



PUBLIC WORKS DEPARTMENT

WATER RESOURCES ORGANISATION

MADURAI REGION

TN – IAMWARM PROJECT

SENKOTTAIYAR SUB BASIN (ADDITIONAL)

DETAILED PROJECT REPORT

Estimate Amount: Rs.61.29 Lakhs



NODAL DIVISION: VAIPPAR BASIN DIVISION VIRUDHUNAGAR





INTRODUCTION REPORT

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

- 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. 61.29 lakhs.

Executive Engineer, WRD., Vaippar Basin Division, Virudhunagar.

Superintending Engineer, WRD., Vaippar Basin Circle, Virudhunagar. Chief Engineer,WRD., Madurai Region, Madurai – 2. Madurai FORMAT - I

Name of Region Name of Circle Name of Circle : Vaippar Basin Circle, Virudhunagar.
Name of Division : Vaippar Basin Division, Virudhunagar.
Name of Sub Basin : Senkottaiyar
Total Number of Tanks taken up under IAMWARM: 22 Nos.

NO OF TANKS, SLUICES IN EACH PACKAGE

(Rs.in Lakhs)

o	Package No.	Name of Tank	No of	Flow measuring device		Lining of Head Irrigation Channel			nount	@ uo %	Total	
SI.No			sluice	No	Amount	Type of Soil BC / OS	Length in M	Amount	Total Amount	L.S. Provision 2.80%	Grand Total	Remarks
	Pack. 1	1) Periyapuliyampatti tank	2	2	0.24	ВС	60	3.00	3.24			
	Pack. 2	2) Aruppukottai big tank	2	2	0.24	ВС	60	3.00	3.24			
		3) Sukkilanatham tank	2	2	024	ВС	60	3.00	3.24			
		Sub Total	6	6	0.72		180	9.00	9.72	0.27	9.99	
		4)T. Meenatchipuram tank	2	2	0.24	ВС	60	3.00	3.24			
		5) Podampatti tank	2	2	0.24	ВС	-	-	0.24			Lining of Field channel already provided in podampatti tank
		6) Vaduvarpatti tank	2	2	0.24	ВС	60	3.00	3.24			
		7) Kanmaipatti tank	2	2	0.24	ВС	60	3.00	3.24			
		Sub Total	8	8	0.96		180	9.00	9.96	0.28	10.24	
	Pack. 3	8) Mallaiyanaickenpatti	2	2	0.24	ВС	60	3.00	3.24			
		9) Pappakudi tank	3	3	0.36	ВС	90	4.50	4.86			
		10) Kundalakuthur tank	2	2	0.24	ВС	60	3.00	3.24			
	Pack. 4	Sub Total	7	7	0.84		210	10.50	11.34	0.32	11.66	
		11) Muthusamipuram tank	2	2	0.24	ВС	60	3.00	3.24			
		12) Chettikurichi big tank	2	2	0.24	ВС	60	3.00	3.24			
		13) Chettikurichi small tank	3	3	0.36	ВС	60	3.00	3.36			
		Sub Total	7	7	0.84		180	9.00	9.84	0.26	10.10	

0	Package No.	Name of work	No of sluice	Flow measuring device		Lining of Head Irrigation Channel			al rut	@ uc %	Total	
SI.No				No	Amount	Type of Soil BC / OS	Length in M	Amount	Total Amount	L.S. Provision 2.80%	Grand Total	Remarks
	Pack. 5	14) Andipatti tank	2	2	0.24	ВС	60	3.00	3.24			
		15) Periyathummakundu big tank	2	2	024	ВС	60	3.00	3.24			
		Sub Total	4	4	0.48		120	6.00	6.48	0.18	6.66	
	Pack. 6	16) Ayankarisal kulam tank	2	2	0.24	ВС	60	3.00	3.24			
		17)Mavil patti tank	2	2	0.24	ВС	30	1.50	1.74			
		18) Melakkarandai tank	3	3	0.36	вс	-	-	0.36			Lining of Field channel already provided in Melakkarandai tank
		Sub Total	7	7	0.84		90	4.50	5.34	0.15	5.49	
		19) Perayakudi tank	4	4	048	ВС	120	6.00	6.48			
	Pack. 7	20) Athankarai small tank	2	2	0.24	ВС	-	-	0.24			Lining of Field channel already provided in
		21) Athankarai big tank	2	2	0.24	ВС	-	-	0.24			Athankarai big and small tank
		Sub Total	8	8	0.96		120	6.00	6.96	0.19	7.15	
		Grand Total	47 Nos	47 Nos	5.64		1080 M	54.00	59.64	1.65	61.29	

Certified that the Tanks included in the originally approved DPR of Senkottaiyar 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 II is adopted in 17 number of tanks having black cotton soil.

Executive Engineer,WRD., Vaippar Basin Division, Virudhunagar. Superintending Engineer,WRD., Vaippar Basin Circle, Virudhunagar. Chief Engineer,WRD., Madurai Region, Madurai – 2.

