



GOVERNMENT OF TAMIL NADU

PUBLIC WORKS DEPARTMENT

WATER RESOURCES ORGANISATION

TN IAMWARM PROJECT

UPPER VELLAR SUB BASIN

VELLAR BASIN

ESTIMATE AMOUNT RS 57.69 lakhs

**ADDITIONAL DETAILED PROJECT
REPORT FOR LEFTOVER STRUCTURES**

TRICHY REGION

Proposal for providing rehabilitation works for the leftover structures in Upper vellar sub basin under IAMWARM Project

In the wrap up meeting of the World Bank mission visit chaired by the Finance Secretary on 17-09-12, it was agreed that the rehabilitation of left out Structures may also be taken in sub basins using the Project savings.

In this regard for rehabilitation of left out infrastructure (tanks / anicuts / supply channels, etc.,) and rehabilitation of left out components in tanks taken up under IAMWARM Project of upper vellar sub basin already 79 anicuts 49 Tanks and 129.82Km of supply channels were taken up for rehabilitation. Now, the left over 1 anicut 2 tanks and 3.723 Km of supply channel are taken up for rehabilitation.

All the 49 tanks in the subbasin has been taken for rehabilitation work in Phase I of lamwarm. Now it is felt repairs to five sluices and reconstruction of one sluice is required and is contemplated in the proposal. One dividing wall of 40 m for guiding water to three tanks is proposed for equal distribution of water to the tanks.

The following works are proposed to be taken up for

1. Sluice reconstruction/ repair works
2. Desilting of supply channels , construction of guide walls and dividing walls .

Executive Engineer PWD/ WRD
Sarabanga Basin Division
Namakkal

Superintending engineer PWD / WRD
Upper Cauvery Basin Circle
Salem

Chief Engineer PWD/WRD
Trichy Region
Trichy

STATEMENT - I

**Rehabilitation of left out works in Upper Vellar sub basin.
Abstract showing the details of Rehabilitation works proposed**

Sl.No.	Description	Tanks Nos.	Anicut Nos	Supply chanel in Meter
1	Available infrastructure in Sub Basin	49	79	129820
2	<u>Rehabilitation taken up under IAMWARM Project</u>	49	79	129820
	a) Infrastructure in which all the componants are in good condition and does not require rehabilitation now	47	78	103100
	b) Infrastructure taken up under IAMWARM but certain components not taken up then but require rehabilitation now	2	1	0
3	Infrastructure not taken up for rehabilitation since 2005 under any other schemes.			
	a) Infrastructure in which certain components are in good condition and does not require rehabilitation now			0
	b) Infrastructure in which certain components are not taken up since 2005 but require rehabilitation now		1	3723
	Total No. of infrastructures requiring rehabilitation now.	2	1	3723

- 1 Certified that the works are proposed in the selected IAMWARM sub basin area
- 2 Certified that the panchayat union tanks are not considered in this project
- 3 Certified that for item 2b, the components of the infrastucture now proposed were not taken up under IAMWARM project
- 4 For Items No.3 - Certified that the works are not executed under various scheme(Viz., NABARD, Part II Schemes, etc.,) (Viz.,NABARD,part II schemes,etc.,) and IAMWARM since 2005.

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B. WRO COST TABLE(PHYSICAL AND FINANCIAL PROGRAM)

B.Break up estimate cost

Upper Vellar Sub Basin

ABSTRACT		TOTAL		
SL.NO	COMPONENT	QTY	AMOUNT IN LAKHS	
I	Tank Component			
1	Tank Bund Improvement	0.00	M	0.00
2	Repairs to sluice	4.00	No	16.38
3	Reconstruction of sluices	1	No	4.94
4	Repairs to weirs	0.00	M	0.00
5	Reconstruction of Weirs	0.00	M	0.00
6	Shutter renewal	0	Nos	2.39
II	Irrigation Channel			
1	Desilting of irrigation chanel	0	M	0.00
2	Lining of irrigation channel	0	M	0.00
3	Repairs to drops, shyphons, cistern	0	No	0.00
4	Repairs to culvert, acqeduct, etc.,	0		0.00
5	Shutter renewal	0		0.00
III	Anicut component			
1	Reconstruction of Anicut	-		-
2	Repairs to Anicut	0	No	0.00
3	Repairs to head sluice	0	No	0.00
4	Shutter renewal	0	No	0.00
5	Supply Channel	3723	M	32.41
IV	Labour welfare fund 0.3%			0.17
V	L.S. Provision @ 2.5%			1.4
	TOTAL			57.69

