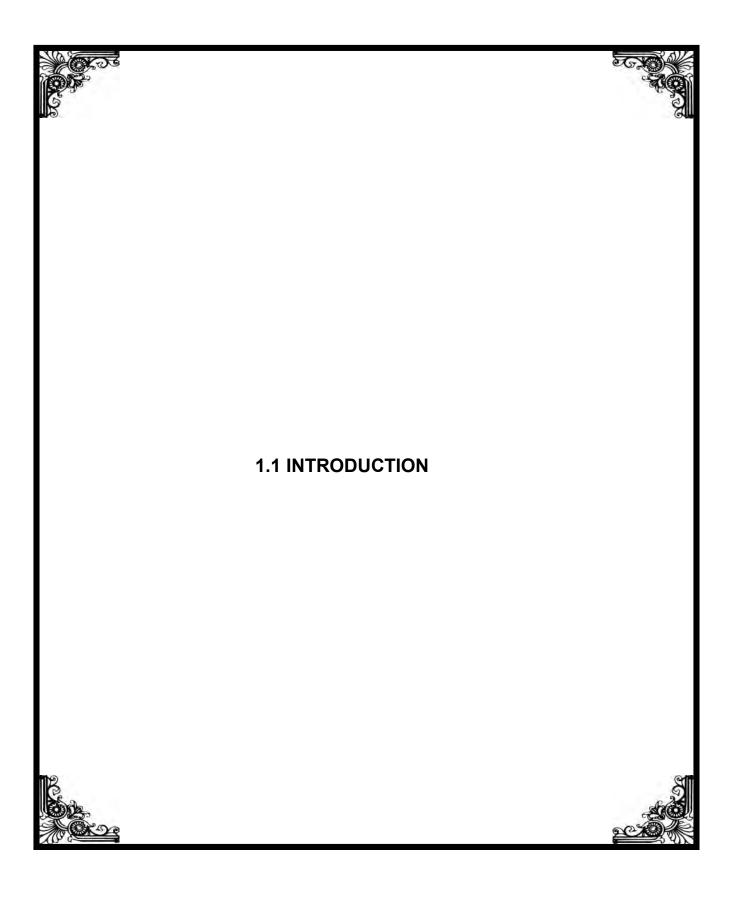


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#### TN IAMWARM Project Phase – IV Stage-II Checklist for Review of DPR

Amaravathy

#### Name of Sub Basin: 1) Ayacut Details:

SI. No.	District	Block	Ayacut in Ha.	Anicuts in Nos.	System tanks in Nos.	Non System tanks in Nos.	Supply channels in KM	Direct Ayacut in Ha.	Indirect Ayacut in Ha.
1.	Tiruppur	6	23995.63	12	-	3	382.24	23995.63	
2.	Karur	4	9286.00	4	-	-	83.081	9286.00	
3.	Dindugul	10	20052.59	66	44	55	-	20052.59	
	Total	20	53334.22	82	44	58	465.321	53334.22	

#### 2. Status of Convergence Table:

I.	No. of Cluster	:	121
II.	WRO Activities	:	Seperately enclosed
III.	Line Department Activities Furnished	:	

#### 3. Cropping pattern:

I.	Total Ayacut	:	53334.22
II.	Total Gap	:	9064.15
III.	Permanent Gap	:	1126.41

#### 4. PIM Chapter:

I.	No. of WUAs already formed	:	Nil
II.	No. of WUAs to be formed	:	193
III.	Total No. of WUAs	:	193
IV.	Whether approved by PIM cell	:	Nil

# 5. Walkthrough Survey:

I. WRD Details	:	Furnished
II. Line Department Details	:	

6. Abstract on details of Irrigation				
Infrastructure available & Works		<u>Stage-I</u>	<u>Stage-II</u>	Total
Tanks works taken	•	90Nos	<u>2 Nos.</u>	<u>10tai</u> 92 Nos.
Measuring device	•	8 Nos.	2 Nos.	10 Nos.
	•	011001	<b>_</b> 1(00)	101100.
Taken up under IAMWARM Project	:	Yes		
7. Proposals in each infrastructure	:	Yes		
8. WRD Cost Table:				
I. Tank Component	:	Furnis	hed	
II. Non Tank Component	:	: Furnished		
9. Package Details:		Stage-I	Stage-II	Total
0		0	0	
I. No. of Packages	:	22	17	39
	:	22	17	39
10. Calculation of Requirement of equipmen	: t	22	17	39
	: t	22 Furnis		39
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<ul> <li>10. Calculation of Requirement of equipment And materials and construction methodo- -logy for each package</li> <li>11. Environmental Proposals</li> <li>12. Ground Water Proposals</li> <li>13. Design and Drawing</li> <li>14. Photos showing Walkthrough survey</li> </ul>	: : : :	Furnis Yes Fu Not in Includ Yes en	hed rnished cluded ed closed	39
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## INTRODUCTION

#### 1.1 GENERAL

Agriculture is the dominant sector in the Indian economy. Tamil Nadu, depends largely on the surface water as well as ground water for irrigation in a conjunctive manner. The State has used the surface and ground water potential to the maximum extent and hence the future development and expansion depends only on the efficient and economical use of available water resources.

To achieve higher water use efficiency, it is necessary to improve and upgrade the existing conveyance system and also to introduce modern irrigation methods and innovative aggriculture practices.

With the above objective, a comprehensive programme has been proposed with an integrated and Multi Disciplinary Approach.

#### **1.2 DESCRIPTION OF THE AMARAVTHI SUB BASIN**

The Amaravathi Sub Basin is one of the oldest systems in Tamil Nadu providing irrigation facilities for double crop paddy and Sugarcane.

The river Amaravathi which originates in the western Slopes of Munnar hills of Kerala area is one of the main tributaries of river Cauvery. After its origination from Munnar, it traverses a length of about 222 KM and joins Cauvery River at Thirumukudal near Mayanur, in Karur Taluk of Karur District. The river flows through Tiruppur, Dindigul, Karur Districts. The river Amaravathi is a perennial one as it originates from Western Ghats and is fully utilized all along its entire course.

#### TRIBUTARIES OF AMARAVATHI SUB BASIN:

Amaravathi River has got major tributaries viz., Kuthiraiyar, Shanmuganathi, Uppar River, Nanganji River and Kodaganar River. These tributaries originate from Western Ghats and contribute major inflows to this River. There are other minor tributaries and streams. Namely Nallathangal Odai, Vattamalaikarai Odai, Adankarai Odai, Chittar Odai and Uppar Odai, which contribute minor inflows to this river.

#### **RESERVOIRS IN AMARAVATHI SUB BASIN**

- 1. Amaravathi Reservoir
- 2. Kuthiraiyar Reservoir
- 3. Palar Porundalar Reservoir
- 4. Varathamanathi Reservoir
- 5. Parappalar Reservoir
- 6. Kodaganar Reservoir
- 7. Nallathangal Odai Reservoir
- 8. Uppar Reservoir
- 9. Nanganjiyar Reservoir
- 10. Vattamalaikkarai odai Reservoir

#### IRRIGATION SYSTEMS IN AMARAVATHI SUB BASIN

- 1. Amaravathi old channel system
- 2. Amaravathi new canal system.
- 3. Non System tanks under Amaravathy Reservoir
- 4. Kuthiraiyar system
- 5 Palar Porundalar system
- 6. Varathamanadhi system
- 7. Parappalar system
- 8. Kodaganar system
- 9. Nangangiar system
- 10. Nallathangal odai system
- 11. Vattamalaikarai odai system
- 12. Uppar system
- 13. Ramakkal odai system
- 14. Nayodai system
- 15. Sangilian kovil odai system

#### SCOPE OF THE PROJECT

The Water Resources Department in coordination with the following line Departments have proposed to improve the irrigation service delivery and productivity of irrigated agriculture with effective integrated water resources management in the sub basin. The line departments are:

- a) Agriculture department
- b) Department of Horticulture and plantation crops
- c) Agriculture Engineering Department
- d) Tamilnadu Agriculture University
- e) Department of Agriculture marketing and agriculture business services.
- f) Animal Husbandry and veterinary services.
- g) Fisheries department

#### WATER RESOURCES DEPARTMENT

In order to improve the conveyance and operational efficiency, it is now proposed **in Stage-II** to improve and modernize the left out structural components in Amaravathi Sub basin (viz)

- Concrete lining the Bed and Sides of Main Canal and Distributories in the left out reaches.
- 2. Rehabilitation of Sluices and Renewal with Screw Gearing Shutters in the left out reaches
- 3. Rehabilitation of Cross Masonry Structures in the left out reaches.
- 4. Standardizing and strengthening the Canal Banks
- 5. Construction of Concrete flood protection walls in the weaker portion of Dharapuram Old Channel.
- 6. Providing approach bridges to the Farmers.
- 7. Rehabilitation of Supply Channel from Anicuts to Tanks in the left out reaches.
- 8. Rehabilitation of Anicuts and Weirs.
- 9. Standardizing and strengthening the Tank Bunds
- 10. Construction of field channels, below the tank sluices
- 11. Construction of measuring devices
- 12. Strengthening of PIM & convergence activities
- 13. Canal strengthening with CNS Layer

# 2. DETAILS OF AYACUT

The details of ayacuts are furnished below.

			District		ks	
S1. No.	Name of the System	<b>Karur</b> (Hectare)	<b>Dindigul</b> (Hectare)	<b>Tirupur</b> (Hectare)	Total	Remarks
1	Amaravathi new canal system			10222.67	10222.67	
2	Amaravathi old channel system	5445.34		6452.22	11897.57	
3	Non - System Tanks under Amaravathy Reservoir			147.43	147.7	
4	Kuthiraiyar system		2194.22	281.89	2470.45	
5	Palar Porundalar system		7852.3		7826.47	
6	Varathamanadhi system		3397.69		3193.38	
7	Parappalar system	199.75	1001.53		1201.28	
8	Kodaganar system	2159.85	4413.30		6573.15	
9	Nangangiar system	1471.03	1058.25		2529.28	
10	Nallathangal Odai System			1920.65	1920.65	
11	Vaddamalaikarai Odai System			2454.66	2454.66	
12	Uppar system			2452.44	2452.44	
13	Ramakkal odai system		107.69		107.69	
14	Sangilian kovil odai system		151.75		151.75	
15	Nayodai system		185.53		185.53	
	TOTAL	9286.00	20052.59	23995.63	53334.22	

#### PRESENT CONDITION OF THE AMARAVATHI SUB- BASIN SYSTEM :

Before construction of dams & Reservoir, Anicuts and channels were constructed across the river during the British regime by using the big size boulders. The anicuts and channels are being maintained only with the available funds which is not sufficient for upkeeping the system in good condition.

The old channels from the Anicuts mostly run along the contour and also are earthern channels. The channel banks are heavily eroded in many places and are below the required standards.

The sluices in the entire length of the channels were constructed during the formation of the channel itself and now the sluice structures, pipes and sluice shutters are in damaged condition and hence effective water regulation is not possible in a systematic manner and loss of water through the sluices are also abnormal.

The tank bunds are found eroded in many places with extensive gullies formed and hence they are below the desired standards. Head sluice of supply channels to tanks are also in damaged conditions.

The Amaravathi Main canal was excavated on the left bank of Amaravathi river in the year 1959 and lined during the year 1972-73 for 12 Kms and remaining 51.20 Kms were lined during 1982-85. Due to its long run and continuous usage, lining from LS 0 to 12.50 Km was completely damaged and dilapidated in many pieces. From 12.50 KM to 63.20 Km, bed and side linings are damaged in few reaches which now need rehabilitation. The distributaries have been lined only in secletive reaches which are also damaged at present. Owning to this, the tail end farmers are not getting the assured & reliable supply. The sluices and cross masonry structures are also in damaged condition and hence effective water regulation could not be done in a systematic manner with substantial loss of water by way of leakages etc. .

Due to the structural and operational deficiencies mentioned above, out of the total ayacut of **53334.22Ha**, only **35694.29Ha** are fully irrigated, **8575.78Ha** are partially irrigated and **7937.74Ha** are gap area and also **1126.41Ha** are identified as permanent gap area.

The project "TAMILNADU IRRIGATED AGRICULTURE MODERNISATION AND WATER BODIES- RESTORATION AND MANAGEMENT PROJECT" (In Tamil "NEERVALA NILAVALA THITTAM") with objectives to improve the irrigation service delivery and productivity of irrigated agriculture with effective water resource management in the sub basin frame work is being implemented in Tamilnadu with the world Bank Assistance with an outlay of Rs.2547 Crores (566 Million US dollars).

This project is proposed to be implemented in 63 sub-basins during the overall project period of six years from 2007 in 4 phases. The implementation support mission of the World Bank during their visit to Tamilnadu from September 12-20/2011 has accepted to take Amaravathi Sub-basin as an additional sub-basin in phase IV of IAMWARM Works utilizing the project savings (vide Aide Memoir dated:28.10.2011).

#### Amaravathi Sub Basin

The Detailed Project report has been prepared for the Amaravathi Sub-Basin comprising 22 Packages for Rs.12796.00 lakhs and Rs.35.00 lakhs for Environmental Component totaling to Rs.12831.00 lakhs. The DPR has been approved by World Bank vide e-mail dated:21.12.2011.

The Government of Tamilnadu have also accorded Administrative sanction for Rs. 1093.00 Lakhs vide G.O.Ms No 47 PW (WR1) Department dated 27.2.2012

#### **GOVERNMENT APPROVAL FOR AMARAVATHI SUB BASIN :**

The Amaravathi sub Basin is one of the oldest systems in Tamilnadu providing irrigation facilities for double crop.

The river Amaravathi which originates in the western slopes of Moonar hills of Kerala area is one of the main tributaries of river Cauvery. From Moonar, it traverses to a length of about 222 km and joins with Cauvery River at Thirumukudal near Mayanur in Karur Taluk of Karur District. The river covers Tiruppur, Dindigul, Karur Districts. The river Amaravathi is a perennial one as it originates from Western Ghats and is fully utilized throughout its entire course.

In the stage-I of Phase-IV IAMWARM Project most of the infrastructure pertained to the Amaravathy Sub Basin resolved in to 22 packages, some of the infrastructure which area left out in Stage-I of Phase-IV, now require considerable modernization. Hence, the left out infrastructures are covered under Stage-II of Phase-IV IAMWARM Project.

# AMARAVATHI SUB BASIN - PHASE-IV STAGE-II - LEFT OUT REACHES PROPOSALS

<u>PACKAGE NO.1</u>: Rehabilitation and restoration of Komaralingam, Sholamadevi and Sarkarkannadipudur Leading channel of Amaravathi river system in Madathukulam Taluk of Tiruppur District.

Estimate Rs.130.00 Lakhs

#### Necessity of the Package

The old channels were off take from the anicuts mostly runs along the contour and also are earthen channels. The damaged irrigation sluices, cross masonry structures and in weather portion of the main channels are being are Rehabilitated under the Amaravathi IAMWARM IV Phase already approved however the previous estimates the leading channel in old Amaravathi systems are lefted out. The leading channel of these old channels is runs adjacent of the river banks of Amaravathi river. At present in many places earthen bank between river and leading channels were eroded and become weaker. The existing protection walls are in leafy condition, Due to this leafage the channel is not able to carry the required quantity of water for the ayacut, thereby resulting in scarcity of supply, especially in the tail end area. Necessary

following provisions are given in this estimate for Rehabilitation of leveling channels by providing concrete protection walls.

- 1. Clearing the scrub jungle.
- 2. Removal of silt.
- 3. Retaining wall using M 10 Concrete
- 4. Providing Skin wall 20 Cm thick using M 20 Concrete

<u>PACKAGE NO.2:</u> Rehabilitation and Restoration of Dhalavaipattinam, Dharapuram and Kolinjivadi Leading Channel of Amaravathi river system in Dharapuram Taluk of Tiruppur District.

#### Estimate : Rs.291.00 Lakhs.

#### Necessity of the Package

The old channels were off take from the anicuts mostly runs along the contour and also are earthen channels. The damaged irrigation sluices, cross masonry structures and in weather portion of the main channels are being are Rehabilitated under the Amaravathi IAMWARM IV Phase already approved however the previous estimates the leading channel in old Amaravathi systems are lefted out. The leading channel of these old channels is runs adjacent of the river banks of Amaravathi river. At present in many places earthen bank between river and leading channels were eroded and become weaker. The existing protection walls are in leafy condition, Due to this leafage the channel is not able to carry the required quantity of water for the ayacut, thereby resulting in scarcity of supply, especially in the tail end area. Necessary following provisions are given in this estimate for Rehabilitation of leveling channels by providing concrete protection walls.

- 1. Clearing the scrub jungle.
- 2. Removal of silt.
- 3. Retaining wall using M 10 Concrete

4. Providing Skin wall 20 Cm thick using M 20 Concrete

# <u>PACKAGE N0.3:</u> Rehabilitation of Nallathangal odai Reservoir Main canal ,High level canal and Distributories in Dharapuram taluk of Tiruppur District. Estimate : Rs.449.00 Lakhs.

Nallathangal odai reservoir has 23km of Main canal , 1.75km of high level canal and 25.565km of distributaries. This canal is excavated as earthen canal, embankment portion in between LS 0/0 km to 10/000km has been provided with selective lining during the year 2004-05. And 10/0km to 23/0km has been provided to selective lining during the year 2007-08. Total length of lining provided is 4.500km.

Balance portion of earthen canal in Main canal, High level canal and distributaries were disturbed and is in standard section. Due to eroded earthen canal not able to carry over the water in tail end reaches. In order to improve the system necessary proposal have been formulated under Tamil Nadu IAMWARM project.Hence to upkeep and make good condition of Nallathangal Odai Resevoir Main canal, High level canal and distributaries estimate is prepared with the provisions listed below

#### **NECESSITY OF THE PACKAGE:**

Due to the ageing and continuous run of water the sides of the canal were eroded and the designed section completely disturbed. Due to this damaged condition the velocity of water in the distributaries considerably reduced and the tail end ayacut are not able to get adequate water. In order to restore the canals to its designed original standards and to upkeep the canal fit for carrying the designed discharge this estimate proposal has been formulated towards carrying out the following works towards\_rehabilitation of Nallathangal odai Reservoir main canal , high level canal and distributaries .

- 1. Clearing the scrub jungles
- 2. Desilting the main canal and Distributaries.
- 3. Lining the bed and sides of canal in cast in situ concrete with M15 concrete.
- 4. In Distributaries heavy cutting portion trough section is adopted with M15 concrete.
- 5. Provision for pipe culverts.
- 6. Provision for Transverse contraction joints, and porous plugs at 2.50m intervals and expansion joints at 15 m intervals.
- 7. Provision for strengthening the jeep track and spoil bank.
- 8. Provision for laying and fixing of demarcation stones and kilometer stones.

PACKAGE NO.4:Construction of protection wall from LS 11.00 km to LS 13.00 km in the left out reach of Dharapuram channel of Dharapuram Taluk of Tiruppur District. Estimate Amount: Rs.482.00 Lakhs

#### Necessity of this Proposal:

#### DHARAPURAM CHANNEL

The Dharapuram old channel is the 9<sup>th</sup> channel which takes off from Dharapuram anicut and the total length being 24.24 km with a register ayacut of 975.15 Ha. The channel also acts as a flood carrier during rainy season.

The Dharapuram channel has two surplus escapes one at LS 4.85 km and another at 10.30 km. The entire rain water from 1.25 sq.mile of upland drains directly to the Dharapuram earthen channel. It is also witnessed that the channel runs to the brim during rainy season and breaches has also occurred at one or two places in the recent years and causing damages to standing crops and inundation of the adjacent land.

Actual carrying capacity of the channel is 105 cusecs. Further the inflow into the Dharapuram channel has been analyzed and the flood water entering

the channel from LS 0.00 to 11.00 km are being safely let out into the Amaravathi river through the surplus escapes in addition to it rain water directly enter into the channel after eroding the earthen side embankment all along the channel in that reach. The area influencing the runoff was calculated as 1.25 sq.mile and taking the C-value has 300 and the maximum flood discharge works out 348 cusecs. The existing bed width of channel in between LS 11<sup>th</sup> km to 16<sup>th</sup> km varies from 9 m to 7.5 m, thus causing stagnation of water in that reach and resulting in outflanking of the channel and ultimately leading to breach of the supply channel.

The proposal of construction of protection wall from LS 11.00 km to LS 16.00 km in the left out reach of Dharapuram channel of Amaravathi River System in Dharapuram Taluk of Tiruppur District was placed for discussion to World Bank Consultant Mr.Malhotra and has instructed to study the proposal in detail on 20.11.2012 at Chennai.

After careful analysis and site inspection by the Executive Engineer and Superintending Engineer, it has been decided to provide Protection wall for maintaining the channel section to enable to carry the maximum designed discharge. Accordingly in this proposal, Protection wall in M15 as per design details provided by Chief Engineer, Design Research and Construction Support is contemplated for LS 11.00 to 12.50 Km for left bund and for LS 11.00 Km to 13.00 Km for right bund. Hence this estimate has been prepared with the following necessary provisions.

1. Clearing the scrub jungle.

2. Earthwork for foundation.

3. Construction of flood protection wall using M 15 Cement Concrete.

4. Supplying, fabricating and placing in position of steel for protection wall skin reinforcement.

5. Provision for Documentation charges photographic & video charges, Painting the hydraulic sign boards, Advertisement Charges, Documentation charges, Audit and account charges, Dewatering and water stop fixing charges. Unforeseen item, petty supervision charges and contingencies (2.5%)

6. Labour welfare fund (0.30%)

**PACKAGE NO.5:** Construction of protection wall from LS 13.00 km to LS 14.50km in the left out reach of Dharapuram channel of Dharapuram Taluk of Tiruppur District. Estimate Amount: Rs.318.00 Lakhs

#### DHARAPURAM CHANNEL

The Dharapuram old channel is the 9<sup>th</sup> channel which takes off from Dharapuram anicut and the total length being 24.24 km with a register ayacut of 975.15 Ha. The channel also acts as a flood carrier during rainy season.

The Dharapuram channel has two surplus escapes one at LS 4.85 km and another at 10.30 km. The entire rain water from 1.25 sq.mile of upland drains directly to the Dharapuram earthen channel. It is also witnessed that the channel runs to the brim during rainy season and breaches has also occurred at one or two places in the recent years and causing damages to standing crops and inundation of the adjacent land.

Actual carrying capacity of the channel is 105 cusecs. Further the inflow into the Dharapuram channel has been analyzed and the flood water entering the channel from LS 0.00 to 11.00 km are being safely let out into the Amaravathi river through the surplus escapes in addition to it rain water directly enter into the channel after eroding the earthen side embankment all along the channel in that reach. The area influencing the runoff was calculated as 1.25 sq.mile and taking the C-value has 300 and the maximum flood discharge works out 348 cusecs. The existing bed width of channel in between LS 11<sup>th</sup> km to 16<sup>th</sup> km varies from 9 m to 7.5 m, thus causing stagnation of water in that reach and resulting in outflanking of the channel and ultimately leading to breach of the supply channel.

After careful analysis and site inspection by the Executive Engineer and Superintending Engineer, it has been decided to provide Protection wall for maintaining the channel section to enable to carry the maximum designed discharge. Accordingly in this proposal, Protection wall in M15 as per design details provided by Chief Engineer, Design Research and Construction Support is contemplated for LS 13.00 to 14.00 Km for left bund and for LS 13.00 Km to 14.50 Km for right bund.

Hence this estimate has been prepared with the following necessary provisions.

1. Clearing the scrub jungle.

2. Earthwork for foundation.

3. Construction of flood protection wall using M 15 Cement Concrete.

4. Supplying, fabricating and placing in position of steel for protection wall skin reinforcement.

5. Provision for Documentation charges photographic & video charges, Painting

the hydraulic sign boards, Advertisement Charges, Documentation charges, Audit and account charges, Dewatering and water stop fixing charges. Unforeseen item, petty supervision charges and contingencies (2.5%)

6. Labour welfare fund (0.30%)

<u>PACKAGE NO.6:</u>Construction of protection wall from LS 14.50 km to LS 16.00 km in the left out reach of Dharapuram channel of Dharapuram Taluk of Tiruppur District. Estimate Amount: Rs.301.00 Lakhs.

#### DHARAPURAM CHANNEL

The Dharapuram old channel is the 9<sup>th</sup> channel which takes off from Dharapuram anicut and the total length being 24.24 km with a register ayacut of 975.15 Ha. The channel also acts as a flood carrier during rainy season.

The Dharapuram channel has two surplus escapes one at LS 4.85 km and another at 10.30 km. The entire rain water from 1.25 sq.mile of upland drains directly to the Dharapuram earthen channel. It is also witnessed that the channel runs to the brim during rainy season and breaches has also occurred at one or two places in the recent years and causing damages to standing crops and inundation of the adjacent land.

Actual carrying capacity of the channel is 105 cusecs. Further the inflow into the Dharapuram channel has been analyzed and the flood water entering the channel from LS 0.00 to 11.00 km are being safely let out into the Amaravathi river through the surplus escapes in addition to it rain water directly enter into the channel after eroding the earthen side embankment all along the channel in that reach. The area influencing the runoff was calculated as 1.25 sq.mile and taking the C-value has 300 and the maximum flood discharge works out 348 cusecs. The existing bed width of channel in between LS 11<sup>th</sup> km to 16<sup>th</sup> km varies from 9 m to 7.5 m, thus causing stagnation of water in that reach and resulting in outflanking of the channel and ultimately leading to breach of the supply channel.

After careful analysis and site inspection by the Executive Engineer and Superintending Engineer, it has been decided to provide Protection wall for maintaining the channel section to enable to carry the maximum designed discharge. Accordingly in this proposal, Protection wall in M15 as per design details provided by Chief Engineer, Design Research and Construction Support is contemplated for LS 14.50 to 15.30 Km for left bund and for LS 14.50 Km to 15.70 Km for right bund.

Hence this estimate has been prepared with the following necessary provisions.

1. Clearing the scrub jungle.

2. Earthwork for foundation.

3. Construction of flood protection wall using M 15 Cement Concrete.

4. Supplying, fabricating and placing in position of steel for protection wall skin reinforcement.

5. Provision for Documentation charges photographic & video charges, Painting

the hydraulic sign boards, Advertisement Charges, Documentation charges, Audit and account charges, Dewatering and water stop fixing charges. Unforeseen item, petty supervision charges and contingencies (2.5%)

6. Labour welfare fund (0.30%)

<u>PACKAGE NO.7:</u> Rehabilitation of Nanjaithalaiyur Anicut of Amaravathi River system in Amaravathi Sub Basin in Aravakurichi Taluk of Karur District. Estimate :Rs.150.50 Lakhs

#### Necessity of this Proposal:

#### Nanjaithalaiyur Anicut :

The Najaithalaiyur anicut is located at the L.S 141.40 Km of the river Amaravathi and constructed more than 150 years. From that Anaicut the river water is being diverted from the right side of the river to the Nanjaithalaiyur Channel through its leading channel. The total length of the channel is 9.957 Km. The total extent of ayacut irrigated by the channel is 494 acres. It is a contour channel with the ayacut lies between the channel and right bank of the river only.

The damaged irrigation sluices and cross masonry structures and weaker portion of the main channels are being rehabilitated under the Amaravathi IAMWARM IV phase already approved. However the previous estimate these old anicuts in Amaravathi systems are left out .

The anicut consists of body wall and downstream side apron formed by boulders. The heavy pressure of water flows induce friction over the main body wall of the anicuts and cause erosion in the mortar joints. Due to this, it is not possible to supply adequate water to the channels despite sufficient water is available at the Anicuts. The body wall and apron made of big boulders which are now disturbed and hence the water easily penetrate through body wall joints and leads leakage. Due to this leakage the channel is not able to carry the required quantity of water for the ayacut there by resulting in scarcity of supply, especially in the tail end area.

<u>PACKAGE NO.8:</u>Rehabilitation of vertical gates and Hoisting Arrangements to Chettipalayam Anicut of Amaravathi River system in Amaravathi Sub Basin in Karur taluk of Karur District.

Estimate :Rs.218.00 Lakhs.

### <u>NECESSITY OF THIS PROPOSAL:</u> CHETTIPALAYAM ANICUT

The Chettipalayam anicut constructed across the Amaravathi river at the L.S 197.20 Km of the river Amaravathi near Chettipalayam village in the year 1991. The Right bank canal off takes from the Right side of this anicut. The total length of the channel is 27.650 Km and having the bed width of 9.00 m. The discharge of the channel is 188 cusec and F.S.D is 1.2 m. Total extent of ayacut

irrigated by the channel is 5704 acres. It is a contour channel with the ayacut lies between the channel and right bank of the river only.

At Present all the Vertical Lift Gate arrangements and Hoisting arrangements and Shutters of Chettipalayam anicut are in damaged condition. The supply of water in Right Bank Canal is very much affected during the regulation. All the Shutter arrangements are to be renovated and Rehabilitated urgently ao as to maintain full supply in the channel effectively.so the renovation of shutters and hoisting arrangements are taken up to evaluate appropriate cost for each item of works.

The rehabilitation of right bank Canal has already been taken in stage I of IAMWARM project and the work is in progress and will be completed in this academic year. During Execution of Stage I of IAMWARM project it has been ascertained that the vertical lift gate arrangements of chettipalayam anicut has to be rehabilitated immediately and found most essential to maintain the system in good condition according this, estimate is prepared as stage II.

<u>PACKAGE NO.9</u>: Rehabilitation of Thamaraikulam Anicut,Supply Channel and Thadakulam Supply Channel of Palar Porundalar System of Amaravathi Sub-Basin in Palani Taluk of Dindigul District.

#### Estimate : Rs.598.00 Lakhs.

#### <u>Present Conditions and constraints in the System:</u>

Palar Porundalar is one of the systems in Amaravathi Sub Basin. This system consists of i)Left Main canal irrigating a new ayacut of 9600 Acres, ii) Thadakulam supply channel irrigating a old ayacut of 844 Acres. iii) Zamin Vaikal irrigating an old ayacut of 2093 Acres and iv) Anicuts in Palar & Porundalar rivers irrigating an old ayacut of 6370 Acres. The anicuts in rivers except Thamaraikulam anicut in Palar river and Left Main canal has been already taken up separately for rehabilitation. In this proposal rehabilitation of Thamarikulam anicut, supply channel and Thadakulam supply channel are taken.

To carry out the rehabilitation works, the World Bank consultant advised the field engineers to get design for the proposal made. Hence the Superintending Engineer, Design circle, Chennai and Executive Engineer, DRCS, Chennai visited the Thadakulam Channel and Thamarai Kulam Anicut on 24.11.2012 and inspected the trial pits dug at the sites.

Here, the supply channel is running to a length of 5560 m with gradient 1 in 500 and bed level of Thadakulam supply channel at take off to the distributaries is at lower level than the distributary level .Necessary heading up of the water at distributary location in the supply channel is required. The LS and CS has been taken up and details furnished to the Superintending Engineer,PWD,WRD, Design Circle, Chennai. The Chief Engineer, DRCS, Chennai has proposed the design details for small bed dams across the supply channel and distributary details with shutter arrangements to aid to control the flow to the distributaries and supply water to all the command area for the total length of supply channel ie 5560 M .It is Proposed to construct small bed dams at 10 Locations with 25 m retaining wall on either side along with distributary arrangements and at selective locations spur wall as designed by the Superintending Engineer, DRCS is proposed for a length of 1396 M out of a total length of 5560 M for heading up of water and efficient conveyance. Priority of the components to be carried out listed below:

1. Rehabilitation of Thamaraikulam Anicut.

2. Construction of Bed Dams and Distributaries in Thadakulam supply channel.

3. Desilting of Thamaraikulam supply channel.

4. Construction of Culverts and Retaining walls in Thadakulam and Thamaraikulam Supply Channels.

<u>PACKAGE NO.10</u>: Rehabilitation of Left out Non system tanks and Anicuts of Varathamanathi non system,Construction of check dam across Nallathangal odai near Kothayam Village and Construction of Cause way near Sangaramanallur anicut site of Amaravathi sub Basin in Oddanchatram,Palani taluk of Dindugal District and Madathukulam Taluk of Tirupur District.

#### Estimate : Rs.263.00 Lakhs.

#### Present conditions and constraints in the system :

This package estimate consists of 2 nos of non system tanks (list enclosed) having the total registered ayacut of 160.89 Ha. and their supply channels covered under Amaravathi sub basin . The present condition of the infrastructure has been inspected along with ryots representatives and line department officials by conducting walk through survey and the works to be carried out were suggested in stake holder meetings.

However reasonable representation of stakeholders are considered and proposed in this project. Priority of the components to be carried out listed below.

1. Rehabilitation of damaged tank sluices and weir

2. Raising and strengthening the tank bund and fixing the boundary stone.

3.Construction of Check dams in kothayam village.

4.Construction of cause way u/s ofsangaramanallur anicut in Kolumam village of Tiruppur District

To carry out the rehabilitation works, the world Bank consultant advised the field Engineers to get design for the proposals made. Hence the Superintending Engineer, Design circle, Chennai and the Executive Engineer, DRCS, Chennai visits the sites of Kothayam check dam, Porulur anicut and causeway near Sangaramanallur anicut on 24.11.12 and inspected the trial pits dug at the site.

#### <u>Tanks</u>

For many years together most of the tanks were not taken up for desilting and full standardization. They are seen silted up heavily so that they were not capable of storing the quantity of water that were designed to hold. In addition, due to poor standard of tank bund, water could not be stored up to FTL which results to further reduction in the original capacity. The water spread area is covered by scrub jungle which affects the environment.

The allied structures of some tanks such as sluices are in damaged condition which leads to heavy leakages encountering bottlenecks in control of water delivery to the command area. The sluices which are in complete dilapidated condition sometimes affect the tank bund also due to heavy leakages. The water loss due to uncontrolled delivery from the damaged sluices plays the major adverse roll in the cultivation statistics.

<u>PACKAGE NO.11:</u> Rehabilitation of Kodaganar Anicut, Lakshmanampatty Anicut, Boothipuram Anicut and Surplus Channel of Neelamalaikotai Tank of Amaravathi Sub Basin in Oddanchatram, Authoor, Vedasandur and Dindigul Taluks of Dindigul District.

Estimate : Rs. 193.00 Lakhs.

#### Present conditions and constraints in the system:

# <u>Neelamalaikottai Tank Surplus Channel, Boothipuram, Lakshmanampatti and Kodaganar Anicuts across Kodaganar River.</u>

1. Mangarai Minor Basin is one of the minor basin in Upper Kodaganar Minor basin. This Mangarai Minor Basin consists of Pudukulam Kombaiyar tank, Periykombaiyar tank, Chinnakombaiyar tank, Nayodai tank, Thethupatty tank and Neelamalaikottai tank. The surplus of all above tanks falls in Mangarai river, then confluence with Kodaganar River near Thadicombu village of Dindigul District at distance of 15km in the upstream side of Kodaganar Reservoir.

2. All the tanks in the above minor basin, except Neelamalaikottai tank is taken in the rehabilitation works under IAMWARM Project - Stage.I of Amaravathi Sub-Basin.

3. The third drop in the Surplus channel of Neelamalaikottai tank is under damaged condition and the surplus channel bund from LS 500m to 600m are under heavily eroded condition.

4. The above site was inspected by the Director SWaRMA during 29.11.2012 and instructed to restore the drop structure and downstream side eroded bund and instructed to obtain following design from Chief Engineer, PWD, WRD, DRCS, Chennai.

- i) Design of Drop and aprons with necessary ED arrangements and re-grading the surplus channel of Neelamalaikottai tank.
- Design of spur wall for approach bund in downstream of drop surplus courseof neelamalaikottai tank.
- iii) The site was inspected by the Superintending Engineer and as per Superintendent Engineer's Inspection notes after field verification the necessary design for skin wall for the leakages found in the Lakshmanampatti Anicut and 3 locations Kodaganar Anicut and four locations of Bhoothipuram Anicut and damaged body wall(built with bricks) in Bhoothipuram anicut across Kodaganar River are obtained.

#### Approved Designs and present proposals

1) Rehabilitation of Neelamalaikottai tank surplus channel third drop and spur wall for approach bund in downstream of drop surplus course is proposed to carried out as per approved designs of Chief Engineer, PWD, WRD, DRCS, Chennai.

- 2) Rehabilitation of skin wall for the leakages found in the Lakshmanampatti Anicut and three locations in Kodaganar Anicut and four locations of Boothipuram Anicut across Kodaganar River **as** per approved designs of Chief Engineer, PWD, WRD, DRCS, Chennai.
- 3) Rehabilitation of damaged body wall built with bricks in Bhoothipuram Anicut from L.S 0m to 68m as per approved designs of Chief Engineer, PWD, WRD, DRCS, Chennai..

The salient features and the hydraulic particulars of Irrigation structures are narrated in detail enclosed below.

Sl. No.	Component	Rehabilitation Proposal
1	Neelamalaikottai Tank Surplus Channel	Rehabilitation of III rd drop and Spur wall as per Chief Engineer, DRCS design details from L.S 500M to 600M
2	Bhoothipurm Anicut	Skin wall as per Chief Engineer, DRCS design details from L.S.90m to115m, 120m to135m, 150m to165m, 170m to185m and rehabilitation of body wall from LS 0m to68m of anicut
3	Lakshmanampatti Anicut	Skin wall as per Chief Engineers DRCS Design details from LS 0 to11m, 11m to 71.15m of anicut.
4	Kodaganar Anicut	Skin wall as per Chief Engineer, DRCS design details from L.S.22m to 32m, 37m to 47m, 61m to71m of anicut

<u>PACKAGE NO.12:</u>Rehabilitation of Alagarpudukulam Anicut and Protection walls in Santhanavarthini River in Vemparpatty village of Dindigul Taluk of Dindigul District.

Estimate : Rs.560.00 Lakhs. <u>PACKAGE NO.13:</u>Rehabilitation of Kattankulam Anicut and Protection wall in Santhanavarthini River in Avilipatti village of Dindigul Taluk of Dindigul District.

Estimate : Rs.540.00 Lakhs.

## Present conditions and constraints in the system : Santhanavarthini River.

Santhanavarthini is a tributary of Kodaganar originates from Sirumalai hills in Dindigul and confluences in Kodaganar at Thadikombu village in Dindigal and Kodaganaru finally merges in to Amaravathy at Karur in Karur District. The river has 13 anicuts.

The present condition of the infrastructure has been inspected by the superintending Engineer special project circle Palani and the Executive Engineer Nanganjiyar Basin Division along with farmers, representatives by conducting walk through survey and the following condition of the river are found and necessary inspections notes given to prepare necessary proposals.

- 1. The right side bund for length of 50m (from LS 1210m to 1260m) in the down stream of sedipatti bridge is heavily eroded
- The left side bund for length of 120m (from LS 2190 m to 2310m)in the down stream of Mottaya Goundanpatti Bridge from check dam down stream side is heavily eroded.

- The left side bund for length of 200m (from LS 3300m to 3500m) from 30m down stream of Alagarpudhukulam anicut is heavily eroded.
- 4. Alagarpudhukulam anicut is completely silted up and the shoal to be removed.
- 5. Down stream apron wearing coat is to be repaired.
- 6. Pointing to the RR masonry walls to be done.
- 7. In the down stream of Anicut, stilling basin is to be provided as energy dissipation.
- 8. The Ramp in the left side anicut is to be regraded with concrete for public convenience.
- The left side bund for length of 30m (from LS 5350m to 5380m) from 45m down stream of Thambinaickankulam anicut is heavily eroded. (Dhanapal Kannan Thottam)
- 10. Rehabilitation of damaged Kattankulam anicut to be done.
- 11. The left side bund for length of 100m (from LS 8150m to 8250m)of near Hokthottam is heavily eroded.
- 12. The left side bund for length of 150m (from LS 10620m to 10770m)near Rajamani thottam is heavily eroded.
- 13. The left side bund for length of 100m (from LS m to 9950m) near Ramakrishnan thottam is heavily eroded.
- 14. The left side bund for length of 50m (from LS 10940m to 10990m)near Ragalapuram Anicut is heavily eroded.

<u>PACKAGE NO.14</u>: Rehabilitation of Right Main canal from L.S 26.500km to 53.515km of Kodaganar Dam in Vedasandur and Aravakurichi Taluks of Dindigul and Karur District.

Estimate : Rs.81.00 Lakhs

#### Present conditions and constraints in the system :

- 1. The canal bed is silted up and jungles formed which affect the free flow of water.
- Construction of Retaining wall at LS 49078m to 49103 m, 49150m to 49350m and 45664m are to be provided.
- The plastering in the side walls of syphon at LS 29440m, 30721m, 31865m, 32904m, 36300m, 38015m, 39392m, 40517m, 44660m, 48305m, 49103m are to be re-plastered.

The above site was inspected by the Director SWaRMA during 29.11.2012 and instructed to carry out the minimal repairs and also instructed to obtain Design from the Chief Engineer, PWD, WRD, DRCS, Chennai.

# <u>PACKAGE NO.15:</u> Improvements to the Gauging Bridge at LS22317m,Reconstruction of Canal Syphon at LS 22933 m and LS 23658 m of Amaravathi Main Canal in Madathukulam Taluk of Tirupur District.

Estimate : Rs.155.00 lakhs.

#### **Necessity of this Proposal:**

During execution of the above works, it has been ascertained that some components such as the gauging bridge at LS 22137m the Canal syphons at LS 22933m and 23658m of Amaravathi Main Canal which were left out on priority basis are now requires rehabilitation and found most essential to improve the overall system efficiency. Though the stretch in AMC between LS 12.50Km and LS 46.50Km had already been taken up for rehabilitation under Phase IV of IAMWARM project, the components viz., Rehabilitation of 2 nos of syphons with bridge and 1 no of Gauging bridge were not contemplated earlier and hence taken up now in the left out proposals for rehabilitation.

#### 1.GAUGING BRIDGE AT LS 22137 M

The Gauging bridge at LS 22137 m is used for conducting gauging operation for measuring the flow in the main canal and for monitoring and efficient water management in order to maintain the adequate and assured water supply to the tail end reach.

Due to age and continuous usage, the above gauging bridge is become structurally weak and dilapidated and un safe for further use. Since the bridge is essentially required for conducting current meter velocity measurement it has been proposed to construct a new bridge with necessary measuring devices.

#### CANAL SYPHONS AT LS 22933 M & 23658M

The canal syphon have been constructed during the project period to cross the local odai with barrel length of 24.35m and 17.40 m and two vents of size 1.35m x 1.35m respectively . Subsequently one additional vent of size 1.35m x 1.35m has been constructed in both syphons. In order to have a continuous inspection track, a bridge has been constructed over the canal syphon for crossing the odai portion.

Due to age and continuous usage, the above canal syphons are become structurally weak and in dilapidated condition and considerable quantity of water is leaking through the sides of the barrel. Frequently the syphon is gets blocked since the vent size is small and having number intermediate piers. Due to the blockage, the water is suddenly heading up in upstream and over flowing and damaging the canal banks.

Every time the blockage is being removed with great difficulty by engaging more men and machinery and take time to clear completely. The flow in the canal is being affected and the tail end ayacut are get suffering. Hence, it is quit essential to reconstruct the above damaged syphons with bridge arrangements to improve the system efficiency and having efficient water management.

As per the agreed action plan with the World Bank implementation support mission, it has been proposed to takeup the above leftout works by utilising the savings in the project. Accordingly the proposal for reconstruction of the Gauging Bridge at LS 22137 m and canal syphons at LS 22933 m and 23658 m have been prepared.

# <u>PACKAGE NO.16:</u> Construction of Check Dam across Amaravathi River near Dharapuram Town of Dharapuram Taluk of Tirupur District.

Estimate : Rs.691.25 lakhs.

#### **Necessity of this Proposal:**

#### Introduction

Amaravathi river runs about 227.58 Km before conflicting to cauvery river. There are 16 Anicuts along river for irrigating 10222 Hec Ayacut.The river gradiant is genegly 1:863 but at Kolingivadi Anicut and Vattamalikarai Odai in fall Point the gradient is about 1:1420 generally thie location lies in semicritially Exploited area.As per the Chief Engineer Ground water report the are is recharge Pro are and suitable for check dam for recharging.To augument water for irrigation recharging at this Location will help in Congation of water for irrigation. An Check Dam at Dharapuram Towen is proposed . Which will improve Ground water Potential and help in maintaining ground water level.

The proposed check dam site across Amravathi river lies at a latitude of 10°43°56°N and a longitude of 77°32°02°E in SF.No 322 Dharapuram South of Dharapuram town in Dharapuram Taluk in Tiruppur District.

#### <u>Scope</u>

The proposed check dam site lies near Dharapuram at river L.s 65.75 Km which is classified as semi critically exploited ground watre zone as per G.O.M.S No. 52 Public works (R2) Department Date 02.02.2012.

Hence it has been proposed to carryout construction suitable recharge structures in suitable location to augment ground water potential. This particular site lies in favourable zone for recharge as classified in zonation map of ground water recharge. <u>PACKAGE NO.17</u>: Construction of Protection wall in Santhanavarthini River in Vemparpatty, Avilipatti and Veerachinnampatty villages of Dindigul Taluk of Dindigul District.