FORMAT - II

Madurai

Name of Region Name of Circle Vaippar Basin Circle, Virudhunagar. Vaippar Basin Division, Virudhunagar. Senkottaiyar Name of Division

Name of Sub Basin

Total Number of Tanks taken

up under IAMWARM 22 Nos.

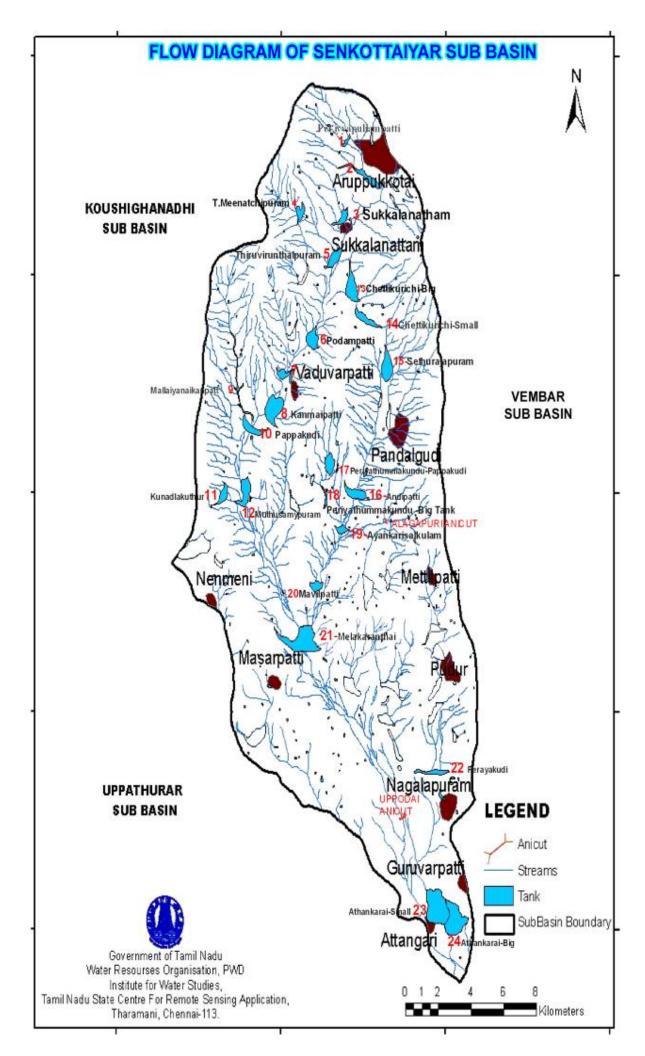
Method of procurement National shopping.

