



**PUBLIC WORKS DEPARTMENT
WATER RESOURCES ORGANISATION**

MADURAI REGION

TN – IAMWARM PROJECT

**SINDAPALLI UPPODAI SUB BASIN
(ADDITIONAL)
DETAILED PROJECT REPORT**

Estimate Amount: Rs.26.75 Lakhs

**NODAL DIVISION: VAIPPAR BASIN DIVISION
VIRUDHUNAGAR**

INTRODUCTION REPORT

Additional proposals for providing Lining of Head Irrigation Channel and Flow Measuring Device in Sindapalli uppodai sub basin of Phase II 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 Sindapalli uppodai sub basin of Phase II the following works have been proposed.

- i) Lining of Head irrigation channel below the tanks sluice using c.c. M 15 as per sketch enclosed
- ii) Installing flow measuring device in the Head 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.26.75 Lakhs

Executive Engineer, WRD
Vaippar Basin Division
Virudhunagar.

Superintending Engineer,WRD.,
Vaippar Basin Circle,
Virudhunagar.

Chief Engineer, WRD.,
Madurai Region,
Madurai

FORMAT – 1

Name of Region : Madurai
 Name of Circle : Vaippar Basin Circle, Virudhunagar
 Name of Division : Vaippar Basin Division, Virudhunagar
 Name of Sub Basin : Sindapalli Uppodai
 Total Number of Tanks taken up under IAMWARM : 6 Nos

NO OF TANKS, SLUICES IN EACH PACKAGE

(Rs. in Lakhs)

Sl. No	Package No.	Name of tank	No. of Sluice	Flow Measuring Device		Lining head Irrigation Channel			Total Amount	LS provision @ 2.80%	Grand total	Remarks
				No	Amount in Lakhs	Type of soil BC / OS	Length M	Amount in Lakhs				
1	Package 1	1. Vetrilaiyurani Tank	4	4	0.48	BC	200	6.44	6.92			
2		2.A.Subramaniyapuram Tank	2	2	0.24	BC	100	3.22	3.46			
Sub Total			6	6	0.72		300	9.66	10.38	0.29	10.67	
3	Package 2	3.Muthalnaickenpatti Tank	2	2	0.24	BC	100	3.22	3.46			
4		4.Vendankulam Tank	2	2	0.24	BC	100	3.25	3.49			
Sub Total			4	4	0.48		200	6.47	6.95	0.19	7.14	
5	Package 3	5.A.Ramalingapuram Tank	3	3	0.36	BC	150	4.88	5.24			
6		6.Alampatti Tank	2	2	0.24	BC	100	3.22	3.46			
Sub Total			5	5	0.60		250	8.10	8.70	0.24	8.94	
Grand Total			15	15	1.80		750	24.23	26.03	0.72	26.75	

Certified that the tanks included in the originally approved DPR of Sindapalli Uppodai Sub Basin alone are considered now
 Certified that the above works have not been taken up in any other project
 Certified that the field channel drawing type II is adopted in 6 numbers of tanks having black cotton soil

FORMAT – II

Name of Region : Madurai
Name of Circle : Vaippar Basin Circle, Virudhunagar
Name of Division : Vaippar Basin Division, Virudhunagar
Name of Sub Basin : Sindapalli Uppodai
Total Number of Tanks taken up under IAMWARM : 6 Nos
Method of procurement : National shopping

