



GOVERNMENT OF TAMILNADU
PUBLIC WORKS DEPARTMENT
WATER RESOURCES ORGANISATION

Region: Trichy

Circle : Middle Cauvery Basin, Trichy

Marudaiyaru Basin Division, Ariyalur.

ANAIVARI ODAI SUB BASIN

**Additional Proposals for Providing Lining in head Irrigation Channel and
Flow Measuring Device in Anaivari Odai Sub Basin (Phase II) under
IAMWARM Project.**

Estimate Amount Rs. 58.82 Lakh

INDEX

SI No	DESCRIPTION	PAGE
1	REPORT	1
2	FORMAT I	2
3	FORMAT II	3
4	INDEX MAP	4
5	SUB BASIN MAP	5
6	DRAWINGS	6-8

Additional Proposals for Providing Lining in head Irrigation Channel and Flow Measuring Device in Anaivari Odai Sub Basin (Phase II) under IAMWARM Project

The lining in 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 12-20 th 2011

Accordingly in Anaivari Odai sub basin of Phase II the following works have been proposed

1. Lining in head irrigation channel below the tanks sluice using C.C. M15 as per sketch enclosed.
2. Installing flow measuring device in the irrigation channel as per sketch
3. L.S.provision of 2.80 % for provision of labour welfare @ 0.30 % and provision for Contingencies,advertisement charges,Photographic charges @ 2.50 %

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.58.82 Lakh.**

		Total	7	7	0.70		350	11.20	11.90	0.33	12.23	
4	Package-4	Thalavai periya eri	4	4	0.40	BC	120	3.84	4.24			
		Neelampuram Tank	3	3	0.30	BC	150	4.80	5.10			
		Total	7	7	0.70		270	8.64	9.34	0.26	9.60	
5	Package-5	Thalavai Echankatu eri	4	4	0.40	BC	160	5.12	5.52			
		Thathanur Pudu eri	4	4	0.40	BC	160	5.12	5.52			
		Total	8	8	0.80		320	10.24	11.04	0.31	11.35	
6	Package-6	Thathanur Periya eri	5	5	0.50	BC	150	4.80	5.30			
		Total	5	5	0.50		150	4.80	5.30	0.15	5.45	
GRAND TOTAL			41	41	4.10		1660	53.12	57.22	1.60	58.82	

Certified that the Tanks included in the originally approved in Anaivari Odai Sub Basin DPR alone are considered now

