>797700.00</b>	<b>22300.00</b>	<b>820000.00</b>
<b>6</b>	<b>6</b>	Naduvalur Tank	3	3	30000.00	BC	90	456400.00	486400.00		
		<b>Total</b>	<b>3</b>	<b>3</b>	<b>30000.00</b>		<b>90</b>	<b>456400.00</b>	<b>486400.00</b>	<b>13600.00</b>	<b>500000.00</b>
<b>7</b>	<b>7</b>	Sathapady Tank	2	2	20000.00	BC	58	301600.00	321600.00		
<b>8</b>		Punavasal Tank	2	2	20000.00	BC	58	300700.00	320700.00		
<b>9</b>		Navalur Tank	3	3	30000.00	BC	84	446400.00	476400.00		
		<b>Total</b>	<b>7</b>	<b>7</b>	<b>70000.00</b>		<b>200</b>	<b>1048700.00</b>	<b>1118700.00</b>	<b>31300.00</b>	<b>1150000.00</b>
<b>10</b>	<b>8</b>	Veeraganur Tank	6	6	60000.00	BC	168	892800.00	952800.00		
<b>11</b>		Chokkanur Tank	1	1	10000.00	OS	42	155900.00	165900.00		
		<b>Total</b>	<b>7</b>	<b>7</b>	<b>70000.00</b>		<b>210</b>	<b>1048700.00</b>	<b>1118700.00</b>	<b>31300.00</b>	<b>1150000.00</b>
<b>12</b>	<b>9</b>	Ladduvadi Tank	4	4	40000.00	BC	110	592300.00	632300.00		
		<b>Total</b>	<b>4</b>	<b>4</b>	<b>40000.00</b>		<b>110</b>	<b>592300.00</b>	<b>632300.00</b>	<b>17700.00</b>	<b>650000.00</b>
<b>13</b>	<b>10</b>	Venganur Tank	1	1	10000.00	BC	27	148800.00	158800.00		
<b>14</b>		Arumbavur big Tank	3	3	30000.00	BC	82	447000.00	477000.00		
<b>15</b>		Nuthapur Tank	2	2	20000.00	OS	76	297600.00	317600.00		
		<b>Total</b>	<b>6</b>	<b>6</b>	<b>60000.00</b>		<b>185</b>	<b>893400.00</b>	<b>953400.00</b>	<b>26600.00</b>	<b>980000.00</b>
<b>16</b>	<b>11</b>	Vengalam big Tank	3	3	30000.00	BC	84	450100.00	480100.00		
<b>17</b>		Thondamandurai Tank	2	2	20000.00	BC	56	297600.00	317600.00		
		<b>Total</b>	<b>5</b>	<b>5</b>	<b>50000.00</b>		<b>140</b>	<b>747700.00</b>	<b>797700.00</b>	<b>22300.00</b>	<b>820000.00</b>

	<b>TOTAL FOR SWETHA NADHI SUBBASIN</b>	<b>49</b>	<b>49</b>	<b>490000.0</b> <b>0</b>		<b>1755</b>	<b>8810000.0</b> <b>0</b>	<b>9300000.0</b> <b>0</b>	<b>260000.0</b> <b>0</b>	<b>9560000.0</b> <b>0</b>	
									<b>OR</b>	<b>95.60</b>	<b>L A K H S</b>
	<b>Certified that the Tanks included in the originally approved in SWETHA NADHI SUBBASIN DPR alone are considered now.</b>										
	<b>Certified that the above works have not been taken up in any other Project.</b>										
	<b>Certified that the field / Irrigation channel drawing type I is adopted in 2 number of tanks and 9 number of anicuts having soil other than black cotton soil.</b>										
	<b>Certified that the field / Irrigation channel drawing type II is adopted in 15 number of tanks having black cotton soil.</b>										
		(Nodal officer) / Executive Engineer, WRD,					Superintending Engineer,WRD,			Chief Engineer, WRD,	
		Sarabanga Basin Subdivision,					Uper Cauvery Basin Circle,			Trichy Region	
		Namakkal.					Salem.			Trichy.	