Estimate : Rs.581.00 Lakhs.

## Present conditions and constraints in the system : Santhanavarthini River.

Santhanavarthini is a tributary of Kodaganar originates from Sirumalai hills in Dindigul and confluences in Kodaganar at Thadikombu village in Dindigal and Kodaganaru finally merges in to Amaravathy at Karur in Karur District. The river has 13 anicuts.

The present condition of the infrastructure has been inspected by the superintending Engineer special project circle Palani and the Executive Engineer Nanganjiyar Basin Division along with farmers, representatives by conducting walk through survey and the following condition of the river are found and necessary inspections notes given to prepare necessary proposals.

- 1. The right side bund for length of 50m (from LS 1210m to 1260m) in the down stream of sedipatti bridge is heavily eroded
- The left side bund for length of 200m (from LS 2190 m to 2390m)in the down stream of Mottaya Goundanpatti Bridge from check dam down stream side is heavily eroded.
- The left side bund for length of 300m (from LS 3300m to 3600m) from 30m down stream of Alagarpudhukulam anicut is heavily eroded.
- 4. Alagarpudhukulam anicut is completely silted up and the shoal to be removed.
- 5. Down stream apron wearing coat is to be repaired.
- 6. Pointing to the RR masonry walls to be done.

- 7. In the down stream of Anicut drop Cutoff wall stilling basin is to be provided as energy dissipation
- 8. The Ramp in the left side anicut is to be regraded with concrete for public convenience.
- The left side bund for length of 30m (from LS 5350m to 5380m) from 45m down stream of Thambinaickankulam anicut is heavily eroded. (Dhanapal Kannan Thottam)
- 10. Rehabilitation of damaged Kattankulam anicut to be done.
- 11. The left side bund for length of 100m (from LS 8150m to 8250m) of near Hokthottam is heavily eroded.
- 12. The left side bund for length of 150m (from LS 10620m to 10770m) near Rajamani thottam is heavily eroded.
- 13. The left side bund for length of 100m (from LS 9850m to 9950m) near Ramakrishnan thottam is heavily eroded.

The left side bund for length of 50m (from LS 10940m to 10990m) near Ragalapuram is heavily eroded.

# LIST OF PACKAGES PROPOSED IN AMARAVATHI SUB BASIN

# UNDER PHASE-IV STAGE-II

Pakage. No.	Name of work	Est.Amount (in lakhs)
1	Rehabilitation and restoration of Komaralingam, Sholamadevi and Sarkarkannadipudur Leading channel of Amaravathi river system in Madathukulam Taluk of Tiruppur District.	130.00
2	Rehabilitation and Restoration of Dhalavaipattinam, Dharapuram and Kolinjivadi Leading Channel of Amaravathi river system in Dharapuram Taluk of Tiruppur District	291.00
3	Rehabilitation of Nallathangal odai Reservoir Main canal ,High level canal and Distributories in Dharapuram taluk of Tiruppur District	449.00
4	Construction of protection wall from LS 11.00 km to LS 13.00 km in the left out reach of Dharapuram channel of Dharapuram Taluk of Tiruppur District .	482.00
5	Construction of protection wall from LS 13.00 km to LS 14.50km in the left out reach of Dharapuram channel of Dharapuram Taluk of Tiruppur District.	318.00
6	Construction of protection wall from LS 14.50 km to LS 16.00 km in the left out reach of Dharapuram channel of Dharapuram Taluk of Tiruppur District.	301.00
7	Rehabilitation of Nanjaithalaiyur Anicut of Amaravathi River system in Amaravathi Sub Basin in Aravakurichi Taluk of Karur District.	150.50
8	Rehabilitation of vertical gates and Hoisting Arrangements to Chettipalayam Anicut of Amaravathi River system in Amaravathi Sub Basin in Karur taluk of Karur District.	218.00

	ehabilitation of Thamaraikulam Anicut,Supply	598.00
	hannel and Thadakulam Supply Channel of Palar	
P	orundalar System of Amaravathi Sub-Basin in Palani	
Т	aluk of Dindigul District.	
<sup>10</sup> R	ehabilitation of Left out Non system tanks and	263.00
A	nicuts of Varathamanathi non system, Construction	
O	f check dam across Nallathangal odai near Kothayam	
V	illage and Construction of Cause way near	
Sa	angaramanallur anicut site of Amaravathi sub Basin	
ir	n Oddanchatram,Palani taluk of Dindugal District	
a	nd Madathukulam Taluk of Tirupur District.	
	-	
	ehabilitation of Kodaganar	193.00
	nicut,Lakshmanampatty Anicut,Boothipuram Anicut	
	nd Surplus Channel of Neelamalaikotai Tank of	
	maravathi Sub Basin in Oddanchatram,	
	uthoor,Vedasandur and Dindigul Taluks of Dindigul Pistrict.	
	ehabilitation of Alagarpudukulam Anicut and	560.00
	rotection walls in Santhanavarthini River in	000.00
	emparpatty village of Dindigul Taluk of Dindigul	
	Pistrict.	
13 R	ehabilitation of Kattankulam Anicut and Protection	540.00
W	all in Santhanavarthini River in Avilipatti village of	
D	indigul Taluk of Dindigul District.	
<sup>14</sup> R	ehabilitation of Right Main canal from L.S 26.500km	81.00
to	53.515km of Kodaganar Dam in Vedasandur and	
	ravakurichi Taluks of Dindigul and Karur District.	
	mprovements to the Gauging Bridge at	155.00
	S22317m,Reconstruction of Canal Syphon at LS 22933	
	n and LS 23658 m of Amaravathi Main Canal in	
	Iadathukulam Taluk of Tirupur District. Construction of Check Dam across Amaravathi River	691.25
	ear Dharapuram Town of Dharapuram Taluk of	071.20
	irupur District.	
	construction of Protection wall in Santhanavarthini	581.00
R	iver in Vemparpatty,Avilipatti and	
	eerachinnampatty villages of Dindigul Taluk of	
D	Pindigul District	(004 <b></b>
	Total	6001.75

### OUTCOME INDICATORS

# The indicators for evaluating the performance of WRO are shall be evaluated from the following outputs:

- Fully merging the gaps
- Improving the strength and stability of irrigation infrastructures (Distribution and canal networks)
- Improving the conveyance efficiency and service delivery
- Strengthening the PIM activities

Besides this, the WRO is actively engaged in formation of WUAs as per TNFMIS Act 2000 and Rules by preparing the relevant documents such as maps showing the hydraulic boundary of WUA, land owners voters list etc.

To help in the above collection of data involving social and field activities, the services of Agricultural Extension Officers, SHGs etc., will be utilized. It is estimated that above 193 WUA hsll have to be formed in these Sub-Basin.

### **CONCLUSION**

After completion of this rehabilitation and improvement works, the system efficiency will immensely be improved for optimum distribution and equitable and assured water supply up to the tail end of the ayacut.

Further a sustainable development in the Irrigation Section will also be achieved in addition to better socio-economic development in the farming community and other urral village communities including generation of employment during the execution of the project.

All the rehabilitation works executed with multi displinary integrated and convergent approach will certainly facilitate achieving the project mission of more income per drop.

# **CONVERGENT TABLE- ABSTRACT (FOR EACH CLUSTER)**

SI	Number &	Tota	l Ayacut	t (Ha)	Total	Area (Ha)		WRI Activit		-	cultur ə	TN	IAU	Hor tu		mar	gri ketin g	A	ED		nerie s	Hus	mal ban ry
No.	Name of the cluster	FI	PI	Gap	Wop	WP	G a p	Activities	Length / Nos.	Act	No. / Ha	Ac t	No ./ Ha	Ac t	N o./ H a	Ac t	No. / Ha	Ac t	No. / Ha	Ac t	No. / Ha	Ac t	No ./ Ha
1	2	3	4	5	6	7	8	9		10	11	12	13	14	15	16	17	18	19	20	21	22	23
AMARA	VATHI MAI	IN CANA	L																				
1	<b>A</b> MC - ELAYAM UTHUR	274.7 6	99.3 3	36.00	374.09	410.090		RCSluice, ch.lining, St.banks , De.chl	18Nos 8500m. 8000 m 8500 m														
2	AMC - PERUMA LPUTHU R	355.9 8	98.0 75	61.92	454.055	515.975		RCSluice, ch.lining, St.banks , De.chl	9Nos 5480m. 5000 m 5480 m														
3	AMC – SAMARA PATTI	125.8 3	35.0 3	13.90	160.86	174.760		RCSIuice, ch.lining, RC drops St.banks, De.chl	10Nos 3600m. 3Nos 3600 m 3600 m														
4	AMC – REDDIP ALAYAM	372.9 6	82.8 8	62.16	455.84	518.000		RCSIuice, ch.lining, RC drops St.banks, De.chl	11Nos 6300 m 6300 m														
5	AMC - PAPPAN KULAM	205.2 5	83.6 8	26.84	288.93	315.770		RCSIuice, ch.lining, RC drops St.banks, De.chl	7Nos 6300m. 6Nos 6300 m 6300 m														
6	AMC – BOTHAN ACKIAN UR	177.2 1	53.1 65	22.78	230.375	253.155		RCSIuice, ch.lining, RC drops St.banks, De.chl	9Nos 4800m. 4Nos 4800 m 4800 m														
7	AMC - SALARA PATTI	269.2 9	93.8 4	44.88	363.13	408.010		RCSIuice, ch.lining, RC drops St.banks, De.chl	13Nos 5100m. 9Nos 5000 m 5100 m														
8	AMC – AGRAKA RA KANNAD APUTHU R	219.2 0	65.0 0	32.10	284.20	316.300		Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	16 Nos. 13 Nos 4404M 4404 M Nil 1 No. 8 Nos.														

							Pipe point Re sluice	16 Nos. 16 Nos							
9	AMC – VEDAPA	167.2	62.5	24.32	229.73	254.050	St.bund Lining	4280 M 4280M							
	TTI	1	2				Pipe culvert	Nil							
							RCC culvert Drops	1 No. 10 Nos.							
							Pipe point	16 Nos. 12 Nos							
	AMC –	212.1	47.3				Re sluice St.bund	2000 M							
10	MYVADI	5	6	28.33	259.51	287.840	Lining Dire subject	2000 M							
		Ū	Ŭ				Pipe culvert RCC culvert	Nil Nil							
							Drops	Nil		 	 		 	 	
							Pipe point Re sluice	16 Nos. 14 Nos							
	AMC –	291.9	90.9	04.44	000.04	447.050	St.bund	5560 M							
11	JOTHAM PATTI	0	4	34.41	382.84	417.250	Lining Pipe culvert	5560 M Nil							
	FAIL						RCC culvert	2 Nos.							
							Drops Pipe point	5 Nos. 16 Nos.			 		 		
							Re sluice	22 Nos							
12	AMC – THUNGA	229.6	100.	19.03	329.82	348.850	St.bund Lining	9100 M 9100 M							
	VI - I	8	14	10.00	020.02	040.000	Pipe culvert	Nil							
							RCC culvert Drops	2 Nos. 5 Nos.							
							Pipe point	16 Nos.							
	AMC –						Re sluice St.bund	7 Nos 4430 M							
13	THUNGA	278.1 4	51.4 0	23.08	329.54	352.620	Lining	4430 M							
	VI - II	4	0				Pipe culvert RCC culvert	Nil Nil							
							Drops	Nil							
	AMC –						Pipe point Re sluice	16 Nos. 20 Nos							
	KARATH	414.5	164.				St.bund	5715 M							
14	OLUVU –	2	89	39.27	579.41	618.680	Lining Pipe culvert	5715 M Nil							
	П						RCC culvert	3 Nos.							
							Drops Pipe point	29 Nos. 16 Nos.	 +	 	 		 	 	
							Re sluice	10 Nos							
15	AMC - PONNAP	242.9	91.2	19.03	334.14	353.170	St.bund Lining	4804 M 4804 M							
	URAM	2	2	13.00	004.14	555.170	Pipe culvert	2 Nos.							
							RCC culvert Drops	2 Nos. 29 Nos.							
							2.000	201100.							
							Pipe point	11 Nos.							
	AMC –						Re sluice	5Nos							
16	KANGAY	143.6	44.9	10.93	188.52	199.450	St.bund Lining	2290 M 2290 M							
	AMPALA	0	2	10.00	100.02	100.400	Pipe culvert	Nil							
	YAM – I						RCC culvert Drops	1 No. 17 Nos.							
							5,000								

							D' ' '	00.1	 	 	 	 	 	 	
17	AMC – KANGAY AMPALA YAM – II	276.4 5	108. 00	34.41	384.45	418.860	Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	23 Nos. 19 Nos 6605 M 6605M 1 No. Nil. 40 Nos.							
18	amc – Kangay Ampala Yam – III	233.5 9	71.3 4	24.29	304.93	329.220	Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	17 Nos. 12 Nos 4391 M 4391 M 3 Nos. 1 Nos. 40 Nos.							
19	AMC – SELLAM PALAYA M -I	206.8 8	51.7 1	28.75	258.59	287.34	Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	17 Nos. 10 Nos 4124 M 4124 M 2 Nos. 42 Nos.							
20	AMC – SELLAM PALAYA M -II	323.8 9	60.1 4	36.44	384.03	420.470	Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	12 Nos. 13 Nos 6181M 6181 M 2 Nos. 42 Nos.							
21	AMC – KANGAY AMPALA YAM – IV	211.5 5	74.6 7	29.52	286.22	315.740	Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	6 Nos. 14 Nos 3957M 3957 M 3 Nos. 1 Nos. 30 Nos.							
22	AMC – SINNAK AMPALA YAM -I	226.3 2	49.3 5	28.34	275.67	304.010	Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	5 Nos. 11 Nos 4319 M 4319 M 1 Nos. 32 Nos.							
23	AMC – SINNAK AMPALA YAM –II	246.5 7	51.8 8	29.65	298.45	328.100	point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	20 Nos. 43 Nos 6800 M 6800 M 2 Nos. 1No. 40Nos.							
24	AMC - SINNAK AMPALA YAM -III	251.4 6	93.4 3	36.44	344.89	381.330	Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	9 Nos. 13 Nos 5077M 5077M 1No. 1 No. 35 Nos.							

25	AMC – SINNAK AMPALA YAM –IV	375.6 1	82.6 6	99.19	458.27	557.460	Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	8Nos. 31Nos 14314 M 14314 M 1 No. 1 No. 42Nos.						
26	AMC - CHINNA PUTHUR	355.6 5	141. 70	80.97	497.35	578.320	Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	12 Nos. 25 Nos 5845 M 5845 M 1No. 1 No. 40 Nos.						
27	AMC – GOVIND APURAM - I	396.0 9	72.3 8	33.20	268.47	301.670	Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	8 Nos. 6 Nos 3266 M 3266 M 2 Nos. Nos 35 Nos.						
28	AMC – GOVIND APURAM – II	163.6 6	59.3 8	28.75	223.04	251.790	Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	8 Nos. 1 No 3144 M 3144 M 2 Nos. 1 Nos. 30 No.						
	GRAN	D TOTA	L		16230.565									
29	AOC – I RAMAKUL AM	457.70	80.0 0	22.40	537.70	560.100	 RCSluice, RC outlet, Rtn.Wall St.banks , De.chl	40 Nos 1 No. 870 m.  9991m						
30	AOC – II KALLAPUR AM	495.10	50.0 0	15.00	545.10	560.100	RCSluice, RC outlet, Rtn.Wall St.banks , De.chl	42 Nos 1 No. 570 m. 11335 m 11335 m						
31	AOC – III KOMARA LINGAM	431.51	61.0 0	17.00	492.51	509.510	RCSluice, RC outlet, Rtn.Wall St.banks , De.chl	53Nos 4 Nos. 630 m 13550 m 15500 m						
32	AOC – IV SARKAR KANNADI PUTHUR	230.40	24.1 0	13.00	254.50	267.500	RCSluice, RC outlet, Rtn.Wall St.banks , De.chl	64Nos 3Nos. 410 m 4100 m 11466 m						

	1					,	<b>D</b> 1 1		 		 	 	 	 	
	AOC – V						Re sluice	40 Nos							
		100.00	25.8	10.00			RC out let	1 NO							
33	SHOLAM	196.92	0	12.00	222.72	234.720	Rtn wall	200M							
	ADEVI		0				St.bank De.	4300 M							
							chl	7000 m							
	100 1/1						Re sluice	64 Nos							
	AOC – VI		57.8				Rtn wall	320 m							
34	KADATHU	374.38	7	41.65	432.25	473.900	St. Bank	10995M							
	R						De. Chl.	10995M							
			00.0				Re sluice	39 Nos							
35	AOC – VII	119.95	23.2	14.68	143.15	157.830	Rtn wall	200M							
	KANIYUR	110.00	0	14.00	140.10	107.000	St.bank	6310M							
							De. Chl.	8000m							
	AOC – VIII						Re sluice	69 Nos							
00		004.40	27.4	04.40	004 50	050.000	Rtn wall	590M							
36	KARATH	204.10	3	21.40	231.53	252.930	St.bank	10100m							
	OLUVU		5				De. Chl.	10100m							
							Do. on.								
	AOC – IX						Re sluice	60 Nos							
07		332.7	55.4	20.00	200 47	400 55	Rtn wall	225 M							
37	ALANGIY	2	5	38.38	388.17	426.55	St.bank	4230 M							
	AM	~	5				De.Chl	11265							
							00.011	М							
	AOC-X														
	THALAVA	297.9	49.0				Re sluice	40 Nos							
38	IPATTINA	8	3	30.17	347.01	377.18	Rtn wall	260M							
		Ö	3				St.bank	4000M							
	M														
							Re sluice	115							
	AOC - XI	758.0	136.				Rtn wall	Nos							
39	DHARAP			83.14	894.94	978.15		760M							
	URAM	7	94				St.bank	9550M							
	010 101						Dl.chl	9950M							
	AOC – XII	1005	405	404.4			Re sluice	110							
40	KOLINJIV	1005.	195.	104.4	1201.47	1305.95	Rtn wall	Nos							
40		58	89	8	1201.47	1305.95	St.bank	1305 M							
	ADI			Ū			St.bank	8900M							
							Re sluice	5 Nos							
	AOC – XIII	153.2	29.8				Rtn wall	370 M							
41	NANJATH	4	5	15.93	183.09	199.02	St.bank	6100 M							
	ALAIUR	4	5				De.Chl	6100 M							
							De.Cill								
	AOC –														
	XIV						Re sluice	10 Nos							
40		577.6	114.	60.40	604 00	760.00	Rtn wall	1030M							
42	CHINNAD	2	00	68.40	691.62	760.02	St.bank	12700M							
	HARAPU	<u> </u>	00				De.chl	12700M							
	RAM														
	AOC – XV	i i		İ											
			40 -				Re sluice	5 Nos							
43	SUNDAK	89.81	16.5	11.82	106.35	118.17	Rtn wall	300 M							
40	KAMPALA	09.01	4	11.02	100.35		St.bund	5400 M							
	YAM						De.chl	5400M							
	AOC –						Destrict	<b>E</b> NI							
	XVI	100.0	<u></u>				Re sluice	5 Nos							
44	NANJAKA	122.6	23.2	14.42	145.84	160.26	Rtn wall	550 M							
1 1 1	LAKURIC	1	3	11.72	110.04	100.20	St.bund	4900M							
							De.chl	4900M							
	HI														

45	AOC - XVII PALLAPA LAYAM	1086. 8	193. 05	150.1 5	1279.85	1430.00	Re sluice Rtn wall St.bank	8 Nos 1000 M 12530 M							
46	AOC – XVIII KOYAMP ALLI ,SOMUR	602.2 5	123. 75	99.00	726.00	825.00	Rtn wall De. Chl.	1130 M 1130 M							
47	AOC – XIX THIRUMA NELAYUR	842.7 6	187. 20	140.0 4	1029.96	1170.00	Re sluice Rtn wall St.bund 1130 M	21Nos 4080 M 7660 M 7660 M							
48	AOC – XX MAYANU R MANAVA SI	776.8 5	168. 06	165.0 9	944.91	1110.00									
GRAND	TOTAL					3023.59									

		AMAR	AVATHI RIV	/ER BASI	N ODAIS											
49	<b>VKO</b> – LAKKA MANAN ICKEN PATTI	1472.97	613.5	368.19	2086.47	2454.66	Su	Re sluice upply chl .desilt	2 Nos 38000 M							
50	<b>NTO -</b> ALAMA PALAY AM	ATTI <b>TO -</b> LAMA 1345.14 345.03 230.47 1690.17 19														
	NON	SYSTEM 1	ANKS OF A	AMARAVA	ATHI RIVER	BASIN										
51	UDAYA RKULA M	KULA 23.26 6.75 5.35 30.01 3						St.bund Rep.weir Rtn wall	902 M 1No 75M							

	KONGU															
52	R IDACHI KULAM	31.09	9.71	7.76	40.8	48.56		St.bund lining	1600 M 90M							
53	KATHU SAMY PALAY AM	40.69	12.70	10.16	53.39	63.55		St.bund	1050M							
			Palar Porun	dalar syst	em											
54	Porunda nKulam	45.00	3.00	3.84	48.00	51.84	-	St.bund Re.con-SL S.Repair Weir repair	1260m - 1no -							
55	Panchant hangiKula m	88.00	7.00	15.90	95.00	110.90	-	St.bund Re.con-SL S.Repair Weir repair	1215 m - 1no							
56	NaduKul am	39.50	2.50	7.35	42.00	49.35	-	St.bund Re.con-SL S.Repair Weir repair	637m - 1no							
57	AlanKula m	48.50	3.50	10.89	52.00	82.89	-	St.bund Re.con-SL S.Repair Weir repair	568 m - 1no							
58	Ammap atti kulam	317.00	28.	38	345	383.00	-	St.bund Re.con-SL S.Repair Weir repair	1900 m 1no 1no 1no							
59	Kumara samudr am	317.00	20.	50	0+0	555.00		St.bund Re.con-SL S.Repair Weir repair	1625 m 1No 1No 1No							

60	Thamar	004.00	04.00	00.05	000.00	004.05		St.bund Re.con-SL	2654 m 3 No						
	aikulam	281.00	21.00	29.85	302.00	331.85	-	S.Repair Re.Con. Weir	- 1no						
61	Sembak ulam	45.00	6.00	13.16	51.00	64.16	-	St.bund Re.con-SL S.Repair Rep.Anicut Weir repair Channel	1087 m 1No 1No 1No 1500m						
62	Senkula m	89.50	7.50	12.78	97.00	109.78	-	St.bund S.Repair Rep.Anicut Weir repair Channel	803m 1No 1No 8700m						
63	Alankul am	295.00	22.00	41.60	317.00	358.60	-	St.bund S.Repair Rep.Anicut Weir repair Channel	1087 m 1No 1No 7900 m						
	Pa	alar Porunc	lalar & Vara	athamanat	hi Non Syste	em									
57	Kullapp anaicke n kulam	42.00	8.00	18.95	50.00	68.95	-	St.bund S.Repair Weir repair	1050m 1No 1No 1No						
57	Bangar usamud ram	29.00	3.00	9.13	32.00	41.13	-	St.bund S.Repair Weir repair	565m 3No 1No						
57	Chinnak ulam	63.50	6.50	7.69	70.00	77.69	-	St.bund Re.con-SL	1125m 2No						
57	Mandha ikulam	61.00	7.00	24.45	68	92.45	-	St.bund S.Repair Rep.Anicut Weir repair Channel	1090 m 2No 1No						

50	1			1			1 1		4470		 	 1			 	
58	Pudkula m	57.60	8.50	23.56	66.00	89.58	-	St.bund S.Repair Rep.Anicut Weir repair	1470 m 2No 1No 1No							
58	Eravima ngalam	177.00	15.00	52.20	192.00	244.20	-	St.bund S.Repair	1550m 3No							
58	Sengula m	127.00	11.00	26.20	138.00	164.20	-	St.bund S.Repair Channel	1047m 2No 1000m							
58	Odaiyak ulam	61.00	7.00	24.45	68.00	119.00	-	St.bund S.Repair Rep.Anicut	1461m 2No 1No							
58	Athikari kulam	39.00	42.00	21.66	43.00	64.66	-	St.bund Re.con-SL S.Repair Weir repair	1503 m 1No 1No							
58	Sakkara i gounda n kulam	35.00	6.00	19.49	41.00	60.49	-	St.bund S.Repai ReCon Weir	1466m 4No 1No							
59	Zamin Anicut Channe I															
59	Tadakul am Channe I	370.93	10.00	4.00	380.93	384.93	-	Nil	Nil							
59	Thamar aikulam Anicut channel															
60	Kalaya mputhur Anicut channel	149.50	31.40	42.50	150.90	223.40	-	RC Anicut	186m 1No.							

61	Manur anicut channel	376.33	4.60	14.00	380.93	394.93	-	Nil	Nil							
62	Korikka davu Anicut channel	364.44	17.00	10.00	181.44	191.44	-	RW apron, RE Body wall	1No.							
63	Manur Extensi on Channe I	20.00	57.00	125.00	77.00	202.00	-	Nil	Nil							
64	Palar LS 0 to 6.30 Km	76.85	0.00	0.00	76.85	76.85	-	Liniing Trough and retaining wall	3100m 3200m							
65	Palar LS 6.30 Km to 13.36 Km	74.22	0.00	0.00	74.22	74.22	-	Lining bed and slope at selective portions	2900m 4760m							
66	Palar LS 12.96 Km to 16.88 Km	285.28	21.00	35.00	306.28	341.28	-	Lining bed and slope at selective portions								
67	Palar LS 16.88 Km	195.56	11.00	24.00	206.56	230.56	-	Lining bed and slope at selective portions								
68	Palar LS 16.600 Km to 16.88 Km	326.64	14.00	28.00	340.64	368.64	-	Lining bed and slope at selective portions								
69	Palar LS 18.320 Km	257.15	20.00	68.00	277.15	345.15	-	Lining bed and slope at selective portions								
70	Palar LS 18.320 Km to 22.600 Km	151.82	24.00	35.00	175.82	210.82	-	Lining bed and slope at selective portions								

	Palar															
71	LS 18.320 Km to 28.10 Km	464.52	26.00	47.00	490.52	537.52	-	Lining bed and slope at selective portions								
72	Palar LS 28.100 Km to 30.30 Km	183.07	35.00	42.00	212.07	260.07	-	Lining bed and slope at selective portions								
73	Palar LS 30.30 Km to tail end	970.89	69.00	400.00	1039.89	1439.89	-	Lining bed entire strech								
74	Periyak ulam	315.00	23.00	30.39	338.00			Bund Re/Sluice Re/SC De.chl	1619M 2No 4.96m							
74	Veerak ulam	71.00	5.00	7.77	76.00			Bund	747M							
74	Oomaik umara servaik aran kulam	15.75	1.50	0.00	17.25			Bund Re/Slu	1100M 2Nos							
74	Sodapp anaicke n kulam	19.00	2.49	0.00	21.49			Bund	482M							
74	ldumba nkulam	29.00	5.99	0.00	34.99			Bund Re/Slu	1321M 1No							
74	Kumara naicken kulam	41.00	3.41	0.00	44.41			Bund Re/Slu	605M 2Nos							
74	Mappill ainaicke n kulam	15.00	1.87	0.00	16.87			Bund Re/Slu	990M 2No							

74	Pappan kulam	101.00	9.00	16.48	110.00		Bund Re/Slu Re/Sc	1975M 3Nos 10No						
75	Devanai cken kulam	40.00	7.00	11.09	47.00		Bund Re/Slu	652M 1No						
75	Kallikka naicken pattikul am	40.00	2.10	0.00	42.10		Bund	1260M						
75	Thatta nkulam	33.00	2.36	0.00	35.36	35.36	Measuring devices	2 Nos						
75	Kurum bapatti kulam	25.00	3.51	0.00	28.51	28.51	Measuring devices	2 Nos						
75	Pattikul am	12.00	2.50	0.00	14.50	14.50	Measuring devices	2 Nos						
76	Palanip appan kulam	80.00	4.00	2.40	84.00		Bund Re/Slu	1980M 2Nos						
76	Vaiyapu rikulam	260.00	20.00	32.40	280.00		Bund Re/Slu RC/Slu Re/SC	2380M 1No 1No 5Nos						
76	Sirunaic ken kulam	51.00	3.45	0.00	54.45		Bund	1005M						
76	Pudukul am	125.00	9.50	15.26	135.00	150.26	Bund Re/Slu	2310 M 2Nos						
76	Sinnaku Iam	125.00	9.50	15.26	135.00	150.26	Measuring devices	2 Nos						

77	Kannadi perumal kulam	43.00		0	47.65	47.65	-	St.bund S.Repair	1333m 1No							
77	Periyaa yyam pullikula m	310.00	18.00	18.25	328.00	346.25	-	St.bund S.Repair Re.con-SL	1950m 2No 2No							
77	Chinna Ayyam pulli kulam	44.00	6.00	0.00	50.00			Bund Re/Slu	1115M 2No							
77	Periya Ottukul am	54.00	5.00	2.77	59.00			Bund Re/Slu	753M 2No							
77	Chinna Ottukul am	42.00	16.00	4.55	58.00			Bund Re/Slu Re/weir	768M 2No 1 NO							
78	Ayyank ulam	13.00	24.00	28.16	37.00			Bund Re/Slu	710M 2Nos							
79	Karisal kulam Senkul am	34.00	92.00	35.30	126.00			Bund	2800							
79	Karunk ulam	28.00	29.00	17.49	57.00	74.49		Measuring devices	2 Nos							
80	Karunk ulam	23.00	49.00	14.40	72.00	86.40		Measuring devices	2 Nos							
81	Pappa n channe I	260.00	12.00	2.60	272.00	274.60		RE sluice								
82	Periya voikkal channe I	170.00	15.00	10.28	185.00	195.28		RE Sluice								

83	Kothai Anicut channe I	103.86	15.00	37.08	118.86	155.94		RE Sluice							
84	Kallakk adu Anicut channe I uppuch etti anicut channe I	64.14	10.00	7.40	74.14	81.54		Nil							
85	Nagan valasu anicut	0	0	0	0	0	0	Nil							
85	Panch anthan gi Anicut	0	0	0	0	0		RE weir DE supply channel							
86	Semba kulam anicut	0	0	0	0	0		DE supply channel							
87	Muthuk ulam anicut	0	0	0	0	0		Nil							
87	Kothai amman anicut	0	0	0	0	0		Nil							
87	Sankar amanal lur anicut	0	0	0	0	0		RE weir RE apron							
88	Kuthira iyar RMC @ LS 0 to 3200	118.32	50.68	18.81	169.00	187.81		Nil							

89	Kuthira iyar RMC @ LS 3200 to 3976	324.02	138.76	51.51	462.78	514.29	Nil								
90	Kuthira iyar RMC @ LS 3976 to 6870	207.34	88.80	32.96	296.14	329.10	Nil								
91	Kuthira iyar RMC @ LS 6870 to tail dam	179.31	76.79	28.51	256.10	284.61	Nil								
92	Pudukul am Tank	103.99	11.37	0	115.363		Bund RC/Slu Re/We	1400m Nil 1No							
92	Ammak ulam Tank	26.36	2.6	0	29.283		Bund Re/Slu Rc/Slu	710m 1No 2No							
92	Rayakul am tank	36.15	3.95	0	40.1		Bund RC/Slu Re/We	784m Nil 1No							
92	Pancha nthangi Tank	123.35	13.48	0	136.836		Bund RC/Slu Re/We	1240m 3No 1No							
93	Sembak ulam	16.87	1.84	0	18.72		Bund Re/Slu Re/We	636m 1No 1No							
94	Muthuk ulam / ottukula m	94.00	9.00	9.02	103.00	112.02	ST. TB RE weir								
94	Kuyava n kuttaikul am	12.91	1.00	0	13.91	13.91	ST. TB RE weir								
94	Kothaia mmank ulam	125.00	15.00	15.96	155.96	155.96	ST. TB RC sluice RE weir RE sluice								

95	Peruma Ikulam	40.85	20.822	40.15	61.07	92.01	St.bund S.Repair Weir repair	1547M 1No 1 No						
95	Senkul am	18.41	11.5	16.11	28.91	41.4	St.bund S.Repair Weir repair	1461M 2 No 1						
95	Ramas amuthir am	16.39	10.24	14.34	26.63	36.87	St.bund S.Repair Weir repair	757M 2 No 1-						
95	Muthub oopala Sumudr am	17.81	11.13	15.58	28.94	40.07	St.bund S.Repair Weir repair	1225M 3 1						
95	Sadaya kulam	87.76	54.85	76.79	142.61	197.46	St.bund S.Repair Weir repair	2012M 3No 2-						

95	Javathupa tti Periyakula m	10.53	11.57	16.2	30.09	41.60	St.bund S.Repair Weir repair	1730m 1 2							
96	Kollapatti Tank	34.82	21.76	30.16	36.58	78.34	St.bund S.Reps Weir repair	1200m 2- 1-			1				
96	Navakani Tank	44.7	27.93	39.11	72.63	100.57	St.bund S.Repair. Weir repair	2000m 2- 1-							
96	Udiyakula m	26.37	18.48	23.07	42.05	59.33	Work not t	taken up							
96	Kaveriam mapatti periyakula m	17.28	10.80	15.12	28.08	38.88	ST TB RE slu	uice RE weir							
97	Appasamu dram	3.12	1.96	2.73	5.08	7.09	Work not t	taken up							
98	Perumalku lam supply channel	20.77	12.99	18.17	33.76	46.74	Desilting	-							
98	Ramasam udram supply channel	3.74	2.34	3.27	6.08	8.42	Desilting								
98	Javathupa tti anicut channel	46.88	34.28	36.19	31.22	105.67	Desilting								
99	Varadhag an anicut channel	0.00	2.00	5.01	2.00	6.81	Work not t	taken up							

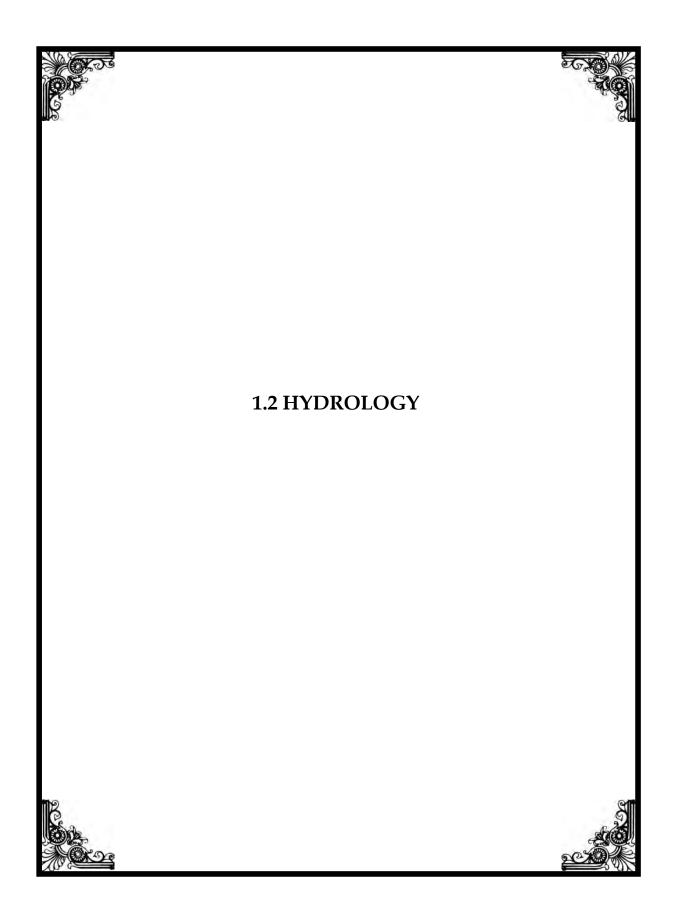
99	Koraiyouth u anicut channel	0.00	31.00	78.29	31.00	97.29	Work not taken	up by WRD							
99	Ottanai anicut channel	0.00	13.00	40.00	13.00	43.80	Work not taken	up by WRD							
99	Aravakurc hi anicut channel	0.00	12.88	26.00	12.68	15.66	Work not taken	up by WRD							
100	Nangajiyar Channel Idaiyakotta i	31.16	93.48	498.58	124.64	623.22	Work not taken	up by WRD							
101	Nangajiyar channel chinnkkam patti	7.79	29.37	124.64	31.16	152.80	Work not taken	up by WRD							
102	Nangajiy ar channel valayapa tti	14.12	39.13	225.98	53.25	279.23	Work not taken	up by WRD							
103	Nangajiyar channel senthama ngalam	73.55	220.66	1176.8 3	294.20	1471.0 3	Work not taken								
104	Pothakan moi	18.30	18.44	18.05	29.74	41.17	St.bund S.Rep. Weir repair	445m 1- 1-							
104	Anaikulam	24.96	15.8	21.84	40.58	50.16	St.bund S.Rp. Lining of channel Weir repair	2012m 4- 1500m 1 no							
104	Mullipadi Periyakula m	31.51	19.7	27.57	51.21	20.90	St.bund S.Rep Lining of channel Weir repair	1950m 4- 1410m 1no							

							Ct hund	1470m		 	1	 1		1	
104	Manthai Periyakula m	10.09	11.31	15.822	29.4	40.7	St.bund S.Rep Lining of channel Weir repair	1470m 4- 420m 1 no							
105	PadiurPeri ya Kulam	35.45	22.15	31.02	57.80	79.76	St.bund S.Rep Lining of channel Weir repair	1540m 1- 2515m 1 no							
105	Kulathur Periyasam udram	51.36	32.098	44.93	33.46	115.55	St.bund S.Rep Weir repair Lining of channel	2216m 4- 300m 1 no							
105	Marambad i Periya kulam	21.72	13.58	19.01	35.10	48.88	St.bund S.Rep Weir repair Lining of channel	1540m 1- 1no 1620m							
105	Velvarkott ai Periyakula m	18.92	11.83	18.55	30.75	42.57	St.bund S.Rep Weir repair Lining of channel	1074m 2- 1 no 2250m							
106	Pilathuma nthaikulam	20.40	12.75	17.35	33.15	45.9	St.bund S.Rep Weir repair	1792m 3- 1-							
106	Thennamp attimanthai kulam	29.22	18.26	25.68	47.48	85.75	St.bund S.Rep Lining of channel Weir repair	837m 4- 600m 1 no							
106	Vallakond ansamudu ram tank	40.66	25.411	36.571	86.07	99.4	St.bund S.Rep Lining of channel Weir repair	1740m 3- 2050m 1 no							
107	Rmamagiri tank	31.504	19.69	27.566	61.19	70.88	Work not taken	up by WRD							
107	Uthangarai yartank	20.40	12.75	17.35	33.15	45.90	Work not taken	up by WRD							

107	Sangalian kovil odai Tank	60.70	37.34	53.12	34.34	116.78	Work not taken	up by WRD						
108	Pagadai Kulam	34.87	21.79	30.51	56.66	78.99	St.bund S.Rep Weir repair	1230m 1- 1-						
108	Pilvettikula m	62.33	38.88	64.63	101.2 9	140.24	St.bund S.Rep Weir repair	1590m 2- 1-						
108	Aranmani Odai kulam	24.31	13.20	21.27	39.51	54.70	St.bund S.Rep Weir repair	1073m 3- 1-						
108	A.Vellodu Periyakula m	12.83	10.49	18.63	23.32	37.75	St.bund S.Rep Weir repair	1050m 5- 1-						
108	Rengasam udram	14.00	8.80	12.31	22.00	31.67	St.bund S.Rep Weir repair	1330m 2- 1-						
109	Kottur avarampat ti Thamariku am	35.06	21.91	30.68	56.97	78.88	St.bund S.Rep Lining of channel Weir repair	1005m 2- 2950M 1 no						
109	Brammasa mudram	27.1	16.94	13.72	44.04	80.98	St.bund S.Rep Weir repair	2370m 5- 1-						
109	Thamaraik ulam	85.36	53.35	74.69	138.7 1	192.06	St.bund S.Rep Weir repair	840m 4- 1-						
109	Muthanam patti kulam	23.82	14.89	20.84	38.71	53.59	St.bund S.Rep Weir repair	1700m 2- 1-						

109	Mangarai tank	19.59	12.24	17.15	31.83	44.08	St.bund S.Rep Lining of channel Weir repair	1200m 3- 1265M 1 no						
109	Kathirnara singaperu mal kulam	38.36	23.98	33.36	62.34	86.31	St.bund S.Rep Weir repair	1610m 3- 1-						
110	Pudukula m Kombaiyar tank	47.464	29.67	41.34	27.13	100.80	St.bund S.Rep Weir repair	840m 3- 1-						
110	Kadirayan kualm Kulam	27.22	17.38	24.33	45.20	62.58	St.bund S.Rep Weir repair	1450m 3- 1-						
110	Thethupatt i Tank	47.92	25.57	35.8	66.49	92.06	St.bund S.Rep Lining of channel Weir repair	1005m 2- 2550M 1 no						
110	Chinnako mbaiyar tank	31.51	20.94	29.12	54.45	75.39	St.bund S.Rep Weir repair	1100M 2- 1-						
110	Periyakom paiyar tank	226.71	141.69	198.87	361.4	510.00	St.bund S.Rep Weir repair	480m 1- 1-						
111	Nayodai tank	143.02	37.31	0.00	185.3 3	185.33	Work not taken	up by WRD						
111	Ramakkal odai & Anaivilund anodai tank	86.48	21.21	0.00	107.6 9	107.89	Work not taken							
111	Neelamala ikottai tank	29.14	18.21	27.5	47.35	65.58	Work not taken	up by WRD						

111	Nagasamud ram	19.84	12.40	19.31	32.24	40.64	Work not taken up by WRD							
112	Kodaganar Dam LMC 0-6800M	157.71	0.00	17.52	167.7 1	157.71	Work not taken up by WRD							
113	Kodaganar Dam RMC 0-6000M	347.73	0.00	38.568	347.1 1	347.11	Cross masonry works only							
114	Kodaganar Dam RMC 6000- 12470M	265.527	0.00	29.503	265.5 3	265.53	Cross masonry works only							
115	Kodaganar Dam RMC 12470- 17450M	126.216	0.00	14.024	126.2 2	126.22	Cross masonry works only							
116	Kodaganar Dam RMC 17450- 23500M	440.379	0.00	48.931	410.3 8	440.38	Cross masonry works only							
117	Kodaganar Dam LMC 6800-9400	401.05	0.00	44.56	401.0 5	401.05	Work not taken up by WRD							
118	Kodaganar Dam RMC 23500- 24080M	942.89	0.00	104.76	942.8 9	942.89	Cross masonry works only							
119	Kodaganar Dam RMC 24080- 26560M	599.12	0.00	66.61	599.9 2	599.92	Cross masonry works only							
120	Uppar Right Bank canal	406.31	355.52	253.95	761. 83	1015.78	Prec.slab lining cast in situ lining St.bund Repair slu.	1070 m 4870 m 6745 m 5 Nos						
121	Uppar Left Bank canal	574.65	502.83	358.17	1074. 48	1438.66	cast in situ lining St.bund Repair slu Rep. Drop	8450 m 9575 m 8 Nos 7 Nos.						



#### 1.2. HYDROLOGY

#### 1. 2.1 <u>GENERAL</u>

The Amaravathi dam was constructed at about 335 metres above MSL for conserving the surplus water which was otherwise going as waste into the river Cauvery. The dam was commissioned in the year 1958 – 59. The Amaravathi Reservoir Project envisages stabilising the existing irrigation (Wet) to an extent of 11893 ha and also creating an additional irrigation facility to about 10223 ha. The dam is a composite masonry and earthern dam with a live storage capacity of 110m cum.

At 75% dependability the reservoir gets three fillings in a year. The reservoir inflows from South-West monsoon are not materially different from these of North – East monsoon. Both monsoons contribute equally to the inflows. However the command area gets substantially more rainfall by North-East monsoon than by South – West Monsoon.

#### 1. 2.2 <u>LOCATION</u>

The Amaravathi Sub Basin is one of the oldest system in Tamil Nadu providing irrigation facilities for double crop paddy and Sugarcane.

The river Amaravathi which originates in the western Slopes of Moonar hills of Kerala area is one of the main tributaries of river Cauvery. After its origination from Moonar, it traverses a length of about 192 Kms and joins Cauvery river at Thirumukudal near Mayanur, in Karur Taluk of Karur District. The river covers Tiruppur, Dindigul, Karur Districts. The river Amaravathi is a perennial one as it originates from Western Ghats and is fully utilized throughout its entire course. The Latitude 10°,29' and Longitude 77°, 10'.

#### 1. 2.3 CATCHMENT AREA OF AMARAVATHI SUB-BASIN

The Amaravathi SubBasin has a typical climate, owing to the major catchment area in the Western Ghats and the total catchment area is 2988.37 Sq.Km. Amaravathi catchment area gets substantially more rainfall by North-East monsoon than by South – West Monsoon.