PACKAGEWISE ABSTRACT

Sl. No	Package No	Name of Work	No of Tanks	No. of measuring devices	Length of Lining head Irrigation channel	Total amount including L.S. (Rs. in Lakhs)	Remarks
1.	01/IAMWAR M/WRD/ SPU/ Works/IV/ 2011 – 2012	Lining of field channel and providing flow measuring devices for Vetrilaiyurani and A.Subramaniyapuram tanks in Sindapalli Uppodai Sub basin in Sivakasi taluk of Virudhunagar District.	2	6Nos	300	10.67	
2	02/IAMWAR M/WRD/ SPU/ Works/IV/ 2011 – 2012	Lining of field channel and providing flow measuring devices for Muthalnaickenpatti and Vendankulam tanks in Sindapalli Uppodai Sub basin in Sattur taluk of Virudhunagar District.	2	4 Nos	200	7.14	
3	03/IAMWAR M/WRD/ SPU/ Works/IV/ 2011 – 2012	Lining of field channel and providing flow measuring devices for A.Ramalingapuram and Alampatti tanks in Sindapalli Uppodai Sub basin in Sattur taluk of Virudhunagar District.	2	5Nos	250	8.94	
		TOTAL	6	15Nos	750M	26.75	

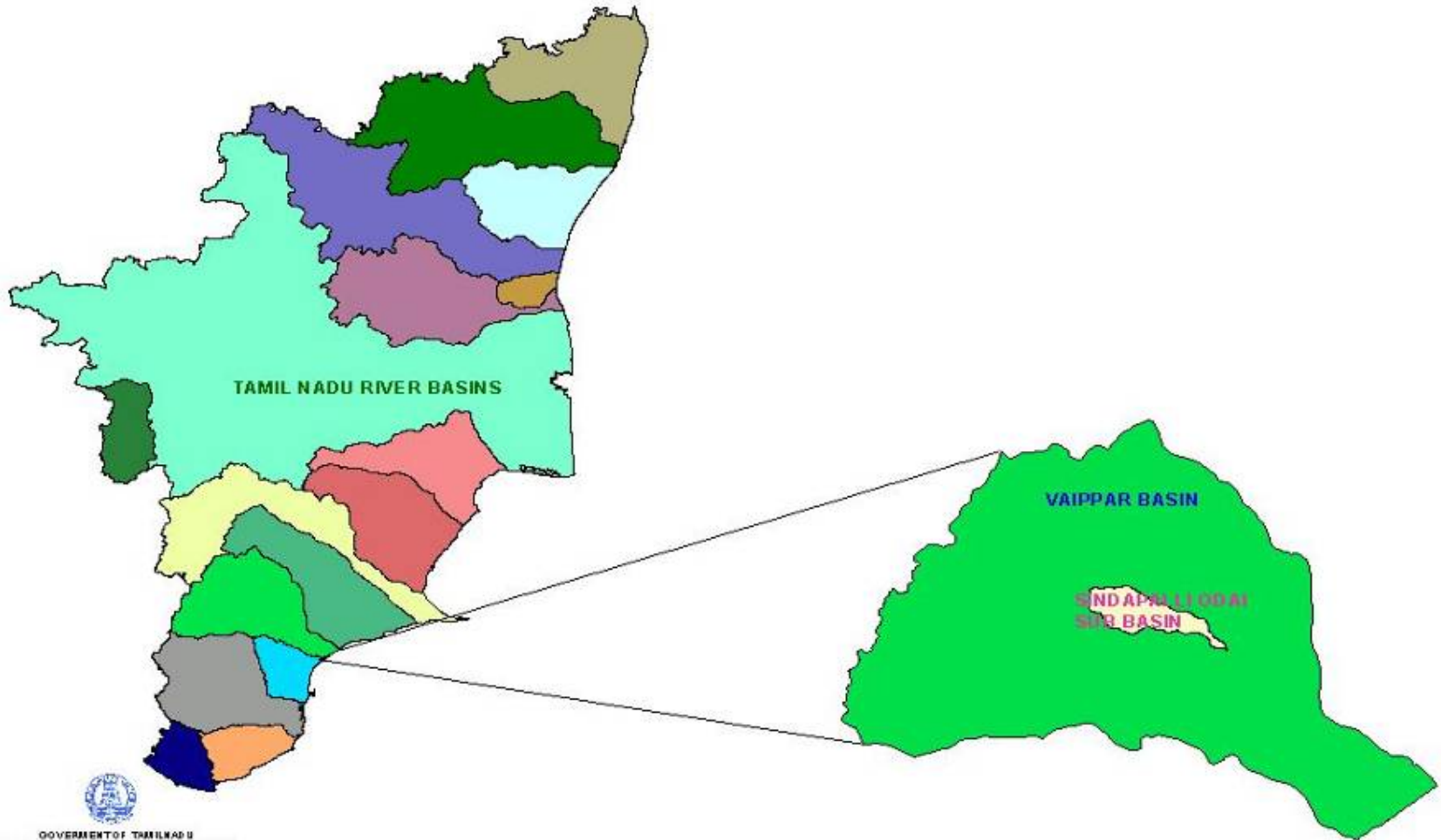


MAPS AND DRAWINGS

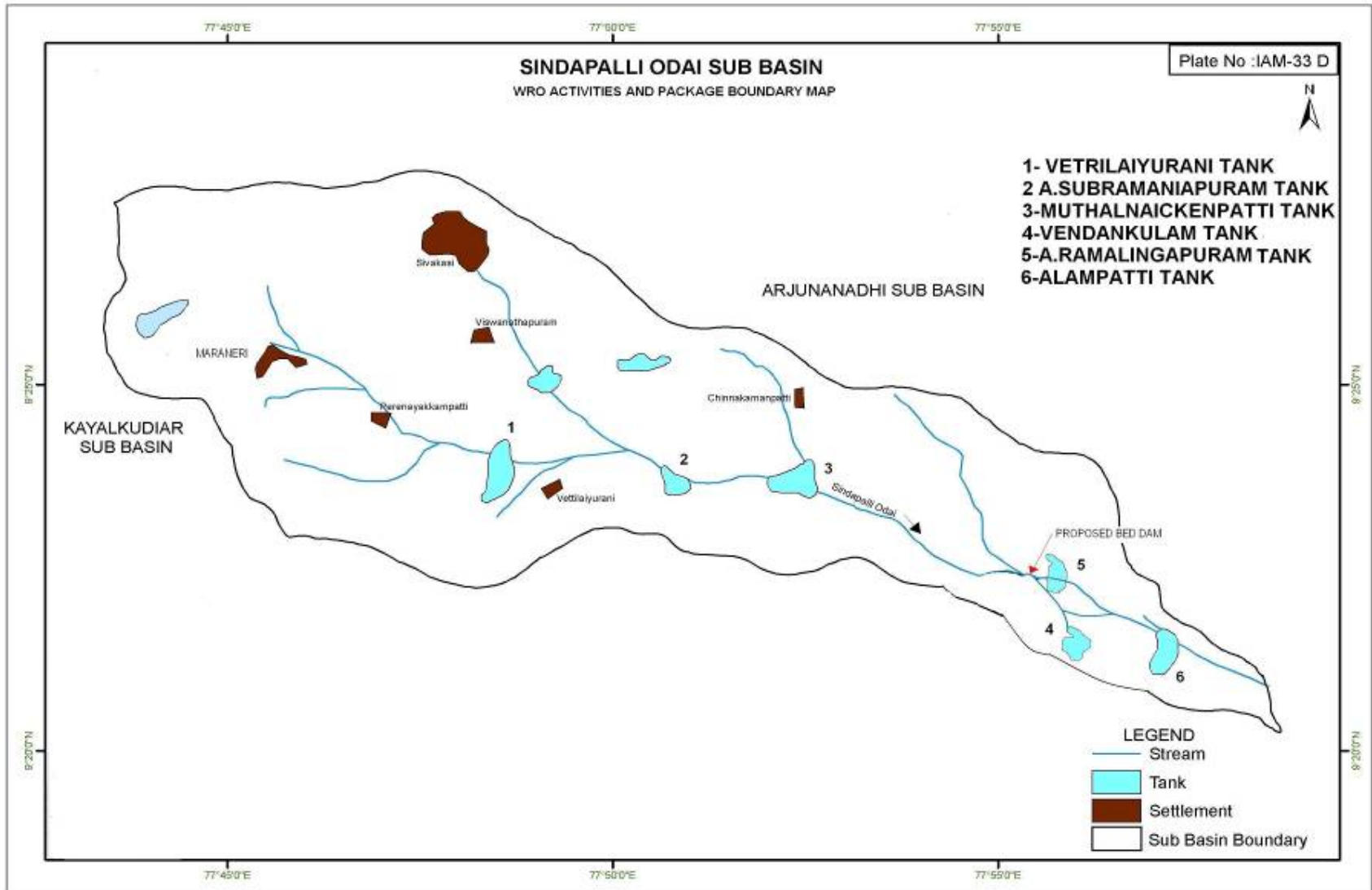


SINDAPALLI ODAI SUB BASIN
INDEX MAP

Plate No: IAM-33 A



GOVERNMENT OF TAMIL NADU