## FORMAT II

Name of Region **Trichy.**  
 Name of Circle **Uper Cauvery Basin Circle,Trichy.**  
 Name of Division **Sarabanga Basin Subdivision, Namakkal.**  
 Name of Sub Basin **Swetha Nadhi**  
 Total Number of Tanks taken up under IAMWARM : **18**  
 Method of procurement : **National shopping**  
 ( Note : Procurement plan to be got approved by World Bank separately )

### PACKAGEWISE ABSTRACT

Sl.No	Package No.	Name of Work	No. of Tanks	No. of Anicuts	Flow Measuring Device (NO's)	Length of lining (m)	Total Amount including L.S. (Rs. In Lakhs)	Remarks
1	2	3	4		5	6	7	8
1	AP_1/ IAMWARM/ WRD/ SWN/ WORKS/ II / 2011-2012	Lining in head Irrigation Channel and providing Flow Measuring devices for Sentharpatty Tank and Jangamma Samudram Anicut in Swetha Nadhi Sub basin in Salem District	1	1	5	175	9.70	
2	AP_2/ IAMWARM/ WRD/ SWN/ WORKS/ II / 2011-2012	Lining in head Irrigation Channel and providing Flow Measuring devices for Kondayampalli Tank, Ulipuram pudur odai Anicut, Kotti pallathur Anicut and Narai kinathu odai mel & keel Anicut in Swetha Nadhi Sub basin in Salem District	1	3	2	185	9.40	
3	AP_3/ IAMWARM/ WRD/ SWN/ WORKS/ II / 2011-2012	Lining in head Irrigation Channel and providing Flow Measuring devices for Gudamalai Tank and Gudamalai Kallar Anicut in Swetha Nadhi Sub basin in Salem District	1	1	2	90	4.80	

4	AP_4/ SWN/ IAMWARM/ WORKS/ II / WRD/ 2011- 2012	Lining in head Irrigation Channel and providing Flow Measuring devices for Anaiyampatti Ponneri tank, Kadambur Musavar Anicut, Kanavoi Anicut, Karadi Odai Anicut, Anayampatti Kattu Odai Anicut in Swetha Nadhi Sub basin in Salem District	1	4	3	230	11.00	
5	AP_5/ SWN/ IAMWARM/ WORKS/ II / WRD/ 2011- 2012	Lining in head Irrigation Channel and providing Flow Measuring devices for Thidavur Tank in Swetha Nadhi Sub basin in Salem District	1	0	5	140	8.20	
6	AP_6/ SWN/ IAMWARM/ WORKS/ II / WRD/ 2011- 2012	Lining in head Irrigation Channel and providing Flow Measuring devices for Naduvalur Tank in Swetha Nadhi Sub basin in Salem District	1	0	3	90	5.00	
7	AP_7/ SWN/ IAMWARM/ WORKS/ II / WRD/ 2011- 2012	Lining in head Irrigation Channel and providing Flow Measuring devices for Sathapady Tank, Punavasal Tank, Navalur Tank in Swetha Nadhi Sub basin in Salem District	3	0	7	200	11.50	
8	AP_8/ SWN/ IAMWARM/ WORKS/ II / WRD/ 2011- 2012	Lining in head Irrigation Channel and providing Flow Measuring devices for Veeraganur Tank and Chokkanur Tank in Swetha Nadhi Sub basin in Salem District	2	0	7	210	11.50	
9	AP_9/ SWN/ IAMWARM/ WORKS/ II / WRD/ 2011- 2012	Lining in head Irrigation Channel and providing Flow Measuring devices for Ladduvadi Tank in Swetha Nadhi Sub basin in Salem District	1	0	4	110	6.50	
10	AP_10/ SWN/ IAMWARM/ WORKS/ II / WRD/ 2011- 2012	Lining in head Irrigation Channel and providing Flow Measuring devices for Venganur Tank, Arumbavur big Tank and Nuthapur Tank in Swetha Nadhi Sub basin in Perambalur District	3	0	6	185	9.80	