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Trichy

statement II - A

REHABILITATION OF LEFT OUT TANKS & INFRASTRUCTURE IN SUB BASIN OF IAMWARM PROJECT

REHABILITATION OF TANK WORKS

Name of sub basin : Upper vellar Sub
Basin

Amount in lakhs 23.71

Sl. No	Name of Tanks	Tank Bund Improvements		Repairs to Sluice		Reconstuction of Sluices		Repairs to Weirs		Reconstuction to Weirs		Shutter Renewal		Total
		Length in M	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
1	Manivilundan Old Tank			4	16.38									16.38
2	Thiruvallanthurai Tank					1	4.94					3	2.39	7.33
	Total	0.00	0.00	4.00	16.38	1.00	4.94	0	0.00	0.00	0.00	3.00	2.39	23.71

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Trichy
Region,
Trichy.

STATEMENT II - B

REHABILITATION OF IRRIGATION CHANNELS

Name of sub basin: Upper vellar Sub Basin

Amount in lakhs 0

Sl. No	Name of Tanks	Disilting of irrigation / Supply channel		Lining of irrigation channel		Repairs to Drops, Syphon cistern		Repairs to culvert aqueduct etc.,		Shutter Renewal		Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
		NIL										
	Total											

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Upper Cauvery Basin Circle,
Salem.**

**Chief
Engineer,PWD/WRD,
Trichy Region,
Trichy.**

STATEMENT II - C

REHABILITATION OF ANICUTS AND SUPPLY CHANNEL

Name of sub basin: Upper Vellar Sub Basin

Amount in Lakhs 32.41

Sl. No	Name of Anicut / supply channel	Reconstructon of anicut		Repairs to anicut		Repairs to head sluice		Shutter Renewal		Supply channal		Total in Lakhs
		Length	Amount	No	Amount	No	Amount	No	Amount	Length in m	Amount	
1	Kattukottai Anicut									65	27.37	27.37
2	Thiruvallanthurai Tank									3658	5.04	5.04
TOTAL		-	-	0	0	0	0	0	0	3723	32.41	32.41

**Executive Engineer,PWD/WRD
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Namakkal.**

**Superintending Engineer,PWD/WRD,
Upper Cauvery Basin Circle,
Salem.**

**Chief Engineer,PWD/WRD,
Trichy Region,
Trichy.**

statement II - A

REHABILITATION OF LEFT OUT TANKS & INFRASTRUCTURE IN UPPER VELLAR SUB BASIN OF IAMWARM PROJECT

REHABILITATION OF TANK WORKS

Name of sub basin :Upper Vellar Sub Basin

Amount in lakhs

23.71

Sl. No	Block	Package	Name of Tanks	Tank Bund Improvements		Repairs to Sluice		Reconstruction of Sluices		Repairs to Weirs		Reconstruction to Weirs		Shutter Renewal		Disilting of irrigation channel		Lining of irrigation channel	
				Length in M	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount
1	Thalaivasal	Package I	Manivilundan Old Tank			4	16.38												
14	Vepanthatai		Thiruvanthurai Tank					1	4.94					3	2.39				
Total				0	0	4	16.38	1	4.94	0	0	0	0	3	2.39	0	0	0	0

Executive Engineer,PWD/WRD

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Namakkal.

Superintendent Engineer,PWD/WRD,

Upper Cauvery Basin Circle,
Salem.

