



GOVERNMENT OF TAMILNADU

PUBLIC WORKS DEPARTMENT

WATER RESOURCES ORGANISATION

TN IAMWARM PROJECT

ARJUNANADHI SUB BASIN

ADDITIONAL PROPOSAL DPR

MADURAI REGION.

Introduction Report

Additional proposals for providing Lining of Head Irrigation Channel and Flow Measuring Device in Arjunanadhi sub basin under IAMWARM Project

The lining of Head 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 Arjunanadhi sub basin of Phase the following works have been proposed.

1. Lining of Head irrigation channel below the tanks sluice using c.c. M 15 as per sketch enclosed
2. Installing flow measuring device in the irrigation channel as per sketch
3. 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.405.00 lakhs**

Executive Engineer, PWD/WRD
Upper Vaippar Basin Division
Rajapalayam

Superintending Engineer, PWD/WRD
Vaippar Basin Circle
Virudhunagar

Chief Engineer, PWD/WRD
Madurai Region, Madurai

Encl No. : 2

FORMAT- I

Name of Region Madurai
 Name of Circle Vaippar Basin Circle, Virudhunagar
 Name of Division **Upper Vaippar Basin Division, Rajapalayam**
 Name of Sub Basin Arjunanadhi
 Total Number of Tanks taken up under IAMWARM : 76

SI No	Package No	Name of Tank	NO OF TANKS, SLUICES IN EACH PACKAGE						Total Amount in Lakhs	L.S. Provision @2.80%	Grand Total	Remarks
			No of Sluice	Flow Measuring Device		Lining the Field channel						
				No	Amount	Type of soil BC / OS*	Length in Metre	Amount in Lakhs				
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Package-1	Kodikulam tank	3	3	0.36	BC	90	4.50	4.86			
		Gunavanthaneri Tank	0	0	0	BC	0	0.00	0			
		Pethankulam Tank	2	2	0.24	BC	60	3.00	3.24			
		Koonikulam Tank	1	1	0.12	BC	50	2.50	2.62			
									10.72	0.30	11.02	
2	Package-1	Pungankulam Tank	3	3	0.36	BC	90	4.50	4.86			
		Sivaneri tank	3	3	0.36	BC	120	6.00	6.36			
									11.22	0.31	11.53	
3	Package-1	Pooriparaikulam Tank	3	3	0.36	BC	90	4.50	4.86			
		Thamaraikulam Tank	2	2	0.24	BC	60	3.00	3.24			
									8.1	0.23	8.33	
4	Package-1	Watrap Big Tank	4	8	0.96	BC	200	10.00	10.96			
									10.96	0.31	11.27	
5	Package-1	Viragasamuthiram Tank	4	8	0.96	BC	200	10.00	10.96			
									10.96	0.31	11.27	
6	Package-1	Kuppankulam Tank	2	2	0.24	BC	60	3.00	3.24			
		Patharankulam Tank	2	2	0.24	BC	60	3.00	3.24			
	Package-2	Sattampadi	3	3	0.36	BC	90	4.50	4.86			
									11.34	0.32	11.66	
7	Package-2	Kosavankulam	2	2	0.24	BC	60	3.00	3.24			
		Alankulam	2	2	0.24	BC	100	5.00	5.24			
									8.48	0.24	8.72	
8	Package-2	Medankulam	3	3	0.36	BC	90	4.50	4.86			