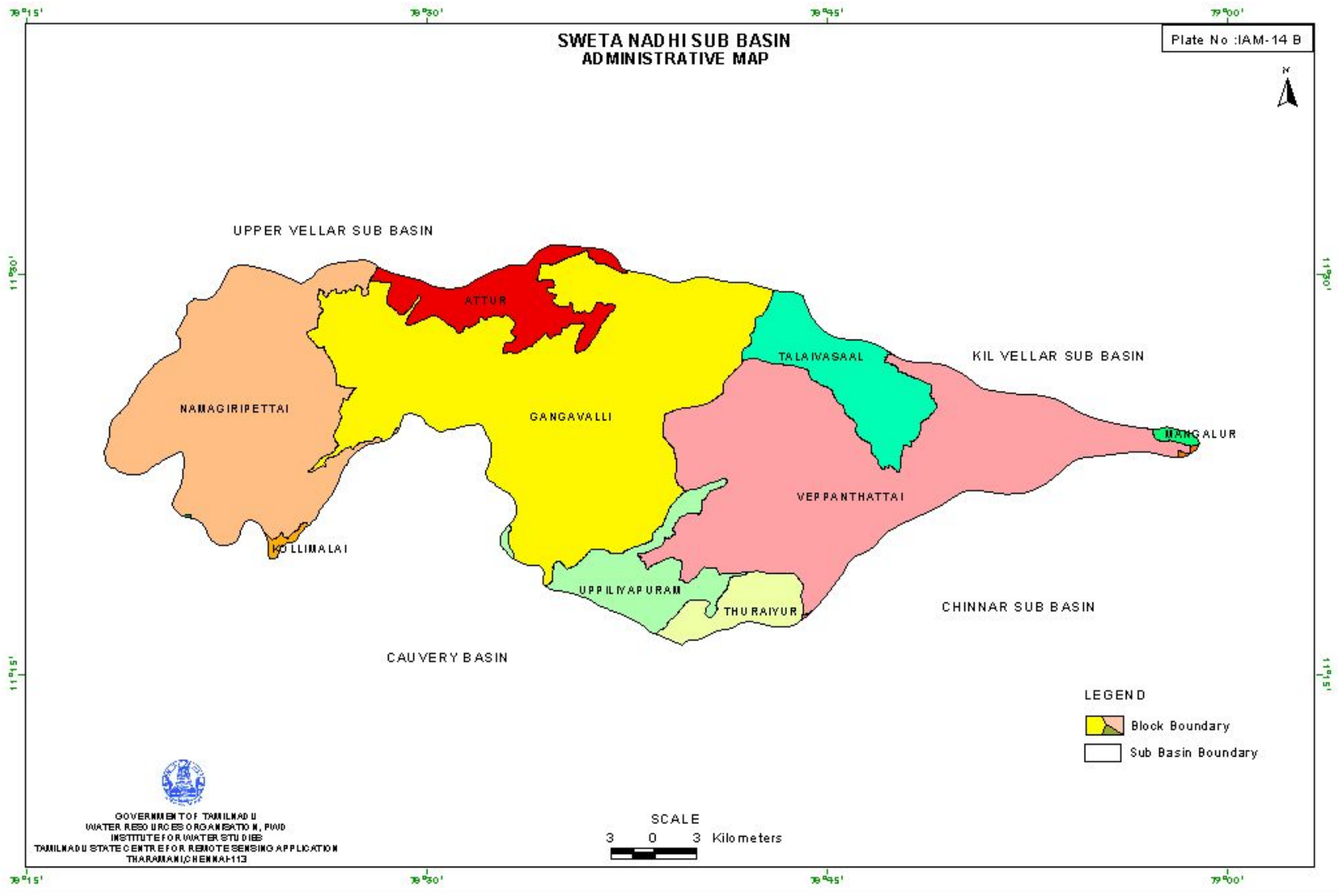
11	AP_11/ IAMWARM/ WRD/ SWN/ WORKS/ II / 2011- 2012	Lining in head Irrigation Channel and providing Flow Measuring devices for Vengalam big Tank and Thondamandurai Tank in Swetha Nadhi Sub basin in Perambalur District	2	0	5	140	8.20
<b>TOTAL</b>			<b>17</b>	<b>9</b>	<b>49</b>	<b>1755</b>	<b>95.60</b>

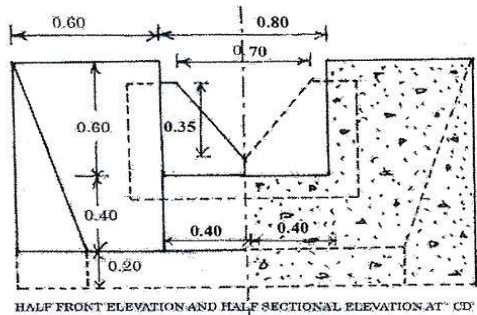
Executive Engineer, WRD,  
Sarabanga Basin Subdivision,  
Namakkal.