#### 1. 2.4 HYDRO METEOROLOGY

The Hydro Meteorology parameters include rainfall, temperature, humidity, wind velocity, evaporation and duration of sun shine which determine the climate of the basin.

#### 1. 2.5 <u>RAIN FALL</u>

Average annual rainfall of gauging stations influencing this sub basin is as <u>follows</u>

Name of Rain gauge Station	North East Monsoon	Summer	South west monsoon	Annual
Amaravathi Nagar	453	139	133	725
Dharapuram	363.07	182.66	100.07	645.80
K. Paramathi	345	175.5	95.5	616
Palani	301.5	112.29	356.38	770.17
Alagapuri	414.86	170.24`	169.35	754.45

#### 1. 2.6 <u>CLIMATE</u>

The Amaravathy sub basin area is considered to be in equitable climate with cool winter and warm to hot in summer. The minimum temperature is 19.32c during January and the maximum temperature is 38.98 C during may.

#### 1.2.7 SOIL CLASSIFICATION

In this sub basin, due to different stages, Weathering & parent material, the soil types are met with in combination of Inceptisol, Alfisol and Vertisol. More prominent type is Inceptisol.

Inceptisol	Red or brown or grey soil with	Suited for commonly
	surface horizon more developed	grown crops with
	than sub surface. They are	exceptions
	developing soils, moderately	
	deep, coarse loamy to loam	
	moderately drained to well	
	drained	
Alfisol	The red or brown soils having	Annual crops with
	accumulation of alleviated clay in	shallow roots systems
	sub surface horizon it well	cum up wells
	drained, poor water and nutrient	
	holding capacity.	
Vertisols	Black soil	Suitable for cotton,
		Pulses etc

## 1. 2.8 LAND HOLDINGS

The details of farm holdings and size classes prevalent in Amaravathi Sub basin are given below

## FOR AMARAVATHI SUB BASIN:-

Category	Size of	Numbers	Percentage
	holdings		
Marginal	Below 1.00 Ha	26010	40.5%
Small	1.00 <b>-</b> 2.00 Ha	19266	30.00%
Medium	2.00 – 5.00 Ha	11972	18.65%
Big	5.0 ha & above	6972	10.85%
Total		64220	

Above table revealed that the marginal farmers alone accounted for 40 percent in the Sub basin followed by small farmers. Developmental initiatives will be establishment in marginal and small farmers

# 1. 2.9 DEMOGRAPHY

	Total	Total No.	Population					
Name Of Sub Basin	No. Of Blocks	Of Villages	2001	2011	2025			
Amaravathi Sub basin	20	143	1529007	1544144	1559431			

## 1. 2. 10 LIVE STOCK - POPULATION:-

Name of Sub basin	Cattle	Buffalo	Sheep	Goats	Pigs	Dogs	Others	Poultry			
Amaravathi Basin	24664	34781		129204							
Monthly	MCum										

## 1. 2.11 INDUSTERIES & MONTHLY WATER DEMAND

Name of Sub	Maj	or Indu	stries	Sr	nall Indu	ıstries	Water Requirement				
basin	2004	2010	2025	2004	2010	2025	2004	2010	2025		
Amaravathi Sub Basin	15	16	20				468	492.37	615.46		

			CR	OPPING	PATTERI	N				
Name of the sub						Fully			35694.2	
Basin		Amaravathy				Irrigated		:	9	На
Nodal		: Dindigul (Consolidated				Partially				
District		)				Irrigated		:	8575.78	На
Registere d Ayacut		53334.22	Ha			Can			9064.15	На
Area :		53334.22	⊓а.			Gap Total		:	9064.15	па
No. of WU	IAs :					Ayacut Area	:		53334.2 2	На
S.No.	Crop	FI V	/ithout Pr Pl	oject RF/G	TOTAL	FI	With P	RF/G TOTAL		Increas -ing
	Perennial	ГІ	FI	KF/G	TOTAL	ГІ	FI	KF/G	TOTAL	-ing
-	crop									
1	Coconut	3663.64	3634.83	0	7298.47	7977.85	0	0	7977.85	679.38
2	Mango	1899.48	319.39	0	2218.87	2303.87	0	0	2303.87	85.00
3	Guava	138.68	0	0	138.68	158.68	0	0	158.68	20.00
4	Amla	168.41	0	0	168.41	198.41	0	0	198.41	30.00
5	Moringa	470.00	185.92	0	655.92	1165.13	0	0	1165.13	509.21
6	Cocao	19.42	0	0	19.42	19.42	0	0	19.42	0
7	Tamarind	443.84	0	0	443.84	443.84	0	0	443.84	0
8	Fodder Grass	10.00	6	0	16.00	26.00	0	0	26.00	10.00
9	Flowers	0	0	0	0	20.00	0	0	20.00	20.00
10	Gloriosa suberba	470.00	0	0	470.00	470.00	0	0	470.00	0
11	Agathi	1.00	0	0	1.00	3.00	0	0	3.00	2.00
	Total	7284.47	4146.14	0	11430.6 1	12786.2 0	0	0	12786.2 0	1355.59
II	Annual Crop									
1	Sugarcane	3671.94	927.00	0	4598.94	4545.00	0	0	4545.00	-53.94
2	Banana	561.94	0	0	561.94	616.62	0	0	616.62	54.68
3	Turmeric	200.00	0	0	200.00	500.00	0	0	500.00	300.00
4	Tapioca	400.00	0	0	400.00	1020.00	0	0	1020.00	620.00
5	Tobacco	163.82	0	0	163.82	165.00	0	0	165.00	1.18
6	Kolukattai Grass	5.00	0	0	5.00	10.00	0	0	10.00	5.00
	Total	5002.70	927.00	0	5929.70	6856.62	0	0	6856.62	926.92
III	1st crop									
1. a	Paddy	9048.19	0	0	9048.19	0	0	0	0	- 9048.19
b	Paddy SRI	0	0	0	0	8900.00	0	0	8900.00	8900.00
2	Maize	8360.97	145.62	0	8506.59	9750.00	0	0	9750.00	1243.42
3	Cumbu	48.96	0	0	48.96	49.00	0	0	49.00	0.04
4	Cholam	1116.61	2134.33	0	3250.94	3280.00	0	0	3280.00	29.06

5	Pulses	968.24	676.83	0	1645.07	3350.00	0	0	3350.00	1704.93
6	Groundnut	1696.31	195.74	0	1892.05	2300.00	0	0	2300.00	407.95
7	Gingelly	0	71.00	0	71.00	75.00	0	0	75.00	4.00
8	Sunflower	186.59	25.12	0	211.71	270.00	0	0	270.00	58.29
9	Cotton	109.56	0	0	109.56	150.00	0	0	150.00	40.44
10	Chillies	192.00	0	0	192.00	840.00	0	0	840.00	648.00
11	Bhendi	63.05	0	0	63.05	155.00	0	0	155.00	91.95
12	Brinjal	75.05	0	0	75.05	195.00	0	0	195.00	119.95
13	Tomato	607.58	0	0	607.58	1230.00	0	0	1230.00	622.42
14	Califlower	18.08	0	0	18.08	120.00	0	0	120.00	101.92
15	Onion	858.32	0	0	858.32	1475.00	0	0	1475.00	616.68
16	Beans	47.62	0	0	47.62	150.00	0	0	150.00	102.38
17	Fodder Cholam Fodder	2.00	254.00	0	256.00	256.00	0	0	256.00	0
18	Maize	8.00	0	0	8.00	20.00	0	0	20.00	12.00
19	Non Agri. purposes	0	0	1126.4 1	1126.41	0	0	1126. 41	1126.41	0
20	Fallow	0	0	7937.7 4	7937.74	0	0	0	0	- 7937.74
	Total	23407.12	3502.64	9064.1 5	35973.9 1	32565.0 0	0	1126. 41	33691.4 1	- 2282.50
IV	Grand Total (I+II+III)	35694.29	8575.78	9064.1 5	53334.2 2	52207.8 1	0	1126. 41	53334.2 2	0
	2 nd crop									
1. a	Paddy	3328.01	0	0	3328.01	0	0	0	0	۔ 3328.01
b	Paddy SRI	0	0	0	0	4100.00	0	0	4100.00	4100.00
2	Maize	1967.00	2703.10	0	4670.10	6000.00	0	0	6000.00	1329.90
3	Cholam	1106.72	0	0	1106.72	1350.00	0	0	1350.00	243.28
4	Cumbu	467.41	0	0	467.41	550.00	0	0	550.00	82.59
5	Pulses	448.00	8294.17	0	8742.17	10325.0 0	0	0	10325.0 0	1582.83
6	Groundnut	1136.77	0	0	1136.77	1850.00	0	0	1850.00	713.23
7	Sunflower	165.36	0	0	165.36	400.00	0	0	400.00	234.64
8	Cotton	260.70	0	0	260.70	300.00	0	0	300.00	39.30
9	Chillies	187.31	0	0	187.31	230.00	0	0	230.00	42.69
10	Bhendi	73.72	0	0	73.72	75.00	0	0	75.00	1.28
11	Brinjal	106.01	0	0	106.01	140.00	0	0	140.00	33.99
12	Cauliflowe r	30.02	0	0	30.02	30.00	0	0	30.00	-0.02
13	Tomato	266.58	0	0	266.58	1035.00	0	0	1035.00	768.42
14	Onion	394.65	0	0	394.65	780.00	0	0	780.00	385.35

Total	10014.10	10997.2 7	0	21011.3 7	27240.0 0	0	0	27240.0 0	6228.63
Great Grand Total	45708.39	19573.0 5	9064.1 5	74345.5 9	79447.8 1	0	1126. 41	80574.2 2	6228.63
Cropping Intensity				122.40%				148.96%	
EE (WRD)	1	JD (AH)		TNAU		DD (Horti)		JD(Agri)	

#### GOVERNMENT OF TAMILNADU Public Works Department Water Resources Department To

From

#### Er. K.R. Govindaraju, ,B.E.,F.I.E.,

Chief Engineer & Director, WRD Institute for Water Studies,PWD, Tharamani, Chennai 600 113. Email Id: <u>ceiwswrd@gmail.com</u> Ph:044-2254 2380, 2254 2674 Fax: 044-2254 2360.

#### **The Executive Engineer,WRD,** Public Works Department, Nanganjiyar Basin Division, Palani.

### Letter No. / IAMWARM /IWS /2011 /dt.23.11.2011.

Sir,

- Sub : IAMWARM Project IV. Phase Sub Basins Amaravathi sub basin DPR Preparation – Water Balance Statement and Crop Water Requirement for with Project and without project– Reg.
- Ref : CE, IWS Lr.No. IAMWARM / 2011 dated 03.11.2011 addressed to Nangajiyar Basin Division, Palani.

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With reference to the letter cited above, the details of Crop Water Requirement – Without Project and with project are furnished for Amaravathy Sub Basin of Cauvery Basin.

Encl: 8 Pages

Sd / ..... Chief Engineer & Director, Institute for Water Studies, Tharamani, Chennai 600 113.

## AMARAVATET SLICEMEN, CALVIER AND

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	Sease of Coop	Area in The	Crop scalar injunction of	Total Crop maller requirement	Inseption outer requirement in control EDP42%	Tabl Indadas National I
1	Persided Crops	1 million (1			1	
1	is capit	1144	1606	106.00		2715
2	H4 00	7218.57	+42	2940	0.76	87
•	1 mail	126,68		1.01	3.57	
	Ande	198.11		1.04	2.06	- 41
•	Marine ph.	1.5 %	10	147	3,91	19
•	15mm	1937		103	AIS	
÷.	Description of the second s	<b>PIX</b>	20	1496	30	11
*	Pinking Shares	1610		2.03	15.43	
	Platent		902	3,690	1423	
-	there and a second second	570.0	-670	319	11	73
н.	April 1	. 1.60	167	30000	140	
	Sale Tanat	11036		Listen and States	100,17	
н.	Second Congre				1	
۲.	Augustan .	4555.91	2500	110.00	76 P	297.3
2)	diment.	361.81	210	14.814	12.10	25
	liamer.	200.00	180	6.073		10
	Lagrance.	1000	- 0	741	18	50
8	Indeed to	161.83		1.14	1.71	17
	Red alias bet	- V#	18	1.015	8.00	10
	New Total	202.3		193.65	28.40	308.4
н	tu Crip					
	Pake	8.0.5		98.500	231,47	2164
	Party STE	6.00	111	1,000	0.00	-
2	Have	\$18.55	÷X6	34,026	1811	10.0
2	Careto -	-4.8	408	LIN	0.45	114
	Chi den	3341,52	100	12.95	0.0	
5	hallen i	1645,07	24	1111	1995	9.9
6	Incident	1892.05		119	77.80	21.8
7	lange ly			110	0.23	0.25

LNo	mane of the	ine in	Expenses repairment intern	Telefitivey MERF Hepditological In New	Indigation mater Super-constant Super-constant of	Tela" Inspirates Spirates Vice
10	Parcenter Comp.		-			
11.	Coordinate	10000		115.72		371
2	Marp	22168	402	\$120		
64	George .	115.65		10.5	1904	
4	Anta	168.4)	-624	0394	116	20
4	Vielege	\$552	- 26	1404	800	- 24
6	Cacao	19.42		90.4	0.15	8
4.	Taxatind	10.5		1.84	141	14
	Fedder Cetter	1640	10	1000	036	
	Nores.	0	10	1100	0.00	01
10	Circle and a fit	1144	1430	5,340	104	. 0
11	April	18	151	6002	5.8	1
	Sab Total	1120.01	2	(35.20	106.75	283
1	Animal Graph			1000		-
1	Sagarcare	318.32	238	04294	267,16	180.0
2	Daniel	8134	33	14,049	12/61	-11
3	Tarriele	230,00	3.2	1.73	1.00	
-	Taglace	406.06	\$26	2.152	110	10
1	Toblace	163,52	-43	8,701	191	14
	Kolekator	5,06	100	100	10.0	
	Salethill	5828.78	1.1	111.10	10.541	3854
ш	at ep	100.000				-
14	Fadily	SHELH	110	5410	730.47	101.4
	Faddy Sol	10	21	100	0.90	63
7	Main	89.014	-	1100	75.13	20
1	Carlo	6659	-	2.126	0.46	-
4	Ories	141.42	40	12.5%	30.13	141
4	Nikes	1445.07	293	-500	6.54	
	in state	1852.05	50	243	200	
	Gently	71.00	150	0.00		

AWARAVA DIV SUDDASIN - CALVERY DAMAS

E.

13	Sec. if here	Area te	Coursely repleased in cas	Para Corp. Note: Populacingat In Nam	forigities weight requirement at feases 60 - 10%	Terd Inighter New
6	Renamal Crops	1.00				-
Ē.	Canada	1296.62	140	10.00		201
2	Marght	22 847	10	- 2,518	20.34	
3	Owner	10.85		0.255	0.63	
4	Ant	102-0	326	0.865	2.00	
5	North	600.00	292	1.679	1.81	
	Come	15.42	36	0.015		- N
9	Internal	440.34	.190	1266	1.0	7
	Epider Univ.	16.00	414	- 670	6.14	
	Down				218	A.
iii.	Clarkes reports	478.06	1.0	1100	1.32	
ir.	Aptil	144	(8)	0.0	8.08	
	Auto Travel	114.8.51	_	10.3	363.77	369.
11	Anamati Crope					_
15	Suprant.	1948.44	194	1605	267.35	267.
1	Common .	941.148	28.0	14,045	32.67	322
1	Networks	3010		0.724	1.68	13
4	Deploca	1010	578	2,152	1.60	
٩.	Colescer.	16122	453	0.757	121	
٠	Col Magai	5,00	30	0.015	641	
	Stat Type I	4129,73		132,65	10.0	100.
щ	Lit Crop					
La.	***	5045.10	100	99,510	241.11	1941
1	And Ski	0.00	770	6.804		
2	of all the second secon	8586,29	100	HAN	11.04	79.
3	finds.	-	18	1.55	1.4	P
4	Option	1211.56	18	17 44	18.15	38.1
5	Pictor.	1011-01	19	418	3.96	9.5
6	Order In A	1007.01		5463	22.08	324
2	Glandy	71.8	19	6107	425	41

AMARACATHY SUB RASK . CAUSINY RASK

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sagd and

10         100/0         100 <td></td>	
In         Index         NO	
1 n         Fady         620         100         non         non         non           2         Mala         41000         173         61035         440         5657           2         Mala         41000         173         61035         440         5657           2         Mala         41000         173         61035         440         5657           3         Mala         41000         66         2.400         412         411           4         10400         5500         480         4.40         412         417           4         10400         520         474         412         417           5         Dependent         10400         520         474         416         116           4         Saffaer         6000         520         474         116         116         116           7         Saffaer         6000         520         474         116         112         116         112           8         Saffaer         6000         600         600         112         112         112         112         112         112         112         112         112	

#### GOVERNMENT OF TAMIL NADU

#### Public Works Department Water Resources Department

То

From

#### Er.K.R. Govindaraju, B.E., F.I.E., Chief Engineer & Director, WRD

Institute for Water Studies, PWD, Tharamani, Chennai 600 113. Email Id: <u>ceiwswrd@gmail.com</u> Ph: 044-2254 2380, 2254 2674 Fax: 044-2254 2360

#### 1. The Executive Engineer, WRD, Public Works Department, Amaravathy Basin Division, Karur.

2. The Executive Engineer, WRD, Public Works Department, Nanganjiyar Basin Division, Palani.

#### Letter No. /IAMWARM/IWS/2011/ dt. 05.12.2011

Sir,

Sub: IAMWARM Project – IV Phase Sub basins - Amaravathy Sub basin DPR Preparation – Water Balance Statement (with project and without project) - Reg.

Ref: (1) T.O. Lr. No./ IAMWARM/ IWS/ 2011 dt. 3.11.2011 (2) T.O. Lr. No.50 / IAMWARM/ IWS/ 2011 dt. 23.11.2011

The details of Crop Water Requirement (Without Project and With Project) have been already furnished for Amaravathy Sub basin of Cauvery Basin vide this office letters cited first and second.

\*\*\*\*\*

Based on the data received, Water Balance Statement (with project and without project) for Amaravathy Sub Basin has now been furnished.

Encl: 2 Pages

Chief Engineer & Director, IWS, Tharamani, Chennai -113.

Copy to

- 1. The Project Director, MDPU, IAMWARM Project, Chepauk, Chennai-5.
- 2. The Chief Engineer, PWD, Coimbatore Region, Townhall, Coimbatore.

### **AMARAVATHY SUB BASIN - CAUVERY BASIN**

#### WATER BALANCE WITHOUT PROJECT

### Water Potential without Project

Surface Water Potential	=	911.14	Mcm	
Ground Water Potential	Ground Water Potential			Mcm
<b>Total Potential</b>		=	1391.69 N	Icm
Water Den	nand withou	<u>t Project</u>		
Domestic		=	178.65	Mcm
Livestock		=	56.86	Mcm
Industrial		=	15.00	Mcm
Irrigation	WRO	=	1233.18	Mcm
	PU	=	29.70	Mcm
Total Water Demand		=	1513.39	Mcm

Water Balance (Without Project)	=	-121.70	Mcm
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#### AMARAVATHY SUB BASIN - CAUVERY BASIN

#### WATER BALANCE WITH PROJECT

### Water Potential with Project

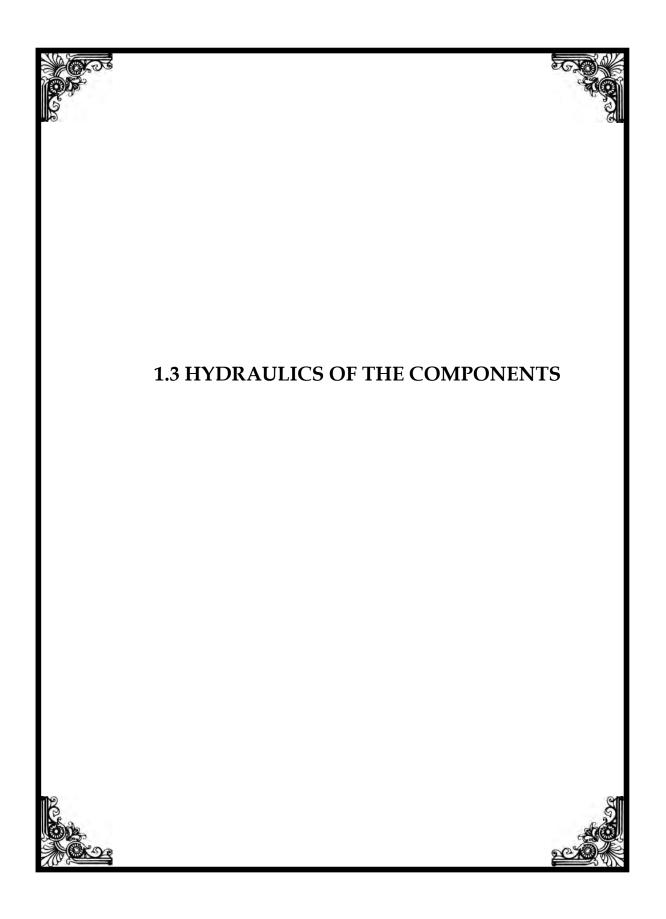
Surface Water Potential	=	911.14	Mcm
Ground Water Potential	=	480.55	Mcm
<b>Total Potential</b>	=	1391.69 M	lcm

#### Water Demand with Project

Total Water Demand		=	1321.83	Mcm
	PU	=	29.70	Mcm
Irrigation	WRO	=	1041.62	Mcm
Industrial		=	15.00	Mcm
Livestock		=	56.86	Mcm
Domestic		=	178.65	Mcm

Water Balance	(With Project)	=	69.86 Mcm
---------------	----------------	---	-----------

Chief Engineer & Director, IWS, Tharamani, Chennai -113.



### AMARAVATHI SUB BASIN PHASE-IV STAGE-I Package No. 1 to 3 / ASB/NCB/2011-12 b) AMARAVATHI MAIN CANAL FROM MILE 0/0 TO 39/2 (NEW IRRIGATION)

Sl. No.	Reach	Bed Width in feet	F.S.D. Ft.	Free Board Ft.	Side slope	Area in Sq.ft	Wetted perimeter	Bed fall	Velocity	Discharge in C/s
1	2	3	4	5	6	7	8	9	10	11
1	0/0 to 8/0	26'.0"	5.0'	1'.0"	2:1	180.00	48.36	1/5000	2.80	504
2	8/0 to 9/0	26'.0"	5.0'	1'.0"	2:1	180.00	48.36	1/5000	2.80	504
3	9/0 to 12/0	25'.0"	4.75'	1'.0"	2:1	163.88	46.24	1/5000	2.69	441
4	12/0 to 18/0	25'.0"	4.50'	1'.0"	2:1	153.00	45.12	1/4400	2.81	430
5	18/0 to 22/0	22'.0"	4.25'	1'.0"	2:1	129.63	41.00	1/3520	2.99	388
6	22/0 to 31/0	20'.0"	4.25'	1'.0"	2:1	121.13	39.00	1/3520	2.95	358
7	31/0 to 34/0	19'.0"	4.0'	1'.0"	2:1	108.01	36.89	1/3520	2.90	310
8	34/0 to 35/1-500	19'.0"	3.25'	1'.0"	1½:1	59.31	33.53	1/3520	2.75	148
9	35/1-500 to 36/0	12'.0"	3.0'	1'.0"	1½:1	54.00	25.41	1/3520	2.55	76
10	36/0 to 37/0	8'.0"	2.75'	1'.6"	1:1	29.56	15.78	1/3520	2.11	63
11	37/0 to 39/2	5'.0"	2.0'	1'.6"	1:1	11.00	10.66	1/3520	1.66	24

### AMARAVATHI SUB BASIN PHASE-IV STAGE-I PACKAGE No.4 to 12&22/ ASB / NCB / 2011-12 <u>HYDRAULIC PARTICULARS</u>

### a) AMARAVATHI OLD CHANNEL SYSTEM

S1. No	Name of the Channel	Length of Anicut M	Length of the Channel K.M	Discharg e Cumec.	F.S.D. M	Size of Head Sluice MXM	Total Ayacut Ha	Distance From Amaravathi Dam K.M	Re marks
1	Ramakulam Channel		9.991	0.849	0.914	1.828x1.828	560.10	Taking off from earth	
2	Kallapuram Channel		11.335	0.849	0.914	1.828 x1.828	560.10	dam right flank	
3	Kamaralingam Channel	204.825	15.691	1.132	0.914	1.600 x 1.076	509.510	8.045	
4	Sarkarkannadi puthur Channel	91.44	11.466	0.556	0.762	1.676 x 0.609	267.50	16.09	
5	Sholama devi Channel	219.456	7.164	0.765	0.701	1.524 x 0.457	234.72	15.688	
6	Kadathur Channel	227.99	11.667	1.557	0.731	2 x1.828x0.609	473.90	19.509	
7	Kaniyur Channel	176.784	8.045	0.490	1.036	2.134x0.457	157.83	20.515	
8	Karatholuvu Channel	No Proper anicut the existing rocky serves for sufficient diversion	12.472	0.765	0.792	2.134x0.457	252.93	22.224	
9	Alzangiam Channel	228.600	11.265	1.125	0.792	3.200 x 0.686	426.55	30.571	
10	Dhalavaipattinam Channel	134.112	11.332	0.991	0.975	1.372 x0.914	377.18	31.778	
11	Dharapuram Channel	198.12	24.139	2.970	1.066	2x2.134x0.762	978.15	35.197	
12	Kalingivadi Channel	544.00	24.541	3.681	1.066	3x2.438x0.838	1305.95	39.018	
13	Nanjathalaiyar Channel	237.439	9.957	0.523	0.71	2x1.219x0.686	199.92	85.478	
14	China Daharapuram Channel	447.446	21.122	2.152	1.2	3x1.219x1.076	760.02	88.696	
15	Sundakkampalayam Channel	266.466	7.638	0.306	0.68	1.524x1.076	118.17	95.333	
16	Nanjakkalakurichi Channel	277.368	10.178	0.566	0.6	2x1.327x0.609	106.26	106.998	
17	Pallapalayam Channel	577.784	37.615	5.35	1.20	4x1.37x0.609	2292.20	113.434	
18	Chettipalayam Channel	225	26.800	5.49	1.20	2x1.52x3.05	2230.28	117.457	
19	Uppar-Right Flank Main Canal		12.470	2.13	1.22		1016		
20	Uppar-Left Flank Main Canal		17.290	3.02	1.22		1437		

#### AMARAVATHI SUB BASIN PHASE-IV STAGE-I Package No:13&14 /ASB/NCB/2011-12

#### SUPPLY CHANNELS / CANALS HAVING DIRECT AYACUT

#### Palar Porundalar System - shanmuganathi minor basin- Amaravathi sub basin

Hydraulic Particulars of Left Main canal

Slno	Name of supply	Start po	oint	End pc	oint	Length in KM	Bed width(m)	FSD (M)	Free Board(m)	Bed fall 1 in	Side slope	Velocity M / sec	MFD Cumecs
	channel	Location	sill level	Location	sill level							,	
1						0.000 - 6.600	6.40	1.00	0.30	4065	1;1	0.52	4.13
2						6.600 -10.400	5.60	1.00	0.30	5280	1;1	0.52	3.18
3						10.400 -10.800	3.05	1.00	0.30	2640	1;1	0.79	3.18
4		E		palani		10.800 -11.640	5.60	1.00	0.30	5280	1;1	0.52	3.18
5		ar da		age,		11.640 -13.040	3.05	1.00	0.30	2640	1;1	0.79	3.5
6	LEFT MAIN	ndal	.180	/ villa	510	13.040 -16.840	5.60	1.00	0.30	5280	1;1	0.52	3.2
7	CANAL	Palar Porundalar dam	329.3	Melkaraipatty village,	322	16.840 -18.520	4.30	1.00	0.30	5280	1;1	0.52	2.43
8		alar		caraij		18.520 -20.000	2.75	1.00	0.30	3960	1;1	0.53	1.72
9				Melk		20.000 -21.400	2.74	1.00	0.30	3960	1;1	0.53	1.72
10				W		21.400 -24.880	2.74	1.00	0.30	5280	1;1	0.46	1.49
11						24.880 -28.700	2.50	1.00	0.30	5280	1;1	0.45	1.35
12						28.700 -30.080	2.20	1.00	0.30	5280	1;1	0.43	1.14

### AMARAVATHI SUB BASIN PHASE-IV STAGE-I Package No:15 /ASB/NCB/2011-12

					(	(A) ⊦		LIC PART			ICUTS(sys	stem)								
				Pala	r porunda	alar S	System -S	Shanmug	ganathi	minor b	asin- Ama	aravathi s	ub ba	sin						
	rt			nt	iicut		nt	kn K	od	Ition		ε	scs		Su	upply ch	annel			
Claro	Name of Anicut	Village	Ayacut(Ha)	Length of Anicut	Crest level of anicut (M)	Front(M)	Free catchment sq.km	Combained sq.km	Maximum Flood discharge cusecs	Head sluice Location	Vent(M)	Sill level of sluice M	Discharge cusecs	Lengt		Bed width (m)	FSD	Bed fall (m)	Sluice	Remarks
1	Tamaraikula m anicut	Tamaraikulam	10.84	96.70	313.760	_	99.99	99.99	7914	Just left side	2 nos 1.7x0.95 m	<b>ت</b> 312.425	196	Length 1500	Reach —	5.00	1.05	1 in1560	1	
	Kalavaranthur									At LS	2 nos				0 to 1350	6.00	1.10	1 in 8050		
2	Kalayamputhur anicut	Kalayamputhur	223.40	186.50	301.820	-	279	279	13582	311M	1.2x0.65 m	301.220	106	1945	1350 to 1945	4.00	1.00	1 in 3250	11	
															0 to 1000	7.00	1.70	1 in 1800		
															1000 to 2000	8.00	1.10	1 in 4450		
3	Manur	Manur	394.93	292.00	292.180		497.30	497.30	20942	Just Right	3 nos 1.98x0.76	291.375	198	4450	2000 to 3000	6.00	0.90	1 in 1310	12	
	'anicut	Waltu	354.55	292.00	292.180	-	497.30	497.30	20342	side	m	291.375	190	4450				1 in 1950	12	
															3000 to 4450	6.00	1.00			

															0 to 340	4.00	0.95	1 in 7560	
															340 to 3340	3.75	1.00	1 in 4920	
										Left	1 no.				3340 to 3847	3.00	0.80	1 in 1670	
1   <sup>1</sup>	Korikkadavu anicut	Korikkadavu	183.45	116.00	281.350	-	596	596	22531	flank of anicut	1.53 x 0.92 m	280.335	75	7800	3847 to 5400	2.75	0.80	1 in 1350	23
															5400 to 6225	2.00	0.60	1 in 1300	
															6225 to 7800	1.22	0.90	1 in 560	
															0 to 911	5.00	2.00	_	
	Keeranur									At LS	3nos.				911 to 3000	4.00	0.60	1 in 1045	
5	anicut	Keeranur	-	502.70	275.050	-	8.567	8.567	23637	911M	1.34x1.08 m	271.390	177	7900	3000 to 6300	3.00	0.70	1 in 1120	23
															6300 to 7900	2.75	0.75	1 in 1275	

					045						SUB BAS							_		
SI. No.	District	TALUK	Name of tank	AYACUT (Ha.)		ACITY .cum) tj. W	No.of filling	Free catchment in sq.km	Combained catchment in sq.km	Water Spread Area (Ha.)	FTL (m)	MWL (m)	TBL (m)	No.of sluice	Length of surplus arrangement (m)	Dicharge in Cusecs	Length of bund in M	Length of supply channel (m)	Upper tans	Lower tanks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1			PorundanKulam	51.84	0.31	10.98	_	_	_	57.94	331.950	332.550	333.450	2	Nil	Nil	1260	7000	Nil	Nil
2			PanchanthangiKulam	110.90	0.47	16.49	-	_	_	57.94	331.950	332.550	333.450	1	Nil	Nil	1215	7000	Nil	Nil
3			NaduKulam	49.35	0.07	2.61	_	_	_	57.94	331.950	332.550	333.450	1	Nil	Nil	637	7000	Nil	Nil
4			AlanKulam	62.89	0.02	0.53	-	_	_	57.94	331.950	332.550	333.450	1	Nil	Nil	568	7000	Nil	Amm a patti tank
5	Dindigul	Palani	Ammapattykulam	383.00	0.78	27.56	5.52	2.722	28.72	34.34	323.965	324.565	325.815	2	6.99m surplus sluice	1115	1916	7000	AlanKula m	Kumara samudra m tank
6	_		Kumarasamudram				5.50	2.865	21.72	22.79	323.965	324.565	325.815	2	35m wier	1137	1625	7000	Amma patti tank	Nil
7			ThamaraiKulam	331.85	1.53	54.03	4.48	1.840	1.840	89.91	313.410	313.860	315.360	5	9.2m weir L/F	509	2654	1500	Nil	Nil
				001.00	1.00	01.00			1.010	00.01	010.110	010.000	010.000	0	5.40M weir R/F	330	2001	1000		
8	Dir	P	SembaKulam	64.16	0.39	13.914	4.25	5.180	5.180	38.42	291.080	219.680	292.930	2	41m Natural escape	1003	1087	4450	Nil	Nil
9	Dindigul	Palani	SenKulam	109.78	0.17	6.109	2.50	2.435	2.435	18.70	279.115	279.515	280.515	1	35.35m weir	402	803	7800	Nil	Nil
10			AlanKulam	358.60	0.87	30.653	5.00	8.567	8.567	47.57	273.840	274.440	275.940	1	51.3m weir	1589	1825	7900	Nil	Nil

#### (B) HYDRAULIC PARTICULARS SYSTEM TANKS IN PALAR PORUNDALAR SYSTEM IN SHANMUGANATHI MINOR BASIN – AMARAVATHI SUB BASIN

				(C) SUPPLY CHA	ANNELS HAVI		AYACUT (Sys	tem)					
			Pal	ar Porundalar system	- Shanmugana	athi minor ba	sin - Amarava	athi sub bas	sin				
SIn	Name of supply	Start poin	t	End poin	t	Leng	th in M	Bed	De el fell	Cida alam		Depth	Damarda
о	channel	Location	Sill Level M	Location	Sill Level M	Length (M)	Reach	width	Bed fall	Side slope	MFD (cusecs)	of flow	Remarks
1	Zamin voikkal	Up strem of palar dam(Foot of hills @ Porundalar )	340.19	Near Alankulam tank(Periamma patti)	328.450	7000	_	4.00	_	1;1	110	1.10	
2	Kalayamputhur anicut	Near Kalayamputhur	301.220	Tail dam near	301.110	1945	0 to 1350	6.00	1 in 8050	1;1	111	1.10	
	channel	village (Porundalar)	501.220	Pethanaicken patti	501.110	1945	1350 to 1945	4.00	1 in 3250	1;1	101	1.00	
3	Tamaraikulam anicut channel	Near Balasamudram village(Palar)	312.425	Tamaraikulam Tank	300.150	1500	1500	5.00	1 in1560	1;1	196	1.05	
							0 to 1000	7.00	1 in 1800	1;1	194	1.70	
4	Manur anicut channel	Manur village	291.375	sembakulam tank @	289.580	4450	1000 to 2000	8.00	1 in 4450	1;1	198	1.10	
		(Shanmuganathi)		Thumpalapatti			2000 to 3000	6.00	1 in 1310	1;1	196	0.90	
							3000 to 4450	6.00	1 in 1950	1;1	192	1.00	
							0 to 340	4.00	1 in 7560	1;1	75	0.95	
							340 to 3340	3.75	1 in 4920	1;1	77	1.00	
		Korikkadavu village		Senkulam tank @			3340 to 3847	3.00	1 in 1670	1;1	73	0.80	
5	Korikkadavu anicut	(Shanmuganathi)	280.335	Korikkadavu village	278.585	7800	3847 to 5400	2.75	1 in 1350	1;1	75	0.80	
							5400 to 6225	2.00	1 in 1300	1;1	74	0.60	
							6225 to 7800	1.22	1 in 560	1;1	72	0.90	
6	Manur Extension channel	sembakulam tank @ Thumpalapatti	291.080	Akkaraipatty village	280.560	6200	_	1.00	1 in 3250	1;1	20	0.90	
		1	1		1	1			1				

							( <b>A)</b> H	YDRAU	JLIC F	PARTIC	ULARS	NON SY	STEM 1	<b>AN</b>	<u> </u>					
			<u>PA</u>	ALAR I			AR SY	STEM	IN SHA		GANATH	I MINOR	BASIN	- AM	ARAVA	THI SUE	BAS	IN		
SI. No	District	TALUK	Name of tank	AYACUT (Ha.)	CAPA (m.c Wn:C		No.of filling	Free catchment in sq.km	Combained catchment in sq.km	Water Spread Area (Ha.)	FTL (m)	MWL (m)	TBL (m)	No.of sluice	Length of surplus arrangement (m)	Dicharge in Cusecs	Length of bund in M	n of supply channel (m)	Uppe r tans	Lower tanks
						_					10	10		4.5				Length of		~
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1			Kullappanaickenkula m	68.9 5	0.09 6	3.3 7	9.86	1.07 7	1.07 7	31.5 0	334.78 0	335.38 0	336.63 0	1	13m weir	361.9 8	105 0	150 0	Nil	Aranmanaipudukula m
2			BangaruSamudram	41.1 3	0.10	3.5 4	10.0 0	7.77 0	7.77 0	13.7 2	325.00 0	325.30 0	326.80 0	3	29.57 m	316	565	_	Nil	cinnakulam
															29.26 L/F By wash	68			ullitank, Iudram laikulam	mal
3	Dindigul	Palani	ChinnaKulam	77.6 9	0.10	3.6 4	12.5 0	1.37 3	2.22 9	15.0 0	319.03 0	319.56 5	320.56 5	2	surplus siuice 1.22m@ LS 972 m	519	112 5	_	cinna Ayampullitank, Bangarusamudram tank,Katteripillaikulam	Manthaikulam
															38m L/F by wash	673			dram kulam, n	
4			ManthaiKulam	92.4 5	0.19	6.7 6	6.50	1.28 0	4.41 2	21.5 0	312.04 5	312.58 0	313.58 0	2	surplus siuice 2 nos.@ LS 880 & 1090 m R/F	76	109 0	290 0	Bangarusamudram tank,Katteripillaikulam, Cinnakulam	_

### Package No:16 /ASB/NCB/2011-12

5			PuduKulam	89.56	0.44	15.40	3.85	20.87	20.87	45.06	327.470	328.220	329.470	2	28.9m weir L/ F 18.50m weir@ LS 566M	2133	1470	3300	Nil	Odayakulam
6			Ervimangalamkulam	244.20	0.83	29.35	3.00	0.719	0.716	37.64	328.000	328.450	329.950	3	18.3m weir cum tambogi	307	1550	1300	NIL	Odayakulam
7			SenKulam	164.20	0.20	7.10	10.00	0.508	0.508	16.27	323.980	324.430	325.680	2	3.1m out let	109	1047	2140	Nil	Odayak ulam
8			OdayaKulam	119.07	0.72	25.57	3.00	9.355	1.050	58.30	313.870	314.470	315.720	2	32.5m long weir with 5 vents	2236	1461	1540	senkuları tamı, pudukulamtank, Eravimangalam tank.	Nil
9	Dindigul	Palani	AthikaraiKulam	64.66	0.43	15.19	2.00	0.451	2.377	28.78	313.355	313.805	315.055	4	14.2 m weir with vent	563	1503	Nil	Odayakulam	Sakkarai KoundanKulam
10			Sakkarai KoundanKulam	60.49	0.56	19.85	1.32	3.020	2.084	34.69	310.890	311.340	312.840	4	10.81m out let with 3 vents	895	1466	Nil	Odayakulam, Athikarikulam	Nil

#### HYDRAULIC PARTICULARS VARADHAMANAHTHI SYSTEM - SHANMUGANATHI MINOR BASIN - AMARAVATHI SUB BASIN

# (B) NON - SYSTEM TANKS

Sl. No	District	Taluk	Name of Tank	Ayacut in Ha	Capacity in Mcft	Number of Fillings	Free catchment in SqKm	Combined Catchment in Sq.Km	Water spread area (Sq.Km)	FTL in M	MWL in M	No.of Sluices	Ler	os and ngth of ir (m) Eußth II. Teugath	Discharge in Cusecs	Length of bund (M)	Length of Supply Channel (M)	Upper Tank	Lower Tank
19			Kannadi Perumal kulam	47.649	4.45	4.50	0.52	0.520	0.1280	348.355	348.735	3	1	32.20	442.49	1333	730		Varattar River
20			Periya Ayyampulli kulam	346.25	39.90	3.00	1.14	1.140	0.5470	339.430	340.040	4	1	49.90	1518.54	1950	5520	_	Pappan kulam, Perya ottukula m
21	Dindigul	Palani	Chinna Ayyampulli kulam	50.003	4.73	4.35	0.194	0.194	0.1260	337.195	337.650	2	1	2.30	183.63	1115	840	_	Chinna kulam,Ma nthaikulam , Bangarusa mudram, katteripillai kulam,Ka malasamu dram
22			Periya Ottukulam	61.77	1.49	3.00	1.63	1.630	0.0630	326.100	326.635	2	1	9.45	215.49	753		Periya Ayyampulli	ThenPala ni kulam
23			Chinna Ottukulam	62.5	3.30	8.00	0.62	2.250	0.0920	322.050	322.415	2	2	28.60	316.06	768		Periya Ottu kulam	Shanmug a nathi River
24	Din- digul	Palani	Ayyankulam	65.16	6.921	2.00	12.53	12.530	0.1630	350.830	351.730	2	1	29.70	1584.52	710	1800	Manvilundan Odai Anicut	Pappan kulam

SI. No	District	Taluk	Name of Tank	Ayacut in Ha	Capacity in Mcft	Number of Fillings	Free catchment in SqKm	Combined Catchment in Sq.Km	Water spread area (Sq.Km)	FTL in M	MWL in M	No.of Sluices	Lei	rength of bir (m) Tength in Length i	Discharge in Cusecs	Length of bund (M)	Length of Supply Channel (M)	Upper Tank	Lower Tank
25		ram	Karunkulam (Parithiyur)	74.49	23.99	2.63	7.865	7.8650	0.4750	266.020	266.470	2	2	25.70, 34.00	1082.40	1395	2017		
26	Dindigul	Oddanchatram	Karisalkulam Senkulam	161.30	19.53	_	15.68	58.857	0.7390	310.705	311.305	4	2	33.28, 15.00	3367.64	2850	4790		_
27		PO O	Karunkulam (Chatrapatty)	86.40	30.83	_	11.20	11.220	0.8730	330.650	331.100	3	2	34.70, 4.00	1666.16	2081	5350	_	

#### Package No:17 /ASB/NCB/2011-12

#### HYDRAULIC PARTICULARS VARADHAMANAHTHI SYSTEM - SHANMUGANATHI MINOR BASIN - AMARAVATHI SUB BASIN

### SYSTEM TANKS

SI. No	District	Taluk	Name of Tank	Ayacut in Ha	Capacity in Mcft	Number of Filling	Free catchment in SqKm	Combined Catchment in Sq.Km	Water spread area (Sq.Km)	FTL in M	M ni MWM	No.of Sluices	Len	s and gth of ir (m) Teugth III III	Discharge in Cusecs	Length of bund (M)	Length of Supply Channel (M)	Upper Tank	Lower Tank
1			Periyakulam	368.3 9	30.08 7	11.2 1	2.920 0	2.920 0	0.544 0	332.35 0	332.80 0	6	4	9.00	584.5 4	16 19	449 0	Pappan kulam	ldumban kulam
2	!		Veerakulam	83.77	9.358	4.00	0.578 0	1.107 0	0.185 9	329.31 5	329.62 0	2	1	3.68	611.6 5	74 7	600	Pappan kulam	ldumban kulam
3			Oomaikumara servaikaran kulam	17.25	3.248	2.30	0.171 3	1.278 3	0.785 0	328.72 0	329.02 5	2	1	0.75	158.7 0	11 00	600	Veera kulam	Sodappanaick en kulam
4		ici	Sodappanaicke n kulam	21.49	2.313	3.80	0.081 4	1.544 0	0.054 3	326.10 5	326.71 5	1	1	10.3 0	192.4 6	48 2	700	Oomaikumar a- servaikaran kulam	ldumban kulam
	Dindigul	Palani																	
5	;		Idumbankulam	34.99	39.76 3	1.00	5.297 0	6.842 0	0.760 0	319.72 0	320.47 0	2	2	53.2 1	1019. 19	13 21		Periyakulam & Sodappanai- ckenkulam	Vaiyapuri kulam
6	;		Kumaranaicken kulam	44.41	8.122	2.25	0.422 0	0.422 0	0.162 6	329.39 0	329.85 0	4	2	19.4 0	468.9 8	60 5	300 0	Periya kulam	Devanaic kenkulam
7			Mappillainaicke n kulam	16.87	3.743	1.88	1.664 0	1.664 0	0.157 0	327.08 0	327.53 0	4	1	7.90	253.1 3	99 0	260 0	Periya kulam	Pattikulam