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

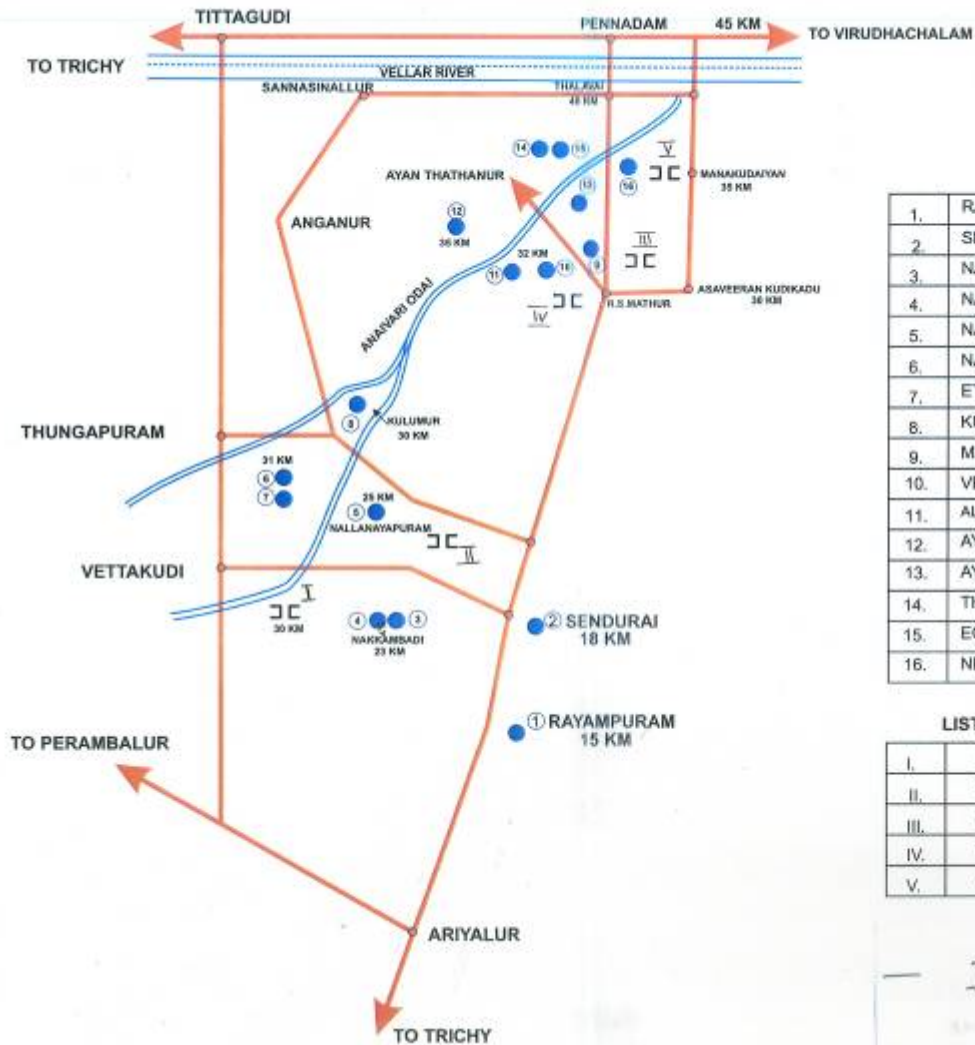
Certified that the field/Irrigation channel drawing type I is adopted in Number of Tanks having soil other than black cotton soil

BC - Black Cottan soil

Certified that the field/Irrigation channel drawing type II is adopted in 16 Number of Tanks having black cotton soil

OS- Other Soil

TN IAMWARM PROJECT ARIYALUR DISTRICT



LIST OF TANKS

1.	RAYAMPURAM PERIYA ERI
2.	SENDURAI PERIYA ERI
3.	NAKKAMBADI PERIYA ERI
4.	NAKKAMBADI PUDU ERI
5.	NALLANAYAGAPURAM PERIYA ERI
6.	NAMANGUNAM TANK
7.	ETTIKULAM TANK
8.	KULUMUR PERIYA ERI
9.	MATHUR CHITHERI
10.	VEERAVASI ERI
11.	ALAGUPADAYATCHI NANDIYAN KUTTAI
12.	AYANTHATHANUR PUDU ERI
13.	AYANTHATHANUR PERIYA ERI
14.	THALAVAI PERIYA ERI
15.	ECHCHANGADU PERIYA ERI
16.	NEELAMPURAM TANK