Chief
Engineer,PWD/WRD,

Trichy
Region,
Trichy.

STATEMENT II - C

REHABILITATION OF ANICUTS AND SUPPLY CHANNEL

Name of sub basin: Upper Vellar Sub Basin

Amount in Lakhs = 32.41

Sl. No	Block		Name of Anicut / supply channel	Reconstructon of anicut		Repairs to anicut		Repairs to head sluice		Shutter Renewal		Supply channal		Total in Lakhs
				Length	Amount	No	Amount	No	Amount	No	Amount	Length in m	Amount	
1	Thalaiivasal	Package I	Kattukottai Anicut	-	-							65	27.37	27.37
2	Vepanthatai		Thiruvanthurai Tank Supply channal	-	-								3658	5.04
TOTAL				0	0	0	0	0	0	0	0	3723	32.41	32.41

**Executive Engineer,PWD/WRO,
Sarabanga Basin Division,
Namakkal.**

**Superintendent Engieer,PWD/WRD,
Upper Cauvery Basin Circle,
Salem.**

**Chief
Engineer,PWD/WRD,
Trichy Region,
Trichy.**

statement II - A

**REHABILITATION OF LEFT OUT TANKS & INFRASTRUCTURE IN UPPER VELLAR SUB BASIN OF IAMWARM PROJECT
REHABILITATION OF TANK WORKS**

Name of sub basin : Upper Vellar Amount in lakhs = 57.69

Sl. No.	Name of Tanks	Tank Bund Improvements		Sluice Repair		Wier Repair		shutter renewal		Reconstruction of Sluice		Reconstruction of anicut		Repairs to anicut + shutter renewal		Repairs to CD works		Supply channel		Sub Total	L.S Provision	Total		
		Length in M	Amount	No	Amount	No	Amount	No	Amount	Length in m	Amount	Length	Amount	No	Amount	No	Amount	Length in m	Amount					
1	1/ IAM WARM/ WRD / UVR/ LEF TOVER WORKS / 2012 - 2013	PACKAGE 1 REHABILITATION AND MODERNISATION OF 1NO. ANICUT AND 2 NOS. TANKS OF UPPER VELLAR SUB BASIN IN THALAIVASAL BLOCK OF SALEM DISTRICT AND VEPPANTHATTAI BLOCK OF PERAMBALUR DISTRICT.																						
				4	16.38			3	2.39	1	4.94									3723	32.41	56.12	1.57	57.69
		0	0.00	4	16.38	0	0.00	3	2.39	1	4.94	0	0.00	0	0.00	0	0.00	0	0.00	3723	32.41	56.12	1.57	57.69