8	Pappankulam	126.4 8	21.08 2	2.63	3.963 0	3.963 0	0.468 0	337.98 0	338.89 5	3	2	44.8 0	2448. 56	19 75	697 0	Ayyan kulam	Pattikulam	
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Sl. No	District	Taluk	Name of Tank	Ayacut in Ha	Capacity in Mcft	Number of Fillings	Free catchment in SqKm	Combined Catchment in Sq.Km	Water spread area (Sq.Km)	FTL in M	MWL in M	No.of Sluices	Let of (1	s and ngth weir m) ungu . I	Discharge in Cusecs	Length of bund (M)	Length of Supply Channel (M)	Upper Tank	Lower Tank
9			Thattank ulam	35.360	13.984	1.04	3.06	3.060	0.8600	319.840	320.30 0	3	2	47. 56	609.8 9	791	735 0	Periya kulam	Kurumba patti ulam
10			Kurumb apatti kulam	28.510	7.839	1.50	2.63	5.790	0.1760	311.975	312.58 5	2	2	51. 21	993.4 8	803	700	Kalikka naicken patti kulam	Pudu kulam
11	Dindigul	Palani	Devanai cken kulam	58.090	8.38	3.18	1.209	1.631	0.1245	325.635	325.94 0	1	2	2.8 0	417.6 3	652	280 0	Kumara nai ckenkul am	Kalikka naicken patti kulam
12			Kallikka naicken pattikula m	42.100	14.478	1.20	4.40	6.320	0.3465	316.770	317.61 0	4	2	28. 62	1289. 7	126 0	180 0	Devanai cken kulam	Pudu kulam
13			Pattikula m	49.210	25.673	2.00	19.01	43.17 7	0.6520	317.590	318.19 0	2	2	49. 43	2824. 21	134 3	225 0	Pappan kulam & Mappilla inai ckenkul am	Karisal kulam senkulam

Sl. No	District	Taluk	Name of Tank	Ayacut in Ha	Capacity in Mcft	Number of Fillings	Free catchment in SqKm	Combined Catchment in Sq.Km	Water spread area (Sq.Km)	FTL in M	MWL in M	No.of Sluices	Len	rength of Frength in m Length in m	Discharge in Cusecs	Length of bund (M)	Length of Supply Channel (M)	Upper Tank	Lower Tank
14			Palanipapp an kulam	86.40	25.577	1.435	4.139	5.163	0.5657	299.060	299.510	5	1	79.25	1442.26	1980	300	Sirunaicken kulam	Shanmuga nathi river
15			Vaiyapuriku Iam	312.40	53.536	2.40	2.322	2.322	0.8662	314.000	314.730	4	1	48.75	1616.19	2380	6773	ldumban kulam	Sirunaic kenkulam
16	Dindigul	Palani	Sirunaicken kulam	54.455	8.000	2.90	2.818	5.140	0.1809	307.475	308.315	3	1	44.29	1988.58	1005		Vaiyapuri kulam	Pudukulam Pappan kulam
17	Di	ď	Pudukulam	150.26	53.571	1.25	4.460	14.530	0.6554	302.140	302.825	5	2	34.76	1636.14	1910	200	Sirunaicken kulam,Kalikkan aickenpattikula m,Kurumbapat tikulam	Shanmuga nathi river
18			Sinnakulam	combin- ed	1.515	_	0.122	14.282	0.0493	300.730	301.415	1	1	48.50	1250.85	400		Sirunaicken kulam,Kalikkan aickenpattikula m,Kurumbapat tikulam	Shanmuga nathi river

## HYDRAULIC PARTICULARS VARADHAMANATHI SYSTEM – SHANMUGANATHI MINOR BASIN - AMARAVATHY SUB BASIN

### a) ANICUT

	, it is it i			lt(M)	()			km	od ecs						Suppl	ly Cha	nnel		
Sl.No	Name of Anicut	Village	Ayacut (Ha)	Length of Anicut(M)	Crest level of Anicut (M)	Front (M)	Free Sq.km	Combined Sq.km	Maximum flood discharge Cumecs/ Cusecs	Head sluice Location	Vent(M)	Sill Level sluice (M)	Discharge cumecs	Length (m)	Bed width (M)	FSD (M)	Bed slope	Sluice	Remarks
<u>S</u>	YSTEM ANI	<u>CUTS</u>																	
1	Sakkilian Anicut	East Ayaku di	274.60 3	108.9 0	347.63				406.40 / 14352	Right Bank	(5Nos) 2.13x0.915	345.41 5	8.920						
2	Kothai Anicut	Ayyam pulli	155.94 0	67.90	327.13 5		55.47		262.20 / 9259.6	Right Bank	(2Nos) 1.25x1.9	325.09 0	25.63 0	1 to 2858	7.0 0	0.9 6	1/420	6	
	Anout	pulli	0		5				0	Dank	2	Ū	Ū	2858 to 6773	9.0 0	0.9 6	1/886		
3	Kallakad u Anicut	Palani	74.140	53.10	314.720		0.496 4	97.5 9			1.20x1.20 M			2580	1.2 0	1.2 0	1/202 5		
4	Uppuche tti Anicut	Palani	7.400	_															
	NON - SYST		UTS																
1	Palar Anicut	Ayyam pulli	305.78 0	103.5 0	365.67 5									5520	3.0 0	0.6			

#### SUPPLY CHANNELS HAVING DIRECT AYACUT VARADHAMANATHI RESERVOIR - VARATTAR – SHANMUGANATHI SUB BASIN

SI. No	Name of supply channel	Start Po	int	End F	Point	Length in	Bed width	Bed slope	Side slope	MFD	Depth of flow	Remarks
		Location	Sill level	Location	Sill level	metres	maar	cicpo	olopo		or non	
	System Channel											
						0 - 650	4.50				0.915	
		Chakkilian		Pappan		650- 1895	3.50				1.150	
1	Pappan channel	Anicut	345.110	kulam	334.765	1895- 6680	2.50				2.490	
						6680- 6970	2.00					
						0-300	7.75	1/230	1:1		1.444	
						300 - 400	13.00	1/73	1:1		1.738	
2	Periya Voikkal Channel	Chakkilian Anicut	145.415	Periya kulam	328.105	400 - 2700	6.50	1/400	1:1		1.29	
						2700 - 3100	6.00	1/190	1:1		1.669	
						3100 - 4490	7.00	1/510	1:1		1.168	
	Kothai Anicut			Vaiyapuri		0 - 2858	7.00	1/420	1:1	1.60	0.96	
3	Channel	Kothai Anicut	325.090	kulam	309.240	2858 - 6773	9.00	1/836	1:1	2.00	0.96	
	Palani Pappan	Kothai Anicut Channel		Pannan		0 - 1800	4.00	1/256	1:1			
4	Channel		Pappan kulam	95.585	1800 - 6022	4.00	1/747	1:1				
	Non - System Channel											

				Kannadi peru mal kulam,	347.115						
				Kullamanaic kenkulam	331.690						
5	Palar Anicut Channel	Palar Anicut	352.495	Chinna Ayyampulli kulam	336.505	5520	3.00	 1:1	0.90	0.60	
				Periya Ayyampulli kulam	337.96						

### Package No:18 / ASB / NCB / 2011-12

#### AMARAVATHI – SUB BASIN - KUDHRAIYAR SYSTEM a) ANICUT

								a) 1	ANICUI	-									
	cut		(	ut(M)	Anicut		_	km	od lecs/	ation		s (M)	cumecs	S	Suppl	ly Ch	annel		
Sl.No	Name of Anicut	Village	Ayacut (Ha)	Length of Anicut(M)	Crest level of A (M)	Front (M)	Free Sq.km	Combined Sq.km	Maximum flood discharge Cumecs/ Cusecs	Head sluice Location	Vent(M)	Sill Level sluice (M)	Discharge cum	Length (m)	Bed width (M)	FSD (M)	Bed slope	Sluice	Remarks
1	Panchant hangi	Papampatti	176.354	110.00	356.450		76.54	76.54	160.60	Left side	110.0 0	355.38 0	3.40	3250	3.0 0	1.0 7	1in17 20	4	
2	Sembakul am	Pappampat ti	183.700	141.50	344.430		78.57	78.57	137.70	Right side	97	343.18 0	38.2 1	4220	5.0 0	1.8 452	1in33 0	I	
3	Muthukula m	Sankaramanal lur	9.07	74.90	331.535		105.30	105.30	231.900	Left side	2	330.205	11.00	1000	5.00	0.62	1in850	1	
4	Kothaiamm ankulam	Kolumam	13.19	64.00	323.820		114.60	114.60	177.100	Right end	2 No 1.00 X1.00	322.85	7.81	2100	6.00 m	.41 m	1in 5086	2	
5	Sankaraman allur	Sankaramanal lur	47.01	57.80	310.260		123.230	123.230	181.900	Right end	1 No 0.95x 1.2	309.67	15.22	6600	2.5	.64	1in 2820	25	

# b) TANKS (System Tanks)

Sl. No	District	Taluk	Name of Tank	Ayacut in Ha	Capacity in Mcft	Number of Fillings	Free catchment in SqKm	Combined Catchment in Sq.Km	Water spread area(Sq.Km)	FTL in M	MWL in M	No.of Sluices	of	and Length weir (m)	Discharge in Cusecs	Length of bund (M)	Length of Supply Channel (M)	Upper Tank	Lower Tank
								Coi	F				Nos	Length			Le		
1			Pudukulam	115.363	0.431	3.13	0.91	0.91	0.258	367.76	368.36	3	1	30.5	26.71	1400	1500		
2	2 C	-	Ammakulam	29.283	0.068	5.03	0.290	0.290	0.079	376.100	376.7	2			9.691	710	1500		
3	Dindigul	alani	Rayakulam	40.100	0.215	2.2	3.63	3.63	0.15	362.725	363.365	2	1	15	12.81	784	1500		
4	Ē	٩	Panchanthangi	136.836	0.467	3.4	2.05	5.68	0.323	347.49	348.16	3	1	23.4	21.487	1240	3250		
5			Sembakulam	18.72	0.085	4.73	4.401	4.401	0.100	330.37	330.82	1	1	14.00	16.09	636	4220		
6		E	Muthukulam	112.02	0.195	6.62	1.315	1.315	0.205	331.205	331.655	2	1	26.25	7.874	1575	1000		
7	5	kula	Ottu Kulam		0.042	3.1	1.23	2.345	0.066	329.755	330.755	1	1	20.1	12.114	396			
8	Tripur	athu	Kuyavankuttai	13.91	0.088	2	1.525	2.755	0.068	322.755	323.205	1	1	15	7.304	420			
9		Madathukulam	Kothaiamman kulam	155.96	1.13	3.18	2.304	2.304	0.586	322.675	323.275	3	1	19.65	12.011	1990	2100		

# C) SUPPLY CHANNELS HAVING DIRECT AYACUT AMARAVATHI – SUB BASIN - KUDHRAIYAR SYSTEM

SI. No	Name of supply	Start P	oint	End F	Point	Length in metres	Bed width	Bed slope	Side slop e	MFD	Depth of flow	Remarks
	channel	Location	Sill level	Location	Sill level							
1	Panchathanga i	Anicut	355.385	Tank	343.410	3250	0-1510=3.0 1510- 2000=2.25 2000- 3250=1.25	1in 1720 1in 130 1in 390	1:1	45.30	1.07 0.45	
2	Sembakulam	Anicut	343.180	Tank	328.065	4220	0-500=5.00 500-4220= 2.00	1in 330	1:1	22.42	1.845 0.30	
3	Muthukulam	Anicut	331.535	Tank	328.370	1000	0-217=5.00 217-1000= 3.00	1in 850 1in 1420	1:1		0.62	
4	Kothaiamman kulam	Anicut	322.85	Tank	317.04	2100	0-178=6.00 178-2100= 3.00	1in 5086 1in 1056	1:1	1.809	0.41 0.555	
5	Sangramanell ore	Anicut	309.67	Tank	306.61	6600	0-2440= 2.50 2440-6200= 1.50 6200-6400 =1.25 6400-6600 =1.00	1in 2620 1in 2050 1in 4000 1in 150	1:1	90.59	0.64 0.6 1.2 0.2	

## AMARAVATHI SUB BASIN

## PACKAGE No.19 / ASB / NCB / 2011-12

### HYDRAULIC PARTICULARS a) ANICUT

	نب ب		la)	of M)	l of 1)		ш	q	e	ce		1)	e		Sup	ply Cl	hannel		
Sl.No	Name of Anicut	Village	Ayacut (Ha)	Length of Anicut(M)	Crest level o Anicut (M)	Front (M)	Free Sq.km	Combined Sq.km	flood discharge Cumecs/	Head sluice Location	Vent(M)	Sill Level sluice (M)	Discharge cumecs	(m)	Bed width (M)	FSD (M)	Bed slope	Sluice	Remarks
1	Perumal kulam	Virupatchi	51.93	11.50	335.135		10.54 1	76.104	164.10	399	2	334.345	1.802	500	3.0	0.30		1	
2	Sadaya kulam	Thangachiammapatti	40.00	68.50	279.845		50.00	130.7	193.4	399.0	2	278.415		285 0	5.0	0.15	1 in 686	1	
3	Ramasamudram	Veriyaputur	9.35	72.40	258.700		77.00	208.00	141.818	515	1	257.675	2.264	835	4.0	0.60	1 in 2690	1	
4	Javathupatty	Javathupatti	85.82	38.50	329.220		37.00	245.00	294.500	880	1	238.780	0.255	282 0	2.0		1 in 1340	6	
5	Varadhagan	Edayakottai	40.485	135.50	227.985		10.00	338.00	364.00	60	1	227.410	0.500	160 0	2.0	1.15	1 in 4000	1	
6	Koraiyathu	Koraiyathu	86.235	150.00	221.950		17.00	523.00	310.00	-	1	220.45	1.970	540 0	2.0	0.60	1 in 1200	-	
7	Ottanai	Pallapatti	5.53	91.85	180.175		14.55	620.00	192.80	16	1	179.090	0.566	193 0	1.20	0.60	1 in 1266	1 4	
8	Aravakurichi	Aravakurichi	38.66	103.550	171.690		20.20	666.240	574.00	300	5	170.490	1.267	295 0	2.00	0.10	1 in 1320	3	

								~) I				<u> </u>							
No	ict	<u>-</u>		n Ha	n Mcft	Fillings	ıt in SqKm	Catchment in Sq.Km	area(Ha)	W	ШМ	uices	Le	os and ength of eir (m)	1 Cusecs	of bund (M)	Channel (M)		
SI. N	District	Taluk	Name of Tank	Ayacut in Ha	Capacity in Mcft	Number of Fillings	Free catchment in SqKm	Combined Catchn	Water spread area(Ha)	FTL in M	MWL in M	No.of Sluices	Nos	Length in m	Discharge in	Length of b	Length of Supply Channel (M)	Upper Tank	Lower Tank
1			Perumalkulam	102.120	15.29	2	2.935	2.935	37.00	311.110	311.560	1	1	32.25	547	1541	4400	Muthuboobal samudram	Kaveriammapatti Periyakulam
2			Sengulam	46.020	15.08	2	8.685	47.785	31.5	265.365	266.115	2	1	78.00	3373	1461	3000	Sadayakulam	Ramasamudram
3		am	Ramasamudram	40.970	20.05	4	1.852	49.637	11.3	255.28	259.18	2	1	40.40	2678	757	835	Senkulam	Javathupatti Periyakulam
4	Dindigul	Oddanchatram	Muthu Boobala samudram	44.520	10.17	2	3.055	1.943	24.2	329.52	330.13	3	1	23.77	554	1225	500	Parappalar Dam	Perumalkulam
5		рО	Sadayakulam	219.400	52.05	2.3	23.66	45.52	112.70	275.365	276.315	3	2	46.15+ 17.10	2550	2012	2850	Nanganjiar River	Senkulam
6			Javadhupatty Periyakulam	46.290	20.13	2	3.055	52.69	41.1	252.710	253.460	2	1	21.70	2267	1730	2380	Ramasamdura m	Nanganjiar River
7			Appasamudram	7.810	8.3	2	4.274	63.40	10.70	227.920	228.530	2	1	17.60	560	850	1600	Nanganjiar River	Nanganjiar River
			Total	507.13	141.07	16.3	46.464	263.91	268.5	1917.27	1925.29	15	8	276.97	12529	9576	15565		

### b) TANKS (System Tanks)

								-)				<u> </u>	1						
S1.	ict	ık		in Ha	in Mcft	of Fillings	nt in SqKm	ment in Sq.Km	d area(Ha)	in M	in M	luices	Lei	os and ngth of eir (m)	in Cusecs	(M) bunc	y Channel (M)	Tank	Tank
No	District	Taluk	Name of Tank	Ayacut in Ha	Capacity in Mcft	Number of	Free catchment in	Combined Catchment in Sq.Km	Water spread area(Ha)	FTL i	MWL in M	No.of Sluices	Nos	Length in m	Discharge in Cusecs	Length of bund (M)	Length of Supply Channel (M)	Upper Tank	Lower Tank
1			Kaveriamma patty Periakulam	43.200	18.010	1.2		12.777	29.4	291.100	291.860	1	1	31.00		253		Veeramallan Kulam	Nanganjiar River
2		Kollapatty Tank	87.040	8.228	2.0		2.777	18.50	284.000	284.600	2	1	21.00		1200	1750		Nanganjiar River	
3	Dindigul Oddanchatram		Navakani Tank	111.740	23.00	1.0		10.27	29.36	329.260	329.860	2	1	40.00		2000			Nanganjiar River
4			Udayarkulam Tank (Ex- zamin Tank)	65.92	10.78	2		6.384	0.256	328.45	328.945	2	0	0		967			Nanganjiar River
			Total	307.9	60.018	6.2		32.208	77.516	1232.81	1235.265	7	3	92		4420	1750		

## c) TANKS (Non System Tanks)

#### AMARAVATHI SUB BASIN

#### PACKAGE No:20 / ASB / NCB / 2011-12

### HYDRAULIC PARTICULARS a) ANICUT

			a)	Ŀ			n			e			0		Supp	ly Ch	annel		
Sl.No	Name of Anicut	Village	Ayacut (Ha)	Length of Anicut(M)	Crest level of Anicut (M)	Front (M)	Free Sq.km	Combined Sq.km	flood discharge Cumecs/	Head sluice Location (m)	Vent(M)	Sill Level sluice (M)	Discharge cumecs	г	(M)	FSD (M)	Bed slope	Sluice	Remarks
1.	Boothipuram	Thadi combu	62.241	104				13.540	1220		3.2			5095	1.8	0.3 0	1 in 100	33	
2.	Kodaganar	Agaram	13.490	204	238.900							239.6 85	7.073	2950	4.4 5	0.7 5	1 in	7	
3.	Venkatrama Iyyankar	Agaram	41.750	115.20	221.210				180678	210	0.9x 0.75	220.51 5	18067 8	3750	1.50	0.30	1 in 2730	16	
4.	Muthankula m	Kovilur	88.596		270.870		0.445	0.445	37.610			271.82 0	37. 610	1400	1.5- 2.00	0.60	1 in 100		
5.	Paraikulam	Periya kottai	32.807		275.705	1:1		2.016				274.05 0	48.70	745			1 in 200		
6.	Alagar Pudukulam	Vembar patti	30.838		351.475		0.307	0.307	60.10			350.47 5		420	2.00	0.60	1 in 226		
7.	Thambi Naickankula m	Vembar patti	15.280	40	289.010			0.510	75.20	0	1.00x 0.90	290.50 0	58.70	580	1.50	0.40	1 in 200		
8.	Uppukulam	Vembar patti	15.280	35	315.200				60.15	0	1.00x 0.90	316.40 0	42.50	680	1.50	0.60	1 in 100		
9.	Avilipatti	Avilipatti	44.541	40	380.150			1.650	85.80	0	1.00x0. 90	381.50 0	85.80	780	1.50	0.45	1 in 100		
10.	Alangulam	Veerasinn ampatti	12.799	38	285.160			1.100	60.50	0	0.75x 0.90	284.50 0	60.50	650	1.30	0.60	10in 200		
11.	Ragalapuram	Ragalapur am	36.153	42	215.500			1.250	70.50	0	1.50x 0.90	216.10 0	70.50	470	2.00	0.50	1 in 600		
12.	Chinnaiyapill a Anicut	Pannai patti	23.752	40	292.360		1.894	1.894	40.50	0	1.50x0. 90	291.16 0	38.35	650	1.20	0.60	1 in 100		
13.	Kavetti Rengappa	Rajakka patti	0.32	45	260.460		1.650	1.650	60.70	0	1.50x 0.90	261.88 0	60.70	1150	2.00	0.50	1 in 300		

	ربآ		(Ha)	of M)	el at	1)	ш	р	e /	n		le 1)	e .		Supp	ly Ch	annel		S
Sl.No	Name of Anicut	Village	Ayacut (F	Length of Anicut(M)	Crest level of Anicut (M)	Front (M)	Free Sq.km	Combined Sq.km	flood discharge Cumecs/	Head sluice Location (m)	Vent(M)	Sill Level sluice (M)	Discharge cumecs	Length (m)	width (M)	FSD (M)	Bed slope	Sluice	Remarks
	Naickenkula m																		
14.	Koolengaiyar	Mania karan patti	38.014	60	250.150		1.400	1.400	75.80	0	1.50x 0.90	251.55 0	75.80	1350	2.00	0.60	10in 200		
15.	Emakkalapur am	Eamakkal apuram	36.777	40	310.610		1.780	1.780	80.80	0	1.50x 0.90	311.81 0	75.50	780	2.50	0.40	1 in 200		
16.	Pungampadi	Ragalapur am	37.783	30	288.710		1.515	1.515	40.40	0	1.50x 0.90	289.81 0	60.10	450	2.00	0.50	1 in 600		
17.	Koraikulam	Anjukulip atti	6.486	20	265.500		1.100	1.100	45.80	0		266.80 0	40.50	650	1.50	0.60	1 in 500		
18.	Anjukulipatti	Anjukuli patti	65.283	15.00	265.560		1.700	1.700	50.50	0	1.50x 0.90	266.70 0	45.50	1500	2.00	0.40	1 in 100		
19.	Lingammal kulam	Thamarip adi	5.645	15.00	280.640		1.850	1.850	45.50	0				750	2.00	0.60	1 in 200		
20.	Gulvarkulam	Seelapadi	23.766	85	256.410		1.08	1.08	4.027	0		255.41 0	148.57	1320	5.00	0.80	1 in 989		
21.	Thethupatti	Thethupat ti	62.951	30	302.990		8.32	33.220	77.50	-	0.30x 0.45	296.85 0	2.945	2550	3.50	0.60	1 in 2500	7	
22.	Mangararai	Mangarai	48.975	15.50	273.920		15.25	15.25	260	-	0.30x 0.45	272.45 0	3.01	1265	2.00	1.00	1 in 1330		
23.			743.527	590.5										29935					

b) TANKS (Non System Tanks)

								<i>v</i> ) 1	INIVIAN		ystem i		<u> </u>						
S1.	District	Taluk	Name of Tank	Ayacut in Ha	Capacity in Mcft	Number of Fillings	Free catchment in SqKm	Combined Catchment in Sq.Km	Water spread area(Ha)	arca(Ha) FTL in M	MWL in M	No.of Sluices	Le	os and ngth of eir (m)	Discharge in Cusecs	Length of bund (M)	Length of Supply Channel	Upper Tank	Lower Tank
No	Dis	Ta	Name of Tank	Ayacu	Capacity	Number 6	Free cato Sq	Com Catchr Sq.	Water area	FTL	IMM	No.of	Nos	Length in m	Disch Cu	Length (1	Leng Supply	Upper	Lowe
1.		-	Pagadikulam	87.17	0.506	2.5	2.17	3.44	34.93	290.080	290.560	1	1	15.60	640.51	1230	-		
2.			Pilvettikulam	155.82	1.149	2.0	4.36	7.80	68.15	288.834	289.434	2	1	40.10	1288.08	1590	-		
3.	ligul	Authoor	Thoppampatti Aranmanai Odaikulam	60.73	0.313	2.5	-	-	10.73	32.160	32.770	2	1	34.25	-	1073	-		
4.	Dindigul	Autl	<u>A.Vellodu</u> Periyakulam	41.95	0.239	2.5	17.20	17.20	38.86	288.850	289.450	5	1	57.00	1765.75	1050	-		
5.			Pillaiyarnatha m Rengasamudra m	35.19	0.28	1.7	1.62	23.82	27.66	272.294	272.894	2	2	9.15 & 39.40	726.08	1330	-		
6.			<u>Kottur</u> <u>Avarampatti,</u> Thamarikulam	87.65	0.400	3	2.58	11.071	43.07	238.790	239.090	2	2	12.20 & 13.77	1227.65	1300	-		
7.			<u>Brammasamu</u> <u>dram,</u> <u>Anaipatti</u>	67.76	0.381	1	9.066	37.213	39.10	247.160	247.960	2	1	69.40	3.066	1005	-		
8.		Dindigul	<u>Sindalakundu</u> <u>Thamaraikula</u> <u>m</u>	213.40	0.890	3.5	2.48	5.05	78.68	254.880	255.480	5	1	22.70	745.45	2370	-		
9.			<u>Muthanampatt</u> <u>i tank,</u> <u>Kuttathupatti</u>	59.55	0.543	1.67	6.54	20.44	59.29	255.850	256.450		1	23.55	2050.74	840	-		
10.			<u>Mangarai</u> <u>Tank,</u> <u>Mangarai</u>	48.975	0.495	1.5	1.525	1.525	41.93	272.560	273.110		1	19.10	422.36	1700	1265		

Sl. No	District	Taluk	Name of Tank	Ayacut in Ha	Capacity in Mcft	Number of Fillings	Free catchment in SqKm	Combined Catchment in Sq.Km	Water spread area(Ha)	FTL in M	MWL in M	No.of Sluices	Le	os and ngth of eir (m) Leingth Leingth Leingth	Discharge in Cusecs	Length of bund (M)	Length of Supply Channel	Upper Tank	Lower Tank
11.			<u>Kadhir</u> <u>Narasinga</u> perumalkulam <u>, Kothapuli</u>	95.905	0.433	1	6.21	6.21	39.20	266.700	267.350		1	30.20	1021.31	1200	-		
12.		-	<u>Pudhukulam</u> Kobaiyar tank, Chatrapatti	118.660	0.552	3	5.05	5.05	1.153	312.200	313.100	1	1	28.65	2000	610	-		Mangarai river
13.		Dindigul	<u>Kathirayankul</u> <u>am, Palaya</u> <u>Kannivadi</u>	69.530	0.220	3	2.6	2.6	26.68	289.420	290.170	3	1	66.00	2444	840	-	Ammakulam	Mangarai river
14.		Di	<u>Thethupatti</u> <u>Tank,</u> <u>Thethupatti</u>	102.300	0.535	3	17.18	17.18	48.09	297.010	297.350	3	1	37.55	1811	1450	2550	Mamgarai river	Mangarai river
15.			<u>Chinnakobaiy</u> <u>ar Tank.</u> <u>Kodalvavi</u>	83.770	0.488	2	4.78	4.78	0.20	388.700	339.300	1	1	36.00	1800	1100	-		Mangarai river
16.			<u>Periyakobaiya</u> <u>r Tank,</u> <u>Kodalvavi</u>	566.770	1.039	3	4.57	4.57	5.08	343.550	344.450	2	1	42.70	2450	480	-		Mangarai river
17.			<u>Nayodai tank.</u> <u>Sirangadu</u>	185.330	19.266	2		3.62	29.36	328.500	329.500	2	1	30.00	2300	600	-		Mangarai river
18.		Dindigul	<u>Ramakkal</u> <u>Odai and</u> <u>Anaivilundan</u> <u>odai tank, A.</u> <u>Vellodu, and</u> <u>Keelakottai</u>	107.690	0.268							0	0	0					

Sl. No	District	Taluk	Name of Tank	Ayacut in Ha	Capacity in Mcft	Number of Fillings	Free catchment in SqKm	Combined Catchment in Sq.Km	Water spread area(Ha)	FTL in M	MWL in M	No.of Sluices	Lei	os and ngth of eir (m) In m In m In m	Discharge in Cusecs	Length of bund (M)	Length of Supply Channel	Upper Tank	Lower Tank
19.		Authoor	<u>Neelamalaikot</u> <u>tai tank.</u> <u>Kariagoundan</u> <u>patti</u>	72.850	15	1.75	64.50	64.50	2.48	332.000	332.600	1	1	63	2393	310	-	-	Mangarai river
20.			<u>Nagasamudra</u> <u>m, Pallapatti</u>	49.600	0.217	2.6	2.87	17.11	6.6	261.414	261.864	3	2	53.05 6.35	1447.2	1150	-		
21.				2310.6								1 6	22			12905			

## AMARAVATHI SUB BASIN PACKAGE No:21 / ASB / NCB / 2011-12

# HYDRAULIC PARTICULARS a) ANICUT

	of It	Φ	Ha)	M)	el of (M)	Ω)	Sq.km	u d	ge	uice	۷)	/el M)	ge		Supp	oly Char	inel		ks
SI.No	Name of Anicut	Village	Ayacut (Ha)	Length of Anicut(M)	Crest level of Anicut (M)	Front (M)	Free Sq	Combined Sq.km	Maximum flood discharge Cumecs	Head sluice Location	Vent(M)	Sill Level sluice (M)	Discharge cumecs	Length (m)	width (M)	(M)	Bed slope	Sluice (No.)	Remarks
1.	Anaikulam Anicut	Periyakottai	62.40	143.00	283.10 0		-	-	-	Right	1.20 x 0.80	282.10	23.12	1500	3.00	0.60	1 in 1000	2	
2.	Mullippadi Anicut	Mullippadi	78.78	90.85	264.57		214.80	214.80	64.414	Left	1.30 x0.9 0	264.05	1.577	1410	3.00	0.50	1 in 416 and 1 in 664	2	
3.	Manthai Periyakulam Anicut	Thamaraipa di	45.22	80.00	262.66 5		5.00	8.502	34.286	Left	1.30 x0.9 0	261.865	34.286	420	2.20	0.80	1 in 1050	3	
4.	Padiyur Periyakulam	Padiyur	88.619	143.75	253.30 0		2.910	4.890	241.30	Right	1.80 x 1.30	252.30	241.30	1220	5.00	1.00	1 in 550	2	
5.	Kulathur Periya samudram	Kulathur	128.392	122.50	252.94 5			252.80	240.00	Left	1.20 x 0.56	251.345	23.112	3000	3.00	1.60	1 in 595	2	
6.	Marambadi Periyakulam	Marambadi	54.310	120.90	237.85 0		-	379.60	314.70	Right	1.40 x 0.80	237.095	4.605	2515	4.00	1.30	1 in 695	2	
7.	Velvarkottai Periyakulam	Velvarkottai	47.300	40.00	275.28 0		-	-	-	Right	1.20 x 0.90	274.280	-	2250	3.00	0.60	1 in 1000	2	
8.	Pilathu manthai kulam anicut	Pilathu	50.999	30.00	291.41 0	-	-	-	-	Left	Ope n off take	-	-	-	3.00	1.00	-	-	
9.	Thennampatti manthai kulam	Thennampat ti	73.058	20.00	275.98 0	-	-	-	-	Left	Ope n off take	274.980	-	600	3.00	1.00	1 in 1000	-	
10.	Vallakondan samudram anicut	Nallamanar kttai	101.644	40.00	264.93 0	-	-	-	-	Left	1.20 x 0.60	263.930	-	2050	3.00	1.00	1 in 1000	2	

# b) TANKS (Non System Tanks)

	rict	uk	Name of	in Ha	in Mcum	of Fillings	ent in SqKm	atchment in Km	area(Sq.Km)	ъ	Ň	Sluices		los and gth of weir (m)	in Cusecs	(M) pund	Supply Channel (M)	Tank	Tank
SI. No	District	Taluk	Tank	Ayacut in Ha	Capacity in Mcum	Number of Fillings	Free catchment in SqKm	Combined Catchment in Sq.Km	Water spread area(Sq.Km)	FTL in M	MWL in M	No.of S	Nos	Length in m	Discharge in Cusecs	Length of bund (M)	Length of Sup (N	Upper Tank	Lower Tank
1			Pothakanmoi	45.75	0.213	2.5	2.12	0	0.1564	33.00	33.60	1	1	36.50	0	445	0	-	-
2		-	Anaikulam	62.40	0.0104	3.08	1.064	1.064	35.38	280.99	281.350	4	1	33.30	430.136	2012	1500		Kuppi nayakka n kulam
3		Dindigul	Mullipadi Periyakulam	78.78	1.1187	2.00	8.514	24.25	53.90	262.765	263.365	4	2	16.20 & 9.30	2490	1950	1410	Amma kulam	-
4			<u>Manthai</u> Periyakula <u>m</u>	45.22	0.5134	2.289	5.00	8.502	53.38	261.465	262.215	4	1	43.10	1579.71	1470	420	Muthusam ban kulam	Kallar river
5	Dindigul		<u>Padiyur</u> <u>Periyakula</u> <u>m</u>	88.619	0.9872	2	2.910	4.895	0.769	250.040	250.640	3	1	18.60	21.649	2577	1620	Alagiri goundan kulam	Santhan a varthini river
6		Vedasandur	<u>Kulathur</u> <u>Periyasamu</u> <u>dram</u>	128.392	1.186	3	1.347	1.347	0.873	244.730	245.580	4	2	14.10, 30.15	25.06	2216	3000	Gulvarkul am	Veepan kulam
7		Vedas	<u>Marambadi</u> <u>Periyakula</u> <u>m</u>	54.310	0.08973	3	1.467	1.467	25.37	233.655	234.105	1	1	30.00	15.04	1540	2515	Periyakul am supply channel	Thavasi ulam
8			<u>Velvarkottai</u> <u>Periyakula</u> <u>m</u>	47.300	0.3786	2	2.470	17.336	0.3287	271.200	271.650	2	4	18.70, 17.20, 18.40, 20.20	36.18	1074	3300	-	Salam kulam

	rict	uk	Name of	in Ha	in Mcum	of Fillings	ent in SqKm	Catchment in q.Km	area(Sq.Km)	Z	ž	Sluices		los and gth of weir (m)	in Cusecs	(M) pund	pply Channel 1)	Tank	Tank
SI. No	District	Taluk	Tank	Ayacut in Ha	Capacity in Mcum	Number of Fillings	Free catchment in SqKm	Combined Catchi Sq.Km	Water spread area(Sq.Km)	FTL in M	MWL in M	No.of S	Nos	Length in m	Discharge in Cusecs	Length of bund (M)	Length of Supply ( (M)	Upper Tank	Lower Tank
9			<u>Pilathu</u> <u>Manthai</u> <u>kulam</u>	50.999	0.433	2	37.72	52.11	0.332	291.110	292.110	3	2	24.60, 30.45	95.80	1792	0	Poosariku lam	Manthai kulam
10			<u>Thenampatt</u> <u>y Manthai</u> <u>kulam</u>	73.058	0.3941	2	4.124	73.424	0.3941	274.680	275.430	4	3	18.60, 37.50, 55.00	107.93	837	0	Gurundan malai	Karunkul am
11	-	Vedasandur	<u>Vellakonda</u> <u>n</u> samudram	101.644	1.009	2	2.721	79.31	0.9057	261.830	262.730	3	3	53.95, 15.00, 60.00	107.24	1740	2050	Alankula m	Aruppan patti kulam
12	Dindigul	Ve	<u>Ramagri</u> <u>tank</u>	78.760	0.229	2	0	0	0.83234	285.000	286.000	1	1	48.00	1580.00	760	0	-	-
13			<u>Uthangaraia</u> <u>r tank</u>	51.000	0.2972	2	5.671	5.671	0.1581	337.480	338.380	2	1	30.00	98.60	370	0	-	Senkula m
14		Dindigul	<u>Sangaliank</u> ovil odai <u>tank</u>	151.760	0.424	2	0	13.420	0.210	385.50	386.700	1	1	44.00	93.270	550	0	_	-
			TOTAL	1057.992	7.28333	31.869	75.128	282.796	172.98934	3673.445	3683.855	37	24		6680.615	19333	15815		

# AMARAVATHI SUB BASIN PACKAGE No:22 / ASB / NCB / 2011-12 HYDRAULIC PARTICULARS OF LEFT & RIGHT FLANK CANAL OF UPPAR DAM

SI.NO	Reach in km	Bed width	FSD	FREE BOARD	SIDE SLOPE	DISCHARAGE	BED FALL
	Left Flank canal						
1	0.000-3.500KM	3.965	1.22	0.61	1:1	105.62	1/5280
2	3.500-6.350KM	3.965	1.22	0.61	3/4:1	105.62	1/5280
3	6.350-8.900KM	2.745	1.22	0.61	1/2:1	76.72	1/5280
4	8.900-9.450KM	1.525	1.22	0.61	1/2:1	76.72	1/1320
5	9.450-10.100KM	2.90	1.22	0.61	1⁄2 :1	76.72	1/5280
6	10.100-12.800KM	2.28	1.22	0.61	1:1	58.88	1/5280
7	12.800-14.800KM	1.525	1.22	0.61	1:1	40.60	1/5280
8	14.800-16.450KM	1.22	0.61	0.305	1:1	18.12	1/2640
9	16.450-17.400KM	0.92	0.305	0.305	1:1	8.31	1/2112
	RIGHT FLANK CANAL						
1	0.000- 4.900KM	2.74	1.22	0.61	1:1	72.73	1/5280
2	4.900 – 7.950 KM	2.14	0.90	0.30	1:1	55.82	1/5280
3	7.950 -10.750 KM	1.53	0.90	0.30	1:1	37.66	1/5280
4	10.750 -12.460 KM	1.22	0.40	0.30	1.5:1	8.21	1/5280

## AMARAVATHI SUB BASIN IAMWARM PHASE-IV STAGE-II Package No:1/ASB/NCB/2012-13

						(/	A) HYDF	RAULIC I	PARTICU	LARS OI	F CHANNE	EL								
	len			t	anicut		t	E A	b S	Location		Σ	S		Si	upply cl	nannel			
Sino.	Name of Chanı	Village	Ayacut(Ha)	Length of Anicut	Crest level of an (M)	Front(M)	Free catchment sq.km	Combained sq.km	Maximum Flood discharge cusecs	Head sluice Loca	Vent(M)	Sill level of sluice	Discharge cusecs	Lengt	h (m)	Bed width (m)	FSD	Bed fall (m)	Sluice	Remarks
				-	ວັ			0		Не		Sil	-	Length	Reach	B				
1	Kumaralingam Leading channel	Kumaraling am	560.10	-	-	-	-	-	-	-	-	-	0.849	200	-	7.00	0.914	-	-	
2	Cholamadevi Leading channel	Cholamade vi	234.72	-	-	-	-	-	-	-	-	-	0.765	906		8.00	0.73	-	-	
3	Sarkarkannadi pudur Leading channel	Sarkarkann adipudur	267.50	-	-	-	-	-	-	-	-	-	0.556	892		7.00	0.762	-	-	

## AMARAVATHI SUB BASIN IAMWARM PHASE-IV STAGE-II Package No:2/ASB/NCB/2012-13

# (A) HYDRAULIC PARTICULARS OF CHANNEL

	la			t	nicut		t	ш,	b S	ation		Σ	ស		Sı	ipply cha	nnel			
Sino.	Name of chanr	Village	Ayacut(Ha)	Length of Anicut	st level of a (M)	Front(M)	Free catchmer sq.km	Combained sq.km	Maximum Flood discharge cusecs	d sluice Loc	Vent(M)	l level of sluice	Discharge cuse	Lengt	h (m)	Bed width (m)	FSD	Bed fall (m)	Sluice	Remarks
	_			-	Cre			Ö		Hea		Sill		Length	Reach	B		-		
1	Thalavaipatti nam leading channel	Thalavaipatti nam	377.18	-	-	-	-	-	-	-	-	-	0.991	600		8.00	0.975			
2	Dharapuram leading channel	Dharapuram	978.15	-	-	-	-	-	-	-	-	-	2.97	2100		5.00	1.066			
3	Kolinjivadi leading channel	Kolinjivadi	1305.9 5	-	-	-	-	-	-	-	-	-	3.681	594		10.00	1.066			

## AMARAVATHI SUB BASIN IAMWARM PHASE-IV STAGE-II Package No:3/ASB/NCB/2012-13 (A) HYDRAULIC PARTICULARS OF NALLATHANGAL ODAI RESERVOIR MAIN CANAL

Sl.No	REACH	BED WIDTH	FSD	FREE	SIDE SLOPE	<b>BED FALL</b>	DISCHARGE
	(in m)	(in M)	(M)	BOARD			CUSEC
				(M)			
1	0 to 4985	1.30	0.90	0.50	1:1	1 IN 3000	43.451
2	4985 to 7330	1.20	0.90	0.50	1:1	1 IN 3000	38.592
3	7330 to 10000	1.00	0.90	0.50	1:1	1 IN 3000	34.941
4	10000 to 10320	1.00	0.90	0.30	1:1	1 IN 3000	34.941
5	10320 to 15270	0.60	0.90	0.30	1:1	1 IN 2500	28.309
6	15270 to 18730	0.60	0.90	0.30	1:1	1 IN 2500	25.818
7	18730 to 23000	0.30	0.90	0.30	1:1	1 IN 2500	18.726

## AMARAVATHI SUB BASIN IAMWARM PHASE-IV STAGE-II Package No:4 & 5/ASB/NCB/2012-13 (A) HYDRAULIC PARTICULARS OF DHARAPURAM OLD EARTHERN CHANNEL

S1.No	C.S@L.S in KM	EXISTING BED	FSD	FREE BOARD	BED FALL	DISCHARGE	SIDE SLOPE
		WIDTH	DURING	(M)		CUSEC	
		(in M)	FLOOD				
			(M)				
1	11.00	9.00	1.05	0.60	1 in 2638	105	0.5:1
2	11.50	9.00	1.05	0.60	1 in 2638	105	0.5:1
3	12.00	8.50	1.05	0.60	1 in 2638	105	0.5:1
4	12.50	8.50	1.05	0.60	1 in 2638	105	0.5:1
5	13.00	11.00	1.05	0.60	1 in 2638	105	0.5:1
6	13.50	8.50	1.05	0.60	1 in 2638	105	0.5:1
7	14.00	10.00	1.05	0.60	1 in 2638	105	0.5:1
8	14.50	10.00	1.05	0.60	1 in 2638	105	0.5:1
9	15.00	8.50	1.05	0.60	1 in 2638	105	0.5:1
10	15.50	8.50	1.05	0.60	1 in 2638	105	0.5:1
11	16.00	7.50	1.05	0.60	1 in 2638	105	0.5:1

## AMARAVATHI SUB BASIN IAMWARM PHASE-IV STAGE-II Package No:6/ASB/NCB/2012-13 (A) HYDRAULIC PARTICULARS OF DHARAPURAM OLD EARTHERN CHANNEL

S1.No	C.S@L.S in KM	EXISTING BED	FSD	FREE BOARD	BED FALL	DISCHARGE	SIDE SLOPE
		WIDTH	DURING	(M)		CUSEC	
		(in M)	FLOOD				
			(M)				
1	11.00	9.00	1.05	0.60	1 in 2638	105	0.5:1
2	11.50	9.00	1.05	0.60	1 in 2638	105	0.5:1
3	12.00	8.50	1.05	0.60	1 in 2638	105	0.5:1
4	12.50	8.50	1.05	0.60	1 in 2638	105	0.5:1
5	13.00	11.00	1.05	0.60	1 in 2638	105	0.5:1
6	13.50	8.50	1.05	0.60	1 in 2638	105	0.5:1
7	14.00	10.00	1.05	0.60	1 in 2638	105	0.5:1
8	14.50	10.00	1.05	0.60	1 in 2638	105	0.5:1
9	15.00	8.50	1.05	0.60	1 in 2638	105	0.5:1
10	15.50	8.50	1.05	0.60	1 in 2638	105	0.5:1
11	16.00	7.50	1.05	0.60	1 in 2638	105	0.5:1

## AMARAVATHI SUB BASIN IAMWARM PHASE-IV STAGE-II Package No:7/ASB/NCB/2012-13

#### HYDRAULIC PARTICULARS OF ANICUT

						An	naravath	ni old sys	stem- Ar	naravat	hi sub ba	sin								
	ť			ut	icut		t	Ĕ	cs Cs	tion		ε	S		Su	upply ch	nannel			
Slno.	Name of Anic	Village	Ayacut(Ha)	Length of Anic	rest level of an (M)	Front(M)	Free catchmer sq.km	Combained sq.l	Maximum Floc discharge cuse	ead sluice Loca	Vent(M)	Sill level of sluice	Discharge cuse	Lengt		Bed width (m)	FSD	Bed fall (m)	Sluice	Remarks
					C			-		Ĩ		Si		Length	Reach	-				
1	Nanjathaliyur anicut	Gudalur	199.86	266.00	178.00	-	-	-	-	Left side Anicut	2 X1.219 X 0.686	176. 87	18.50	7638		3.90	0.71	1/5280	31	