WATER RESOURCES DEPARTMENT
INSTITUTE FOR WATER STUDIES
TAMILNADU CENTRE FOR RURAL TECHNOLOGICAL APPLICATIONS
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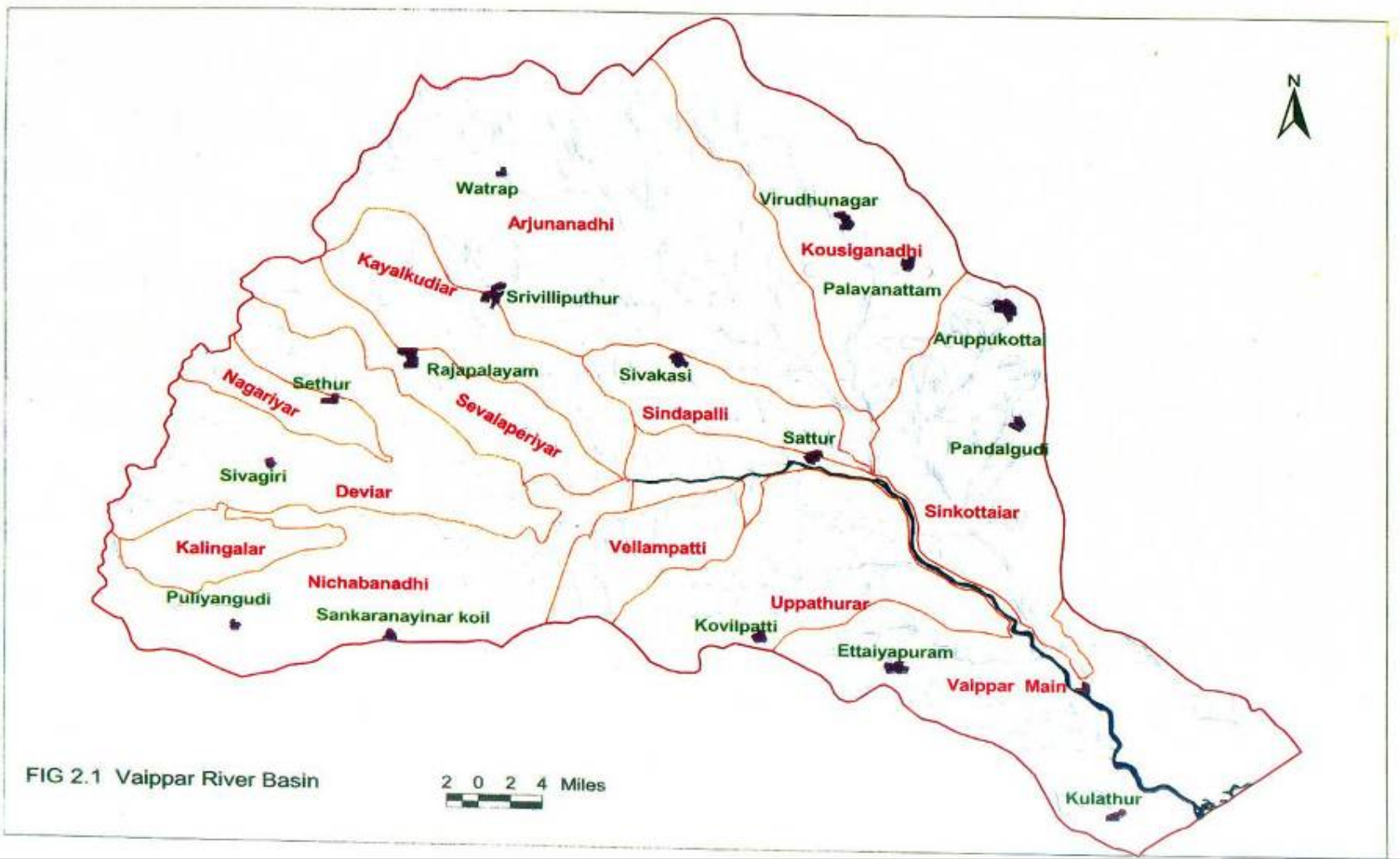
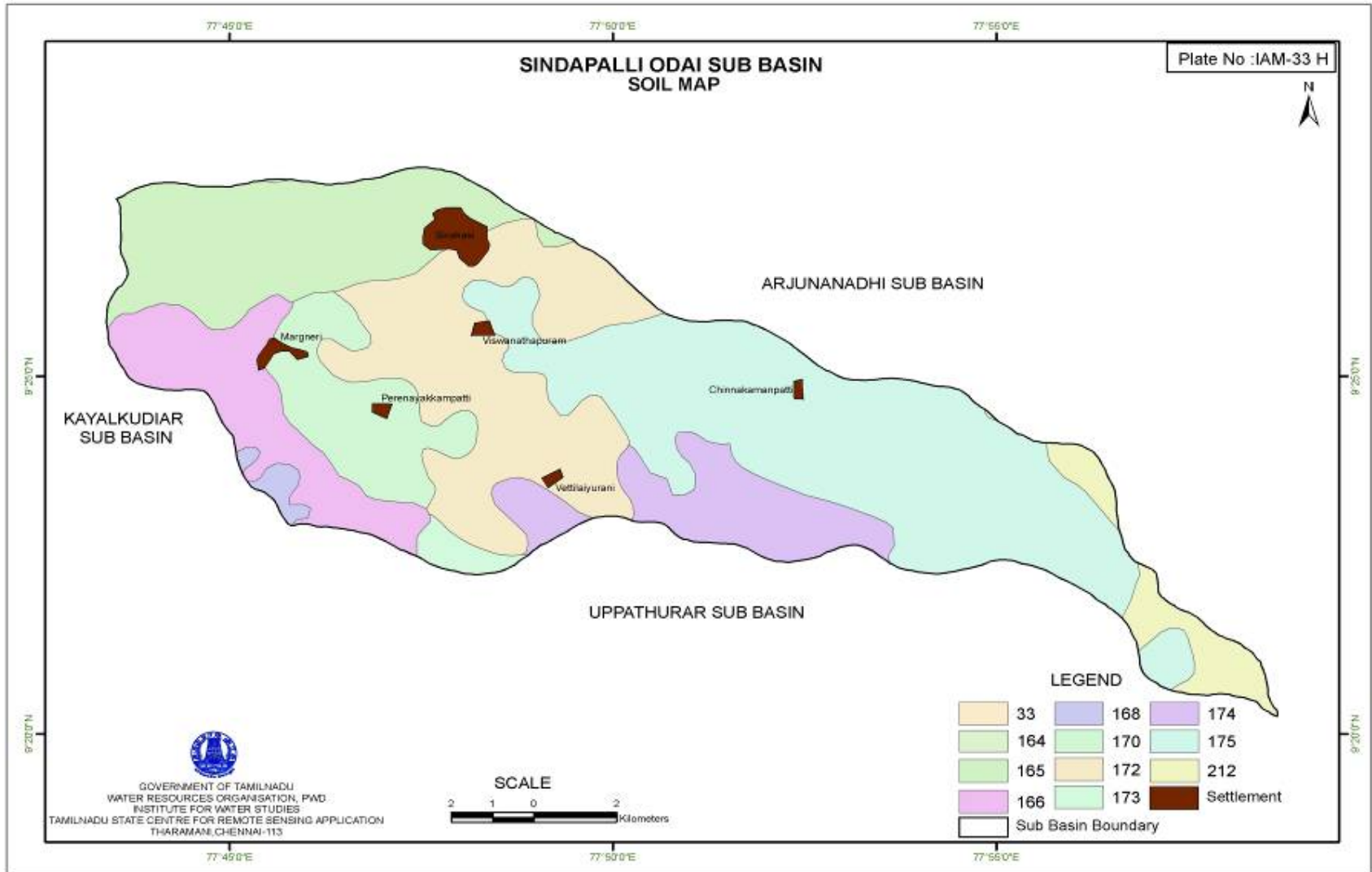
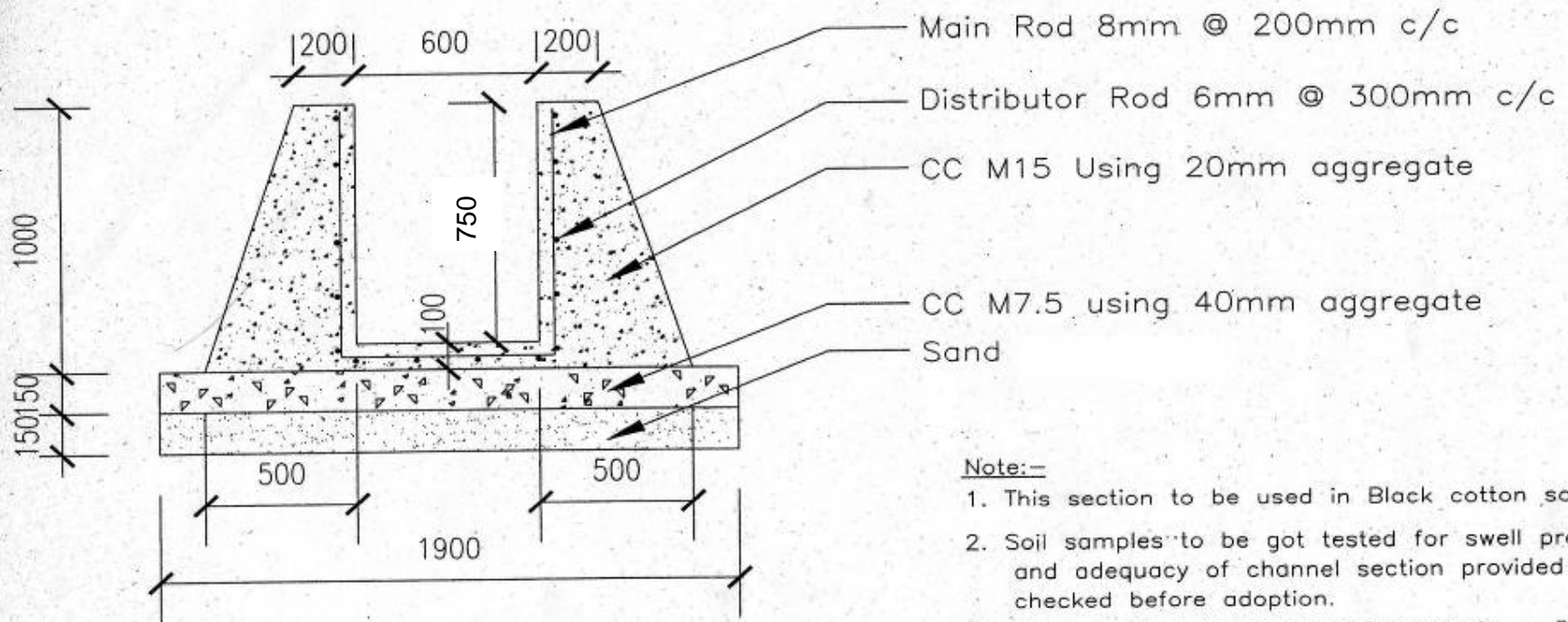