Superintending Engineer,WRD,  
Uper Cauvery Basin Circle,  
Salem.

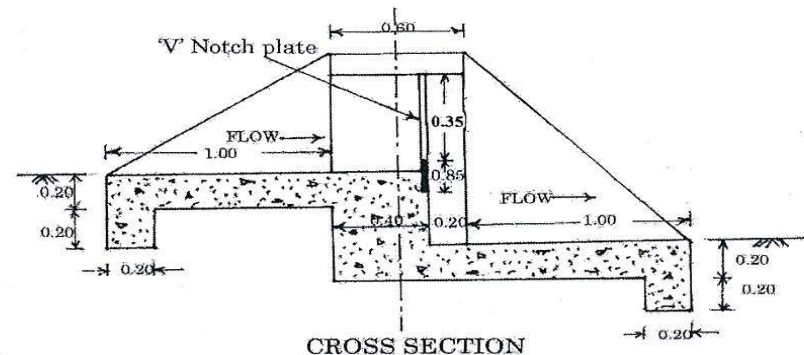
Chief Engineer,  
WRD,  
Trichy Region  
Trichy.



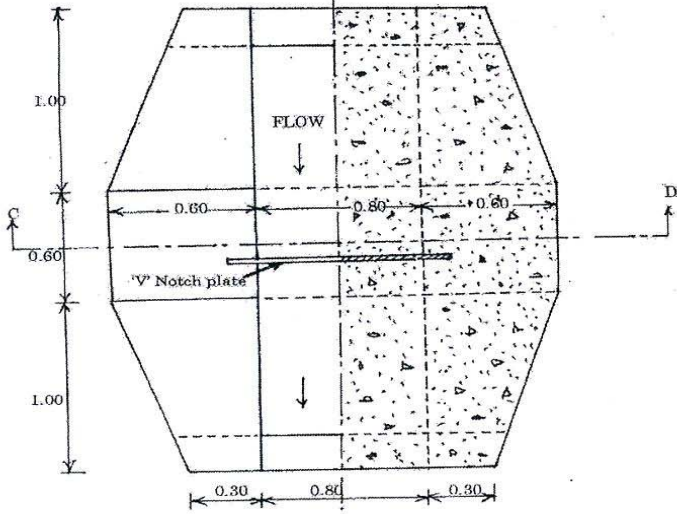




HALF FRONT ELEVATION AND HALF SECTIONAL ELEVATION AT CD



CROSS SECTION



HALF PLAN AT TOP AND HALF PLAN AT BOTTOM

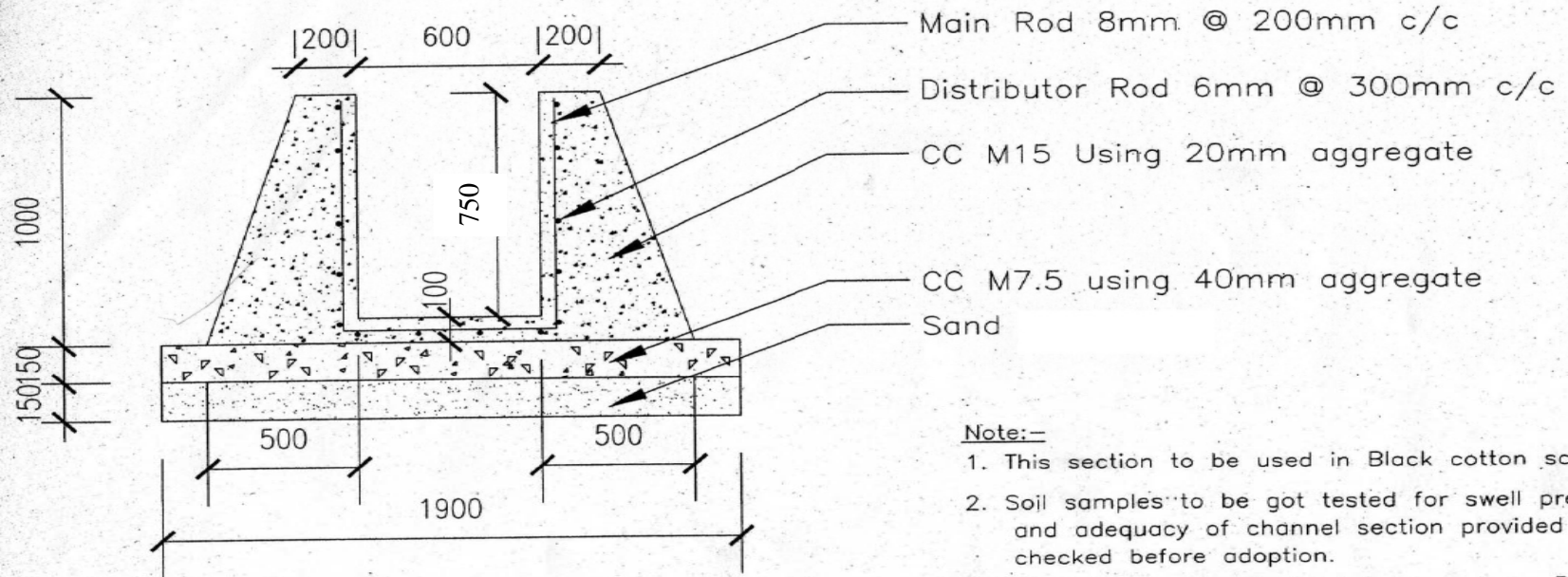
TYPE - C  
3 CUSEC V-NOTCH

V-NOTCH - SALIENT DETAILS (For 1 to 4 C/s)

Discharge		Head Over Crest Cm	V Notch size Cm	Overall size Cm
Cusec	Litre / sec			
1	28.3	20.5	25 x 50	50 x 85
2	56.6	27	30 x 60	50 x 75
3	85	32	35 x 70	55 x 90
4	113.27	36	42 x 84	60 x 100

TYPICAL SKTECH FOR  
PROVIDING MEASURING DEVICE  
IN THE SLUICES FOR  
SWETHANADHI SUB BASIN  
Scale: 1cm=0.25m  