#### AMARAVATHI SUB BASIN IAMWARM PHASE-IV STAGE-II Package No:8/ASB/NCB/2012-13

	Гаскаде	
( ^ )		

						(A)	HYDRAU	LIC PAR	FICULAR	S OF AN	ICUTS(sys	stem)								
						An	naravath	i old sys	tem - Ar	naravat	hi sub ba	sin								
	t.			ut	icut		ıt	ĸ	od cs	tion		Σ	S		Su	upply ch	nannel			
Slno.	Name of Anic	Village	Ayacut(Ha)	ength of Anic	est level of an (M)	Front(M)	Free catchmer sq.km	ombained sq.l	Maximum Floc discharge cuse	ad sluice Loca	Vent(M)	l level of sluice	Discharge cuse	Lengt	h (m)	ed width (m)	FSD	Bed fall (m)	Sluice	Remarks
	_				Č			Ċ	20	Не		Sill		Length	Reach	Be		3		
1	Chettipalaya m anicut	Chettipalaya m	2810	365.00										27610	1	9.00	1.20		1	

#### AMARAVATHI SUB BASIN IAMWARM PHASE-IV STAGE-II Package No:9 /ASB/NCB/2012-13

					(	<b>A)</b> ⊦	IYDRAUI	IC PART	ICULAR	s of an	ICUTS(sys	stem)								
				Pala	ar porunda	alar S	ystem -	Shanmug	ganathi	minor b	asin- Am	aravathi s	ub ba	sin						
	ŗ			t	nicut		ţ	Ê	bd CS	tion		Σ	cs		Su	upply cl	annel			
Sino	Name of Anicut	Village	Ayacut(Ha)	Length of Anicut	st level of a (M)	Front(M)	Free catchment sq.km	Combained sq.km	Maximum Flood discharge cusecs	Head sluice Location	Vent(M)	Sill level of sluice	Discharge cusecs	Lengt	h (m)	Bed width (m)	FSD	Bed fall (m)	Sluice	Remarks
					Cree			U		Не		Sil		Length	Reach	B		_		
1	Thamaraikula m Anicut	Pudhachu	10.07	96.70	313.760	-	-	-	24000	Palar Porun dalar Dam	1	312.425	190	1500		5.00	1.05	1 in 1560	2	

## AMARAVATHI SUB BASIN IAMWARM PHASE-IV STAGE-II Package No:10 /ASB/NCB/2012-13

								0	.10 // (30/1											
					(A)	HYD	RAULIC	PARTI	CULARS OI	= ANICU	TS(Non-s	system)								
				Palar	porunda	lar Sy	/stem -Sl	hanmu	ıganathi m	ninor ba	isin- Ama	aravathi s	ub ba	sin						
	ť			t	icut		ut	Ê	c sd	cation		Σ	cs		Su	upply ch	annel			
Slno.	Name of Anic	Village	Ayacut(Ha)	Length of Anicut	est level of an (M)	Front(M)	Free catchmer sq.km	Combained sq.km	Maximum Flood discharge cusecs	Head sluice Loca	Vent(M)	l level of sluice	Discharge cuse	Lengt	h (m)	ed width (m)	FSD	Bed fall (m)	Sluice	Remarks
					ຽ			0		Не		Sill		Length	Reach	Be				<u> </u>
1	Karungulam Anicut (Parithiyur)	Parithiyur	-	108.20	267.015	-	262.6	-	-	-	2	265.935	-	2017	0 to 2017	5.00	0.505	-	-	
2	Karisalkulam Anicut Porulur	Porulur	-	157.60	287.63	-	182.60	-	289.79		2	285.98	-	1700	0 to 1700	2.00	1.250	-	-	

#### AMARAVATHI SUB BASIN IAMWARM PHASE-IV STAGE-II Package No:11 /ASB/NCB/2012-13

				(A)	HYDRAU		-	ULARS C			on sys	tem)								
				. ,	Mangar					•										
	Ŧ			t	icut		H	Ę	р S	tion		Σ	ទ		Su	pply ch	nannel			
Slno.	Name of Anicut	Village	Ayacut(Ha)	Length of Anicut	Crest level of anicut (M)	Front(M)	Free catchment sq.km	Combained sq.km	Maximum Flood discharge cusecs	Head sluice Location	Vent(M)	Sill level of sluice	Discharge cusecs	Lengt	h (m)	Bed width (m)	FSD	Bed fall (m)	Sluice	Remarks
	_				ວັ			Ŭ	20	He		Sill		Length	Reach	Be				
1	Boothipuram Anicut	Boothipuram	54.658	285.00	203.190	-	-	1500	885.3	285	1.5 X 1.65	202.81	-	3050	-	2.70	0.50	1 in 3300	24	
											1.20			0 to 1460	1	2.75	0.45	1 in 3000	4	
2	Lakshmanampatti Anicut	Thadicombu	77.61	134.15	210.90	-	-	1505	887.00		X 0.46 and 1.20	210.36	-	1460 to 3910	2	3.80	0.30	1 in 3000	9	
											x 2.70			3910 to 6015	3	3.80	0.30	1 in 3000	15	
3	Neelamalaikottai surplus channel	Neelamalaikottai	42.85	48.00	25.00	-	3.68	3.68	2400	-	-	-	-	200	-	-	1.00	1 in 1000		
4	Kodaganar Anicut	Thamaraikulam	39.339	74.70	255.905	-	64.80	209.10	9304	-	1 x 1	-	-	1410	-	3.30	1.00	1 in 4444	10	

## AMARAVATHI SUB BASIN IAMWARM PHASE-IV STAGE-II Package No:12 ,13 /ASB/NCB/2012-13

				(A)	HYDRA				RS OF A			system)								
					Kodaga	anar	Mino	r basir	n- Amara	avath	i sub ba	sin								
	t			ut	icut		ıt	m,	bd CS	tion		Σ	S		Su	ipply ch	annel			
Slno.	Name of Anicut	Village	Ayacut(Ha)	Length of Anicut	Crest level of anicut (M)	Front(M)	Free catchment sq.km	Combained sq.km	Maximum Flood discharge cusecs	Head sluice Location	Vent(M)	Sill level of sluice M	Discharge cusecs	Lengt	h (m) Reach	Bed width (m)	FSD	Bed fall (m)	Sluice	Remarks
1	Alagarputhukula m Anicut	Vembarpatti	43.69	34.50	99.00	-	21. 39	0.75	18.79	0	1.25x 0.40	100.20	0.4 5	420	43.6 9	2.00	2.50	1x 226	1	-
2	Thambinayakkan	Vembarpatti	35.57	40	218.00	-	2.2 5	0.63 9	0.467	0	1.50 x	200.10	0.3 5	870	1 to 870	1.50	0.50	1x30 0	1	-
	kulam Anicut						5	9			1.00	0	5							
3	UppukuAnicut	Vembarpatt i	12.61	36	346.00 5	-	3.7 5	3.39	8.43	0	2.50x 1.20	340.40 5	0.6 0	630	1 to 630	2.00	0.85	1x 2.7	1	-
4	Avilipatti Anicut	Avilipatti	33.50	40	99.20	-	2.8 50	23.1 7	60.96	0	1.50x1 .00	100.20	0.4 0	1320	1 to 1320	1.50	3.54	1x35 0	1	
5	Alankulam Anicut	Veerachinna mpatti	15.69	39	298.25	-	2.2	17.7	0.650	0	0.50 x 0.75	299.20	0.5	570	1 to 570	1.20	1.12 5	1x 45	1	-
		mpatti					/0	0			0.75		U			.02				
6	Ragalapuram Anicut	Ragalapura	37.02	38.50	263.05	-	3.8 9	16.9 5	0.705	0	1.5 x 1	264.55	0.4 5	650	1 to 650	2.10	1.50	1x 450	1	-
	Anicut	m					9	5				U	5							
7	Rajakkapatti Anicut	Rajakkapatti	23.67	40	243.92 5	-	2.3 5	15.4 9	0.755	0	1.50 x 0.75	245.12	0.3 0	480	1 to 480	2.50	1.40	1 x 35	1	
					,			,			0.70		,							

8	Anaikulam Anicut	Periyakottai	62.39	149	278.46	-	3.1	1.06	0.55	0	1.2 x	279.31	12.	1500	1 to 1500	1.50	0.60	1 x 228	2	-
0		Penyakottai	02.39	149	5	-	79	4	0.55	U	0.8	5	18							
9	Kavetti Rengappa Nayakkankulam	Rajakkapatti	4.88	40	283.98 0	-	2.2	10.5 15	0.60	0	1.5 x 1	285.50 0	0.6	1150	1 to 1150	2.50	1.50	1 x 350	1	
	Anicut				0		0	15				0								
10	Muthankulam	M.M.Kovilur	43.41	43	262.57	_	2.3	15.3	0.55	0	1.5x1	261.57	0.6	1400	1 to 1400	2.00	0.55	1 x 300	1	
10	Anicut		40.41		0		70	75	0.55	Ū	1.5/1	0	0.0							
11	Mullippadi	N 4 a Ulia a a di	70 70	00.05	264.57		3.7	16.9	7 42		1.30x	264.05	0.5	1410	1 to 1410	2.00	0.60	1 x 280	4	
11	Periyakulam anicut	Mullippadi	78.78	90.85	0	-	50	80	7.43	0	0.90	0	5							

## AMARAVATHI SUB BASIN IAMWARM PHASE-IV STAGE-II Package No:14/ASB/NCB/2012-13

## HYDRAULIC PARTICULARS OF LEFT & RIGHT MAIN CANAL OF KODAGANAR DAM

SI.NO	Reach (in km)	Bed width (M)	FSD (M)	FREE BOARD (M)	SIDE SLOPE	BED FALL	DISCHARAGE (Cusecs)
	Left Main canal						
1	0.000 - 4.860	1.90	0.61	0.49	1:1	1/2000	40.60
2	4.860 - 9.400	1.50	0.61	0.49	1:1	1/2000	32.40
	RIGHT Main CANAL						
1	0.000 – 14.810	2.70	1.00	0.60	1:1	1/2500	136.00
2	14.810 – 26.500	2.00	1.00	0.60	1:1	1/2750	105.00
3	26.500 - 53.515	2.00	1.00	0.60	1:1	1/3000	96.70

## AMARAVATHI SUB BASIN IAMWARM PHASE-IV STAGE-II Package No:15/ASB/NCB/2012-13

# HYDRAULIC PARTICULARS

					AMARAVA	THI MAIN	CANAL				
Sl.No	Reach		Bed	FSD	Free Board	Side	Area in	Wetted	Bed fall	Velocity	Discharge
	Mile	Km	Width	In	in feet	Slope	Sq ft	perimeter			in C/S
			in feet	feet							
1	0/0 to 9.00	0 to 14.481	26'0"	5'0"	1.0'	2:1	180.00	48.36	1/5000	2.8	504.00
2	9/0 to 12/0	14.481 to	25'0"	4.75'	1.0'	2:1	163.88	46.24	1/5000	2.8	441.00
		19.308									
3	12/0 to	19.308 to	25'0"	4.50'	1.0'	2:1	153.00	45.12	1/4400	2.81	430.00
	18/0	28.962									
4	18/0 to	28.962 to	22'0"	4.25'	1.0'	2:1	129.63	41.00	1/3520	2.99	388.00
	22/0	35.398									
5	22/0 to	35.398 to	20'0"	4.25'	1.0'	2:1	121.13	39.00	1/3520	2.95	358.00
	31/0	49.879									
6	31/0 to	49.879 to	19'0"	4.00'	1.0'	2:1	108.01	36.89	1/3520	2.90	310.00
	34/0	54.706									
7	34/0 to	54.706 to	19'0"	3.25'	1.0'	1.5:1	59.31	33.53	1/3520	2.75	148.00
	35/1/500	56.668									
8	35/1/500 to	56.668 to	12'0"	3.00'	1.0'	1.5:1	54.00	25.41	1/3520	2.55	76.00
	36/0	57.924									
9	36/0 to	57.924 to	8'0"	2.75'	1.6'	1:1	29.56	15.78	1/3520	2.11	63.00
	37/0	59.533									
10	37/0 to	59.533 to	5'0"	2.00'	1.6'	1:1	11.00	10.66	1/3520	1.66	24.00
	39/2	63.172									

## AMARAVATHI SUB BASIN IAMWARM PHASE-IV STAGE-II Package No:16/ASB/NCB/2012-13

# HYDRAULIC PARTICULARS OF PROPOSED NEW CHECK DAM @ DHARAPURAM

SI.NO	Village	MFD of Check Dam	Head over the Crest	Length of Check Dam	Stilling Basin Length	No of Scour vent	Size of vent	MFD of Scour vent
1	Dharapuram	110921 cusecs	5.70 m	145.00 m	20.40 m	4	3.0 x1.78	14079 cusecs

## AMARAVATHI SUB BASIN IAMWARM PHASE-IV STAGE-II Package No:17 /ASB/NCB/2012-13

				(A)					ARS OF A			system)								
				()							i sub ba									
	- ±			Ħ	icut		t	Ę	S d	tion		Σ	S		Su	ipply cł	nannel			
Slno.	Name of Anicut	Village	Ayacut(Ha)	Length of Anicut	Crest level of anicut (M)	Front(M)	Free catchment sq.km	Combained sq.km	Maximum Flood discharge cusecs	Head sluice Location	Vent(M)	Sill level of sluice M	Discharge cusecs	Lengt	h (m) Reach	Bed width (m)	FSD	Bed fall (m)	Sluice	Remarks
1	Alagarputhukula m Anicut	Vembarpatti	43.69	34.50	99.00	-	21. 39	0.75	18.79	0	1.25x 0.40	100.20	0.4 5	420	43.6 9	2.00	2.50	1x 226	1	_
2	Thambinayakkan	Vembarpatti	35.57	40	218.00	_	2.2	0.63	0.467	0	1.50 x	200.10	0.3	870	1 to 870	1.50	0.50	1x30 0	1	-
	kulam Anicut						5	9			1.00	0	5							
3	UppukuAnicut	Vembarpatt i	12.61	36	346.00 5	-	3.7 5	3.39	8.43	0	2.50x 1.20	340.40 5	0.6 0	630	1 to 630	2.00	0.85	1x 2.7	1	-
4	Avilipatti Anicut	Avilipatti	33.50	40	99.20	-	2.8 50	23.1	60.96	0	1.50x1 .00	100.20	0.4 0	1320	1 to 1320	1.50	3.54	1x35 0	1	
							50	/			.00		0							
5	Alankulam Anicut	Veerachinna mpatti	15.69	39	298.25	-	2.2	17.7	0.650	0	0.50 x 0.75	299.20	0.5 0	570	1 to 570	1.20	1.12 5	1x 45	1	-
		inpatti					/0	0			0.75		U			.02				
6	Ragalapuram	Ragalapura	37.02	38.50	263.05	-	3.8	16.9	0.705	0	1.5 x 1	264.55	0.4	650	1 to 650	2.10	1.50	1x 450	1	-
	Anicut	m	07.02	22.00			9	5				0	5							<u> </u>
7	Rajakkapatti Anicut	Rajakkapatti	23.67	40	243.92 5	-	2.3 5	15.4 9	0.755	0	1.50 x 0.75	245.12	0.3	480	1 to 480	2.50	1.40	1 x 35	1	
	Amout				5		5	5			0.75		0							

8	Anaikulam Anicut	Periyakottai	62.39	149	278.46	-	3.1	1.06	0.55	0	1.2 x	279.31	12.	1500	1 to 1500	1.50	0.60	1 x 228	2	-
0		Penyakottai	02.39	149	5	-	79	4	0.55	U	0.8	5	18							
9	Kavetti Rengappa Nayakkankulam	Rajakkapatti	4.88	40	283.98 0	-	2.2	10.5 15	0.60	0	1.5 x 1	285.50 0	0.6	1150	1 to 1150	2.50	1.50	1 x 350	1	
	Anicut				0		0	15				0								
10	Muthankulam	M.M.Kovilur	43.41	43	262.57	_	2.3	15.3	0.55	0	1.5x1	261.57	0.6	1400	1 to 1400	2.00	0.55	1 x 300	1	
10	Anicut		40.41		0		70	75	0.55	Ū	1.5/1	0	0.0							
11	Mullippadi	N 4 a Ulia a a di	70 70	00.05	264.57		3.7	16.9	7 42		1.30x	264.05	0.5	1410	1 to 1410	2.00	0.60	1 x 280	4	
11	Periyakulam anicut	Mullippadi	78.78	90.85	0	-	50	80	7.43	0	0.90	0	5							



# 1.4. Participatory Irrigation Management (PIM) Under IAMWARM Project

# SALIENT FEATURES OF IMPLEMENTATION OF PIM IN AMARAVATHI SUB BASIN

1. The Sub Basin: This is one of the oldest sub-basin in Tamilnadu providing paddy. irrigation facilities for double crop Amaravathi Old channel, Amaravathi maincanal , Left main canal of Palar pourunthalaru system, system tanks and non system tanks are under the control of Water Resources Organisation (WRO) of Public Works Department (PWD). The list of Channels, canals and tanks in this sub basin with more details are furnished in the Annexure-1. This sub basin ayacut are located in 143 villages of Tirupur ,Karur and Dindigul Districts. The total command area under this Subbasin is 53334.22 Ha.

## 2. Command Area

Under Amaravathi Sub Basin

53334.22 Ha

## 1. An assessment of number of WUAs

i)	Associations already formed under WRCP	Nil
ii)	Associations proposed to be formed under	193 Nos.
	IAMWARM project covering 20 Blocks	(53334.22 Ha)
	and 143 villages in Tiruppur Karur and	
	Dindigul Districts	

## 2. An account of "Awareness creation" among the farming community:

## Activities undertaken and "Walkthrough Surveys" carried out:

- i. There are 20 Blocks and 143 village, as detailed in Annexure-1. Joint through survey has been conducted along with line department officials ,farmers council reprecentatives and farmers in the sub basin area and awareness has been created about various activities, under IAMWARM project .
- Details of villages covered, walkthrough surveys conducted, list of works suggested by the farmers, list of works analysed and finalized by WRO officials, are all furnished in the Annexure 2

# 3. Schedule for completion of delineation and preparation for WUA documents, comprising of :

- i. Form-I: Details to be notified by District Collectors (before 31.5.2012)
- ii. Form II: WUA document to be notified by District Collectors (before 30.06.2012)
- iii. Completion of preparatory works for the conduct of Elections for WUAs

(before 31.08.2012)

4. Schedule for conduct of elections in the sub basin for forming Management Committees

## 5. Support Organisation (Sos)

- i. Initiating and completing the process of publishing EOI to hire support organisation at sub basin level
- ii. Short listing and providing request for proposals (RFPs) to all the short listed agencies, and obtaining Technical and Cost proposals
- 6. Selection and deployment of support organization to the Sub-basin

## 7. Appointment and the role of competent Authorities:

- i. Section 26 of the Tamil Nadu Farmers' Management of Irrigation Systems (TNFMIS) Act provides for the appointment of "Competent Authorities" to assist the respective farmers orginsation (WUA), Distributory Committee and Project Committee), in the implementation and execution of all decisions taken by such farmers organization. Similarly, every farmer's organization shall extend such co-operation or assistance, as may be required by the Competent Authority, for carrying out all the tasks related to implementation of TNFMIS Act.
- Appointment of competent Authorities for the WUAs formed under IAMWARM, project is based on the 'WRO Section officer wise ' distribution as listed below:

S1.	Details of Competent	Details of WUAs in Code
	Section Officer, WRO,	WUAs 1& 2
1.	Dam and Camp Section,	
	Amaravathi Nagar	
	Section Officer, WRO,	WUAs 3, 4, 21 - 28
2.	Amaravathi Basin Section-II,	WOAS 5, 4, 21 - 20
	Komaralingam	
	Section Officer, WRO,	
3.	Amaravathi Basin Section-III,	WUAs 5,6,7,8, 29-34
	Madathukulam	
	Section Officer, WRO,	
4.	Amaravathi Basin Section-IV,	WUAs 35 - 48
	Dhalavaipattinam	
	Section Officer, WRO,	
5.	Amaravathi Basin Section-III,	WUAs 9 – 12
	Dharapuram	

## Name of the WRO Sub Divisional Officers working in the Amaravathi Sub Basin:

	Section Officer, WRO,	
6	Amaravathi Basin Section-II,	WUAs 13 - 16, 55
	Chinna Dharapuram	
	Section Officer, WRO,	
7	Amaravathi Basin Section-IV,	WUAs 49, 53,54
	Vattamalaikarai Odai	
	Section Officer, WRO,	
8	Nallathangal Odai Section - I	WUAs 50
	Koneripatti	
	Section Officer, WRO,	
9	Uppar dam Section - I	WUAs 51,52
	Uppar.	
	Section Officer, WRO,	
10.	Varadhamanadhi Dam Section, Palani.	WUA 91-120
	Section Officer, WRO,	
11.	Kudhiraiyar Dam Section,	WUA 121-129
	Kudhiraiyar Dam.	
12.	Section Officer, WRO, Palar Porundalaru Dam Section,	WUA 56-90
	Palani.	
13.	Section Officer, WRD,	WUAs 130 to 151 & 173 to 184
	Parappalar Dam Section,	
14.	Oddanchatram.	WUAs 186 to 193
14.	Section Officer, WRD, Kodaganar Dam Section,	WUAS 188 10 193
	Alagapuri.	
15.	Section Officer, WRD,	WUAs 152 to 155, 165 to 172, 185
	Irrigation Section,	
	Dindigul.	
16.	Section Officer, WRD,	WUAs 156 to 164
	Irication Section,	
	Vedasandur - 624 704	

#### 8. Involvement of farmers in the preparation "Scheme Modernisation Plans"

- i. Based on the outcome of the "Awareness Creation Programme" and Walkthrough survey carried out with the involvement of farmers, a list of tasks proposed to be taken up for "Modernisation" under IAMWARM project was discussed with WUA Representatives and farmers and the project proposals were finalished.
- ii. During the meeting, the farmers present were also informed that soon after finalization of contract for carrying out "Modernization of Irrigation Systems" a "Notice Board" with the details about the nature of works, its cost, period of contract and name of the contractor will all be fixed at the site of the work, as well as in the panchayat office of the villages concerned for information of the farmers. They have also been informed that they are free to supervise the work by the contractor and any lapse in the quality of work may be reported to the field officers of WRO, as well as the Executive Engineer of WRO, who has been designated as the Nodal Officer for the sub basin concerned.
- iii. The field officers of WRO are all aware of the problems in handing over the operation and maintenance responsibilities to the farmers concerned, if the tasks as desired by the farmers in the command area are not included in the modernisation of the system and also in case, some of the tasks already included and planned are not implemented due to some reasons or other.
  - iv. The WRO officers were also informed that they are personally responsible for handing over the irrigation systems after completing the tasks related to modernization of Irrigation systems, under IAMWARM Project.

## 9. "Capacity Building" of the WUA farmers

- The "Support Organisation Group" will prepare "Training Modules" required for building the capacity of the WUA farmers, based on a "Training Needs"
- ii. Analysis. They will also organise various "Capacity building" programmes at suitable locations within the sub basin command are, to benefit the farmers of the WUAs in the sub – basin.
- iii. The Support Organisation will also arrange for organising the "Study Tours" both within and outside the state to enhance their knowledge and experiences which will help tem to improve the crop productivity and there by the farmer's income.
- iv. The support organisation will also conduct necessary "awareness programme" and impart training to educate the farmers of the WUAs in all aspects of the TNFMIS Act, TNFMS Rules and Election procedures for constituting the "Managing Committee" of the WUAs.

The "Competent Authorities" appointed for the sub basin will also be trained to effectively to interact with WUA farmers and maintaining good support and relationship with the farming community in the sub basin.

## Annexure-I

An Assessment of command Area and WUAs under the control of WRD in Amaravathi Sub basin

Sl.	Sl. Name of Ayacu No Irrigation Area ir System Ha	Ayacut Area in	Location of	Location of command area			verage of mand area r Different rojects	Status of formation of WUA in the subbasin
No			VILLAGE	TALUK	DISTRICT	WRCP	IAMWARM	under IAMWARM PROJECT
1	AOC - I RAMAKULAM	560.100	West Kumaralingam	Madathuk ulam	Tirupur	Nil	560.100	To be Formed
2	AOC - II KALLAPURAM	587.04	Kallapuram	Udumalpet	Tirupur	Nil	587.04	To be Formed

3	AOC - III KOMARALING AM	529.66	West Kumaralingam, East Kumaralingam, S.K. Pudur	Madathuk ualam	Tirupur	Nil	529.66	To be Formed
4	AOC - IV SARKAR KANNADI PUTHUR	279.56	East Kumaralingam, S.K. Pudur Vedapatti, Solamadevi	Madathuk ualam	Tirupur	Nil	279.56	To be Formed
5	AOC – V SHOLAMADEV I	234.720	Solamadevi	Madathuk ualam	Tirupur	Nil	234.720	To be Formed
6	AOC - VI KADATHUR	473.900	Kadathur	Madathuk ualam	Tirupur	Nil	473.900	To be Formed
7	AOC – VII KANIYUR	157.830	Kaniyur	Madathuk ualam	Tirupur	Nil	157.830	To be Formed
8	AOC - VIII KARATHOLUV	252.930	Karatholuvu	Madathuk ualam	Tirupur	Nil	252.930	To be Formed
9	AOC – IX ALANGIYAM	426.55	Alangiyam	Dharapura m	Tirupur	Nil	426.55	To be Formed
10	AOC-X THALAVAIPA TTINAM	377.18	Thalavaipattinam	Dharapura m	Tirupur	Nil	377.18	To be Formed
11	AOC - XI DHARAPURA M	978.15	Dharapuram South, Dharapuram North	Dharapura m	Tirupur	Nil	978.15	To be Formed
12	AOC - XII Kolinjivadi	1305.95	Manakadavu, Kolindivadi, Virajimanagalam Kolathupalayam Alampalayam	Dharapura m	Tirupur	Nil	1305.95	To be Formed
13	AOC - XIII NANJATHALA IUR	199.86	Nanjathalayur Punjathalayur Senapathipalayam	Mulanoor	Tirupur	Nil	199.86	To be Formed
14	AOC - XIV CHINNADHAR APURAM	760.11	Chinnatharapuram , Kudaloor, Thokkupatti Rajapuram	Aravakkuri chi	Karur	Nil	760.11	To be Formed
15	AOC - XV SUNDAKKAM PALAYAM	118.17	Sundakkampalaya m, Arikaravalasu Velampoondi	Mulanoor	Tirupur	Nil	118.17	To be Formed
16	AOC - XVI NANJAKALAK URICHI	160.26	Punjaikalaikurichi Nanjakalakurichi	Aravakkuri chi	Karur	Nil	160.26	To be Formed

17	AOC - XVII PALLAPALAY AM	1430.00	Viswanathapuri Pallapalayam Andankovil LNS, Pallapalaipuram	Karur	Karur	Nil	1430.00	To be Formed
18	AOC - XVIII KOYAMPALLI <i>,S</i> OMUR	825.00	Panchamadevi Koyampalli, Somur, Achamapuram	Karur	Karur	Nil	825.00	To be Formed
19	AOC - XIX THIRUMANEL AYUR	1170.00	Thirumanelayur Apipalayam Karupampalayam Malapalayam Sanaparrati Puliyur Ranganathapuram	Karur	Karur	Nil	1170.00	To be Formed
20	AOC - XX MAYANUR, MANAVASI	1110.00	Mayanur, Manavasi	Karur	Karur	Nil	1110.00	To be Formed
21	AMC - Elayamuthu R	410.090	Elayamuthur Andigoundenur	Udumalpet	Tiruppur	Nil	410.090	To be Formed
22	AMC - PERUMALPUT HUR	515.975	Perumalputhur	Madathuk ulam	Tiruppur	Nil	515.975	To be Formed
23	AMC – SAMARAPATT	174.760	Samarapatti	Madathuk ulam	Tiruppur	Nil	174.760	To be Formed
24	AMC - REDDIPALAYA M	518.000	Reddipalayam	Madathuk ulam	Tiruppur	Nil	518.000	To be Formed
25	AMC - PAPPANKULA M	315.770	Pappankulam	Madathuk ulam	Tiruppur	Nil	315.770	To be Formed
26	AMC - BOTHANACKI ANUR	253.155	Bothanaickanur	Madathuk ulam	Tiruppur	Nil	253.155	To be Formed
27	AMC - SALARAPATTI	408.010	Salarapatti	Madathuk ulam	Tiruppur	Nil	408.010	To be Formed
28	AMC - AGRAKARA KANNADAPU THUR	316.300	A.K.Pudur Vedapatti Solamadevi	Madathuk ulam	Tiruppur	Nil	316.300	To be Formed
29	AMC - VEDAPATTI	254.050	Myvadi Vedapatti Solamadevi	Madathuk ulam	Tiruppur	Nil	254.050	To be Formed
30	AMC - MYVADI	287.840	Jothampatti Myvadi	Madathuk ulam	Tiruppur	Nil	287.840	To be Formed
31	AMC – Jothampatti	417.250	Jothampatti	Madathuk ulam	Tiruppur	Nil	417.250	To be Formed
32	AMC - THUNGAVI - I	348.850	Thunkavi Jothampatti	Madathuk ulam	Tiruppur	Nil	348.850	To be Formed
33	AMC - THUNGAVI - II	352.620	Thunkavi	Madathuk ulam	Tiruppur	Nil	352.620	To be Formed

	AMC -		Variath -1	Madathat				Tala
34	KARATHOLUV U – II	618.680	Karatholovu Thunkavi	Madathuk ulam	Tiruppur	Nil	618.680	To be Formed
35	AMC - PONNAPURA M	352.395	Ponnapuram Karatholovu	Dharapura m	Tiruppur	Nil	352.395	To be Formed
36	M AMC – KANGAYAMP ALAYAM – I	199.530	Kangeyampalyam Ponnapuram	Dharapura m	Tiruppur	Nil	199.530	To be Formed
37	AMC - KANGAYAMP ALAYAM - II	428.115	Kangeyampalyam Selampalayam	Dharapura m	Tiruppur	Nil	428.115	To be Formed
38	AMC - KANGAYAMP ALAYAM - III	303.640	Kangeyampalyam Selampalayam	Dharapura m	Tiruppur	Nil	303.640	To be Formed
39	AMC - SELLAMPALA YAM -I	286.175	Selampalayam	Dharapura m	Tiruppur	Nil	286.175	To be Formed
40	AMC - SELLAMPALA YAM -II	428.680	Selampalayam	Dharapura m	Tiruppur	Nil	428.680	To be Formed
41	AMC - KANGAYAMP ALAYAM - IV	315.750	Sinnakkampalaya m Kangeyampalyam Selampalayam	Dharapura m	Tiruppur	Nil	315.750	To be Formed
42	AMC - SINNAKAMPA LAYAM -I	300.040	Sinnakkampalaya m Chinnaputhur Selampalayam	Dharapura m	Tiruppur	Nil	300.040	To be Formed
43	AMC - SINNAKAMPA LAYAM -II	328.180	Sinnakkampalaya m Uthupalyam	Dharapura m	Tiruppur	Nil	328.180	To be Formed
44	AMC - SINNAKAMPA LAYAM -III	381.390	Sinnakkampalaya m Uthupalyam Selampalayam	Dharapura m	Tiruppur	Nil	381.390	To be Formed
45	AMC - SINNAKAMPA LAYAM -IV	542.240	Sinnakkampalaya m Uthupalyam Dhalavaipattinam	Dharapura m	Tiruppur	Nil	542.240	To be Formed
46	AMC - CHINNAPUTH UR	573.230	Chinnaputhur Govindapuram Sinnakkampalaya	Dharapura m	Tiruppur	Nil	573.230	To be Formed
47	AMC - GOVINDAPUR AM - I	300.030	Govindapuram	Dharapura m	Tiruppur	Nil	300.030	To be Formed
48	AMC - GOVINDAPUR AM - II	252.640	Govindapuram	Dharapura m	Tiruppur	Nil	252.640	To be Formed
49	<b>VKO -</b> LAKKAMANA NICKENPATTI	2454.66	Uthamapalayam Lakkamanaickenpa tti Pudupai	Dharapura m Kangeyam	Tiruppur	Nil	2454.66	To be Formed

50	<b>NTO -</b> Alamapalay AM	1920.64	Punnivadi, Nallampalayam, Alampalayam Thermiyam, Thumbivadi Moolanur	Dharapura m	Tiruppur	sNil	1920.64	To be Formed
51	Uppar Right flank canal	1015.78	Kethalrew Thoppampatti Varapalayam Madathukulam Puthur Nanjiyampalayam	Dharapura m	Tiruppur	Nil	1015.78	To be Formed
52	Uppar Left flank canal	1436.66	Valayuthapalayal Kethalrew Suriyanalur Kannankovil Sankarandapalaya m	Dharapura m	Tiruppur	Nil	1436.6	To be Formed
			Thoppampatti					
53	UDAYARKULA M KAMMAI	35.36	Alampalayam	Dharapura m	Tiruppur	Nil	35.36	To be Formed
54	KONGUR IDACHIKULA M	48.56	Kongur	Dharapura m	Tiruppur	Nil	48.56	To be Formed
55	KATHUSAMY PALAYAM	63.55	Punjathalaiyur	Dharapura m	Tiruppur	Nil	63.55	To be Formed
56	PorundanKul am	51.84	Periammapatty	Palani	Dindigul	Nil	51.84	To be formed
57	Panchanthan gikulam	110.9	Periammapatty	Palani	Dindigul	Nil	110.9	To be formed
58	NaduKulam	49.35	Periammapatty	Palani	Dindigul	Nil	49.35	To be formed
59	AlanKulam	62.89	Periammapatty	Palani	Dindigul	Nil	62.89	To be formed
60	Ammapattyk ulam	383	Periammapatty	Palani	Dindigul	Nil	383	To be formed
61	Kumarasamu dram	0	Periammapatty	Palani	Dindigul	Nil	0	To be formed
62	ThamaraiKul am	331.85	ThamaraiKulam	Palani	Dindigul	Nil	331.85	To be formed
63	SembaKulam	64.16	Thumbalapatty	Thoppamp atti	Dindigul	Nil	64.16	To be formed
64	SenKulam	109.78	Korrikudavu	Thoppamp atti	Dindigul	Nil	109.78	To be formed To be formed
65	AlanKulam	358.6	Keeranur	Thoppamp atti	Dindigul	Nil	358.6	To be formed
66	Kullappanaic kenkulam Bangarusam	68.95	Balasamudram	Palani	Dindigul	Nil	68.95	To be formed
67	udram ChinnaKula	41.13	Balasamudram	Palani	Dindigul	Nil	41.13	To be formed
68	m	77.69	Balasamudram	Palani	Dindigul	Nil	77.69	
69	ManthaiKula m	92.45	Ayyampulli	Palani	Dindigul	Nil	92.45	To be formed
70	PuduKulam	89.56	Neikkarapatti	Palani	Dindigul	Nil	89.56	To be formed

71	Eravimangal		Eravimangalam	Palani	Dindigul	Nil		To be formed
	am tank	244.2	0				244.2	To be formed
72	SenKulam	164.2	A.Kalayamputhur	Palani	Dindigul	Nil	164.2	
73	OdayaKulam	119.07	A.Kalayamputhur	Palani	Dindigul	Nil	119.07	To be formed
74	AthikaraiKul am	64.66	A.Kalayamputhur	Palani	Dindigul	Nil	64.66	To be formed
75	Sakkarai Kavundanku lam	60.49	A.Kalayamputhur	Palani	Dindigul	Nil	60.49	To be formed
76	Zamin Anicut Channel		Periammapatty	Palani	Dindigul	Nil		To be formed
77	Tadakulam Channel	384.93	Balasamudram	Palani	Dindigul	Nil	384.93	To be formed
78	ThamaraiKul am Anicut Channel		ThamaraiKulam	Palani	Dindigul	Nil		To be formed
79	Kalayamput hur Anicut Channel	223.4	A.Kalayamputhur	Palani	Dindigul	Nil	223.4	To be formed
80	Manur Anicut Channel	394.93	Manur	Palani	Dindigul	Nil	394.93	To be formed
81	Korikkadavu Anicut Channel	191.44	Korikkadavu	Thoppamp atti	Dindigul	Nil	191.44	To be formed
82	Manur Extension Channel	202	Thumbalapatty	Thoppamp atti	Dindigul	Nil	202	To be formed
83	Palar L.S. 0 to 6.30 km	76.85	Periammapatty	Palani	Dindigul	Nil	76.85	To be formed
84	PalarL.S. 6.78 km to 13.36 km	74.22	Eravimangalam, Thathanaickenpatti south, Neikkarapatti	Palani	Dindigul	Nil	74.22	To be formed
85	Palar L.S. 12.96 km to 16.88 km	341.28	Chinnakalayamput hur,	Palani	Dindigul	Nil	341.28	To be formed
86	Palar L.S. 16.88km	230.56	Pethanaickenpatti	Palani	Dindigul	Nil	230.56	To be formed
87	Palar L.S. 16.600km to16.88km	368.64	Sukkamanaicken patti	Palani	Dindigul	Nil	368.64	To be formed
88	Palar L.S. 18.320 km	345.15	Manur, Thathanaickenpatti	Palani	Dindigul	Nil	345.15	To be formed
89	Palar L.S.18.320km to 22.600 km	210.82	Chitrakulam	Palani	Dindigul	Nil	210.82	To be formed
90	Palar L.S.18.32 km to 28.10 km	537.52	Thalaiyuthu,	Thoppamp atti	Dindigul	Nil	537.52	To be formed

90	Palar L.S. 28.100 km to 30.30	260.07	Thalaiyuthu,	Thoppamp atti	Dindigul	Nil	260.07	To be formed
90	Palar L.S. 30.30km to Tail end	200.07	Kolumakondan, Korikkadavu, Kovilammapatti & Melkaraipatti	Thoppamp atti	Dindigul	Nil	200.07	To be formed
		1439.89	-				1439.89	
91	Periyakulam	368.39	West Ayakudi	Ayakudi	Dindigul	Nil	368.39	To be formed
92	Veerakulam	83.77	West Ayakudi	Ayakudi	Dindigul	Nil	83.77	To be formed
93	Oomaikumar a servaikaran kulam	17.25	West Ayakudi	Ayakudi	Dindigul	Nil	17.25	To be formed
94	Sodappanaic ken kulam	21.49	West Ayakudi	Ayakudi	Dindigul	Nil	21.49	To be formed
95	Idumbankula m	34.99	Palani	Palani	Dindigul	Nil	34.99	To be formed
96	Kumaranaick en kulam	44.41	East Ayakudi	Ayakudi	Dindigul	Nil	44.41	To be formed
97	Mappillainai cken kulam	16.87	East Ayakudi	Ayakudi	Dindigul	Nil	16.87	To be formed
98	Pappankula m	126.48	East Ayakudi	Ayakudi	Dindigul	Nil	126.48	To be formed
99	Thattankula m	35.36	Thattankulam	Ayakudi	Dindigul	Nil	35.36	To be formed
100	Kurumbapatt ikulam	28.51	Kothaimangalam	Palani	Dindigul	Nil	28.51	To be formed
101	Devanaicken kulam	58.09	East Ayakudi	Ayakudi	Dindigul	Nil	58.09	To be formed
102	Kallikkanaic ken pattikulam	42.1	Kallikkanaickenpat ti	Palani	Dindigul	Nil	42.1	To be formed
103	Pattikulam	49.21	Earamanaickenpatt i	Ayakudi	Dindigul	Nil	49.21	To be formed
104	Palanipappa nkulam	86.4	Palani	Palani	Dindigul	Nil	86.4	To be formed
105	Vaiyapurikul am	312.4	Palani	Palani	Dindigul	Nil	312.4	To be formed
106	Sirunaickenk ulam	54.45	Palani	Palani	Dindigul	Nil	54.45	To be formed
107	Pudukulam	150.26	Kothaimangalam	Palani	Dindigul	Nil	150.26	To be formed
107	Sinnakulam		Kothaimangalam	Palani	Dindigul	Nil		To be formed
108	Kannadi Perumal kulam	47.65	Ayyampulli	Palani	Dindigul	Nil	47.65	To be formed
109	Periya Ayyampulli kulam	346.25	Ayyampulli	Palani	Dindigul	Nil	346.25	To be formed

110	Chinna							To be formed
	Ayyampulli		Ayyampulli	Palani	Dindigul	Nil		10 be formed
	kulam	50	ryyumpum		Dinaigui		50	
111	Periya Ottukulam	61.77	Ayyampulli	Palani	Dindigul	Nil	61.77	To be formed
112	Chinna Ottukulam	62.55	Ayyampulli	Palani	Dindigul	Nil	62.55	To be formed
113	Ayyankulam	65.16	East Ayakudi	Palani	Dindigul	Nil	65.16	To be formed
114	Karunkulam	74.49	Parithiyur	Palani	Dindigul	Nil	74.49	To be formed
115	Karisalkulam Senkulam	161.3	Amarapoondi	Palani	Dindigul	Nil	161.3	To be formed
116	Karunkulam	86.4	Chatrapatti	Palani	Dindigul	Nil	86.4	To be formed
	Pappan		×		U			To be formed
117	channel	274.6	East Ayakudi	Palani	Dindigul	Nil	274.6	
	Periyavoikka							To be formed
118	1		East Ayakudi	Palani	Dindigul	Nil		
	channel	195.28					195.28	
	Kothai							To be formed
119	Anicut	455.04	Palani	Palani	Dindigul	Nil	455.04	
	Channel	155.94					155.94	TT 1 ( 1
	Kallakadu Anicut							To be formed
	channel							
120	Uppuchetty		Palani	Palani	Dindigul	Nil		
	Anicut							
	channel	81.54					81.54	
121	Pudukulam	115.365	Pudukulam	Palani	Dindigul	Nil	115.365	To be formed
121	Ammakulam	29.285	Ammakulam	Palani	Dindigul	Nil	29.285	To be formed
121	Rayakulam	40.1	Rayakulam	Palani	Dindigul	Nil	40.1	To be formed
	Panchanthan	10.1	Panchanthangikula	Reddiampa	Ŭ		40.1	To be formed
122	gikulam	136.83	m	di	Dindigul	Nil	136.83	10 be formed
123	Sembakulam	18.72	Ayyampalayam	Palani	Dindigul	Nil	18.72	To be formed
		10.72		Madathuk			10.72	To be formed
124	Muthukulam	112.02	Sangaramanallur	ulam	Tiruppur	Nil	112.02	10 00 10111100
104	01.1		0 11	Madathuk		2.71		To be formed
124	Ottukulam	0	Sangaramanallur	ulam	Tiruppur	Nil	0	
124	Kuyavankutt		C	Madathuk	T:	NT:1		To be formed
124	aikulam	13.91	Sangaramanallur	ulam	Tiruppur	Nil	13.91	
125	Kothaiamma		Kolumum	Madathuk	Tiruppur	Nil		To be formed
125	nkulam	155.96	Rolullull	ulam	Inuppui	1 111	155.96	
	Kudhiraiyar							To be formed
126	RMC @LS 0-		Andipatti	Palani	Dindigul	Nil		
	3200M	187.805					187.805	
	Kudhiraiya		~					To be formed
127	RMC @LS	=	Chitharevu	Palani	Dindigul	Nil		
	3200-3976	514.285					514.285	<b>m</b> 1 4 5
100	Kudhiraiya		D (11	<b>D1</b> .	D: 1: 1	2.11		To be formed
128	RMC @LS	220.005	Papampatti	Palani	Dindigul	Nil	220.005	
	3976 - 6870	329.095					329.095	To be formed
	Kudhiraiya RMC @LS							To be formed
			Kavalapatti	Palani	Dindigul	Nil		
129	6870-Tail				1	1		
129	6870- Tail Dam	284.61					284.61	
129 130	6870- Tail Dam Perumalkula	284.61 <b>102.12</b>	Virupatchi	Ottanchatti	Dindigul	Nil	284.61 <b>102.12</b>	To be formed