		Pannikulam	1	1	0.12	BC	30	1.50	1.62				
		Sundarapandiam Periyakulam	2	2	0.24	BC	80	4.00	4.24				
									10.72	0.30	11.02		
			NO OF TANKS, SLUICES IN EACH PACKAGE								Rs. in Lakhs		
SI No	Package No	Name of Tank	No of Sluice	Flow Measuring Device		Lining the Field channel			Total Amount in Lakhs	L.S. Provision @2.80%	Grand Total	Remarks	
				No	Amount	Type of soil BC / OS*	Length in Metre	Amount in Lakhs					
9	Package-2	Vilvarayankulam	4	4	0.48	BC	120	6.0	6.48				
		Madavarayankulam	2	2	0.24	BC	60	3.0	3.24				
									9.72	0.27	9.99		
10	Package-2	Panikkankulam	2	2	0.24	BC	60	3.0	3.24				
		Anuppankulam	4	4	0.48	BC	120	6.0	6.48				
									9.72	0.27	9.99		
11	Package-2	Unjankulam	3	3	0.36	BC	90	4.5	4.86				
		Senkulam	3	3	0.36	BC	120	6.0	6.36				
									11.22	0.31	11.53		
12	Package-2	Vennikondankulam	3	3	0.36	BC	120	6.0	6.36				
		Senkulam	1	1	0.12	BC	40	2.0	2.12				
		Nangurkulam	1	1	0.12	BC	30	1.5	1.62				
									10.1	0.28	10.38		
13	Package-2	Nathampatti Periya kulam	3	6	0.72	BC	210	10.5	11.22				
									11.22	0.31	11.53		
14	Package-2	Kovenerikulam	2	2	0.24	BC	90	4.5	4.74				
		Thondamankulam	3	3	0.36	BC	90	4.5	4.86				
		Kondhavarayankulam	1	1	0.12	BC	30	1.5	1.62				
									11.22	0.31	11.53		
15	Package-2	Thiralankulam	1	1	0.12	BC	50	2.5	2.62				
		Panankulam	2	2	0.24	BC	60	3.0	3.24				
		Kalliputhurkulam	1	1	0.12	BC	50	2.5	2.62				
		Thatchakudi Periya kulam	1	1	0.12	BC	40	2.0	2.12				
									10.6	0.30	10.90		

16	Package-2	Thatchakudi Pudhukulam	1	1	0.12	BC	40	2.0	2.12				
		Krishnaperikulam	2	2	0.24	BC	100	5.0	5.24				
		Semmanandi Karisalkulam	1	1	0.12	BC	50	2.5	2.62				
									9.98	0.28	10.26		
17	Package-2	Karisalpatti Pudhukulam	1	1	0.12	BC	50	2.5	2.62				
		Sathaneri kulam	1	1	0.12	BC	50	2.5	2.62				
		Mangalam Periyakulam	1	3	0.36	BC	120	6.0	6.36				
									11.6	0.32	11.92		
			NO OF TANKS, SLUICES IN EACH PACKAGE									Rs. in Lakhs	
SI No	Package No	Name of Tank	No of Sluice	Flow Measuring Device		Lining the Field channel			Total Amount in Lakhs	L.S. Provision @2.80%	Grand Total	Remarks	
				No	Amount	Type of soil BC / OS*	Length in Metre	Amount in Lakhs					
18	Package-2	Nedunkulam	3	3	0.36	BC	150	7.50	7.86				
									7.86	0.22	8.08		
19	Package-3	Thirumalaikulam Tank	2	2	0.24	BC	60	3.00	3.24				
		Mathur Tank	3	3	0.36	BC	150	7.50	7.86				
									11.1	0.31	11.41		
20	Package-3	Illandaikulam Tank	2	2	0.24	BC	80	4.00	4.24				
		Thambipatti Tank	3	3	0.36	BC	90	4.50	4.86				
									9.1	0.25	9.35		
21	Package-3	Chettikurichi tank	4	4	0.48	BC	120	6.00	6.48				
		Ayardharmam Tank	2	2	0.24	BC	90	4.50	4.74				
									11.22	0.31	11.53		
22	Package-3	Thiirumagalkulam tank	2	2	0.24	BC	60	3.00	3.24				
		Ayakulam Tank	2	2	0.24	BC	60	3.00	3.24				
		Alaganeri Tank	2	2	0.24	BC	60	3.00	3.24				
									9.72	0.27	9.99		
23	Package-4	Valaikulam Tank	2	5	0.6	BC	150	7.50	8.10				
									8.10	0.23	8.33		
24	Package-4	Velankulam tank	2	4	0.48	BC	120	6.00	6.48				
									6.48	0.18	6.66		