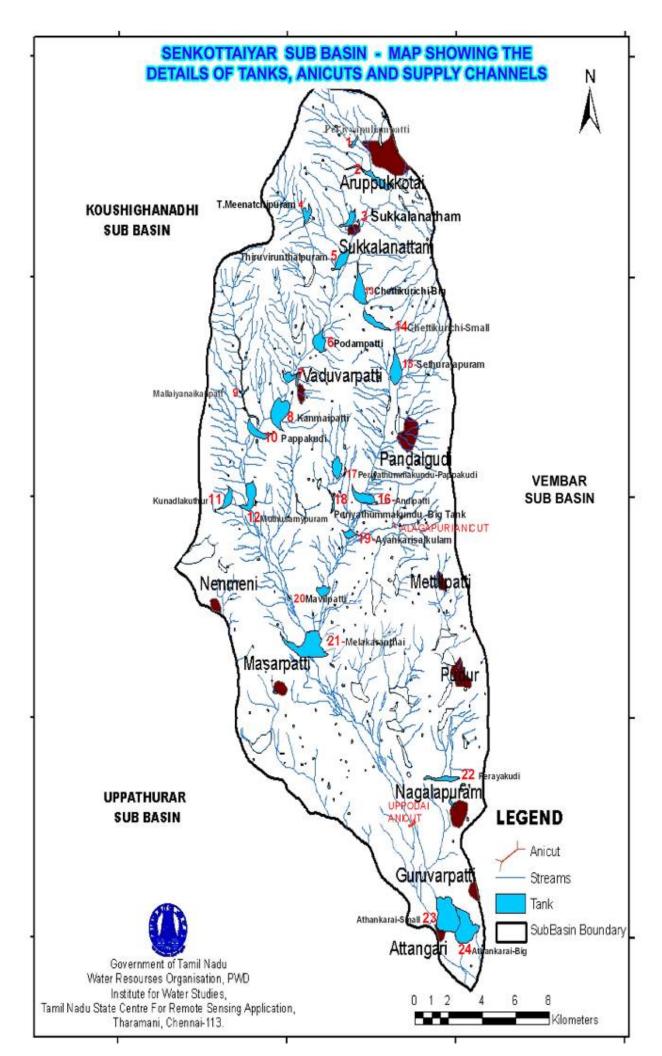
PACKAGEWISE ABSTRACT

S.No.	Package No.	Name of Work	No.of Tanks	No of flow measuring device (Nos)	Length of Lining Head Irrigation Channel (in M)	Total Amount including L.S. (Rs.in Lakhs)	Remarks
1	IAMWARM/WRD/SKR-1/ WORKS/ II / 2011 – 2012	Lining of field irrigation channel and providing Flow Measuring devices for Periyapuliyampatti, Aruppukottai, Sukkilnatham in Senkottaiyar Sub Basin in Aruppukottai taluk of Virudhunagar district.	3	6	180	10.18	
2	IAMWARM/WRD/SKR-2/ WORKS/ II / 2011 – 2012	Lining of field irrigation channel and providing Flow Measuring devices for T. Meenatchipuram, Podampatti, Vaduvarpati, Kanmaipatti in Senkottaiyar Sub Basin in Aruppukottai and Virudhunagar taluk of Virudhunagar district.	4	8	180	10.49	
3	IAMWARM/WRD/SKR-3/ WORKS/ II / 2011 – 2012	Lining of field irrigation channel and providing Flow Measuring devices for Mallaiyanaickenpatti, Pppakudi, Kundalakuthur Senkottaiyar Sub Basin in Aruppukottai and Sattur taluk of Virudhunagar district.	3	7	210	11.66	-
4	IAMWARM/WRD/SKR-4/ WORKS/ II / 2011 – 2012	Lining of field irrigation channel and providing Flow Measuring devices for Muthusamipuram, Chettikurichi big & small tank Senkottaiyar Sub Basin in Aruppukottai taluk of Virudhunagar district.	3	7	180	10.10	-

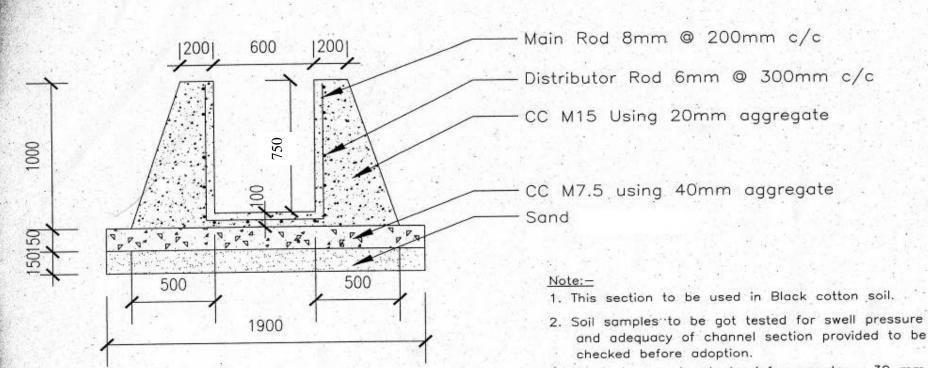
S.No.	Package No.	Name of Work	No.of Tanks	No of flow measuring device (Nos)	Length of Lining Head Irrigation Channel (in M)	Total Amount including L.S. (Rs.in Lakhs)	Remarks
5	IAMWARM/WRD/SKR-5/ WORKS/ II / 2011 – 2012	Lining of field irrigation channel and providing Flow Measuring devices for Andipatti, Periyathummakundu Senkottaiyar Sub Basin in Aruppukottai taluk of Virudhunagar district.	2	4	120	6.66	-
6	IAMWARM/WRD/SKR-6/ WORKS/ II / 2011 – 2012	Lining of field irrigation channel and providing Flow Measuring devices for Ayankarisalkulam Tank, Mavilpatti, Melakaranthai Senkottaiyar Sub Basin in Ettayapuram taluk of Tuticorin district.	3	7	90	5.49	-
7	IAMWARM/WRD/SKR-7/ WORKS/ II / 2011 – 2012	Lining of field irrigation channel and providing Flow Measuring devices for Perayakudi, Athankarai big & small Tank Senkottaiyar Sub Basin in Vilathikulam taluk of Tuticorin district.	3	8	120	7.15	-
		TOTAL	21Nos	47Nos	1080M	61.29	

Executive Engineer,WRD., Vaippar Basin Division, Virudhunagar. Superintending Engineer,WRD., Vaippar Basin Circle, Virudhunagar. Chief Engineer,WRD., Madurai Region, Madurai – 2.





TYPICAL CROSS SECTION FOR BLACK COTTON SOIL



Executive Engineer PWD Vaippar Basin Division Viruthunagar 3. Nominal cover to steel reinforcements = 30 mm

SENKOTTAIYAR SUB BASIN IRRIGATION CHANNEL LINING Scale:- 1:1000

All Dimention are in Metre