131	Senkulam	46.02	veirappur	Ottanchatti ram	Dindigul	Nil	46.02	To be formed
132	Ramasamuth iram	40.97	veirappur	Ottanchatti ram	Dindigul	Nil	40.97	To be formed
133	Muthuboopa la Sumudram	44.52	Dasaripatti	Ottanchatti ram	Dindigul	Nil	44.52	To be formed
134	Sadayakulam	219.40	Thangachiammapa tti	Ottanchatti ram	Dindigul	Nil	219.40	To be formed
135	Javathupatti Periyakulam	46.29	Javathupatti	Ottanchatti ram	Dindigul	Nil	46.29	To be formed
136	Kaveriyamm apatti periyakulam	43.20	Kaveryammapatti	Ottanchatti ram	Dindigul	Nil	43.20	To be formed
137	Kollapatti Tank	87.04	Kollapatti	Ottanchatti ram	Dindigul	Nil	87.04	To be formed
138	Navakani Tank	111.74	Navakani	Ottanchatti ram	Dindigul	Nil	111.74	To be formed
139	Udiyakulam	65.92	Dhasaripatti	Ottanchatti ram	Dindigul	Nil	65.92	To be formed
140	Appasamudr am	7.81	Idayakottai	Ottanchatti ram	Dindigul	Nil	7.81	To be formed
141	Perumalkula m supply channel	51.93	Viurpatchi	Ottanchatti ram	Dindigul	Nil	51.93	To be formed
142	Ramasamudr am supply channel	9.35	veirappur	Ottanchatti ram	Dindigul	Nil	9.35	To be formed
143	Javathupatti anicut channel	117.41	Javathupatti	Ottanchatti ram	Dindigul	Nil	117.41	To be formed
144	Varadhagan anicut channel	7.81	Idayakottai	Ottanchatti ram	Dindigul	Nil	7.81	To be formed
145	Koraiyouthu anicut channel	107.29	Senthamangalam	Aravakuric hi	Karur	Nil	107.29	To be formed
146	Ottanai anicut channel	53.80	Pallapatti	Aravakuric hi	Karur	Nil	53.80	To be formed
147	Aravakurchi anicut channel	38.66	Aravakurchi	Aravakuric hi	Karur	Nil	38.66	To be formed
148	Nanganjiyar chennel Edayakottai	623.22	Edayakottai	Ottanchatti ram	Dindigul	Nil	623.22	To be formed
149	Nanganjiyar chennel Chinnakkam patti	155.8	Chinnakkampatti	Ottanchatti ram	Dindigul	Nil	155.8	To be formed
150	Nanganjiyar chennel Valayapatti	279.23	Valayapatti	Ottanchatti ram	Dindigul	Nil	279.23	To be formed
151	Nanganjiyar chennel Senthamanga lam	1471.034	Senthamangalam	Aravakuric hi	Karur	Nil	1471.034	To be formed

152	Pothakanmoi	45.75	Markkampatty	Dindigul	Dindigul	Nil	45.75	To be formed
153	Anaikulam	62.40	Periakottai	Dindigul	Dindigul	Nil	62.40	To be formed
154	Mullipadi Periyakulam	78.78	Mullipadi	Dindigul	Dindigul	Nil	78.78	To be formed
155	Manthai Periyakulam	45.22	Thamaraipadi	Dindigul	Dindigul	Nil	45.22	To be formed
156	PadiurPeriya Kulam	88.62	Padiyur	Vadamadu rai	Dindigul	Nil	88.62	To be formed
157	Kulathur Periyasamud ram	128.39	Kulathur	Vadamadu rai	Dindigul	Nil	128.39	To be formed
158	Marambadi Periya kulam	54.31	Marambadi	Vadamadu rai	Dindigul	Nil	54.31	To be formed
159	Velvarkottai Periyakulam	47.30	velvarkottai	Vadamadu rai	Dindigul	Nil	47.30	To be formed
160	Pilathumant haikulam	51.00	Pilathu	Vadamadu rai	Dindigul	Nil	51.00	To be formed
161	Thennampatt imanthaikula m	73.06	Thennampatti	Vadamadu rai	Dindigul	Nil	73.06	To be formed
162	Vallakondan samuduram tank	101.64	Nallamanarkottai	Vadamadu rai	Dindigul	Nil	101.64	To be formed
163	Rmamagiri tank	78.76	R.Kombai	Gugeliyam parai	Dindigul	Nil	78.76	To be formed
164	Uthangaraiy artank	51.00	Velayuthampalaya m	Vadamadu rai	Dindigul	Nil	51.00	To be formed
165	Sangalianko vil odai Tank	151.76	Anjukulipatti	Sannarpatt i	Dindigul	Nil	151.76	To be formed
166	Pagadai Kulam	87.17	Athoor	Attur	Dindigul	Nil	87.17	To be formed
167	Pilvettikulam	155.82	Athoor	Attur	Dindigul	Nil	155.82	To be formed
168	Aranmani Odai kulam	60.78	Thoppampatti	Attur	Dindigul	Nil	60.78	To be formed
169	A.Vellodu Periyakulam	41.95	A.Vellodu	Dindigul	Dindigul	Nil	41.95	To be formed
170	Rengasamud ram	35.19	Pillaiyar natham	Attur	Dindigul	Nil	35.19	To be formed
171	Kottur avarampatti Thamarikua m	87.65	Agaram	Dindigul	Dindigul	Nil	87.65	To be formed
172	Brammasam udram	67.76	Anaipatti	Dindigul	Dindigul	Nil	67.76	To be formed
173	Thamaraikul am	213.40	Sindhalagundu	Reddiyar Chattiram	Dindigul	Nil	213.40	To be formed
174	Muthanampa tti kulam	59.55	kuttathupatti	Reddiyar Chattiram	Dindigul	Nil	59.55	To be formed
175	Mangarai tank	48.98	Mangarai	Reddiyar Chattiram	Dindigul	Nil	48.98	To be formed
176	Kathirnarasi ngaperumal kulam	95.90	Kothapulli	Reddiyar Chattiram	Dindigul	Nil	95.90	To be formed
177	Pudukulam Kombaiyar	118.67	Chatrapatti	Reddiyar Chattiram	Dindigul	Nil	118.67	To be formed

	tank							
178	Kadirayanku alm Kulam	69.53	Palayakannivadi	Reddiyar Chattiram	Dindigul	Nil	69.53	To be formed
179	Thethupatti Tank	102.29	Thethupatti	Reddiyar Chattiram	Dindigul	Nil	102.29	To be formed
180	Chinnakomb aiyar tank	83.77	Kodalvavi	Reddiyar Chattiram	Dindigul	Nil	83.77	To be formed
181	Periyakompa iyar tank	566.77	Kodalvavi	Reddiyar Chattiram	Dindigul	Nil	566.77	To be formed
182	Nayodai tank	185.33	Sirangadu	Reddiyar Chattiram	Dindigul	Nil	185.33	To be formed
183	Ramakkalod ai & Anaivilunda nodai tank	107.69	A.Vellodu & Keelakottai	Reddiyar Chattiram	Dindigul	Nil	107.69	To be formed
184	Neelamalaik ottai tank	74.85	Kariyagoundanpatt i	Reddiyar Chattiram	Dindigul	Nil	74.85	To be formed
185	Nagasamudr am	51.55	Pallapatti	Dindigul	Dindigul	Nil	51.55	To be formed
186	Kodaganar Dam LMC Kalvarpatti	175.23	Kalvarpatti	Vadasandu r	Dindigul	Nil	175.23	To be formed
187	Kodaganar Dam RMC Palapatti	385.68	Palapatti	Vadasandu r	Dindigul	Nil	385.68	To be formed
188	Kodaganar Dam RMC Koombur	295.03	Koombur	Vadasandu r	Dindigul	Nil	295.03	To be formed
189	Kodaganar Dam RMC R.Vellodu	140.24	R.Vellodu	Vadasandu r	Dindigul	Nil	140.24	To be formed
190	Kodaganar Dam RMC Thirukkorna m	489.31	Thirukkornam	Vadasandu r	Dindigul	Nil	489.31	To be formed
191	Kodaganar Dam LMC Periyamanju veli	445.61	Periyamanjuveli	Aravakuric hi	Karur	Nil	445.61	To be formed
192	Kodaganar Dam RMC Esanatham	1047.66	Esanatham	Aravakuric hi	Karur	Nil	1047.66	To be formed
193	Kodaganar Dam RMC Ammapatti	666.58	Varakkapatti	Aravakuric hi	Karur	Nil	666.58	To be formed

	ABSTRACT	
1	Command area already covered under WRCP and other Projects/Schemes	NIL
2	Command area proposed to be covered under IAMWARM Project (Total of column 8) -	53334.22.
3	Total Command area controlled by WRO of PWD in the Sub basin	53334.22.
4	Total No. of WUAs already formed under WRCP	NIL
5	Total No.of WUAs proposed to be formed under IAMWARM	193
	Total No. of WUAs that will cover the entire sub-basin	193

### Annexure - II WALK THROUGH SURVEY

Sl No	Walk Through Survey	Farmers request		Technical	Soluti	ion						Prop	osals	in Pl	an			Rem	arks	
110	Date	Location		WRO	Agri	Horti	AED	TNAU	AGMT	AHD	Fisherie	WRO	Agri	Horti	AED	TNAU	AGMT	AHD	Fisherie s	
1	2	3	4	5	6	7	8	9	10	11	12	13	1 4	15	16	17	18	19	20	21
1	05.10.12	Komaralingam, Sholamathevi, Sarkar kannadipudur, Dhalavaipattina m, Alangium	<ul> <li>Clearing the scrub jungle.</li> <li>Removal of silt.</li> <li>Retaining wall using M 10 Concrete</li> <li>Providing Skin wall 20 Cm thick using M 20 Concrete</li> </ul>	All proposals are accepted								<ul> <li>Clearing the scrub jungle.</li> <li>Removal of silt.</li> <li>Retaining wall using M 10 Concrete</li> <li>Providing Skin wall 20 Cm thick using M 20 Concrete</li> </ul>								
2	05.10.12	Dharapuram, Kolinjivadi, Nanjaithalaiyur , Nanjaikalikuruc hi	<ul> <li>Clearing the scrub jungle.</li> <li>Removal of silt.</li> <li>Retaining wall using M 10 Concrete</li> <li>Providing Skin wall 20 Cm thick using M 20 Concrete</li> </ul>	All proposals are accepted								<ul> <li>Clearing the scrub jungle.</li> <li>Removal of silt.</li> <li>Retaining wall using M 10 Concrete</li> <li>Providing Skin wall 20 Cm</li> </ul>								

					thick using M 20 Concrete		
3	06.10.12	Ponnivadi, Nallapalayam, Alampalayam, Moolanur, Thoorampadi	<ul> <li>Bund Strengthening and Raising.</li> <li>Repairs to weirs, Aprons, Revertment.</li> <li>Rehabilitation of Anicuts.</li> <li>Cross masonry works.</li> </ul>	All proposals are accepted	<ul> <li>Bund Strengthening and Raising.</li> <li>Repairs to weirs, Aprons, Revertment.</li> <li>Rehabilitation of Anicuts.</li> <li>Cross masonry works.</li> </ul>		
4,5, 6	06.10.12	Dharapuram	<ul> <li>Clearing the scrub jungle.</li> <li>Removal of silt.</li> <li>Retaining wall using M 10 Concrete</li> </ul>	All proposals are accepted	<ul> <li>Clearing the scrub jungle.</li> <li>Removal of silt.</li> <li>Retaining wall using M 10 Concrete</li> </ul>		
7	03.10.12	Nanjaithalaiyur	<ul><li>Clearing the scrub jungle</li><li>Skin Wall</li><li>Apron concrete</li></ul>	All proposals are accepted	<ul><li>Rehabilitation</li><li>Of anicut.</li></ul>		
8	08.10.12	Chettipalayam	<ul> <li>Renewl of hoisting arrangements.</li> <li>Screw gearing shutters</li> <li>Providing handrails</li> <li>Repairs and renewal of lift gate</li> </ul>	All proposals are accepted	<ul> <li>Renewl of hoisting arrangements.</li> <li>Screw gearing shutters</li> <li>Providing handrails</li> <li>Repairs and renewal of lift gate</li> </ul>		

9	03.10.12	Thamaraikulam and Thadakulam	<ul> <li>Rehabilitation of Tanks, Anicuts and supply channels.</li> <li>Tank bund raising and strengthening works.</li> <li>Repairs and reconstruction of Tank sluices, sluice barrels.</li> <li>Lining of outlet channels upto 30m.</li> </ul>	All proposals are accepted	Rehabilitation of Tanks, Anicuts and supply channels. Tank bund raising and strengthening works. Repairs and reconstruction of Tank sluices, sluice barrels. Lining of outlet channels upto 30m.
10	03.10.12	Palani	<ul> <li>Rehabilitation of Left out,Non system tanks,Anicuts.</li> <li>Reconstruction of Tank sluices, sluice barrels.</li> <li>Cross masonry works</li> </ul>	All proposals are accepted	Rehabilitation of Left out,Non system tanks,Anicuts. Reconstruction of Tank sluices, sluice barrels. Cross masonry works
11	04.10.12	Neelamalaikottai, Dharmathupatti, Thadicombu and Boothipuram	<ul> <li>Rehabilitation of damaged anicuts</li> <li>Rehabilitation of Flood protection wall.</li> </ul>	All proposals are accepted	Rehabilitatio     n of     damaged     anicuts     Rehabilitatio     n of Flood     protection     wall.
12	04.10.12 05.10.12	Vemparpatty	<ul> <li>Rehabilitation of damaged anicuts</li> <li>Rehabilitation of Flood protection</li> </ul>	All proposals are accepted	

			wall.			Rehabilitatio     n of Flood     protection     wall.			
13	06.10.12	Avilipatty, Veerachinnampatti	<ul> <li>Clearing the juliflora jungle</li> <li>Repairs and reconstruction of cross masonry structures, cross drainage and retaining walls in selective reaches.</li> <li>Canal bed lining with M15, 75mm thickness from L.S 26.500km to 53.515km</li> <li>Provision for porous plug at 2.70m c/c</li> <li>Provision for laying demarcation stone.</li> </ul>	All proposal s are accepte d.		<ul> <li>Clearing the juliflora jungle</li> <li>Repairs and reconstruction of cross masonry structures, cross drainage and retaining walls in selective reaches.</li> </ul>			
14	05.10.12 06.10.12 07.10.12	Vijayapuram, Vellianai, Veerarakkiam, Valavikaran pudur	<ul> <li>Clearing the juliflora jungle</li> <li>Repairs and reconstruction of cross masonry structures, cross drainage and retaining walls in selective reaches.</li> <li>Canal bed lining with M15, 75mm thickness from L.S 26.500km to 53.515km</li> <li>Provision for porous plug at 2.70m c/c</li> <li>Provision for laying demarcation stone.</li> </ul>	All proposal s are accepte d.		<ul> <li>Clearing the juliflora jungle</li> <li>Repairs and reconstruction of cross masonry structures, cross drainage and retaining walls in selective reaches.</li> <li>Canal bed lining with M15, 75mm thickness from L.S 26.500km to 53.515km</li> </ul>			

					Provision for porous plug at 2.70m c/c Provision for laying demarcation stone.		
15	08.12.12	pappankulam	• Reconstruction of canal syphon	All proposals are accepted	<ul> <li>Reconstruct ion of canal syphon</li> </ul>		
16	12.12.12	Dharapuram	• Construction of Check Dam	All proposals are accepted	• Constructio n of Check Dam		
17	12.12.12	Vemparapatti, Avilipatty, Veerachinnampatti	<ul> <li>Clearing the juliflora jungle</li> <li>Repairs and reconstruction of retaining walls in selective reaches.</li> <li>Provision for laying demarcation stone.</li> </ul>	All proposals are accepted	<ul> <li>Clearing the juliflora jungle</li> <li>Repairs retaining walls in selective reaches.</li> </ul>		

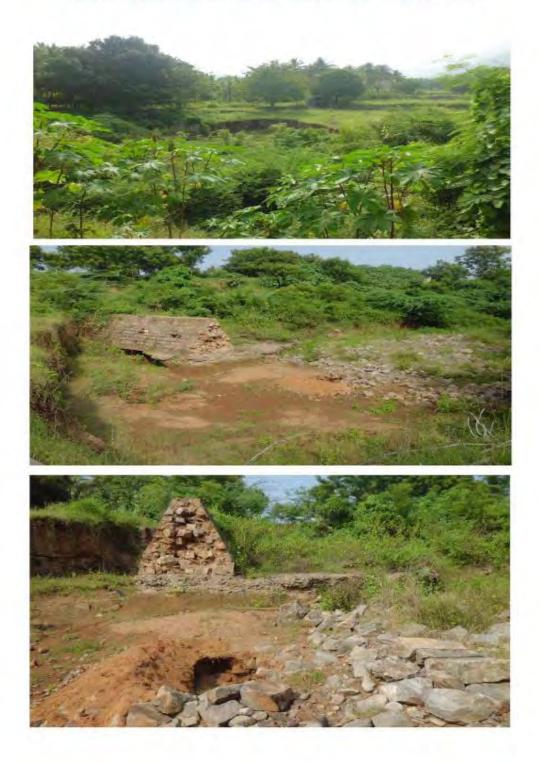
### WALK THROUGH SURVEY AT ALANGIAM CHANNAL

### ON NEELAMALAIKOTTAI TANK SURPLUS CHANAL DROP

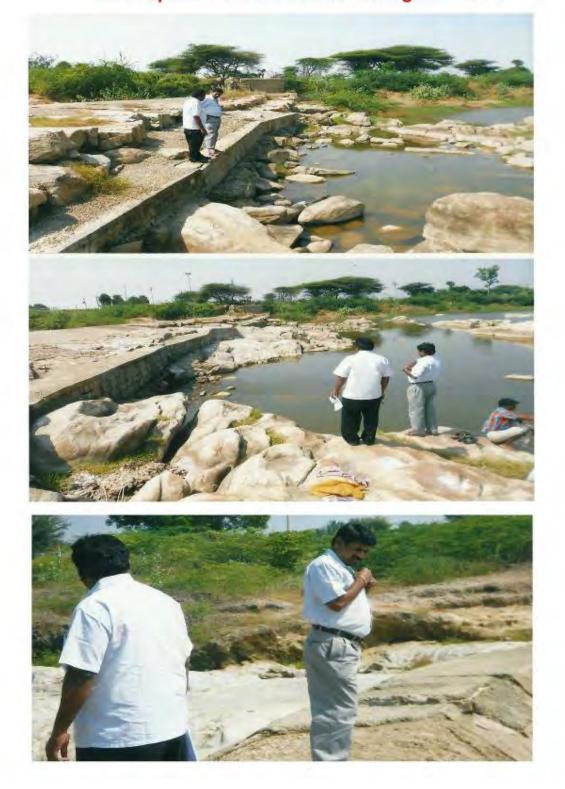




## NEELAMALAI KOTTAI TANK SURPLUS CHANNEL DROP



# Bhoothipuram Anicut Across Kodaganar River



## ALAGARPUDUKULAM

2.8



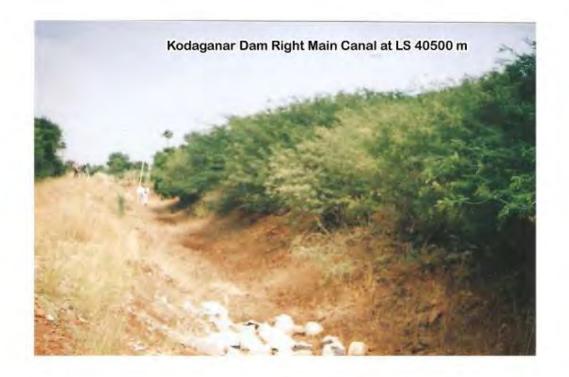


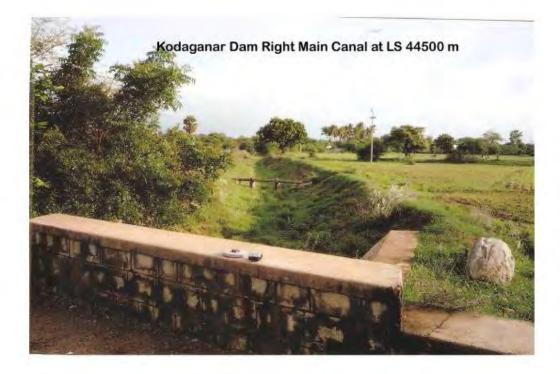
## KANNAN DHANAPAL THOTTAM

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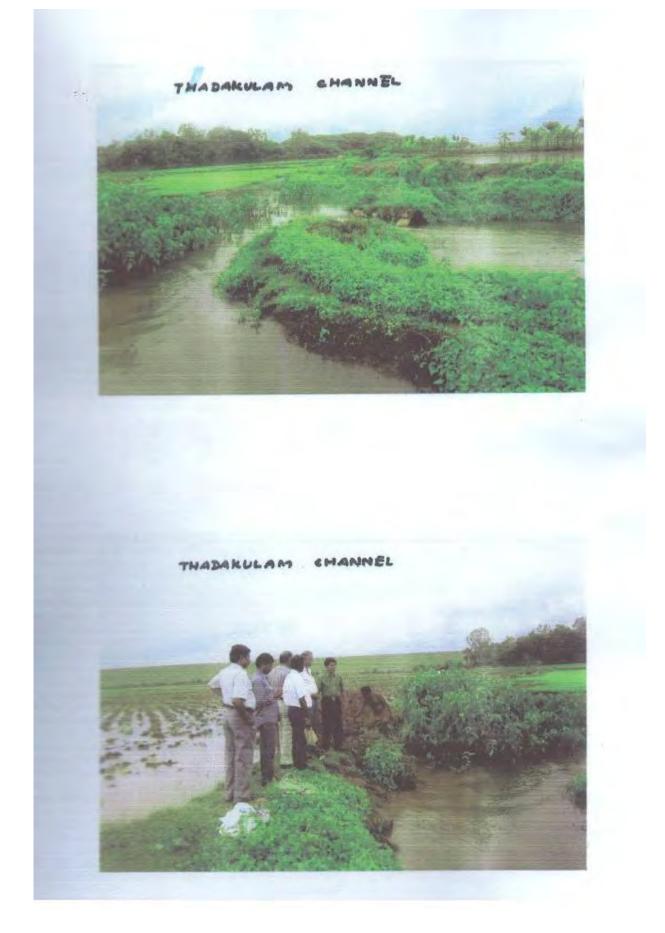


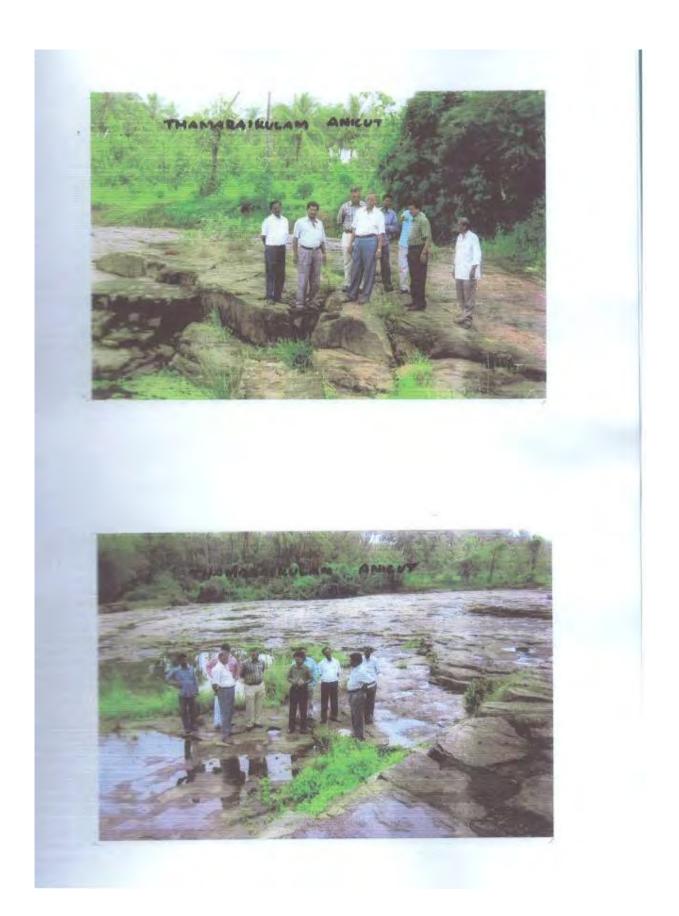


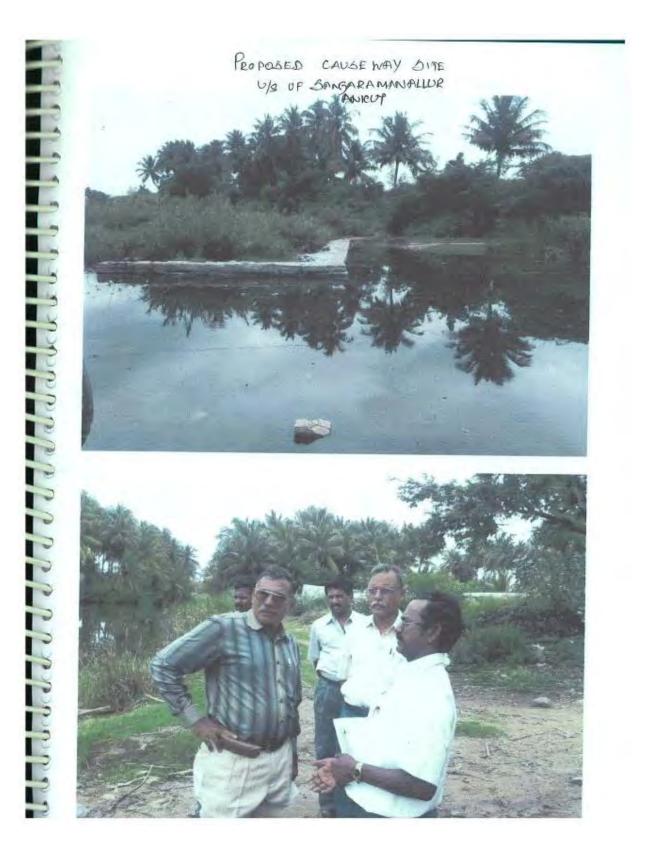


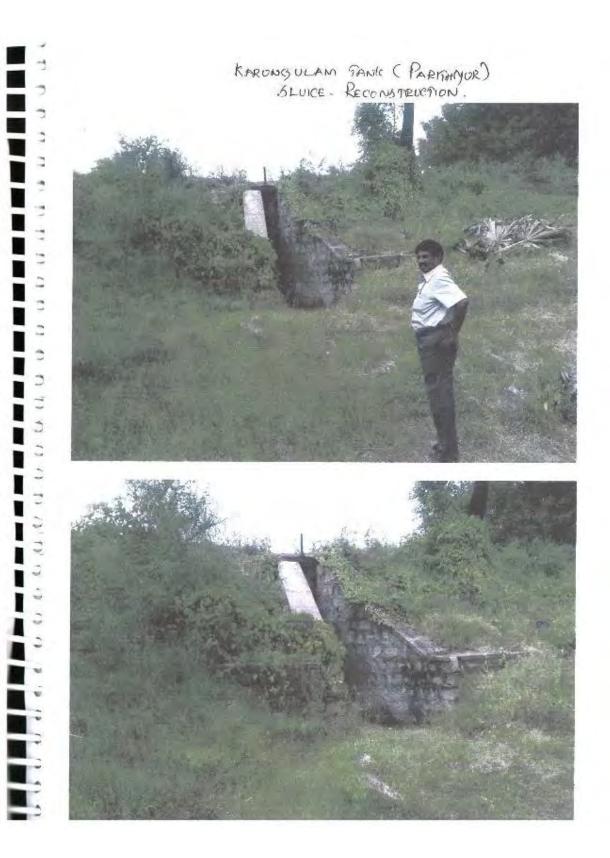












### WALK THROUGH SURVEY AT AMARAVATHI OLD ANICUT ON NANJAITHALIYUR ANICUT



### WALK THROUGH SURVEY AT NALLATHANGAL MAIN CANAL

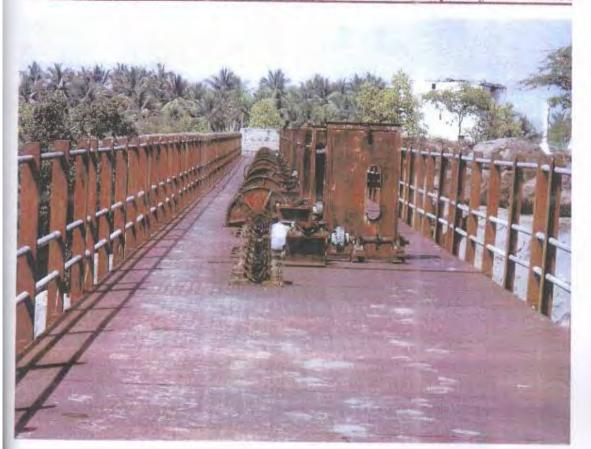


NALLATHANGAL ODAI RESERVOIR MAIN CANAL AT L.S.900 MT



NALLATHANGAL ODAI RESERVOIR MAIN CANAL AT L.S.9800 MT

Damaged Hoisting Arrangements Of Chettipalayam Anici



## Damaged Vertical Stiffners Of Lift Gates





# Damaged Vertical Lift Gates Of Chettipalayam Anicu





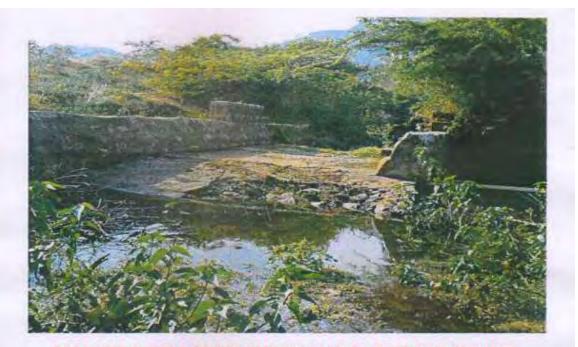








DAMAGED CULVERT IN KUMARALINGAM LEADING CHANNEL



DAMAGED SUPER PASSAGE IN KUMARALINGAM LEADING CHANNEL



DAMAGED RETAINING WALL IN SARKAR KANNADIPUTHUR LEADING CHANNEL



PROPOSED RETAINING WALL IN STORAGE CHANNEL



DAMAGED SURPLUS PORTIONS IN SOLAMADEVI LEADING CHANNEL



PROPOSED RETAINING WALL PORTION IN DHARAPURAM LEADING CHANNEL

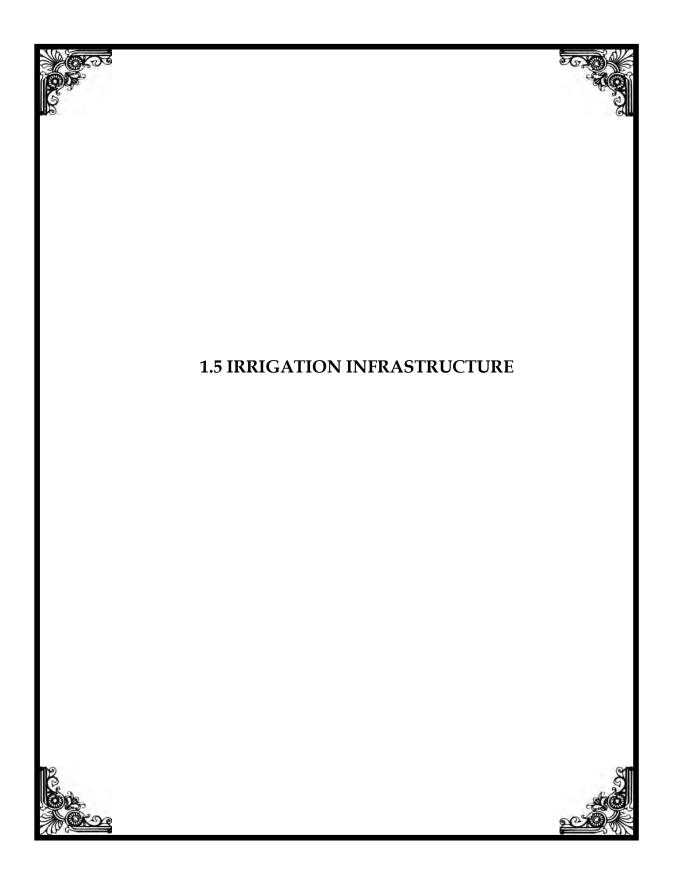


DAMAGED RETAINING WALL PORTION IN DHARAPURAM LEADING CHANNEL

M DAMAGED SYPHON AT LS 23658 M IN AMARAVATHI MAIN CANAL



DAMAGED SYPHON AT LS. 22933M IN AMARAVATHI MAIN CANAL



### Amaravathy Sub Basin Phase-IV Stage-II Package wise Abstract of Tanks, Rehabilitation to Tanks and Measuring Device Proposed

SI. No.	Package No.	No. of Anicuts	No. of Tanks	No. of Tanks taken for Rehabilitation including Measuring Device	No. of Tanks in which Measuring Device alone proposed
1	1				
2	2				
3	3				
4	4				
5	5				
6	6				
7	7				
8	8				
9	9				
10	10		2	2	
11	11				
12	12				
13	13				
14	14				
15	15				
16	16				
17	17				
	Total		2	2	

# ANNEXURE - II- ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT IN AMARAVATHI SUB BASIN - PHASE-IV STAGE-I

SL.			ANICUT	Г		SYSTEM TA	NK	1	NON- SYSTEM	TANK		ER SUPPLY NNEL	REMARK S
NO	DETAILS	NO S	SUPPLY CHANNE L IN KM	DIRECT AYACUT HA	NOS	SUPPLY CHANNEL IN KM	AYACUT HA	NO S	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT HA	
1	Available Infrastructure in sub basin	82	415.953	15429.22	44	15.565	4182.13	58	43.245	5958.29	308.27	27764.58	53334.22
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-		-	-	-	-	
3	Infrastructures that does not require any rehabilitation worksunder iamwarm	59	223.98	2250.95	4	-	916.06	8	21.115	996.71	51.033	7563.34	-
4	a)Work approved under NABARD	13	-	-	-	-	-	-	-	-	-	-	Anicuts works are approved under NABARD
	b)Work proposed in IAMWARM alone	10	189.97	13178.27	40	15.565	3266.07	50	22.13	4961.58	257.21	20201.24	-
5.	Measuring Devices & Lining only	-	-	-	44	-	-	58	-	-	-	-	-

1.) Certified that the Panchayat Union Tanks are not considered in this project.

2). Certified that the items executed under various schemes (Viz, WRCP I, NABARD, PART II schemes etc.,) since 2000 were not proposed in this project.

### <u>Statement I</u> <u>Rehabilitation of Left out works in Amaravathi Sub basin (Leftout works)</u> Package No: 01 To 17 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 Abstract showing the details of Rehabilitation works proposed

SL NO	Description	Tanks Nos	Anicut Nos	Supply channel Nos
1	Available infrastructure in the sub basin	102	82	37
2	Rehabilitation works taken up under IAMWARM project			
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	90	10	22
	b)Infrastructure taken up under IAMWARM but certain components not taken up then, but require rehabilitation now.	2	9+1*	14+1**
3	Tanks not taken up for rehabilitation since 2005 under any other schemes			
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	8	-	-
	b)Infrastructure in which certain components not taken up since 2005 but require rehabilitation now.			
4	Total No. of infrastructures requiring rehabilitation now.	2	9+1*	14+1**

\* Proposed checkdam in Amaravathi River

\*\* Proposed protection wall in Santhanavarthini River

**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 infrastructure now proposed were not taken up under IAMWARM Project

4. For item No.3- certified that the works are not executed under various scheme (viz., NABARD, part II scheme, Etc.,) and IAMWARM since 2005.

### Statement II- A

### **REHABILITATION OF LEFTOUT TANKS & INFRASTRUCTURE IN SUB BASIN OF IAMWARM PROJECT**

### Package No: 01 to 17 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

### Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks	Tank Bund improvements		Repairs to sluice		Reconstruction of sluices		Repairs to weirs		Reconstruction of weirs		Shutter Renewal		Total
	1	Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
	2	3476	45.48			2	24.90	1	9.86			2	0.60	80.84

#### **REHABILITATION OF T ANK WORKS**

### Statement II- B REHABILITATION OF IRRIGATION CHANNELS

Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS) Package : 1 To17/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

SL NO	Name of tanks	Desilting of irrigation channel		Lining of irrigation channel		Repairs to Drops, siphon cistern		Repairs to culvert aqueduct etc.,		Shutter Renewal		Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
		81172	39.85	2	428.05	9	632.01	19	134.23	9	6.75	1240.89

# <u>Statement II- C</u> <u>REHABILITATION OF ANICUTS & SUPPLY CHANNEL</u> Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS) Package : 1 To17 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

Name of Sub basin : Amaravathi Sub Basin

SI.NO	Name of Anicut/Supply Channel	Reconstruction of anicut		Repairs to Anicut		Shutter Renewal		Supply	Total	
		No	Amount	No	Amount	No	Amount	Length in m	Amount	
		3	1111.61	8	245.77	24	213.15	16.195	2952.03	4522.56

#### <u>Statement I</u> <u>Rehabilitation of Left out works in Amaravathi Sub basin (Leftout works)</u> Package No: 01 TO 17 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 Abstract showing the details of Rehabilitation works proposed

SL NO	Description	Tanks Nos	Anicut Nos	Supply channel Nos
1	Available infrastructure in the sub basin	-	-	-
	Package-1	-	-	
	Package-2	-	-	-
	Package-3	-	-	-
	Package-4	-	-	-
	Package-5	-	-	-
	Package-6	-	-	-
	Package-7	-	-	-
	Package-8	-	-	-
	Package-9	-	-	-
	Package-10	-	-	-
	Package-11	-	-	-
	Package-12	-	-	-
	Package-13			
	Package-14			
	Package-15			
	Package-16			
	Package-17			
	Total			

2a)	Rehabilitation works taken up under IAMWARM project	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	Package-1	-	-	-
	Package-2	-	-	-
	Package-3	-	-	-
	Package-4	-	-	-
	Package-5	-	-	-
	Package-6	-	-	-
	Package-7	-	-	-
	Package-8	-	-	-
	Package-9	-	-	-
	Package-10	-	-	-
	Package-11	-	-	-
	Package-12	-	-	-
	Package-13	-	-	-
	Package-14	-	-	-
	Package-15	-	-	-
	Package-16	-	-	-
	Package-17	-	-	-
	Total	-	-	-

2b)	b)Infrastructure taken up under IAMWARM but certain components not taken up then, but require rehabilitation now.	-	-	-
	Package-1	-	-	3
	Package-2	-	-	3
	Package-3	-	-	1
	Package-4	-	-	1
	Package-5	-	-	1
	Package-6	-	-	1
	Package-7	-	1	-
	Package-8	-	1	-
	Package-9	-	1	2
	Package-10	2	1	-
	Package-11	-	3	-
	Package-12	-	1	-
	Package-13	-	1	-
	Package-14	-	-	1
	Package-15	-	-	1
	Package-16	-	1*	-
	Package-17	-	-	1`**
	Total	2	9+1	14+1

\* Proposed checkdam in Amaravathi River \*\* Proposed protection wall in Santhanavarthini River

Tanks not taken up for rehabilitation since 2005 under any other schemes	-	-	-
a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
Package-1	-	-	-
Package-2	-	-	-
Package-3	-	-	-
Package-4	-	-	-
Package-5	-	-	-
Package-6	-	-	-
Package-7	-	-	-
Package-8	-	-	-
Package-9	-	-	-
Package-10	-	-	-
Package-11	-	-	-
Package-12	-	-	-
Package-13	-	-	-
Package-14	-	-	-
Package-15	-	-	-
Package-16	-	-	-
Package-17	-	-	-
Total	-	-	-

3b)	b)Infrastructure in which certain components not taken up since 2005 but require rehabilitation now.	-	-	-
	Package-1	-	-	-
	Package-2	-	-	-
	Package-3	-	-	-
	Package-4	-	-	-
	Package-5	-	-	-
	Package-6	-	-	-
	Package-7	-	-	-
	Package-8	-	-	-
	Package-9	-	-	-
	Package-10	-	-	-
	Package-11	-	-	-
	Package-12	-	-	-
	Package-13	-	-	-
	Package-14	-	-	-
	Package-15	-	-	-
	Package-16	-	-	-
	Package-17	-	-	-
	Total	-	-	-

4	Total No. of infrastructures requiring rehabilitation now.	-	-	-
	Package-1	-	-	3
	Package-2	-	-	3
	Package-3	-	-	1
	Package-4	-	-	1
	Package-5	-	-	1
	Package-6	-	-	1
	Package-7	-	1	-
	Package-8	-	1	-
	Package-9	-	1	2
	Package-10	2	1	-
	Package-11	-	3	-
	Package-12	-	1	-
	Package-13	-	1	-
	Package-14	-	-	1
	Package-15	-	-	1
	Package-16	-	1*	-
	Package-17	-	-	1`**
	Total	2	9+1	14+1

\* Proposed checkdam in Amaravathi River

\*\* Proposed protection wall in Santhanavarthini River

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 infrastructure now proposed were not taken up under IAMWARM Project
- 4. For item No.3- certified that the works are not executed under various scheme (viz., NABARD, part II scheme, Etc.,) and IAMWARM since 2005.

# Statement II- A REHABILITATION OF LEFTOUT TANKS & INFRASTRUCTURE IN SUB BASIN OF IAMWARM PROJECT

# Package No: 01 TO 17 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

SL NO	Name of tanks		Bund vements		Repairs to sluice		onstruction sluices	Repairs to weirs		Reconstruction of weirs		Renewal		Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
Package-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Package-2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Package-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Package-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Package-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Package-6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Package-7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Package-8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Package-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Package-10	2	3476	45.48			2	24.90	1	9.86			2	0.60	80.84
Package-11	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Package-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Package-13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Package-14	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Package-15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Package-16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Package-17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	2	3476	45.48			2	24.90	1	9.86			2	0.60	80.84

#### Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS) REHABILITATION OF T ANK WORKS

# Statement II- B REHABILITATION OF IRRIGATION CHANNELS

# Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS) Package : 01 TO 17 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

SL NO	Name Desilting of of irrigation channe tanks			Lining of irrigation channel		Droj	epairs to ps, siphon cistern	Repairs	s to culvert aqueduct etc.,		Shutter enewal	Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
1		m										
Package-1	-	1442	9.08	-	-	3	110.59	-	-	9	6.75	126.42
Package-2	-	2400	8.33	-	-	3	274.91	-	-	-	-	283.24
Package-3	-	50315	2.97	2	428.05	-	-	15	5.77	-	-	436.79
Package-4	-	-	-	-	-	-	-	-	-	-	-	-
Package-5	-	-	-	-	-	-	-	-	-	-	-	-
Package-6	-	-	-	-	-	-	-	-	-	-	-	-
Package-7	-	-	-	-	-	-	-	-	-	-	-	-
Package-8	-	-	-	-	-	-	-	-	-	-	-	-
Package-9	-	-	-	-	-	-	-	-	-	-	-	-
Package-10	-	-	-	-	-	-	-	1	74.51	-	-	74.51
Package-11	-	-	-	-	-	1	148.77	-	-	-	-	148.77
Package-12	-	-	-	-	-	-	-	-	-	-	-	-
Package-13	-	-	-	-	-	-	-	-	-	-	-	-
Package-14	-	27015	19.47	-	-	-	-	-	-	-	-	19.47
Package-15	-	-	-	-	-	2	97.74	3	53.95			151.69
Package-16	-	-	-	-	-	-	-	-	-	-	-	-
Package-17	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	81172	39.85	2	428.05	9	632.01	19	134.23	9	6.75	1240.89

# Statement II- C

# Package : 01 TO 17 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

# **REHABILITATION OF SUPPLY CHANNEL**

Name of Sub basin : Amaravathi Sub Basin

SI.NO	Package No.		struction of anicut	Repai	rs to Anicut		nutter newal		Channel/ ng wall	Total
		No	Amount	No	Amount	No	Amount	Length in km	Amount	
1	Package-1	-	-	-	-	-	-	-	-	-
2	Package-2	-	-	-	-	-	-	-	-	-
3	Package-3	-	-	-	-	-	-	-	-	-
4	Package-4	-	-	-	-	-	-	3.5	468.87	468.87
5	Package-5	-	-	-	-	-	-	2.5	309.89	309.89
6	Package-6	-	-	-	-	-	-	2.00	292.53	292.53
7	Package-7	-	-	1	146.39	-	-	-	-	146.39
8	Package-8	-	-			12	212.07	-	-	212.07
9	Package-9	-	-	1	22.27	12	1.08	7.06	558.81	582.16
10	Package-10	1	88.20	2	12.58	-	-	-	-	100.78
11	Package-11	-	-	3	39.53	-	-	-	-	39.53
12	Package-12	-	-	1	25.00	-	-	0.40	520.63	545.63
13	Package-13	1	350.54	-	-	-	-	0.125	175.27	525.81
14	Package-14	-	-	-	-	-	-	0.230	59.11	59.11
15	Package-15	-	-	-	-	-	-	-	-	-
16	Package-16	1	673.15	-	-	-	-	-	-	673.15
17	Package-17	-	-	-	-	-	-	0.38	566.92	566.92
	Total	3	1111.61	8	245.77	24	213.15	16.195	2952.03	4522.56

# Statement I

Name of Work : Rehabilitation and restoration of Komaralingam, Sholamathevi and Sarkar kannadipudur Leading channel of Amaravathi river system in Madathukulam taluk of Tiruppur District. Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

# Package No: 01/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 Abstract showing the details of Rehabilitation works proposed

SL NO	Description	Tanks Nos	Anicut Nos	Supply channel Nos
1	Available infrastructure in the sub basin	-	-	-
2	Rehabilitation works taken up under IAMWARM project	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure taken up under IAMWARM but certain components not taken up then, but require rehabilitation now.	-	-	3
3	Tanks not taken up for rehabilitation since 2005 under any other schemes	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure in which certain components not taken up since 2005 but require rehabilitation now.	-	-	-
4	Total No. of infrastructures requiring rehabilitation now.	-	-	3

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 infrastructure now proposed were not taken up under IAMWARM Project

4. For item No.3- certified that the works are not executed under various scheme (viz., NABARD, part II scheme, Etc.,) and IAMWARM since 2005.