25	Package-4	Rengappanaickarkulam Tank	3	6	0.72	BC	180	9.00	9.72				
									9.72	0.27	9.99		
26	Package-4	Veppankulam Tank	1	2	0.24	BC	80	4.00	4.24				
		Amuthakulam Tank	3	3	0.36	BC	90	4.50	4.86				
									9.10	0.25	9.35		
27	Package-4	Maravankulam Tank	3	4	0.48	BC	120	6.00	6.48				
		Kosavankulam Tank	2	2	0.24	BC	60	3.00	3.24				
									9.72	0.27	9.99		
28	Package-4	Ponnaganni tank	2	5	0.6	BC	150	7.50	8.10				
		M.Valankulam Tank	2	2	0.24	BC	60	3.00	3.24				
									11.34	0.32	11.66		
29	Package-4	Srivilliputhur Big tank	4	6	0.72	BC	180	9.00	9.72				
									9.72	0.27	9.99		
30	Package-4	Vellakulam Tank	2	2	0.24	BC	60	3.00	3.24				
		Rajakularamaperi tank	1	3	0.36	BC	90	4.50	4.86				
									8.10	0.23	8.33		
			NO OF TANKS, SLUICES IN EACH PACKAGE									Rs. in Lakhs	
SI No	Package No	Name of Tank	No of Sluice	Flow Measuring Device		Lining the Field channel			Total Amount in Lakhs	L.S. Provision @2.80%	Grand Total	Remarks	
				No	Amount	Type of soil BC / OS*	Length in Metre	Amount in Lakhs					
31	Package-4	Vadamalaikurichi Tank	4	8	0.96	BC	200	10.0	10.96				
									10.96	0.31	11.27		
32	Package-4	a) Pottalkulam Tank b) Kurukkalkulam Tank	3	5	0.6	BC	150	7.5	8.10				
									8.10	0.23	8.33		
33	Package-4	Athikulam Sengulam Tank	2	4	0.48	BC	120	6.0	6.48				
									6.48	0.18	6.66		
34	Package-4	Nakkamangalam tank	2	4	0.48	BC	120	6.0	6.48				
									6.48	0.18	6.66		
35	Package-4	Thailakulam Tank	2	4	0.48	BC	120	6.0	6.48				
		Mullikulam Tank	3	0	0	BC	0	0.0	0				
									6.48	0.18	6.66		

36	Package-4	Sholankulam Tank	4	8	0.96	BC	200	10.0	10.96			
									10.96	0.31	11.27	
37	Package-4	Thadanganni Tank	2	4	0.48	BC	120	6.0	6.48			
									6.48	0.18	6.66	
38	Package-4	Deivendri Tank	3	5	0.6	BC	150	7.5	8.10			
									8.10	0.23	8.33	
39	Package-4	Nochikulam Tank	3	5	0.6	BC	150	7.5	8.10			
									8.10	0.23	8.33	
40	Package-4	T.Managaseri Tank	2	5	0.6	BC	150	7.5	8.1			
									8.1	0.23	8.33	
41	Package-4	Pattakulam Tank	1	3	0.36	BC	90	4.5	4.86			
									4.86	0.14	5.00	
42	Package-4	Villupanur Tank	2	6	0.72	BC	180	9.0	9.72			
		Total							9.72	0.27	9.99	
GRAND TOTAL											405.00	

Certified that the Tanks included in the originally approved DPR of Arjunanadhi Sub Basin alone are considered now

Certified that the above works have not been taken up in any other Project

Certified that the field / Irrigation channel drawing type I is adopted in Nil number of tanks having soil other than black cotton soil.

Certified that the field / Irrigation channel drawing type II is adopted in 76 number of tanks having black cotton soil

* BC- Black Cotton soil

OS - Other Soil

FORMAT II

Name of Region

Madurai

Name of Circle

Vaippar Basin Circle, Virudhunagar

Name of Division

Upper Vaippar Basin Division, Rajapalayam

Name of Sub Basin

Arjunanadhi

Total Number of Tanks taken up under IAMWARM : 76

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	Number of Measuring devices	Length of lining head irrigation channel	Total Amount including L.S.	Remarks
						(Rs. In Lakhs)	
1	2	3	4			5	6
1	AP_1/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Kodikulam tank, Gunavanthaneri tank, Pethankulam tank, Koonikulam tank in Arjunanthi Sub basin in Virudhunagar District	4	6	200	11.02	
2	AP_2/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Pungankulam and Sivaneri tank, in Arjunanthi Sub basin in Virudhunagar District	2	6	210	11.53	
3	AP_3/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Pooriparaikulam tank, Thamaraikulam tank in Arjunanthi Sub basin in Virudhunagar District	2	5	150	8.33	