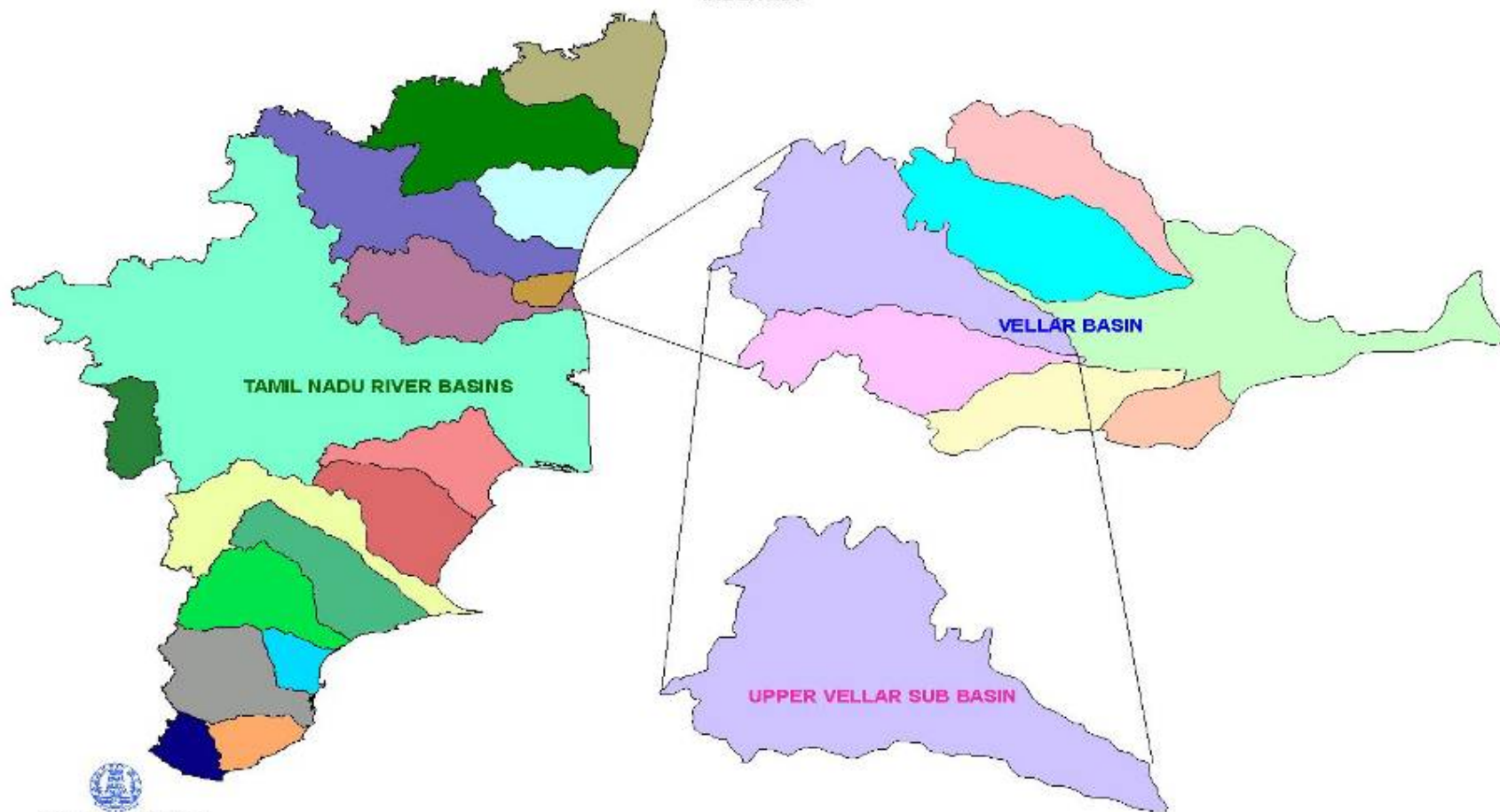
**Executive Engineer, PWD/WRD,
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Salem**