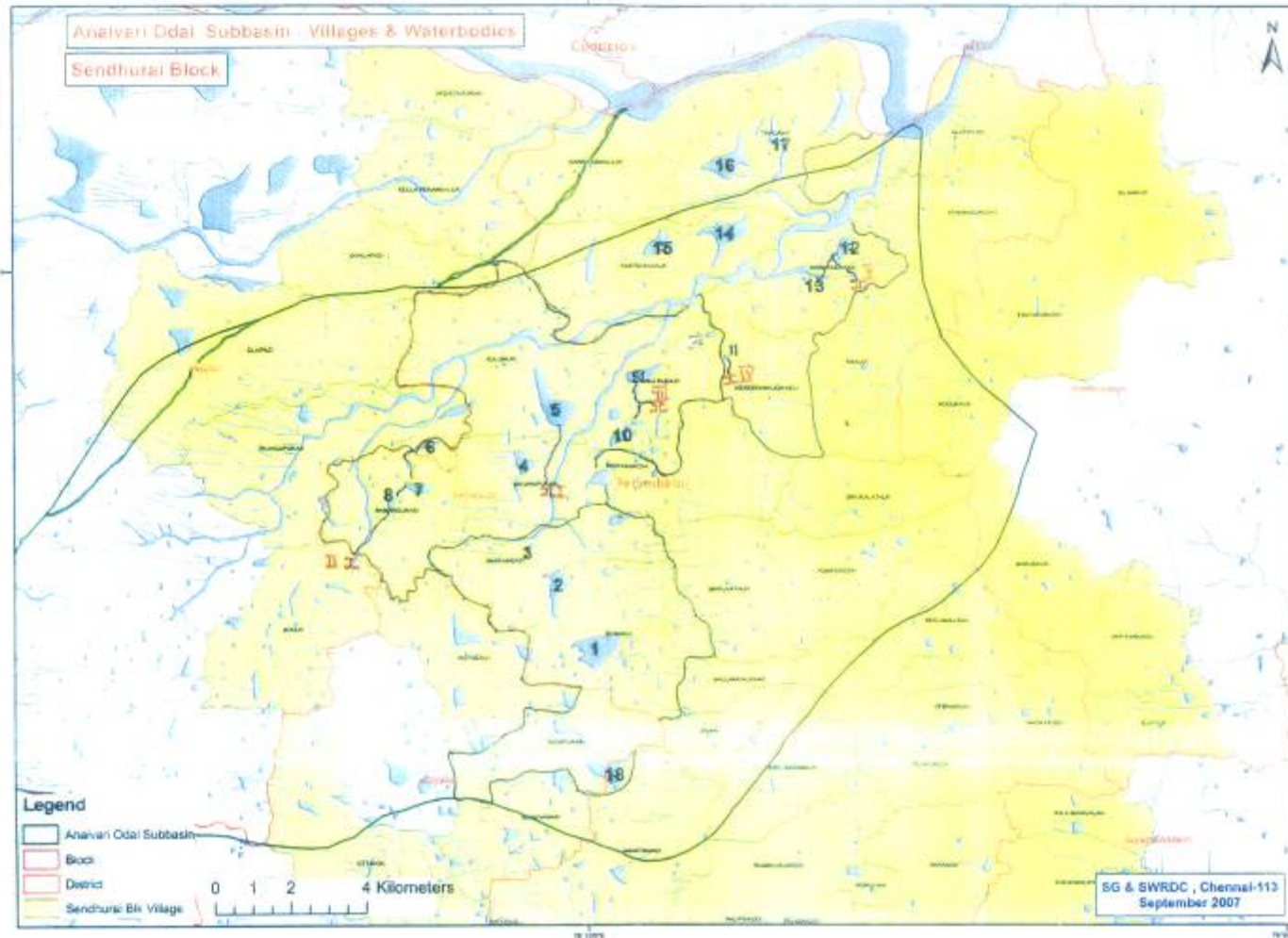
LIST OF LIST OF ANICUT

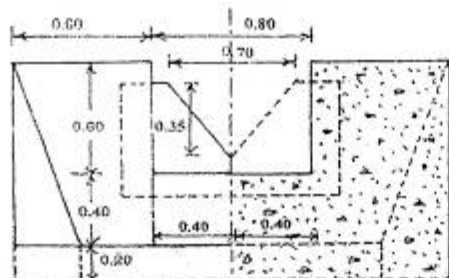
I.	KADUR ANICUT
II.	KULUMUR ANICUT
III.	MARAKURICHI ANICUT
IV.	VEERAVASI ANICUT
V.	SELLIAMMAN ODAI ANICUT

INDEX MAP

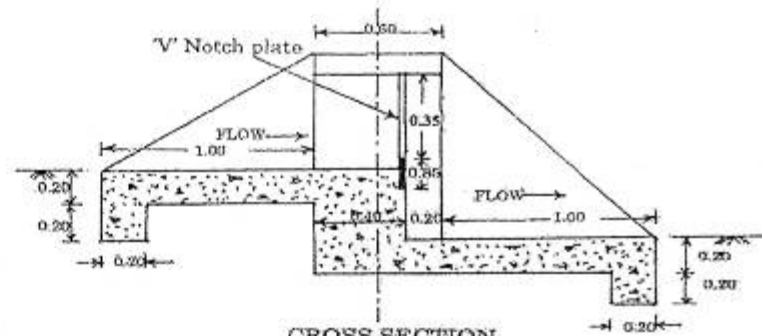
Sub Basin Map (Tanks)