4	AP_4/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Watrap Big Tank in Arjunanthi Sub basin in Virudhunagar District	1	8	200	11.27	
5	AP_5/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Viragasamuthiram tank in Arjunanthi Sub basin in Virudhunagar District	1	8	200	11.27	
6	AP_6/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Kuppankulam tank, Patharankulam tank, Sattampadi tank, in Arjunanthi Sub basin in Virudhunagar District	3	7	210	11.66	
7	AP_7/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Kosavankulam tank and Alankulam in Arjunanthi Sub basin in Virudhunagar District	2	4	160	8.72	
8	AP_8/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Medankulam tank, Pannkulam tank & Sundarapandiyam Periyakulam Tank in Arjunanthi Sub basin in Virudhunagar District	3	6	200	11.02	
9	AP_9/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Vilvarayankulam tank, Madavarayankulam tank in Arjunanthi Sub basin in Virudhunagar District	2	6	180	9.99	
10	AP_10/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Panikkankulam tank ,Anuppankulam tank in Arjunanthi Sub basin in Virudhunagar District	2	6	180	9.99	

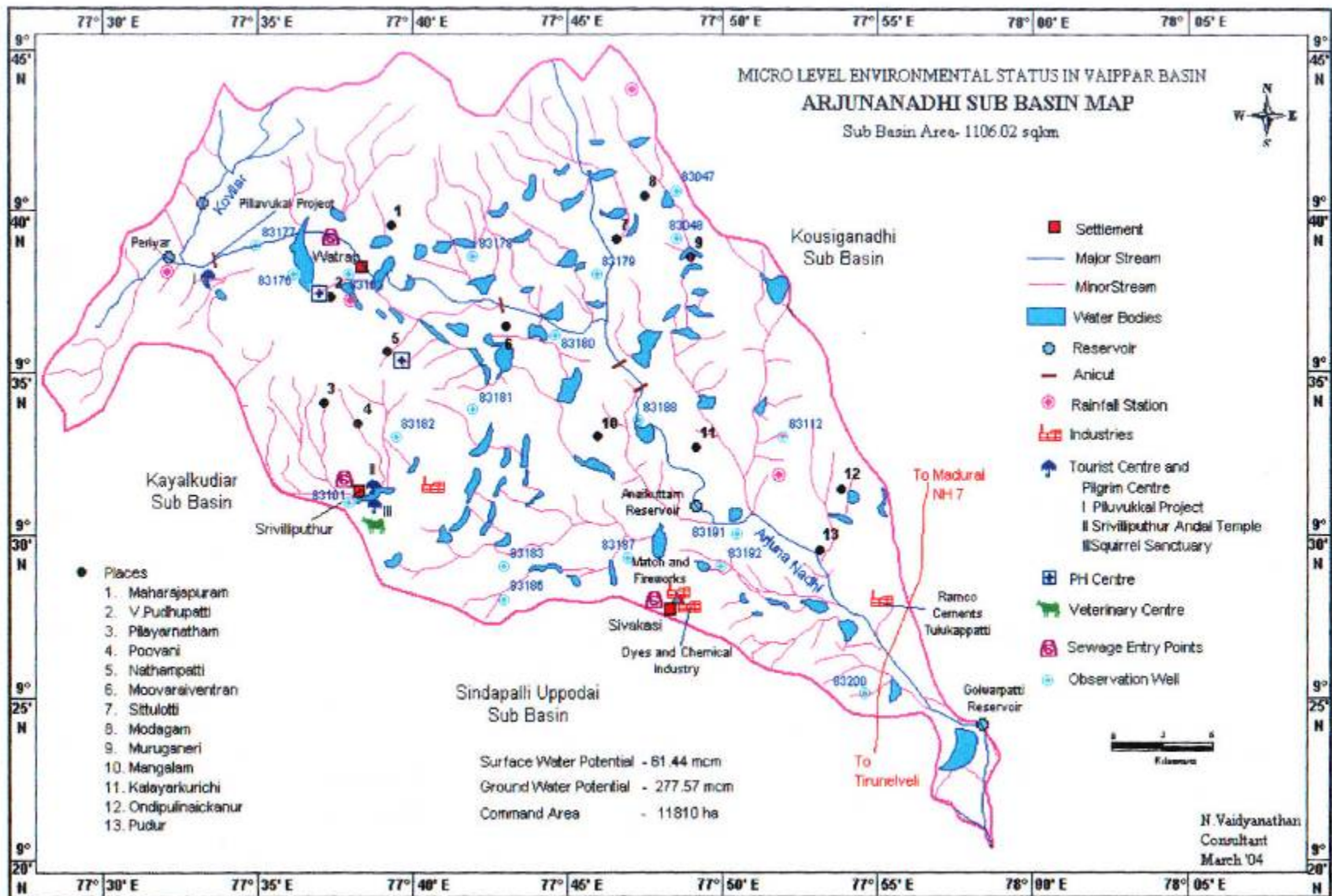
11	AP_11/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Unjankulam tank , Sengulam tank in Arjunanthi Sub basin in Virudhunagar District	2	6	210	11.53	
12	AP_12/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Vennikondankulam tank, Sengulam tank, Nangurkulam tank in Arjunanthi Sub basin in Virudhunagar District	3	5	180	10.38	
13	AP_13/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Nathampatti Periyakulam tank in Arjunanthi Sub basin in Virudhunagar District	1	6	210	11.53	
14	AP_14/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Kovanerikulam tank, Thondamankulam tank, Kondhavarayankulam tank, in Arjunanthi Sub basin in Virudhunagar District	3	6	210	11.53	
15	AP_15/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Thiralankulam tank, Panankulam tank, Kalliputhurkulam tank, Thatchakudi Peruyakulam tank in Arjunanthi Sub basin in Virudhunagar District	4	5	200	10.90	
16	AP_16/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for , Tharchakudi Pudhukulam tank, Krishnaperikulam tank Semmandi Karisalkulam tank in Arjunanthi Sub basin in Virudhunagar District	3	4	190	10.26	