**Chief Engineer, PWD/ W
Trichy Region
Trichy**

**UPPER VELLAR SUB BASIN
INDEX MAP**

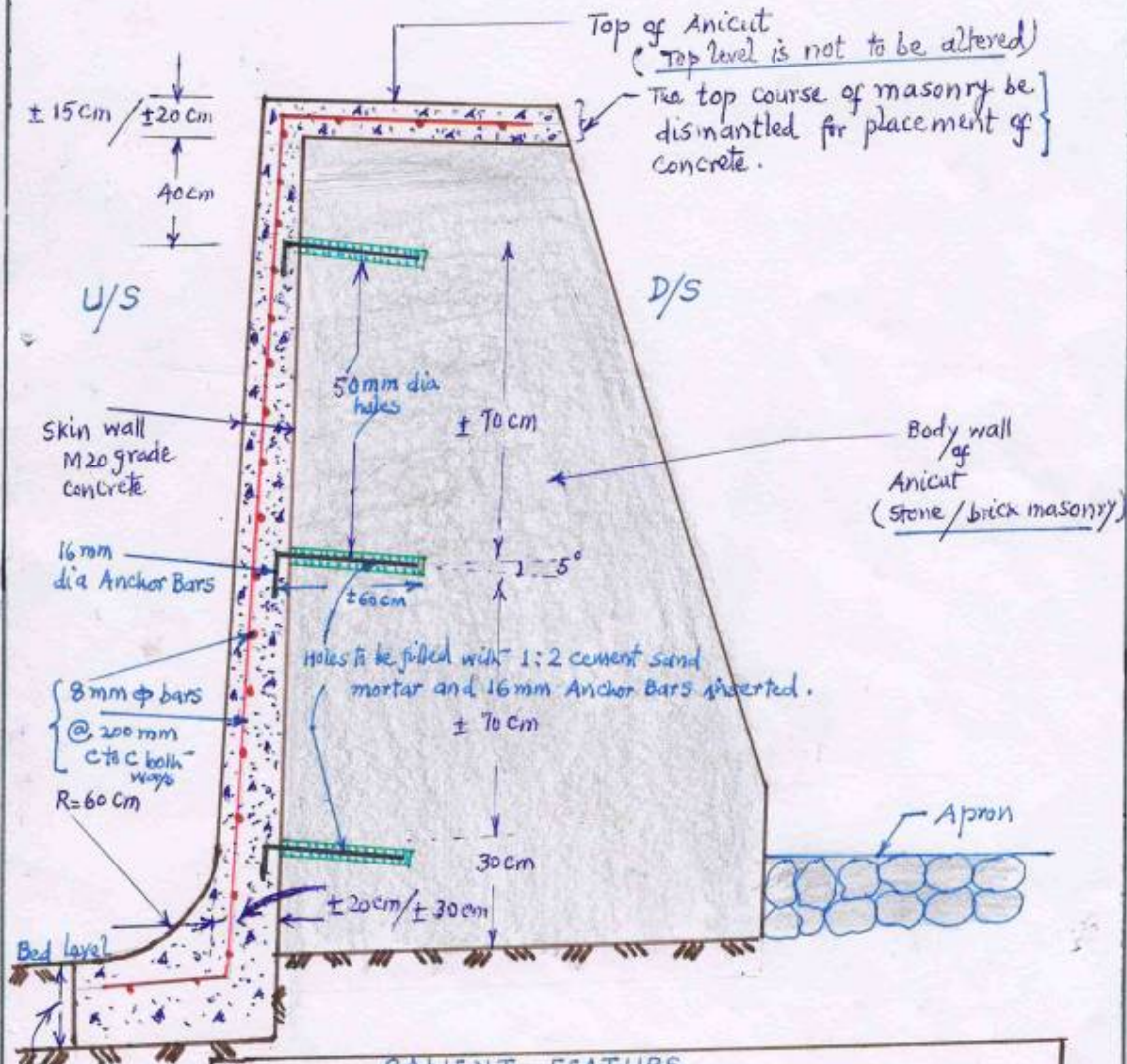
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GOVERNMENT OF TAMIL NADU
WATER RESOURCES ORGANISATION
INSTITUTE FOR WATER STUDIES
TAMILNADU CENTRE FOR REMOTE SENSING APPLICATION
THIRUVANANTHAPURAM-112

TYPICAL SKETCH

Rehabilitation of Anicut through SKIN WALL Concrete



SALIENT FEATURES

- Joints on U/S surface to be taken to 25mm depth & surface roughened by chipping;
- Drill holes of 50mm to be filled with 1:2 mortar and 16mm Anchor Bars to be pushed in. The roughened surface to be kept wet for 72 hours and cement slurry (1:2.5) of 0.70 water-cement ratio be applied over the surface prior to placement of skin concrete.
- Concrete of M20 Grade is to be used with 20mm maximum aggregate size.
- Curing is to be done for 21 days.
 - Thickness of skin concrete: 15cm at top & 20cm at bottom for Anicuts of height upto ±1.50m and 20cm at top & 30cm at bottom for Anicuts of height more than ±1.50m.

45cm to 60cm

MANIVLUNDAN OLD TANK



KATTUKOTTAI
ANICUT