FIG 2.1 Vaippar River Basin

2 0 2 4 Miles



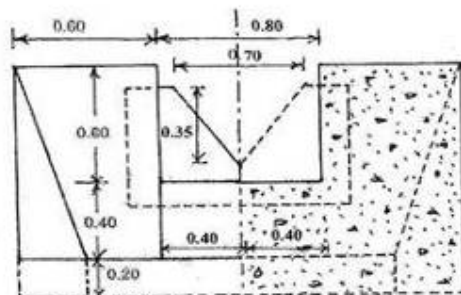
LINING OF IRRIGATION CHANNEL
TYPICAL CROSS SECTION
FOR BLACK COTTON SOIL



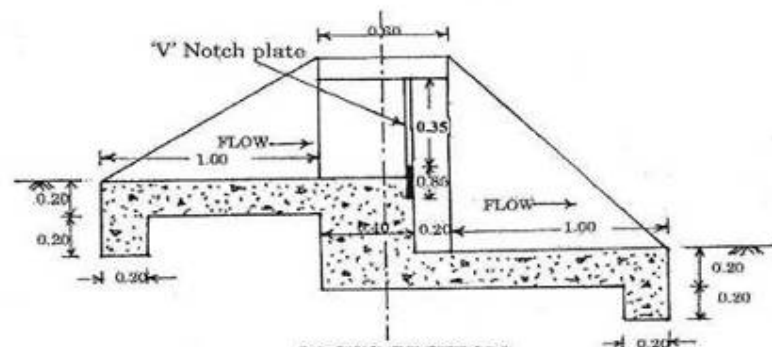
Note:-

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

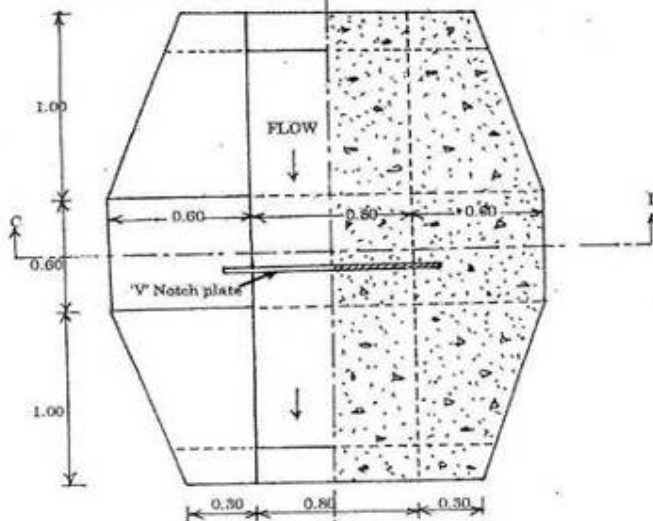
IAMWARM PROJECT
UPPER GUNDAR SUB BASIN
IRRIGATION CHANNEL LINING
Scale:- 1:1000
All Dimension are in Metre



HALF FRONT ELEVATION AND HALF SECTIONAL ELEVATION AT 'CD'



CROSS SECTION



HALF PLAN AT TOP AND HALF PLAN AT BOTTOM

TYPE - C
3 C/S 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

IAMWARM PROJECT - PHASE IV
SINDAPALLI UPPODAI SUB BASIN
PROVIDING FLOW MEASURING
DEVICE ('V' NOTCH) IN THE FIELD
CHANNEL OF TANK SLUICE
Scale : 1cm = 0.25m
All dimension are in 'Metre'

SINDAPALLI UPPODAI SUB BASIN
FLOW DIAGRAM