17	AP_17/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Karisalpatti Pudhukulam tank, Sathanerikulam tank, Mangalam Periyakulam tank in Arjunanthi Sub basin in Virudhunagar District	3	5	220	11.92	
18	AP_14/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Nedunkulam tank in Arjunanthi Sub basin in Virudhunagar District	1	3	150	8.08	
19	AP_19/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Thirumalaikulam tank, Mathur tank in Arjunanthi Sub basin in Virudhunagar District	2	5	210	11.41	
20	AP_20/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Illandaikulam tank, Thambipatti tank in Arjunanthi Sub basin in Virudhunagar District	2	5	170	9.35	
21	AP_21/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for , Chettikurichi tank,Ayardharmam tank in Arjunanthi Sub basin in Virudhunagar District	2	6	210	11.53	
22	AP_22/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Thirumagalkulam,Ayakulam tank and Alaganeri tank in Arjunanthi Sub basin in Virudhunagar District	3	6	180	9.99	
23	AP_23/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Valaikulam tank in Arjunanthi Sub basin in Virudhunagar District	1	5	150	8.33	

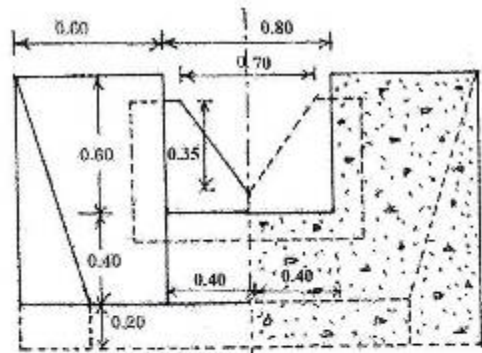
24	AP_24/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Velankulam tank in Arjunanthi Sub basin in Virudhunagar District	1	4	120	6.66	
25	AP_25/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Rengappanaikarkulam tank in Arjunanthi Sub basin in Virudhunagar District	1	6	180	9.99	
26	AP_26/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Veppankulam tank , Amuthakulam tank in Arjunanthi Sub basin in Virudhunagar District	2	5	170	9.35	
27	AP_27/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for , Maravankulam tank, Kosavankulam tank in Arjunanthi Sub basin in Virudhunagar District	2	6	180	9.99	
28	AP_28/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Ponnanganni tank, M.Valankulam tank in Arjunanthi Sub basin in Virudhunagar District	2	7	210	11.66	
29	AP_29/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Srivilliputhur Big tank in Arjunanthi Sub basin in Virudhunagar District	1	6	180	9.99	
30	AP_30/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Vellakulam tank, Rajakularamaperi tank in Arjunanthi Sub basin in Virudhunagar District	2	5	150	8.33	