## Statement II- A REHABILITATION OF LEFTOUT TANKS & INFRASTRUCTURE IN SUB BASIN OF IAMWARM PROJECT

Name of Work : Rehabilitation and restoration of Komaralingam, Sholamathevi and Sarkar kannadipudur Leading channel of Amaravathi river system in Madathukulam taluk of Tiruppur District.

Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

# Package No: 01/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

SL NO	Name of tanks		a Bund vements		epairs to sluice		onstruction sluices	Repairs to weirs		Reconstruction of weirs		Shutter Renewal		Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
					-		NIL							

# Statement II- B REHABILITATION OF IRRIGATION CHANNELS

Name of Work : Rehabilitation and restoration of Komaralingam, Sholamathevi and Sarkar kannadipudur Leading channel of Amaravathi river system in Madathukulam taluk of Tiruppur District.

Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

# Package No: 01/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

SL NO	Name of tanks	Desilting irrigation c		ii	ining of rrigation channel		to Drops, n cistern		epairs to culvert duct, outlet etc.,	Shutte	er Renewal	Total
		Length	Amo unt	No	Amount	Nos.	Amount	No	Amount	No	Amount	
1	Komaralingam Leading Channel	200m	0.95	-	-	1	8.15	-	-	3	2.25	11.35
2	Cholamadevi Leading Channel	800m	3.86	-	-	1	50.39	-	-	3	2.25	56.50
3	Sarkar Kannadipudur Leading Channel	442m	4.27	-	-	1	52.10	-	-	3	2.25	58.57
	Total		9.08				110.64				6.75	126.42

#### Statement II- C

Name of Work : Rehabilitation and restoration of Komaralingam, Sholamathevi and Sarkar kannadipudur Leading channel of Amaravathi river system in Madathukulam taluk of Tiruppur District.

#### Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

# Package No: 01/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

SI.NO	Name of Anicut/Supply Channel		struction of anicut	Repa	irs to Anicut		utter newal	Supply	Channel	Total
		No	Amount	No	Amount	No	Amount	Length in m	Amount	
1		·		NIL	•		·			

### **REHABILITATION OF SUPPLY CHANNEL**

# **Statement I** Rehabilitation of Left out works in Amaravathi Sub basin (Leftout works)

Name of Work : Rehabilitation and restoration of Thalavaipattinam, Dharapuram and Kolinjivadi Leading channel of Amaravathi river system in Dharapuram taluk of Tiruppur District.

# Package No: 02/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 Abstract showing the details of Rehabilitation works proposed

SL NO	Description	Tanks Nos	Anicut Nos	Supply channel Nos
1	Available infrastructure in the sub basin	-	-	-
2	Rehabilitation works taken up under IAMWARM project	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure taken up under IAMWARM but certain components not taken up then, but require rehabilitation now.	-	-	3
3	Tanks not taken up for rehabilitation since 2005 under any other schemes	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure in which certain components not taken up since 2005 but require rehabilitation now.	-	-	-
4	Total No. of infrastructures requiring rehabilitation now.	-	-	3

**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 infrastructure now proposed were not taken up under IAMWARM Project

4. For item No.3- certified that the works are not executed under various scheme (viz., NABARD, part II scheme, Etc.,) and IAMWARM since 2005.

# Statement II- A REHABILITATION OF LEFTOUT TANKS & INFRASTRUCTURE IN SUB BASIN OF IAMWARM PROJECT

Name of Work : Rehabilitation and restoration of Thalavaipattinam, Dharapuram and Kolinjivadi Leading channel of Amaravathi river system in Dharapuram taluk of Tiruppur District.

# Package No: 02/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks		Bund vements		pairs to sluice		nstruction sluices		epairs to weirs		nstruction weirs		hutter enewal	Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
							NIL	1						
								1						

#### **REHABILITATION OF T ANK WORKS**

# Statement II- B REHABILITATION OF IRRIGATION CHANNELS

Name of Work : Rehabilitation and restoration of Thalavaipattinam, Dharapuram and Kolinjivadi Leading channel of Amaravathi river system in Dharapuram taluk of Tiruppur District.

# Package No: 02/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO.	Name of tanks		ting of n channel	irri	ing of gation annel		irs to Drops, hon cistern	C	pairs to culvert educt etc.,		Shutter enewal	Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
1	Thalavaipattina m Leading Channel	450m	1.64	-	-	1	75.63	-	-	-	-	77.27
2	Dharapuram Leading Channel	1950m	6.69	-	-	1	112.40	-	-	-	-	119.09
3	Kolinjivadi Leading Channel	-	-	-	-	1	86.88	-	-	-	-	86.88
	Total	2400	8.33			3	274.91					283.24

#### Statement II- C

Name of Work : Rehabilitation and restoration of Thalavaipattinam, Dharapuram and Kolinjivadi Leading channel of Amaravathi river system in Dharapuram taluk of Tiruppur District.

# Package No: 02/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

SI.NO	Name of Anicut/Supply Channel		nstruction of anicut	Repa	irs to Anicut		utter newal	Supply (	Channel	Total
		No	Amount	No	Amount	No	Amount	Length in m	Amount	
			NIL	11						

### **REHABILITATION OF SUPPLY CHANNEL**

# Statement I

# Rehabilitation of Left out works in Amaravathi Sub basin (Leftout works)

#### Name of work : REHABILITATION OF NALLATHANGAL ODAI RESERVOIR MAIN CANAL, HIGH LEVEL CANAL AND DISTRIBUTORIES IN DHARAPURAM TALUK IN TIRUPPUR DISTRICT. Package No : 03/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

SL	Description	Tanks	Anicut	Supply channel
NO		Nos	Nos	Nos
1	Available infrastructure in the sub basin	-	-	1
2	Rehabilitation works taken up under IAMWARM project	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure taken up under IAMWARM but certain components not taken up then, but require rehabilitation now.	-	-	1
3	Tanks not taken up for rehabilitation since 2005 under any other schemes	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure in which certain components not taken up since 2005 but require rehabilitation now.	-	-	1
4	Total No. of infrastructures requiring rehabilitation now.	-	-	1

### Abstract showing the details of Rehabilitation works proposed

**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 infrastructure now proposed were not taken up under IAMWARM Project

4. For item No.3- certified that the works are not executed under various scheme (viz., NABARD, part II scheme, Etc.,) and IAMWARM since 2005.

#### <u>Statement II- A</u> <u>REHABILITATION OF LEFTOUT TANKS & INFRASTRUCTURE IN SUB BASIN OF IAMWARM PROJECT</u> Name of work : REHABILITATION OF NALLATHANGAL ODAI RESERVOIR MAIN CANAL, HIGH LEVEL CANAL AND DISTRIBUTORIES IN DHARAPURAM TALUK IN TIRUPPUR DISTRICT. Package No: 03 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

#### AMARAVATHI SUB BASIN (LEFTOUT WORKS)

#### **REHABILITATION OF TANK WORKS**

SL NO	Name of tanks	Tank improve	Bund ments	Rep slui		Recor of slu	nstruction ices	Rep weir		Record of we	nstruction irs	Shut Rene		Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
						1	NIL	1	1					

# Statement II- B REHABILITATION OF IRRIGATION CHANNELS

Name of work :REHABILITATION OF NALLATHANGAL ODAI RESERVOIR MAIN CANAL, HIGH LEVEL CANAL AND DISTRIBUTORIES IN DHARAPURAM TALUK IN TIRUPPUR DISTRICT.

### Package No: 03 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks	Desilting c channel	of irrigation	Linir irriga chan	ation		airs to Drops, on cistern	Repa culve aque		Shut Rene		Total
1	dai	Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
	Nallathangalo Reservoir	50315 M	297070	2	42805043	-	-	15	577235	-	-	43679348

#### <u>Statement II- C</u> <u>REHABILITATION OF ANICUT AND SUPPLY CHANNELS</u> ork: Rehabilitation of Nallathangal odai Reservoir Main canal ,High level canal and Distributories in

Name of work: Rehabilitation of Nallathangal odai Reservoir Main canal ,High level canal and Distributories in Dharapuram taluk of Tiruppur District.

Package No: 03 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

### AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of Anicut/ Supply Channel	Reco of	nstruction anicut	Repa Anic		Repair Head		Shutte Renev		Supply Chan	nel	Total
1		No	Amount	No	Amount	No	Amount	No	Amount	Length in M	Amount	
					-		Nil					

#### Statement I Rehabilitation of Left out works in Amaravathi Sub basin (Leftout works)

# NAME OF WORK: CONSTRUCTION OF PROTECTION WALL FROM LS 11.00 KM TO LS 13.00 KM IN THE LEFTOUT REACH OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT".

#### PAKAGE No:4/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013 NAME OF SUB BASIN: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Description	Tanks Nos	Anicut Nos	Supply channel Nos
1	Available infrastructure in the sub basin	-	-	1
2	Rehabilitation works taken up under IAMWARM project	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure taken up under IAMWARM but certain components not taken up then, but require rehabilitation now.	-	-	1
3	Tanks not taken up for rehabilitation since 2005 under any other schemes	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure in which certain components not taken up since 2005 but require rehabilitation now.	-	-	1
4	Total No. of infrastructures requiring rehabilitation now.	-	-	1

#### Abstract showing the details of Rehabilitation works proposed

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 infrastructure now proposed were not taken up under IAMWARM Project

4. For item No.3- certified that the works are not executed under various scheme (viz., NABARD, part II scheme, Etc.,) and IAMWARM since 2005.

#### Statement II- A REHABILITATION OF LEFTOUT TANKS & INFRASTRUCTURE IN SUB BASIN OF IAMWARM PROJECT

# NAME OF WORK: CONSTRUCTION OF PROTECTION WALL FROM LS 11.00 KM TO LS 13.00 KM IN THE LEFTOUT REACH OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT".

#### PAKAGE No:4/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

#### NAME OF SUB BASIN: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks		Bund vements	-	airs to uice		struction luices	-	pairs to veirs		struction weirs		nutter newal	Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
							NIL			-				

#### **REHABILITATION OF T ANK WORKS**

# Statement II- B REHABILITATION OF IRRIGATION CHANNELS

# NAME OF WORK: CONSTRUCTION OF PROTECTION WALL FROM LS 11.00 KM TO LS 13.00 KM IN THE LEFTOUT REACH OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT".

#### PAKAGE No:4/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

### NAME OF SUB BASIN: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	SL NO Name of Desilt tanks		Desilting of irrigation channel		Lining of irrigation channel		Repairs to Drops, siphon cistern		irs to culvert Jeduct etc.,	Shutter Renewal		Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amou nt	
1								·				
						NIL						

Rehabilitation of Left out works in Amaravathi Sub basin (Leftout works)

Statement II- C

# NAME OF WORK: CONSTRUCTION OF PROTECTION WALL FROM LS 11.00 KM TO LS 13.00 KM IN THE LEFTOUT REACH OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT".

#### PAKAGE No:4/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013 REHABILITATION OF SUPPLY CHANNEL

# NAME OF SUB BASIN: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SI.NO	Name of Anicut/Supply Channel		struction of anicut	Repair	s to Anicut	Shutt	er Renewal	Supply C	Total	
		No	Amount	No	Amount	No	Amount	Length in m	Amount	
1	Dharapuram channel -reach -1							3500	46887195	46887195

#### <u>Statement - I</u> <u>Rehabilitation of Leftout works in Amaravathi Sub Basin (Leftout Works)</u>

NAME OF WORK: Construction of Protection wall from LS 13.00 Km to LS 14.50 Km in the left out reach of Dharapuram channel in Dharapuram taluk of Tiruppur District.

### PAKAGE No:5/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013 NAME OF SUB BASIN: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Description	Tanks Nos	Anicut Nos	Supply channel Nos
1	Available infrastructure in the sub basin	-	-	1
2	Rehabilitation works taken up under IAMWARM project	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure taken up under IAMWARM but certain components not taken up then, but require rehabilitation now.	-	-	1
3	Tanks not taken up for rehabilitation since 2005 under any other schemes	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure in which certain components not taken up since 2005 but require rehabilitation now.	-	-	1
4	Total No. of infrastructures requiring rehabilitation now.	-	-	1

#### Abstract showing the details of Rehabilitation works proposed

**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 infrastructure now proposed were not taken up under IAMWARM Project

4. For item No.3- certified that the works are not executed under various scheme (viz., NABARD, part II scheme, Etc.,) and IAMWARM since 2005.

#### Statement II- A REHABILITATION OF LEFTOUT TANKS & INFRASTRUCTURE IN SUB BASIN OF IAMWARM PROJECT

# NAME OF WORK: Construction of Protection wall from LS 13.00 Km to LS 14.50 Km in the left out reach of Dharapuram channel in Dharapuram taluk of Tiruppur District.

#### PAKAGE No:5/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

#### NAME OF SUB BASIN: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks		Bund vements	-	airs to uice		Reconstruction of sluices		pairs to weirs		Reconstruction of weirs		Shutter Renewal	
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
						NIL				_				

#### **REHABILITATION OF T ANK WORKS**

# Statement II- B REHABILITATION OF IRRIGATION CHANNELS

NAME OF WORK: Construction of Protection wall from LS 13.00 Km to LS 14.50 Km in the left out reach of Dharapuram channel in Dharapuram taluk of Tiruppur District.

#### PAKAGE No:5/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

### NAME OF SUB BASIN: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks	Desilting o chai	f irrigation nnel	Lining of irrigation channel		Repairs to Drops, siphon cistern		Repairs to culvert aqueduct etc.,		Shutter Renewal		Total
		Length	Amount	No	Amount	No Amount		No	Amount	No	Amount	
1												
					NIL							

# Statement II-C REHABILITATION OF SUPPLY CHANNEL

NAME OF WORK: Construction of Protection wall from LS 13.00 Km to LS 14.50 Km in the left out reach of Dharapuram channel in Dharapuram taluk of Tiruppur District.

#### PAKAGE No:5/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

# NAME OF SUB BASIN: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SI.NO	Name of Anicut/Supply Channel	Reconstruction of anicut		Repair	Repairs to Anicut		er Renewal	Supply C	Total	
		No	Amount	No	Amount	No	Amount	Length in m	Amount	
1	Dharapuram channel -reach -2							2500	30988855	30988855

<u>Statement - I</u>

Rehabilitation of Leftout works in Amaravathi Sub Basin (Leftout Works) NAME OF WORK: Construction of Protection wall from LS 14.50 Km to LS 16.00 Km in the left out reach of Dharapuram channel in Dharapuram taluk of Tiruppur District.

### PAKAGE No:6/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013 NAME OF SUB BASIN: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Description	Tanks Nos	Anicut Nos	Supply channel Nos
1	Available infrastructure in the sub basin	-	-	1
2	Rehabilitation works taken up under IAMWARM project	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure taken up under IAMWARM but certain components not taken up then, but require rehabilitation now.	-	-	1
3	Tanks not taken up for rehabilitation since 2005 under any other schemes	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure in which certain components not taken up since 2005 but require rehabilitation now.	-	-	1
4	Total No. of infrastructures requiring rehabilitation now.	-	-	1

#### Abstract showing the details of Rehabilitation works proposed

**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 infrastructure now proposed were not taken up under IAMWARM Project

4. For item No.3- certified that the works are not executed under various scheme (viz., NABARD, part II scheme, Etc.,) and IAMWARM since 2005.

### Statement II- A

#### REHABILITATION OF LEFTOUT TANKS & INFRASTRUCTURE IN SUB BASIN OF IAMWARM PROJECT

NAME OF WORK: Construction of Protection wall from LS 14.50 Km to LS 16.00 Km in the left out reach of Dharapuram channel in Dharapuram taluk of Tiruppur District.

#### PAKAGE No:6/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

#### NAME OF SUB BASIN: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks	Tank Bund improvements		-	airs to uice	Reconstruction of sluices		Repairs to weirs		Reconstruction of weirs		Shutter Renewal		Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
					NIL									

#### **REHABILITATION OF T ANK WORKS**

# Statement II- B

# **REHABILITATION OF IRRIGATION CHANNELS**

NAME OF WORK: Construction of Protection wall from LS 14.50 Km to LS 16.00 Km in the left out reach of Dharapuram channel in Dharapuram taluk of Tiruppur District.

#### PAKAGE No:6/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

# NAME OF SUB BASIN: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks	-	of irrigation nnel		Lining of irrigation channel		Repairs to Drops, siphon cistern		Repairs to culvert aqueduct etc.,		Shutter Renewal	
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
1												
					NIL							

# **Statement II-C**

# **REHABILITATION OF SUPPLY CHANNEL**

NAME OF WORK: Construction of Protection wall from LS 14.50 Km to LS 16.00 Km in the left out reach of Dharapuram channel in Dharapuram taluk of Tiruppur District.

#### PAKAGE No:6/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

### NAME OF SUB BASIN: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SI.NO	Name of Anicut/Supply Channel	Reconstruction of anicut		Repair	Repairs to Anicut		er Renewal	Supply C	Total	
		No	Amount	No	Amount	No	Amount	Length in m	Amount	
1	Dharapuram channel -reach -3							2000	29253100	29253100

<u>Statement - I</u> <u>Rehabilitation of Leftout works in Amaravathi Sub Basin (Leftout Works)</u>

NAME OF WORK: Rehabilitation of Nanjaithalaiyur Anicut of Amaravathi River System in Amaravathi Sub basin in Aravakurichi Taluk of Karur District

#### PAKAGE No:7/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013 NAME OF SUB BASIN: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Description	Tanks Nos	Anicut Nos	Supply channel Nos
1	Available infrastructure in the sub basin	-	1	-
2	Rehabilitation works taken up under IAMWARM project	-	-	-
•	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure taken up under IAMWARM but certain components not taken up then, but require rehabilitation now.	-	1	-
3	Tanks not taken up for rehabilitation since 2005 under any other schemes	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure in which certain components not taken up since 2005 but require rehabilitation now.	-	1	-
4	Total No. of infrastructures requiring rehabilitation now.	-	1	-

#### Abstract showing the details of Rehabilitation works proposed

**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 infrastructure now proposed were not taken up under IAMWARM Project
- 4. For item No.3- certified that the works are not executed under various scheme (viz., NABARD, part II scheme, Etc.,) and IAMWARM since 2005.

#### Statement II- A

#### **REHABILITATION OF LEFTOUT TANKS & INFRASTRUCTURE IN SUB BASIN OF IAMWARM PROJECT**

#### NAME OF WORK: Rehabilitation of Nanjaithalaiyur Anicut of Amaravathi River System in Amaravathi Sub basin in Aravakurichi Taluk of Karur District

#### PAKAGE No:7/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

#### NAME OF SUB BASIN: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks		Bund vements	-	airs to uice		Reconstruction of sluices		oairs to veirs		struction weirs	n Shutter Renewal		Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
										_				
							NIL							

NAME OF WORK: Rehabilitation of Nanjaithalaiyur Anicut of Amaravathi River System in Amaravathi Sub basin in Aravakurichi Taluk of Karur District

#### PAKAGE No:7/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

### NAME OF SUB BASIN: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks	Desilting o cha	f irrigation nnel		g of irrigation channel	Drop	oairs to s, siphon stern	-	s to culvert duct etc.,	SI Re	Total	
		Length	Amount	No	No Amount		Amount	No	Amount	No	Amount	
1												
					NIL							

## Statement II-C REHABILITATION OF SUPPLY CHANNEL

NAME OF WORK: Rehabilitation of Nanjaithalaiyur Anicut of Amaravathi River System in Amaravathi Sub basin in Aravakurichi Taluk of Karur District

#### PAKAGE No:7/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

### NAME OF SUB BASIN: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SI.NO	Name of Anicut/Supply Channel	Reconstruction of anicut		Repair	s to Anicut	Shutte	er Renewal	Supply Cl	nannel	Total
		No	Amount	No	Amount	No	Amount	Length in m	Amount	
1	Nanjaithalaiyur Anicut			1	146.39					146.39

## **Statement I** Rehabilitation of Left out works in Amaravathi Sub basin (Leftout works)

Name of Work : Rehabilitation of Vertical gates and hoisting Arrangments to Chettipalayam Anicut of Amaravathi River System in Amaravathi Sub Basin in Karur taluk of Karur Dist

SL NO	Description	Tanks Nos	Anicut Nos	Supply channel Nos
1	Available infrastructure in the sub basin	-	1	-
2	Rehabilitation works taken up under IAMWARM project	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
-	b)Infrastructure taken up under IAMWARM but certain components not taken up then, but require rehabilitation now.	-	1	-
3	Tanks not taken up for rehabilitation since 2005 under any other schemes	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure in which certain components not taken up since 2005 but require rehabilitation now.	-	1	-
4	Total No. of infrastructures requiring rehabilitation now.	-	1	-

#### Package No: 08/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 Abstract showing the details of Rehabilitation works proposed

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 infrastructure now proposed were not taken up under IAMWARM Project

4. For item No.3- certified that the works are not executed under various scheme (viz., NABARD, part II scheme, Etc.,) and IAMWARM since 2005.

## Statement II- A

### **REHABILITATION OF LEFTOUT TANKS & INFRASTRUCTURE IN SUB BASIN OF IAMWARM PROJECT**

Name of Work: Rehabilitation of Vertical gates and hoisting Arrangments to Chettipalayam Anicut of Amaravathi River System in Amaravathi Sub Basin in Karur taluk of Karur Dist

### Package No: 08/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks		a Bund /ements		pairs to sluice		nstruction sluices		epairs to weirs	1	nstruction weirs		hutter enewal	Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
					-		NIL							
								T	Γ					

Name of Work : Rehabilitation of Vertical gates and hoisting Arrangments to Chettipalayam Anicut of Amaravathi River System in Amaravathi Sub Basin in Karur taluk of Karur Dist Package No: 08/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

SL NO	Name of tanks	-	of irrigation Innel	i	∟ining of rrigation channel		irs to Drops, hon cistern		epairs to culvert educt etc.,		Shutter enewal	Total
1		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
		-	-	-	NIL	-	-	-	-	-	-	-

### Statement II- C

Name of Work : Rehabilitation of Vertical gates and hoisting Arrangments to Chettipalayam Anicut of Amaravathi River System in Amaravathi Sub Basin in Karur taluk of Karur Dist

## Package No: 08/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 REHABILITATION OF SUPPLY CHANNEL

Name of Sub basin : Amaravathi Sub Basin

SI.NO	Name of Anicut/Supply Channel		nstruction f anicut		pairs to Anicut		hutter enewal	Supply Channe	l	Total
		No	Amount	No	Amount	No	Amount	Length in m	Amount	
1	Chettipalayam Anicut					12				
	Total									

## **Statement I** Rehabilitation of Left out works in Amaravathi Sub basin (Leftout works)

Name of Work : Rehabilitation of Thamaraikulam Anicut, Supply channel and Thadakulam supply channel of Palar Porunthalar system of Amaravathi sub Basin in Palani taluk of Dindugal District.

SL NO	Description	Tanks Nos	Anicut Nos	Supply channel Nos
1	Available infrastructure in the sub basin	-	1	2
2	Rehabilitation works taken up under IAMWARM project	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure taken up under IAMWARM but certain components not taken up then, but require rehabilitation now.	-	1	2
3	Tanks not taken up for rehabilitation since 2005 under any other schemes	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure in which certain components not taken up since 2005 but require rehabilitation now.	-	-	-
4	Total No. of infrastructures requiring rehabilitation now.	-	1	2

#### Package No: 09/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 Abstract showing the details of Rehabilitation works proposed

**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 infrastructure now proposed were not taken up under IAMWARM Project

4. For item No.3- certified that the works are not executed under various scheme (viz., NABARD, part II scheme,

Etc.,) and IAMWARM since 2005.

### **Statement II- A** REHABILITATION OF LEFTOUT TANKS & INFRASTRUCTURE IN SUB BASIN OF IAMWARM PROJECT

Name of Work: Rehabilitation of Thamaraikulam Anicut, Supply channel and Thadakulam supply channel of Palar Porunthalar system of Amaravathi sub Basin in Palani taluk of Dindugal District.

### Package No: 09/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks		Bund vements		pairs to sluice		nstruction sluices		epairs to weirs	1	nstruction weirs	Shutter Renewal		Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
							NIL							
								1						

Name of Work : Rehabilitation of Thamaraikulam Anicut, Supply channel and Thadakulam supply channel of Palar Porunthalar system of Amaravathi sub Basin in Palani taluk of Dindugal District. Package No: 09/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

SL NO	Name of tanks	-	of irrigation annel	i	∟ining of rrigation channel		irs to Drops, hon cistern		epairs to culvert educt etc.,		Shutter enewal	Total
1		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
		-	-	-	NIL	-	-	-	-	-	-	-

### Statement II- C

Name of Work : Rehabilitation of Thamaraikulam Anicut, Supply channel and Thadakulam supply channel of Palar Porunthalar system of Amaravathi sub Basin in Palani taluk of Dindugal District.

## Package No: 09/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 REHABILITATION OF SUPPLY CHANNEL

Name of Sub basin : Amaravathi Sub Basin

SI.NO	Name of Anicut/Supply Channel		onstruction f anicut		pairs to Anicut		hutter enewal	Supply Channe	I	Total
		No	Amount	No	Amount	No	Amount	Length in m	Amount	
1	Thamaraikulam Anicut	-	-	1	22.27	-	-	-	-	22.27
2	Thamaraikulam Supply Channel	-	-	-	-	-	-	1500	97.09	97.09
3	Thadakulam Supply Channel	-	-	-	-	12	1.08	5560	461.72	462.80
	Total	-	-	-	-	-	-	-	-	582.16

### **Statement I** Rehabilitation of Left out works in Amaravathi Sub basin (Leftout works)

Name of Work : Rehabilitation of Left out non system Tanks and Anicuts of Varadhamanadhi non system, Construction of check dam across Nallathangal odai near Kothayam Village and Construction of Cause way near Sangaramanallur anicut site of Amaravathi Sub Basin in Oddanchatram, Palani Taluk of Dindugal District and Madathukulam Taluk of Tiruppur District.

## Package No: 10/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

SL Description Tanks Supply Anicut NO Nos Nos channel Nos Available infrastructure in the sub basin 2 1 2 2 Rehabilitation works taken up under IAMWARM project -\_ a)Infrastructure in which all the components are in good condition and -does not require rehabilitation now b)Infrastructure taken up under IAMWARM but certain components not --taken up then, but require rehabilitation now. 3 Tanks not taken up for rehabilitation since 2005 under any other schemes -a)Infrastructure in which all the components are in good condition and does not require rehabilitation now b)Infrastructure in which certain components not taken up since 2005 but 2 2 require rehabilitation now. Total No. of infrastructures requiring rehabilitation now. 2 2 4 \_

Abstract showing the details of Rehabilitation works proposed

**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 infrastructure now proposed were not taken up under IAMWARM Project

4. For item No.3- certified that the works are not executed under various scheme (viz., NABARD, part II scheme, Etc.,) and IAMWARM since 2005.

## Statement II- A REHABILITATION OF LEFTOUT TANKS & INFRASTRUCTURE IN AMARAVATHI SUB BASIN OF IAMWARM PROJECT

Name of Work: Rehabilitation of Left out non system Tanks and Anicuts of Varadhamanadhi non system, Construction of check dam across Nallathangal odai near Kothayam Village and Construction of Cause way near Sangaramanallur anicut site of Amaravathi Sub Basin in Oddanchatram, Palani Taluk of Dindugal District and Madathukulam Taluk of Tiruppur District. Package No: 10/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks		a Bund /ements		pairs to sluice		nstruction sluices		pairs to weirs		struction weirs		hutter enewal	Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	Amoun t
1	Karungulam (Chatrapatti)	2081m	25.69	-	-	-	-	1	9.86	-	-	-	-	35.55
2	Karungulam (Parithiyur)	1395m	19.79	-	-	2	24.90	-	-	-	-	2	0.60	45.29
		3476m	45.48	-	-	2	24.90	1	9.86	-	-	2	0.60	80.84

Name of Work : Rehabilitation of Left out non system Tanks and Anicuts of Varadhamanadhi non system, Construction of check dam across Nallathangal odai near Kothayam Village and Construction of Cause way near Sangaramanallur anicut site of Amaravathi Sub Basin in Oddanchatram, Palani Taluk of Dindugal District and Madathukulam Taluk of Tiruppur District. Package No: 10/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

SL NO	Name of tanks	-	of irrigation annel	i	ining of rrigation channel		irs to Drops, hon cistern		epairs to culvert educt etc.,		Shutter enewal	Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
		-	-	-	NIL	-	-	-	-	-	-	-

#### Statement II- C

Name of Work : Rehabilitation of Left out non system Tanks and Anicuts of Varadhamanadhi non system, Construction of check dam across Nallathangal odai near Kothayam Village and Construction of Cause way near Sangaramanallur anicut site of Amaravathi Sub Basin in Oddanchatram, Palani Taluk of Dindugal District and Madathukulam Taluk of Tiruppur District.

### Package No: 10/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 REHABILITATION OF SUPPLY CHANNEL

			Jaonn							
SI.NO	Name of Anicut/Supply	Reco	onstruction	Re	pairs to	S	hutter	Supply Chapp	al	Total
51.10	Channel	0	f anicut		Anicut	R	enewal	Supply Chann	ei	TOLAT
		No	Amount	No	Amount	No	Amount	Length in m	Amount	Amount
	Karungulam Anicut	_	-	1	8.49	_	-	-	_	8.49
1	(Parithiyur)			-	0.15					0110
	Karisalkulam Anicut									
2	(Porulur)	-	-	1	4.38	-	-	-	-	4.38
	Total			2	12.87					12.87

Name of Sub basin : Amaravathi Sub Basin

### **Statement I** Rehabilitation of Left out works in Amaravathi Sub basin (Leftout works)

Name of Work : Rehabilitation of Kodaganar Anicut, Lashmanampatti Anicut, Boothipuram Anicut and Supply Channel of Neelamalaikottai Tank of Amaravathi Sub Basin in Oddanchatram, Athur, Vedasandur and Dindigul Taluks of Dindigul District.

SL NO	Description	Tanks Nos	Anicut Nos	Supply channel Nos
1	Available infrastructure in the sub basin	-	4	
2	Rehabilitation works taken up under IAMWARM project	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure taken up under IAMWARM but certain components not taken up then, but require rehabilitation now.	-	4	
3	Tanks not taken up for rehabilitation since 2005 under any other schemes	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure in which certain components not taken up since 2005 but require rehabilitation now.	-	-	-
4	Total No. of infrastructures requiring rehabilitation now.	-	4	-

### Package No: 11/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 Abstract showing the details of Rehabilitation works proposed

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 infrastructure now proposed were not taken up under IAMWARM Project

4. For item No.3- certified that the works are not executed under various scheme (viz., NABARD, part II scheme, Etc.,) and IAMWARM since 2005.

### Statement II- A REHABILITATION OF LEFTOUT TANKS & INFRASTRUCTURE IN SUB BASIN OF IAMWARM PROJECT

Name of Work: Rehabilitation of Kodaganar Anicut, Lashmanampatti Anicut, Boothipuram Anicut and Supply Channel of Neelamalaikottai Tank of Amaravathi Sub Basin in Oddanchatram, Athur, Vedasandur and Dindigul Taluks of Dindigul District.

Package No: 11/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks		a Bund vements		pairs to sluice		nstruction sluices		epairs to weirs		nstruction weirs		hutter enewal	Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
							NIL							
								T	Γ					

Name of Work : Rehabilitation of Kodaganar Anicut, Lashmanampatti Anicut, Boothipuram Anicut and Supply Channel of Neelamalaikottai Tank of Amaravathi Sub Basin in Oddanchatram, Athur, Vedasandur and Dindigul Taluks of Dindigul District.

### Package No: 11/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

SL NO	Name of tanks	-	of irrigation Innel	i	ining of rrigation channel		irs to Drops, hon cistern		epairs to culvert educt etc.,		Shutter enewal	Total
1		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
		-	-	-	NIL	-	-	-	-	-	-	-

#### Statement II- C

Name of Work : Rehabilitation of Kodaganar Anicut, Lashmanampatti Anicut, Boothipuram Anicut and Supply Channel of Neelamalaikottai Tank of Amaravathi Sub Basin in Oddanchatram, Athur, Vedasandur and Dindigul Taluks of Dindigul District.

### Package No: 11/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 REHABILITATION OF SUPPLY CHANNEL

Lining of Repairs to Repairs to culvert Desilting Anicut Irrigation channels Irrigation channel S1. Drops,Syphon, Cistern aqueduct etc., Name of Tank Total No. Length Amoun No. No No No Amount Amount Amount Amount in m t 148.77 Neelamalaikottai 148.77 1 1. -\_ \_ \_ \_ \_ \_ \_ tank surplus channel – drop Kodaganar Anicut 6.09 6.09 2 1 \_ \_ \_ -\_ \_ \_ \_ across Kodaganar River Lakshmanampatti 6.04 6.04 3. 1 -\_ \_ --\_ \_ -Anicut across Kodaganar River Boothipuram 1 27.04 27.04 4. --\_ -\_ -\_ -Anicut across Kodaganar River Total 188.30

Name of Sub basin : Amaravathi Sub Basin

## Statement I Rehabilitation of Left out works in Amaravathi Sub basin (Leftout works)

Name of Work : Rehabilitation of Alagarpudukulam Anicut and Protection walls in Santhanavarthini river in Vemparpatty Village of Dindugal Taluk of Dindugal District.

#### Package No: 12/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 Abstract showing the details of Rehabilitation works proposed

SL NO	Description	Tanks Nos	Anicut Nos	Supply channel Nos
1	Available infrastructure in the sub basin	-	3	
2	Rehabilitation works taken up under IAMWARM project	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure taken up under IAMWARM but certain components not taken up then, but require rehabilitation now.	-	1	
3	Tanks not taken up for rehabilitation since 2005 under any other schemes	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure in which certain components not taken up since 2005 but require rehabilitation now.	-	-	-
4	Total No. of infrastructures requiring rehabilitation now.	-	1	-

**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 infrastructure now proposed were not taken up under IAMWARM Project

4. For item No.3- certified that the works are not executed under various scheme (viz., NABARD, part II scheme, Etc.,) and IAMWARM since 2005.

### Statement II- A REHABILITATION OF LEFTOUT TANKS & INFRASTRUCTURE IN SUB BASIN OF IAMWARM PROJECT

Name of Work: Rehabilitation of Alagarpudukulam Anicut and Protection walls in Santhanavarthini river in Vemparpatty Village of Dindugal Taluk of Dindugal District.

### Package No: 12/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks		a Bund vements		pairs to sluice		onstruction sluices		epairs to weirs	1	nstruction weirs		hutter enewal	Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
							NIL							
									1					

Name of Work : Rehabilitation of Alagarpudukulam Anicut and Protection walls in Santhanavarthini river in Vemparpatty Village of Dindugal Taluk of Dindugal District.

## Package No: 12/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

SL NO	Name of tanks	-	of irrigation Innel	i	ining of rrigation channel		irs to Drops, hon cistern		epairs to culvert educt etc.,		Shutter enewal	Total
1		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
		-	-	-	NIL	-	-	-	-	-	-	-

### Statement II- C

Name of Work : Rehabilitation of Alagarpudukulam Anicut and Protection walls in Santhanavarthini river in Vemparpatty Village of Dindugal Taluk of Dindugal District.

## Package No: 12/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 REHABILITATION OF SUPPLY CHANNEL

Name of Sub basin : Amaravathi Sub Basin

SI.NO	Name of Anicut/Supply Channel		nstruction f anicut		pairs to Anicut	_	hutter enewal	Supply Channel / Re wall	etaining	Total
		No	Amount	No	Amount	No	Amount	Length in m	Amount	
1	Sedipatty (LS 1210m to 1260m)			-	25.00	-	-	50	68.20	93.20
2	Mottaiyagoudanpatti (LS 2190m to 2340m)			-	-	-	-	150	204.61	204.61
3	Alagarpudukulam (LS 3300m to 3500m)			-	-	-	-	200	247.82	247.82
	Total			-	25.00	-	-	400	520.63	545.63

### Statement I Rehabilitation of Left out works in Amaravathi Sub basin (Leftout works)

Name of Work : Rehabilitation of Kattankulam anicut and Protection walls in Santhanavarthini river in Avilipatty Village of Dindugal Taluk of Dindugal District.

SL NO	Description	Tanks Nos	Anicut Nos	Supply channel Nos
1	Available infrastructure in the sub basin	-	2	
2	Rehabilitation works taken up under IAMWARM project	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure taken up under IAMWARM but certain components not taken up then, but require rehabilitation now.	-	1	
3	Tanks not taken up for rehabilitation since 2005 under any other schemes	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure in which certain components not taken up since 2005 but require rehabilitation now.	-	-	-
4	Total No. of infrastructures requiring rehabilitation now.	-	1	

### Package No: 13/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 Abstract showing the details of Rehabilitation works proposed

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 infrastructure now proposed were not taken up under IAMWARM Project

4. For item No.3- certified that the works are not executed under various scheme (viz., NABARD, part II scheme, Etc.,) and IAMWARM since 2005.

### Statement II- A REHABILITATION OF LEFTOUT TANKS & INFRASTRUCTURE IN SUB BASIN OF IAMWARM PROJECT

Name of Work: Rehabilitation of Kattankulam anicut and Protection walls in Santhanavarthini river in Avilipatty Village of Dindugal Taluk of Dindugal District.

Package No: 13/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks		a Bund vements		epairs to sluice		nstruction sluices		epairs to weirs		nstruction weirs		hutter enewal	Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
					-		NIL							
								1						

Name of Work : Rehabilitation of Kattankulam anicut and Protection walls in Santhanavarthini river in Avilipatty Village of Dindugal Taluk of Dindugal District.

### Package No: 13/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

SL NO	Name of tanks	Desilting of irrigation channel		i	ining of rrigation channel		irs to Drops, hon cistern		epairs to culvert educt etc.,		Shutter enewal	Total
1		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
		-	-	-	NIL	-	-	-	-	-	-	-

#### Statement II- C

Name of Work : Rehabilitation of Kattankulam anicut and Protection walls in Santhanavarthini river in Avilipatty Village of Dindugal Taluk of Dindugal District.

### Package No: 13/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 REHABILITATION OF SUPPLY CHANNEL

Name of Sub basin : Amaravathi Sub Basin

SI.NO	Name of Anicut/Supply Channel		Reconstruction of anicut		Repairs to Anicut		hutter enewal	Supply Chann	Total	
		No	lo Amount No		Amount	No	Amount	Length in m	Amount	
1	Kattankulam Anicut Retaining wall	-	-	-				125	175.27	175.27
2	Kattankulam Anicut	1	350.54							350.54
	Total		350.54						175.27	525.81

## Statement I

### Rehabilitation of Left out works in Amaravathi Sub basin (Leftout works)

#### Name of work : REHABILITATION OF RIGHT MAIN CANAL FROM LS 25.500KM TO 53.515 KM OF KODAGANAR DAM IN VEDASANDUR TALUK OF DINDUGAL DISTRICT AND ARAVAKURUCHI TALUK KARUR DISTRICT. Package No: 14 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

### Abstract showing the details of Rehabilitation works proposed

SL NO	Description	Tanks Nos	Anicut Nos	Supply channel Nos
1	Available infrastructure in the sub basin	-	-	1
2	Rehabilitation works taken up under IAMWARM project	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure taken up under IAMWARM but certain components not taken up then, but require rehabilitation now.	-	-	1
3	Tanks not taken up for rehabilitation since 2005 under any other schemes	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure in which certain components not taken up since 2005 but require rehabilitation now.	-	-	1
4	Total No. of infrastructures requiring rehabilitation now.	-	-	1

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 infrastructure now proposed were not taken up under IAMWARM Project

4. For item No.3- certified that the works are not executed under various scheme (viz., NABARD, part II scheme, Etc.,) and IAMWARM since 2005.

## Statement II- A

### **REHABILITATION OF LEFTOUT TANKS & INFRASTRUCTURE IN SUB BASIN OF IAMWARM PROJECT**

# Name of work : REHABILITATION OF RIGHT MAIN CANAL FROM LS 25.500KM TO 53.515 KM OF KODAGANAR DAM IN VEDASANDUR TALUK OF DINDUGAL DISTRICT AND ARAVAKURUCHI TALUK KARUR DISTRICT. Package No: 14 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 Name of Sub basin:

il IO	Name of tanks	Tank Bund improvements		Rep sluid			Reconstruction of sluices		Repairs to weirs		Reconstruction of weirs		Shutter Renewal	
	<u> </u>	Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
					_	NIL								
						1	1	1						

Name of work : REHABILITATION OF RIGHT MAIN CANAL FROM LS 25.500KM TO 53.515 KM OF KODAGANAR DAM IN VEDASANDUR TALUK OF DINDUGAL DISTRICT AND ARAVAKURUCHI TALUK KARUR DISTRICT. Package No: 14 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

SL NO	Name of tanks	Desilting of irrigation channel			ation		airs to Drops, on cistern	Repa culvo aque		Shut Rene		Total
1	ANAR 26500	Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
	RMC OF KODAG RESERVOIR LS TO 53515M	27015 M	18.55	2	59.11	10	0.92	-	-	-	-	78.58

## Statement II- C REHABILITATION OF ANICUT AND SUPPLY CHANNELS

Name of work : REHABILITATION OF RIGHT MAIN CANAL FROM LS 25.500KM TO 53.515 KM OF KODAGANAR DAM IN VEDASANDUR TALUK OF DINDUGAL DISTRICT AND ARAVAKURUCHI TALUK KARUR DISTRICT. Package No: 14 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

SL NO	Name of Anicut/ Supply Channel	Rec anic	construction of cut	Repairs to Repairs to Anicut Head Sluice				Shutte	er Renewal	Supply (	Total	
1		No	Amount	No	Amount	No	Amount	No	Amount	Length in M	Amount	
		-	-	-	-		Nil	-	-	-		

## Statement I Rehabilitation of Left out works in Amaravathi Sub basin (Leftout works)

Name of Work : Improvements to the guaging Bridge at LS. 22317 M, Reconstruction of Canal Syphon at LS 22933 M and LS 23658 M of Amaravathi Main Canal in Madathukulam Taluk of Tiruppur District.

SL NO	Description	Tanks Nos	Anicut Nos	Supply channel Nos
1	Available infrastructure in the sub basin	-	-	-
2	Rehabilitation works taken up under IAMWARM project	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure taken up under IAMWARM but certain components not taken up then, but require rehabilitation now.	-	-	1
3	Tanks not taken up for rehabilitation since 2005 under any other schemes	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure in which certain components not taken up since 2005 but require rehabilitation now.	-	-	-
4	Total No. of infrastructures requiring rehabilitation now.	-	-	-

### Package No: 15/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 Abstract showing the details of Rehabilitation works proposed

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 infrastructure now proposed were not taken up under IAMWARM Project

4. For item No.3- certified that the works are not executed under various scheme (viz., NABARD, part II scheme, Etc.,) and IAMWARM since 2005.

### Statement II- A REHABILITATION OF LEFTOUT TANKS & INFRASTRUCTURE IN SUB BASIN OF IAMWARM PROJECT

Name of Work: Improvements to the guaging Bridge at LS. 22317 M, Reconstruction of Canal Syphon at LS 22933 M and LS 23658 M of Amaravathi Main Canal in Madathukulam Taluk of Tiruppur District. Package No: 15/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks	Tank Bund improvements		Repairs to sluice		Reconstruction of sluices		Repairs to weirs		Reconstruction of weirs		Shutter Renewal		Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
					_		NIL							

Name of Work : Improvements to the guaging Bridge at LS. 22317 M, Reconstruction of Canal Syphon at LS 22933 M and LS 23658 M of Amaravathi Main Canal in Madathukulam Taluk of Tiruppur District.

### Package No: 15/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

SL NO	Name of tanks	Desilting of irrigation channel		Lining of irrigation channel			irs to Drops, 1on cistern		epairs to culvert educt etc.,	Shutter Renewal		Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
1	Amaravathi main Canal	-	-	-	-	2	97.74	3	53.95	-	-	151.69
	Total	-	-	-	-	2	97.74	3	53.95	-	-	151.69

### Statement II- C

Name of Work : Improvements to the guaging Bridge at LS. 22317 M, Reconstruction of Canal Syphon at LS 22933 M and LS 23658 M of Amaravathi Main Canal in Madathukulam Taluk of Tiruppur District.

## Package No: 15/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 REHABILITATION OF SUPPLY CHANNEL

Name of Sub basin : Amaravathi Sub Basin

SI.NO	Name of Anicut/Supply Channel	Reconstruction of anicut		Repairs to Anicut		Shutter Renewal		Supply Chann	Total	
		No	No Amount		Amount	No Amount		Length in m	Amount	
	NIL									

# <u>Statement I</u> <u>Rehabilitation of Left out works in Amaravathi Sub basin (Leftout works)</u>

Name of Work : Construction of Check Dam across Amaravathi River near Dharapuram Town of Dharapuram Taluk of Tiruppur District.