DETAILS OF TANKS, ANIGUTS,
SUPPLY CHANNELS

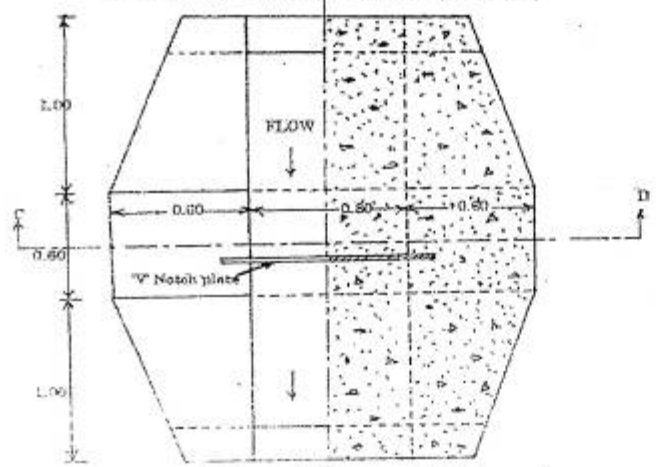




HALF FRONT ELEVATION AND HALF SECTIONAL ELEVATION AT 'D'



CROSS SECTION



HALF PLAN AT TOP AND HALF PLAN AT BOTTOM

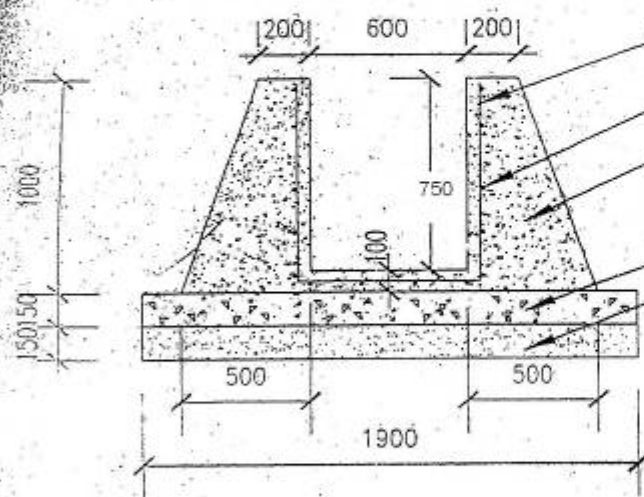
V'-NOTCH - SALIENT DETAILS (For 1 to 4 C/s)

Discharge		Head Over Crest Cm	V' Notch size Cm	Oven size Cm
Cusec	Lite / sec			
1	28.3	20.5	25 x 50	50 x 85
2	56.8	27	30 x 60	60 x 75
3	85	32	35 x 70	55 x 90
4	113.27	30	42 x 84	60 x 100

TYPICAL SKTECH FOR PROVIDING MEASURING DEVICE IN THE SLUICES FOR ANAIVARI ODAI SUB BASIN

TYPE - C
3 CUSEC V NOTCH

LINING OF IRRIGATION CHANNEL
TYPICAL CROSS SECTION
FOR BLACK COTTON SOIL



- Main Rod 8mm @ 200mm c/c
- Distributor Rod 6mm @ 300mm c/c
- CC M15 Using 20mm aggregate
- CC M7.5 using 40mm aggregate
- Sand

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 adaption.
3. Nominal cover to steel reinforcements = 30 mm

SUMMARY PROJECT
PAMBAR SUB BASIN
 IRRIGATION CHANNEL LINING
 Scale: - 1:1000

PAMBAR SUB BASIN
 (MADURAI PART)