31	AP_31/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Vadamalaikuruchi tank in Arjunanthi Sub basin in Virudhunagar District	1	8	200	11.27	
32	AP_32/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Pottakulam tank, Kurukkalkulam tank in Arjunanthi Sub basin in Virudhunagar District	1	5	150	8.33	
33	AP_33/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Athikulam Sengulam tank in Arjunanthi Sub basin in Virudhunagar District	1	4	120	6.66	
34	AP_34/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Nakkamangalam tank in Arjunanthi Sub basin in Virudhunagar District	1	4	120	6.66	
35	AP_35/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Thailakulam tank, Mullikulam tank in Arjunanthi Sub basin in Virudhunagar District	2	4	120	6.66	
36	AP_36/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Sholankulam tank in Arjunanthi Sub basin in Virudhunagar District	1	4	200	11.27	
37	AP_37/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Thadanganni tank in Arjunanthi Sub basin in Virudhunagar District	1	4	120	6.66	

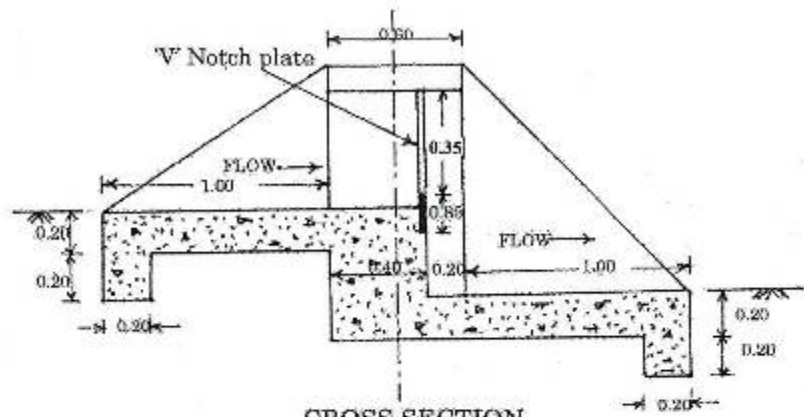
38	AP_38/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Deivendri tank in Arjunanthi Sub basin in Virudhunagar District	1	5	150	8.33	
39	AP_39/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Nochikulam tankin Arjunanthi Sub basin in Virudhunagar District	1	5	150	8.33	
40	AP_40/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for T.Managaseri tank in Arjunanthi Sub basin in Virudhunagar District	1	5	150	8.33	
41	AP_41/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Pattakulam tank in Arjunanthi Sub basin in Virudhunagar District	1	3	90	5.00	
42	AP_42/ IAMWARM/ WRD/ AJN/ WORKS/ I / 2011-2012	Lining of head Irrigation Channel and providing Flow Measuring devices for Villupanur tank in Arjunanthi Sub basin in Virudhunagar District	1	6	180	9.99	
		TOTAL		225.00	7320.00	405.00	