All dimensions are in metre

LINING OF IRRIGATION CHANNEL  
TYPICAL CROSS SECTION  
FOR BLACK COTTON SOIL



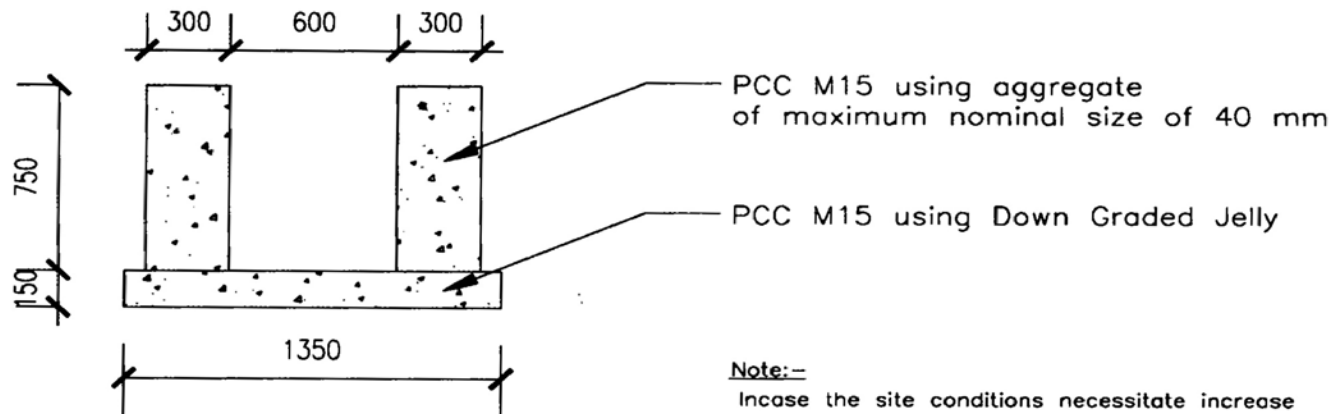
Note:-

1. This section to be used in Black cotton soil.
2. Soil samples to be got tested for swell pressure and adequacy of channel section provided to be checked before adoption.
3. Nominal cover to steel reinforcements = 30 mm

**IAMWARM PROJECT**  
**SWETHANADHI SUB BASIN**  
**IRRIGATION CHANNEL LINING**

Scale:1:1000  
 All dimensions are in mm

## TYPICAL CROSS SECTION OF LINED IRRIGATION CHANNEL



Note:-

Incase the site conditions necessitate increase the Channel section requisite modifications be made there-in duly ensuring the stability section

All Dimensions are in mm