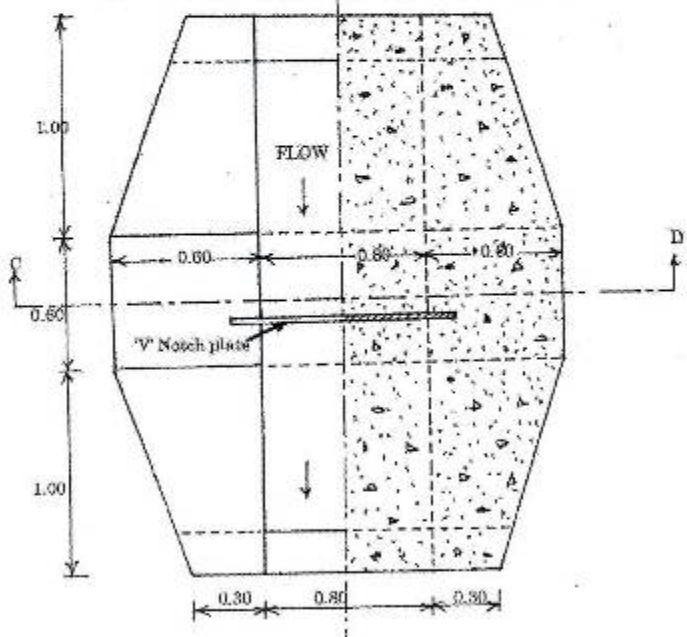
Source: Institute of Water Studies



HALF FRONT ELEVATION AND HALF SECTIONAL ELEVATION AT CREST



CROSS SECTION



HALF PLAN AT TOP AND HALF PLAN AT BOTTOM

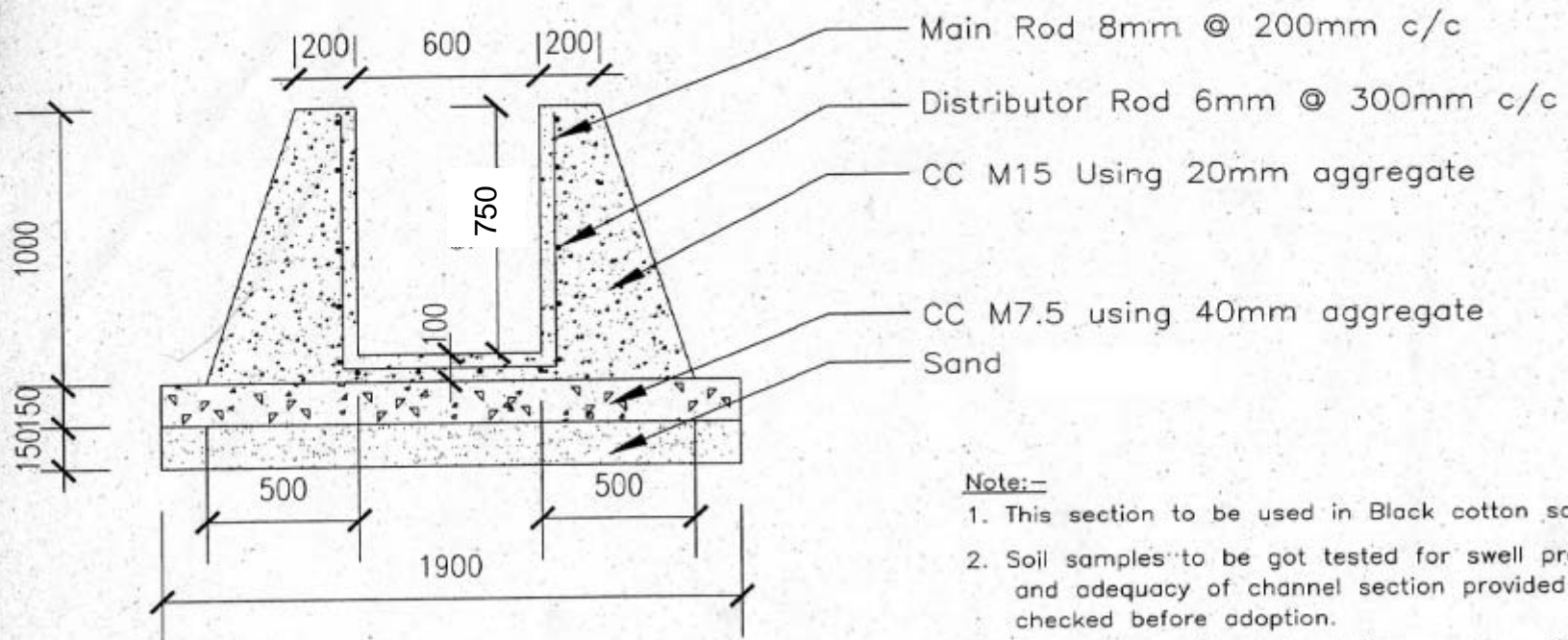
TYPE - U
3 CUSEC V-NOTCH

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

Discharge		Head Over Crest Cm	V-Notch size Cm	Overall size Cm
Cusec	Litres / 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 ARJUNANADHI SUB BASIN

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

LAMPAR PROJECT
 KOTTAKARAIYAR SUB-BASIN
 IRRIGATION CHANNEL LINING

Scale:-1:1000
 All dimension are in **MM**