SL NO	Description	Tanks Nos	Anicut Nos	Supply channel Nos
1	Available infrastructure in the sub basin	-	1	-
2	Rehabilitation works taken up under IAMWARM project	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure taken up under IAMWARM but certain components not taken up then, but require rehabilitation now.	-	1	
3	Tanks not taken up for rehabilitation since 2005 under any other schemes	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure in which certain components not taken up since 2005 but require rehabilitation now.	-	-	-
4	Total No. of infrastructures requiring rehabilitation now.	-	1	

### Package No: 16/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 Abstract showing the details of Rehabilitation works proposed

**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 infrastructure now proposed were not taken up under IAMWARM Project

4. For item No.3- certified that the works are not executed under various scheme (viz., NABARD, part II scheme, Etc.,) and IAMWARM since 2005.

# Statement II- A REHABILITATION OF LEFTOUT TANKS & INFRASTRUCTURE IN SUB BASIN OF IAMWARM PROJECT

Name of Work: Construction of Check Dam across Amaravathi River near Dharapuram Town of Dharapuram Taluk of Tiruppur District.

Package No: 16/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks		Bund F ements		•		ReconstructionRepairs toof sluicesweirs			nstruction weirs		hutter enewal	Total	
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
							NIL							

#### **REHABILITATION OF T ANK WORKS**

# Statement II- B REHABILITATION OF IRRIGATION CHANNELS

Name of Work : Construction of Check Dam across Amaravathi River near Dharapuram Town of Dharapuram Taluk of Tiruppur District.

# Package No: 16/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks	-	of irrigation annel	i	Lining of irrigation channel		irrigation siphon cistern				n siphon cistern culvert Renewal						Total
1		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount						
		-	-	-	NIL	-	-	-	-	-	-	-					

### Statement II- C

Name of Work : Construction of Check Dam across Amaravathi River near Dharapuram Town of Dharapuram Taluk of Tiruppur District.

# Package No: 16/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 REHABILITATION OF SUPPLY CHANNEL

Name of Sub basin : Amaravathi Sub Basin

SI.NO	Name of Anicut/Supply Channel	Reconstruction of anicut		Repairs to Anicut		Shutter Renewal		Supply Chann	Total	
		No	Amount	No	Amount	No	Amount	Length in m	Amount	
1	Dharapuram Checkdam	1	673.15	-	-	-	-	-	-	673.15
	Total	1	673.15	-	-	-	-	-	-	673.15

# <u>Statement I</u> <u>Rehabilitation of Left out works in Amaravathi Sub basin (Leftout works)</u>

Name of Work : Construction of Protoction wall in Santhanavarthini River in Vamparpatty , Avilipatty, Veerachinnapatty Village of Dhindugal Taluk of Dhindugal District.

SL NO	Description	Tanks Nos	Anicut Nos	Supply channel Nos
1	Available infrastructure in the sub basin	-	-	
2	Rehabilitation works taken up under IAMWARM project	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure taken up under IAMWARM but certain components not taken up then, but require rehabilitation now.	-	-	
3	Tanks not taken up for rehabilitation since 2005 under any other schemes	-	-	-
	a)Infrastructure in which all the components are in good condition and does not require rehabilitation now	-	-	-
	b)Infrastructure in which certain components not taken up since 2005 but require rehabilitation now.	-	-	-
4	Total No. of infrastructures requiring rehabilitation now.	-	-	-

### Package No: 17/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 Abstract showing the details of Rehabilitation works proposed

**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 infrastructure now proposed were not taken up under IAMWARM Project

4. For item No.3- certified that the works are not executed under various scheme (viz., NABARD, part II scheme, Etc.,) and IAMWARM since 2005.

## Statement II- A REHABILITATION OF LEFTOUT TANKS & INFRASTRUCTURE IN SUB BASIN OF IAMWARM PROJECT

Name of Work: Construction of Protoction wall in santhanavarthani River in Vamparpatty , Avilipatty, Veerachinnapatty Village of Dhindugal Taluk of Dhindugal District.

Package No: 17/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks	Tank Bund improvements		•					Repairs to weirs		Reconstruction of weirs		Shutter Renewal	
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
					_		NIL							

#### **REHABILITATION OF T ANK WORKS**

# Statement II- B REHABILITATION OF IRRIGATION CHANNELS

Name of Work : Construction of Protoction wall in santhanavarthani River in Vamparpatty , Avilipatty, Veerachinnapatty Village of Dhindugal Taluk of Dhindugal District.

# Package No: 17/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SL NO	Name of tanks	-	of irrigation annel	i	Lining of irrigation channelRepairs to Drops, siphon cisternRepairs to culvert aqueduct etc.,Shutter Renewal		irrigation		irrigation		irrigation siphon cistern		siphon cistern culvert						Total
1		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount								
		-	-	-	NIL	-	-	-	-	-	-	-							

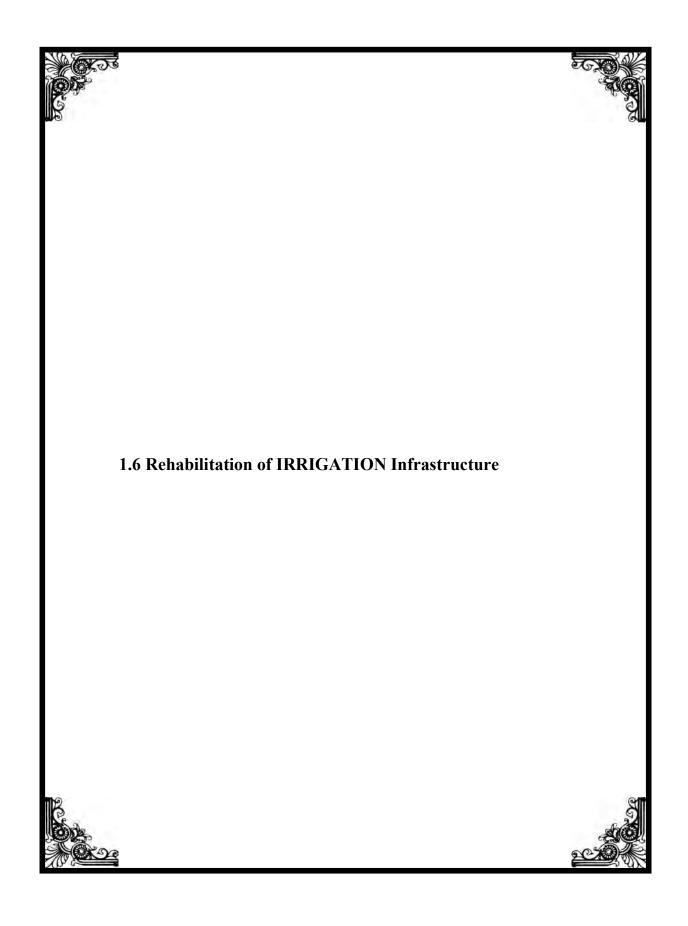
### Statement II- C

Name of Work : Construction of Protoction wall in santhanavarthani River in Vamparpatty , Avilipatty, Veerachinnapatty Village of Dhindugal Taluk of Dhindugal District.

# Package No: 17/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 REHABILITATION OF SUPPLY CHANNEL

Name of Sub basin : Amaravathi Sub Basin

SI.NO	Name of Anicut/Supply Channel		Reconstruction of anicut		Repairs to Anicut		hutter enewal	Supply Chann wall (F	Total	
		No	Amount	No	Amount	No	Amount	Length in m	Amount	
1	Kannandhanapal Thottam (LS 5350m to 5380m)							30	44.76	44.76
	Hock Thottam (LS									
2	8150m to 8250m)							100	149.19	149.19
3	Ramakrishnan Thottam (LS 9850m to 9950)							100	149.19	149.19
4	Rajamani Thottam (LS 10620m to 10720m)							100	149.19	149.19
5	Ragalapuram Anicut (LS 11040m to 11090m)							50	74.59	74.59
	TotAL							380	566.92	566.92



# <u>REHABILITATION OF IRRIGATION INFRASTRUCTURE OF THE</u> <u>AMARAVATHI SUB-BASIN</u>

#### STRUCTURAL STATUS & DEFICIENCIES IN THE SYSTEM

Before construction of dams & Reservoir, Anicuts and channels were constructed across the river during the British regime by using the big size boulders. The anicuts and channels are being maintained only with the available funds which is not sufficient for upkeeping the system in good condition.

The old channels from the Anicuts mostly runs along the contour and also are earthern channels. The channel banks are heavily eroded in many places and are below the required standards.

The sluices in the entire length of the channels were constructed during the formation of the channel itself and now the sluice structures, pipes and sluice shutters are in damaged condition and hence effective water regulation is not possible in a systematic manner and loss of water through the sluices are also abnormal.

The tank bunds are found eroded in many places with extensive gullies formed and hence they are below the desired standards. Head sluice of supply channels to tanks are also in damaged conditions.

The Amaravathi Main canal was excavated on the left bank of Amaravathi river in the year 1959 and lined during the year 1972-73 for 12 Kms and remaining portions were lined during 1982-85. Due to its long run and continuous usage, lining from LS 0 to 12.50 Km was completely damaged and broken into many pieces. From 12.50 KM to 63.20 Km, bed and side linings are damaged in some places which now need rehabilitation. The distributaries have been lined only in secletive reaches which are also damaged at present. Owning to this, the tail end farmers are not getting the assured & reliable supply.

The sluices and cross masonry structures are also in damaged condition and hence effective water regulation could not be done in a systematic manner besides the loss of water is abnormal.

Due to the structural and operational deficiencies mentioned above, out of the total ayacut of **53334.22Ha**, only **35694.29Ha** are fully irrigated, **8575.78Ha** are partially irrigated and **7937.74Ha** are gap area and also **1126.41Ha** are identified as permanent gap area.

In order to improve the conveyance and operational efficiency, it is proposed in **IAMWARM Phase-IV Stage-II** to improve and modernize the structural components in Amaravathi Sub basin (viz)

- 1. Concrete lining the Bed and Sides of Main Canal and Distributories
- 2. Rehabilitation of Sluices and Renewal with Screw Gearing Shutters.
- 3. Rehabilitation of Cross Masonry Structures
- 4. Standardizing and strengthening the Canal Banks
- 5. Construction of Concrete protection walls in Old Channels
- 6. Providing approach bridges to the Farmers
- 7. Rehabilitation of Supply Channel from Anicuts to Tanks
- 8. Rehabilitation of Anicuts and Weirs
- 9. Standardizing and strengthening the Tank Bunds
- 10. Construction of field channels, below the tank sluices
- 11. Construction of measuring devices
- 12. Strengthening of PIM & convergence activities
- 13. Construction of bed bars @ 200m interval for supply channel.

#### outcome of the Project

- 1. Increase in conveyance efficiency by about 20%
- 2. The present Gap area of **Ha**. is to be converted as a fully irrigated area
- Increase in additional cultivational area during second crop season for about \_\_\_\_\_\_ ha.
- 4. In Stage II, 2 Nos of tanks, 17 Nos of anicuts, 25.26 km length of Supply channel are to be rehabilitated.

S1.	Name of the Tank	Maximum Height of	Free I	Length of	
No.		Bund	Provided previously	Provided now	Bund
		Nil			

- 1) For height of bund up to 3.0 m Free board is 1.25m
- 2) For height of bund more than 3.0m Free board is 1.50 m

S1.	Name of the Tank	Maximum Height of	Free Board		Length of
No.		Bund	Provided previously	Provided now	Bund
		Nil			

# Note:-

1) For height of bund up to 3.0 m – Free board is 1.25m

2) For height of bund more than 3.0m – Free board is 1.50 m

S1.	Name of the Tank	Maximum Height of	Free Board				Length of
No.		Bund	Provided previously	Provided now	Bund		
		Nil					

# Note:-

1) For height of bund up to 3.0 m - Free board is 1.25m

2) For height of bund more than 3.0m – Free board is 1.50 m

S1.	Name of the Tank	Maximum Height of	Free l	Board	Length of
No.		Bund	Provided previously	Provided now	Bund
		Nil			

- 1) For height of bund up to 3.0 m Free board is 1.25m
- 2) For height of bund more than 3.0m Free board is 1.50 m

S1.	Name of the Tank	Maximum Height of	Free Board		Length of
No.		Bund	Provided previously	Provided now	Bund
		Nil			

- 1) For height of bund up to 3.0 m Free board is 1.25m
- 2) For height of bund more than 3.0m Free board is 1.50 m

S1.	Name of the Tank	Maximum Height of	Free Board		Length of
No.		Bund	Provided previously	Provided now	Bund
		Nil			

# Note:-

1) For height of bund up to 3.0 m - Free board is 1.25m

2) For height of bund more than 3.0m – Free board is 1.50 m

S1.	Name of the Tank	Maximum Height of	Free Board		Length of
No.		Bund	Provided previously	Provided now	Bund
		Nil			

- 1) For height of bund up to 3.0 m Free board is 1.25m
- 2) For height of bund more than 3.0m Free board is 1.50 m

S1.	Name of the Tank	Maximum Height of	Free Board		Length of
No.		Bund	Provided previously	Provided now	Bund
1		NIL			
2					

# Note:-

1) For height of bund up to 3.0 m - Free board is 1.25m

2) For height of bund more than 3.0m – Free board is 1.50 m

S1.	Name of the Tank	Maximum Height of	Free Board		Length of
No.		Bund	Provided previously	Provided now	Bund
		Nil			

# Note:-

1) For height of bund up to 3.0 m - Free board is 1.25m

2) For height of bund more than 3.0m - Free board is 1.50 m

S1.	Name of the Tank	Maximum Height of	Free Board		Length of
No.		Bund	Provided previously	Provided now	Bund
1	Karungulam (Chatrapatti)	6.00m	1.50m	1.50m	2081m
2	Karungulam (Parithiyur)	6.45m	1.50m	1.50m	1395m

# Note:-

1) For height of bund up to 3.0 m – Free board is 1.25m

2) For height of bund more than 3.0m – Free board is 1.50 m

Sl.	Name of the Tank	Maximum Height of	Free Board		Length of Bund
No.		Bund	Provided previously	Provided now	Bund
		Nil			

- 1) For height of bund up to 3.0 m Free board is 1.25m
- 2) For height of bund more than 3.0m Free board is 1.50 m

Sl.	Name of the Tank	Maximum Height of	Free Board		Length of Bund
No.		Bund	Provided previously	Provided now	Bund
		Nil			

- 1) For height of bund up to 3.0 m Free board is 1.25m
- 2) For height of bund more than 3.0m Free board is 1.50 m

Sl.	Name of the Tank	Maximum Height of	Free Board		Length of Bund
No.		Bund	Provided previously	Provided now	Bund
		Nil			

- 1) For height of bund up to 3.0 m Free board is 1.25m
- 2) For height of bund more than 3.0m Free board is 1.50 m

S1.	Name of the Tank	Maximum Height of	Free Board		Length of
No.		Bund	Provided previously	Provided now	Bund
		Nil			

- 1) For height of bund up to 3.0 m Free board is 1.25m
- 2) For height of bund more than 3.0m Free board is 1.50 m

Sl.	Name of the Tank	Maximum Height of	Free Board		Length of Bund
No.		Bund	Provided previously	Provided now	Bund
		Nil			

- 1) For height of bund up to 3.0 m Free board is 1.25m
- 2) For height of bund more than 3.0m Free board is 1.50 m

Sl.	Name of the Tank	Maximum Height of	Free Board		Length of
No.	Bund	Provided previously	Provided now	Bund	
		Nil			

- 1) For height of bund up to 3.0 m Free board is 1.25m
- 2) For height of bund more than 3.0m Free board is 1.50 m

Sl.	Name of the Tank	Maximum Height of	Free l	Board	Length of Bund
No.		Bund	Provided previously	Provided now	Bund
		Nil			

- 1) For height of bund up to 3.0 m Free board is 1.25m
- 2) For height of bund more than 3.0m Free board is 1.50 m

#### PACKAGES PROPOSED IN AMARAVATHI SUB BASIN

# PHASE-IV STAGE-II

Pakag e. No.	Name of work	Est.Amount (in lakhs)
1	Rehabilitation and restoration of Komaralingam, Sholamadevi, Sarkarkannadipudur Leading channel of Amaravathi river system in Madathukulam of Tiruppur District	130.00
2	Rehabilitation and Restoration of Dhalavaipattinam, Dharapuram, Kolinjivadi Leading Channel of Amaravathi river system in Dharapuram of Tiruppur District	291.00
3	Rehabilitation of Nallathangal odai Reservoir Main canal, High level canal and Distributaries in Dharapuram taluk of Tiruppur District	449.00
4	Construction of Protection wall from LS 11.00 Km to LS 13.00Km in the left out reach of Dharapuram channel in Dharapuram taluk of Tiruppur District.	482.00
5	Construction of Protection wall from LS 13.00 Km to LS 14.50Km in the left out reach of Dharapuram channel in Dharapuram taluk of Tiruppur District.	318.00
6	Construction of Protection wall from LS 14.50Km to LS 16.00 Km in the left out reach of Dharapuram channel in Dharapuram taluk of Tiruppur District.	301.00
7	Rehabilitation of Nanjaithalaiyur Anicut in Amaravathi River System in Amaravathi sub basin in Aravakuruchi taluk of Karur District.	150.50
8	Rehabilitation of Vertical gates and Hoisting Arrangements to Chettipalayam Anicut of Amaravathi River System in Amaravathi sub basin in Karur taluk of Karur District	218.00
9	Rehabilitation of Thamaraikulam Anicut, Supply channel and Thadakulam supply channel of Palar Porunthalar system of Amaravathi sub Basin in Palani taluk of Dindugal District.	598.00
10	Rehabilitation of Left out non system Tanks and Anicuts of Varadhamanadhi non system, costruction of check dams across Nallathangal odai Near Kothayam Village and Construction of Cause way near Sangaramanallur anicut site of Amaravathi Sub Basin in Oddanchatram, Palani Taluk of Dindugal District and Madathukulam Taluk of Tiruppur District.	263.00
11	Rehabilitation of Kodaganar Anicut, Lashmanampatti Anicut, Boothipuram Anicut and Surplus Channel of Neelamalaikottai Tank	193.00

	Total	6001.75
17	Construction of Protoction wall in santhanavarthani River in Vamparpatty, Avilipatty, Veerachinnapatty Village of Dhindugal Taluk of Dhindugal District.	581.00
16	Construction of Check Dam across Amaravathi River near Dharapuram Town of Dharapuram Taluk of Tiruppur District.	691.25
15	Improvements to the guaging Bridge at LS. 22317 M, Reconstruction of Canal Syphon at LS 22933 M and LS 23658 M of Amaravathi Main Canal in Madathukulam Taluk of Tiruppur District.	155.00
14	Rehabilitation of Right Main Canal from LS 26.500Km to 53.515Km of Kodaganar Dam in Vedasandur and Aravakurichi Taluks of Dindigul and Karur District.	81.00
13	Rehabilitation of Kattankulam anicut and Protection walls in Santhanavarthini river in Avilipatty Village of Dindugal Taluk of Dindugal District.	540.00
12	Rehabilitation of Alagarpudukulam Anicut and Protection walls in Santhanavarthini river in Vemparpatty Village of Dindugal Taluk of Dindugal District.	560.00
	of Amaravathi Sub Basin in Oddanchatram, Athur, Vedasandur and Dindigul Taluks of Dindigul District.	

				D	etails	of P	ropos	als ir	n each	infr	astru	ictur	e – J	Phase	-IV S	tage-]	i					
Sl No	Package No	Lining of canal/ Dist			nd / Canal eep Track	Cross	epairs to s Masonry works		pairs to e/ Shutters	Weir R	Repair	Anic	eut	Supply o	channel	Retainir	ng wall		asuring evises	Sub - Total	L.S. Provis ion at 2.80 %	Total
		L (km)	A(La)	L (km)	A(La)			Nos	A(La)	Nos	A(L a)	L (km)	A(L a)	L (km)	A(La)	L (km)	A(La)					
1	Package No.1 / ASB /NCB/ 2011-12	12.047	912.40	12.50	108	14	29.97	14	13.17	-	-	-	-	-	-	-	-	-	-	1063.5 4	29.46	1093
2	Package No.2 / ASB /NCB/ 2011-12	26.747	307.33	34	114.52	15	14.49	36	15.15	-	-	-	-	-	-	-	-	-	-	451.49	12.51	464
3	Package No.3 / ASB /NCB/ 2011-12	40.772	384.56	43.62	56.56	244	98.83	158	33.67	-	-	-	-	-	-	-	-	-	-	573.93	16.07	590
4	Package No.4 / ASB /NCB/ 2011-12	28.15	209.12	28.15	19.10	99	156.51	122	2.43	-	-	-	-	-	-	-	-	-	-	-	10.84	398
5	Package No.5 / ASB /NCB/ 2011-12	32.07	313.98	32.07	13.69	93	24.10	140	48.03	-	-	-	-	-	-	-	-	-	-	-	11.20	410
6	Package No.6 / ASB /NCB/ 2011-12	51.71	397.86	51.71	67.24	354	119.96	121	16.94	-	-	-	-	-	-	-	-	-	-	-	16.39	602
7	Package No.7 / ASB /NCB/ 2011-12	-	-	30.885	61.22	-	-	199	159.2	-	-	-	-	-	-	2.48	364.3 0	-	-	-	16.28	601
8	Package No.8 / ASB /NCB/ 2011-12	-	-	31.61	55.74	-	-	212	169.6	-	-	-	-	-	-	1.316	163.6 6	-	-	-	11.00	400
9	Package No.9 / ASB /NCB/ 2011-12	-	-	35.36	43.87			325	276.25					21.215	6.13	2.550	252.5 4			578.79	16.21	595
10	Package No.10 / ASB /NCB/	-	Tank 3 Nos	3.552	29.01			2	13.71	1	4.87					0.165	10.16	3	0.30	58.05	12.54	465
	2011-12	 	Non Tank	27.963	46.21		<u> </u> '	25	20.80	'	ļ!	 	ļ'	67.10	82.43	2.250	244.9 7			394.41		<u> </u>
11	Package No11 / ASB /NCB/ 2011-12	-	-	29.70	33.00			21	16.10					14.7	3.41	4.05	434.0 1			486.42	13.58	500

Sl No	Package No	Lining of canal/ Dis			Tank bund / Canal bund/ Jeep Track     Repairs to Cross Maso works				oairs to / Shutters	Wo	eir	Ani	icut	Supply	channel	Retaini	ng wall	Mea De	suring vises	Sub - Total	L.S. Provis ion at 2.80 %	Total
		L (km)	A(La)	L (km)	A(La)			Nos	A(La)	Nos	A(L a)	L (km)	A(L a)	L (km)	A(La)	L (km)	A(La)					
12	Package No12 / ASB /NCB/ 2011-12	-	-	12.53	42.82			8	6.4					26.2	6.08	2.13	236.6			291.9	8.1	300
13	Package No13 / ASB /NCB/ 2011-12	-	-	8.10	31.63	-	-	1	12.00	-	-	-	-	-	8.10	1625.9 4	-	-	-	1669.5 7	49.43	1719
14	Package No14 / ASB /NCB/ 2011-12	18.00	458.57	32.42	33.38	-	-	62	15.83	-	-	-	-	-	-	-	-	-	-	507.78	14.22	522
15	Package No15 / ASB /NCB/ 2011-12	-	-	13.57	183.55	-	-	14	87.62	6	27.4 8	3	277. 47	20.15	55.31	-	-	18	3.76	635.21	17.79	653
16	Package No16 / ASB /NCB/ 2011-12	-	-	25.27	289.91	-	-	34	172.07	5	22.9 9	2	70.1 8	2.215	14.62	-	-	28	4.16	573.93	16.07	590
17	Package No17 / ASB /NCB/ 2011-12	-	-	21.36	262.08	-	-	18	148.66	-	-	-	-	18.23	70.61	-	-	43	5.03	486.38	13.62	500
18	Package No18 / ASB /NCB/ 2011-12	-	-	10.65	173.55	-	-	13	119.42	8	27.3 1	2	47.9 0	16.93	116.00	-	-	11	1.60	486.38	13.62	500
19	Package No19 / ASB /NCB/ 2011-12	-	-	12.185	118.79	5	114.38	24	143.86	13	45.6 0	3	110. 00	9.905	6.40	-	-	21	2.52	541.61	14.39	556
20	Package No20 / ASB /NCB/ 2011-12	-	-	19.168	212.39	-	-	42	308.34	18	53.0 8	-	-	19.816	5.51	-	-	50	6.04	585.53	13.47	599
21	Package No21 / ASB /NCB/ 2011-12	-	-	17.653	170.68	-	-	33	254.50	11	11.9 5	-	-	15.365	76.37	-	-	37	4.24	525.74	14.26	540
22	Package No22 / ASB /NCB/ 2011-12	14.39 Km	142.81	13.50K m	13.40	34 Nos	28.90	13 Nos	8.34	-	-	-	-	-	-	-	-	-	-	193.45	4.55	198
													Total						12795			

				D	etails	of P	roposa	als in	each i	infra	stru	cture	e – P	hase	e-IV St	age-I	I					
Sl No	Package No	Lining o canal/ Dis	f Main tributary	Tank bur bund/ Je	nd / Canal ep Track	Cross	pairs to Masonry vorks		pairs to be/ Shutters	Weir I	Repair	Ani	cut	Supp	ly channel	Retaini	ng wall	Meas § Dev	g	Sub - Total	L.S. Provis ion at 2.80 %	Total
		L (km)	A(La)	L (km)	A(La)			Nos	A(La)	Nos	A(L a)	L (km)	A(L a)	L (km )	A(La)	L (km)	A(La)					
1	01/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	-	-	2.184	9.08	-	-	-	-	-	-	-	-	0.89 8	117.33	-	-	-	-	126.41	3.59	130.00
2	02 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	-	-	5.04	8.33	-	-	_	-	-	-	-	-	1.84	274.91	-	-	-	-	283.24	7.76	291.00
3	03/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	50,315	404.44	23.00	26.58	15	5.77	-	-	-	-	-	-	-	-	-	-	-	-	436.79	12.21	449.00
4	04/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	-	-	-	-	-	-	-	-	-	-	-	-	3.50	468.87	-	-	-	-	468.87	13.13	482.00

5	05/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	-	-	-	-	-	-	-	-	-	-	-	-	2.50	309.89	-	-	-	-	309.89	8.11	318.00
6	06/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	-	-	-	-	-	-	-	-	-	-	-	_	2.00	292.53	_	-	-	_	292.53	8.47	301.00
7	07/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	-	-	-	-	-	-	-	-	-	-	1	146. 39	-	_	-	-	-		146.39	4.11	150.50
8	08/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	-	-	-	-	-	-	12	212.07	-	-	-	-	-	-	-	-	-	-	212.07	5.93	218.00

9	09/TN	-	-			-		-			-											
	IAMWARM /		_	-	_			_	_		_						_					
	WRD / AMR /																					
												1	22.27	7.060	559.89					582.16	15.84	598.00
	WORKS / IV /																					
	Stage-II / 2012-																					
10	13 10/TN																					
10																						
	IAMWARM /																					
	WRD / AMR /			3.476	45.48	2	162.71	2	24.94	1	9.86	2	12.58					2	0.28	255.85	7.15	263.00
	WORKS / IV /																					
	Stage-II / 2012-																					
11	13												127.20			0.10	51.00			100.20	1.7	102.00
11	11/TN											4	137.30			0.10	51.00			188.30	4.7	193.00
	IAMWARM /																					
	WRD / AMR /																					
	WORKS / IV /																					
	Stage-II / 2012-																					
	13																					
12	12/TN											1	25.00			0.40	520.63			545.63	14.37	560.00
	IAMWARM /																					
	WRD / AMR /																					
	WORKS / IV /																					
	Stage-II / 2012-																					
	13																					
13	13/TN											1	350.54			0.12	175.27			525.81	14.18	540.00
	IAMWARM /															3						
	WRD / AMR /																					
	WORKS / IV /																					
	Stage-II / 2012-																					
	13				10.55																	
14	14/TN	-	-	27.015	18.55	10	0.92	-	-	-	-	-	-	-	-	0.23	59.11	-	-	78.58	2.42	81.00
	IAMWARM /																					
	WRD / AMR /																					
	WORKS / IV /																					
	Stage-II / 2012-																					
1.5	13					-	151.60													151.60	2.21	155.00
15	15/TN					5	151.69													151.69	3.31	155.00
	IAMWARM /																					
	WRD / AMR /																					
	WORKS / IV / Stage-II / 2012-13																					
	Stage-11 / 2012-13	I	WR			l	<u> </u>		<u> </u>							11		I	l	ļ		

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16	16/TN											1	673.15							673.15	18.10	691.25
	IAMWARM /																					
	WRD / AMR /																					
	WORKS / IV /																					
	Stage-II / 2012-																					
	13																					
17	17/TN															0.38	566.92			566.92	14.08	581.00
	IAMWARM /																					
	WRD / AMR /																					
	WORKS / IV /																					
	Stage-II / 2012-																					
	13																					
		50315	404.44	60.715	108.02	32	321.10	14	237.01	1	9.86	11	1367.23	17.7	2023.42	1.23	1372.93	2	0.28	5844.2	157.46	6001.75
														9		5				8		

# Package 1 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 A. Details of propasals in each Infrastructure of the sub basin

SI	Name of tank/Anicut/	Bu	nd			Sluice				W	eir			pairs to Anicut	Supply	channel		isuring vices	Amt in
no	Reservoir	Length	Amt	Total nos	Repairs	Amt	Reco nst	Amt	Repairs	Amt	Recons t	Amt	No	Amt	<u>length</u> RW	Amt	No	Amt	Lakhs
1	Kumaralingam Leading Channel	200m	0.95	-	-	-	-	-	-	-	-	-	-	-	17m	10.40	-	-	11.35
2	Solamadevi Leading Channel	1250m	3.87	-	-	-	-	-	-	-	-	-	-	-	498m	52.63	-	-	56.50
3	Sarkar kannadipathy Leading Channel	734m	4.27	-	-	-	-	-	-	-	-	-	-	-	383m	54.30	-	-	58.57
			9.09													117.33			126.42

# Package 2 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 A. Details of propasals in each Infrastructure of the sub basin COST ANALYSIS

Repairs to Measuring Supply channel Bund Sluice weir Devices Anicut Amt in SI Name of tank/Anicut/ lengt Reservoir Lakhs no Total Recons Reco <u>h</u> Length Repairs Amt Repairs Amt Amt No Amt Amt Amt Amt No Amt nos nst t RW 900m 1.46 450 75.81 77.27 Thalavaipattinam \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ -\_ \_ 1 Leading Channel m 4140m 6.69 765 112.40 119.09 Dharapuram -\_ \_ ---\_ -\_ --\_ \_ 2 Leading Channel m 250 86.88 86.88 Kolingivadi Leading Channel -\_ \_ \_ \_ \_ \_ --\_ -\_ ---3 m 275.09 Total 8.15 283.24

# Package 3 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 A. Details of propasals in each Infrastructure of the sub basin COST ANALYSIS

	Name of tank/Anicut/	Bu	ind			Sluice				weir				airs to nicut	Supply o	channel		asuring evices	Amt in
r	O Reservoir	Length	Amt	Total nos	Repairs	Amt	Recons t	Amt	Repairs	Amt	Reco nst	Amt	No	Amt	<u>length</u> RW	Amt	N O	Amt	Lakhs
	Nallathangal Odai Resevoir Channel	23000	26.58	78	15	5.77	-	-	-	-	-		-	-	50.315	404.44			436.79

# Package 4 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

# A. Details of propasals in each Infrastructure of the sub basin

SI		Bu	ınd			Sluice				weir				pairs to Anicut	Supply	/ channel		isuring vices	- Amt in
nc	Name of tank/Anicut/ Reservoir	Length	Amt	Total nos	Repairs	Amt	Recons t	Amt	Repairs	Amt	Reco nst	Amt	No	Amt	<u>lengt</u> <u>h</u> RM	Amt	No	Amt	Lakhs
1	Dharapuram Channel														3500	468.87			468.87
	Total														3500	468.87			468.87

# Package 5/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 A. Details of propasals in each Infrastructure of the sub basin COST ANALYSIS

SI		Bu	ınd			Sluice				weir				pairs to Anicut	Supply	channel		isuring vices	Amt in
no	Name of tank/Anicut/ Reservoir	Length	Amt	Total nos	Repairs	Amt	Recons t	Amt	Repairs	Amt	Reco nst	Amt	No	Amt	<u>lengt</u> <u>h</u> RW	Amt	No	Amt	Lakhs
1	Dharapuram Channel														2500	309.89			309.89
	Total														2500	309.89			309.89

# Package 6/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 A. Details of propasals in each Infrastructure of the sub basin COST ANALYSIS

SI	· · · · · · · · · · · · · · · · · · ·	Bu	ind			Sluice				weir				pairs to Anicut	Supply	v channel		isuring vices	Amt in
סר סר	Name of tank/Anicut/ Reservoir	Length	Amt	Total nos	Repairs	Amt	Recons t	Amt	Repairs	Amt	Reco nst	Amt	No	Amt	<u>lengt</u> <u>h</u> RW	Amt	No	Amt	Lakhs
	Dharapuram Channel														2000	292.53			292.53
	Total														2000	292.53			292.53

## Package 07/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 A. Details of propasals in each Infrastructure of the sub basin COST ANALYSIS

SI		Bu	ınd			Sluice				weir				pairs to Anicut	Supply	channel		isuring vices	Amt in
no	Name of tank/Anicut/ Reservoir	Length	Amt	Total nos	Repairs	Amt	Recons t	Amt	Repairs	Amt	Reco nst	Amt	No	Amt	<u>lengt</u> <u>h</u> RW	Amt	No	Amt	Lakhs
1	Nanjaithalaiyur Anicut	0	0	0	0	0	0	0	0	0	0	0	1	146.39	0	0	0	0	146.39
	Package 07	0	0	0	0	0	0	0	0	0	0	0	1	146.39	0	0	0	0	146.39

# Package 08/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 A. Details of propasals in each Infrastructure of the sub basin COST ANALYSIS

SI	Name of tank/Anicut/	Bu	ind			Sluice				weir				pairs to Anicut	Supply o	channel		asuring vices	Amt in
no	Reservoir	Length	Amt	Total nos	Repairs	Amt	Recons t	Amt	Repairs	Amt	Reco nst	Amt	No	Amt	<u>length</u> RW	Amt	No	Amt	Lakhs
1	Chettypalayam Anicut	0	0	12	12	212.07	0	0	0	0	0	0	0	0	0	0	0	0	212.07
	Total	0	0	12	12	212.07	0	0	0	0	0	0	0	0	0	0	0	0	212.07

								COST	ANALYSIS										
SI		Bu	ınd			Sluice				weir				pairs to Anicut	Supply	channel		isuring vices	Anatin
no	Name of tank/Anicut/ Reservoir	Length	Amt	Total nos	Repairs	Amt	Recons t	Amt	Repairs	Amt	Reco nst	Amt	No	Amt	<u>lengt</u> <u>h</u> RW	Amt	No	Amt	Amt in Lakhs
1	Thamaraikulam Anicut	0	0	0	0	0	0	0	0	0	0	0	1	22.27	0	0	0	0	22.27
2	Thamaraikulam Supply Channel	0	0	0	0	0	0	0	0	0	0	0	-	-	1500	97.09	-	-	97.09
3	Thadakulam Supply Channel	0	0	0	0	0	0	0	0	0	0	0	0	0	5560	462.80	-	-	462.80
	Total	0	0	0	0	0	0	0	0	0	0	0	1	22.27	7060	559.89	-	-	582.16

#### Package 09/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 A. Details of propasals in each Infrastructure of the sub basin ----

# Package 10/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 A. Details of propasals in each Infrastructure of the sub basin

SI	Name of tank/Anicut/	Bu	nd			Sluice				weir				pairs to Anicut		masonry ctures		asuring vices	Amt in
no	Reservoir	Length	Amt	Total nos	Repairs	Amt	Recons t	Amt	Repairs	Amt	Reco nst	Amt	No	Amt	<u>Nos.</u>	Amt	No	Amt	Lakhs
1	Karungulam (Parithiyur)	1395m	19.79	2	-	-	2	24.64	-	-	-	-	1	8.49	-	-	2	0.29	53.21
2	Karungulam (Chatrapatti)	2081m	25.69	-	-	-	-	-	1	9.86	0	-	-	-	-	-	-	-	35.55
3	Porulur Karisalkulam Anicut	-	-	-	0	-	-	-	-	-	-	-	1	4.38	-	-	-	-	4.38
4	Causeway	-	-	-	-	-	-	-	-	-	-	-	-	-	1	74.51	-	-	74.51
5	Nallathangal Odai Checkdam	-	-	-	-	-	-	-	-	-	-	-	-	-	1	88.20	-	-	88.20
	Total	3476m	45.48	2	-	-	2	24.64	1	9.86	-	-	2	12.87	2	162.71	2	0.29	255.85

# Package 11/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 A. Details of propasals in each Infrastructure of the sub basin

SI		Bu	nd			Sluice				weir				pairs to Anicut	Supply	channel		isuring vices	Amt in
no	Name of tank/Anicut/ Reservoir	Lengt h	Amt	Total nos	Repairs	Amt	Recons t	Amt	Repairs	Amt	Reco nst	Amt	No	Amt	<u>lengt</u> <u>h</u> RW	Amt	No	Amt	Lakhs
	Neelamalaikottai tank-	-	-	-	-	-	-	-	-	-	-	-		148.77	-	-	-	-	148.77
1	Surplus channel Drop												1						
	&Spur wall																		
	Kodaganar Anicut	-	-	-	-	-	-	-	-	-	-	-		6.09	-	-	-	-	6.09
2	across Kodaganar												1						
2	River																		
	Lakshmanpatti Anicut	-	-	-	-	-	-	-	-	-	-	-		6.04	-	-	-	-	6.04
	across Kodaganar												1						
	River																		
	Boothipuram Anicut	-	-	-	-	-	-	-	-	-	-	-		27.40	-	-	-	-	27.40
	across Kodaganar												1						
	River																		
		-	-	-	-	-	-	-	-	-	-	-	4	188.30	-	-	-	-	188.30
	Total	-																	

# Package 12 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 A. Details of propasals in each Infrastructure of the sub basin

SI	Name of tank/Anicut/	Bu	nd			Sluice				weir			1	epairs to Anicut	Supply	channel		isuring vices	Amt in
no	Reservoir	Length	Amt	Total nos	Repairs	Amt	Recons t	Amt	Repairs	Amt	Reco nst	Amt	No	Amt	<u>length</u> RW	Amt	No	Amt	Lakhs
	Sedipatty (LS												1	182.00					182.00
1	1210m to																		
	1260m)																		
	Mottaiyagoud												1	182.00					182.00
2	anpatti (LS																		
2	2190m to																		
	2340m)																		
	Alagarpudukul												1	181.63					181.63
3	am (LS 3300m																		
	to 3600m)																		
	Total													545.63					545.63

# Package 13/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

SI		Bund			Sluice				weir			Repairs to Anicut		Supply channel		Measuring Devices		- Amt in		
no	no Reservoir		Length	Amt	Total nos	Repairs	Amt	Recons t	Amt	Repairs	Amt	Reco nst	Amt	No	Amt	<u>lengt</u> <u>h</u> RW	Amt	No	Amt	Lakhs
1	Kattankulam												1	175.27					175.27	
	Anicut																			
	Kattankulam												1	350.54					350.54	
2	Anicut																			
	Retaining																			
	wall																			
	Total													525.81					525.81	

# Package 14/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 A. Details of propasals in each Infrastructure of the sub basin

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SI		Bu	ind			Sluice				weir				pairs to Anicut	Supply	v channel		isuring vices	Amt in
no	Name of tank/Anicut/ Reservoir	Length	Amt	Total nos	Repairs	Amt	Recons t	Amt	Repairs	Amt	Reco nst	Amt	No	Amt	<u>lengt</u> <u>h</u> RW	Amt	No	Amt	Lakhs
1	Kodaganar RMC (LS 26500m to 53515m)														1	78.58			78.58
	Total															78.58			78.58

# Package 15/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 A. Details of propasals in each Infrastructure of the sub basin COST ANALYSIS

CI		Bu	ind			Sluice				weir				pairs to Anicut	Supply	channel		isuring vices	Anatin
SI no	Name of tank/Anicut/ Reservoir	Length	Amt	Total nos	Repairs	Amt	Recons t	Amt	Repairs	Amt	Reco nst	Amt	No	Amt	<u>lengt</u> <u>h</u> RW	Amt	No	Amt	Amt in Lakhs
1	Amaravathi Main Canal	-	-	-	-	-	-	-	-	-	-	-	-	-	1	151.69	-	-	151.69
	Total	-	-	-	-	-	-	-	-	-	-	-	-	-	1	151.69	-	-	151.69

F	Package 16/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13
	A. Details of propasals in each Infrastructure of the sub basin
	COST ANALYSIS

Package 16/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13
A. Details of propasals in each Infrastructure of the sub basin
COST ANALYSIS

SI	N 6. 1/0 /	Bu	ind			Sluice				weir				pairs to Anicut	Supply	channel		isuring vices	Amt in
no	Name of tank/Anicut/ Reservoir	Length	Amt	Total nos	Repairs	Amt	Recons t	Amt	Repairs	Amt	Reco nst	Amt	No	Amt	<u>lengt</u> <u>h</u> RW	Amt	No	Amt	Lakhs
1	Dharapuram Checkdam	-	-	-	-	-	-	-	-	-	-	-	1	673.15	-	-	-	-	673.15
	Total	-	-	-	-	-	-	-	-	-	-	-	1	673.15	-	-	-	-	673.15

I	Package 17/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13
	A. Details of propasals in each Infrastructure of the sub basin
	COST ANALYSIS

SI		Bu	ind			Sluice				weir				pairs to Anicut	Supply	channel		isuring vices	Amt in
no	Name of tank/Anicut/ Reservoir	Length	Amt	Total nos	Repairs	Amt	Recons t	Amt	Repairs	Amt	Reco nst	Amt	No	Amt	<u>lengt</u> <u>h</u> RW	Amt	No	Amt	Lakhs
1	Kannandhanapal Thottam (LS 5350m to 5380m)												1	113.38					113.38
2	Hock Thottam (LS 8150m to 8250m)												1	113.38					113.38
3	Ramakrishnan Thottam (LS 9850m to 9950)												1	113.38					113.38
4	Rajamani Thottam (LS 10620m to 10720m)												1	113.38					113.38
5	Ragalapuram Anicut (LS 11040m to 11090m)												1	113.38					113.38
	Total													566.92					566.92

# AMARAVATHI SUB BASIN PHASE IV -STAGE II (LEFT OUT REACHESH) Package 1 TO 17 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 CONSOLIDATED COST TABLE

S.No	Package No	Cost of work in lakhs	LS Provisions in lakhs	Total Amount in lakhs
1	01/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	126.42	3.58	130.00
2	02 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	283.24	7.76	291.00
3	03/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	436.79	12.21	449.00
4	04/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	468.87	13.13	482.00
5	05/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	309.89	8.11	318.00
6	00/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	292.53	8.47	301.00
7	07/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	146.39	4.11	150.50
8	08/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	212.07	5.93	218.00
9	09/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	582.16	15.84	598.00
10	10/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	255.85	7.15	263.00
11	11/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	188.30	4.70	193.00
12	12/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	545.63	14.37	560.00
13	13/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	525.81	14.19	540.00
14	14/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	78.58	2.42	81.00
15	15/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	151.69	3.31	155.00
16	16/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	673.15	18.10	691.25
17	17/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	566.92	14.08	581.00
	Total	5844.29	157.46	6001.75

## WRD COST TABLE AMARAVATHI SUB BASIN PHASE IV -STAGE II

## (LEFT OUTREACHESH)

## Package 1 TO 17 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II /

#### 2012-13

S.No	Description of work	Quant	ity	Amount in lakhs	Remarks
<u>I. Tan</u> l	<u>Component</u>			· · · · · · · · · · · · · · · · · · ·	
1	Standardisation of tank bund	3476	m	45.48	
2	Reconstruction of sluice	2	Nos	25.22	
3	Repairs to sluice				
4	Reconstruction of weir				
5	Repairs to weir	1	No	9.86	
6	Construction of Model section				
7	Supply channel improvements				
8	Providing measuring device	2	No	0.28	
	Environmental Activities				
	LS provision				
	SUB TOTAL			80.84	
II. Nor	tank Component				
1	Improvement to bund	57.239	Km	62.54	
2	Repairs to sluice/Shutter	14	No	211.78	
3	Repairs to cross masonry works	32	No	321.10	
4	Lining of canal	50.315	Km	404.44	
5	Supply channel improvements	17.79	Km	2023.43	
6	Construction of Retaining wall	1.235	m	1372.93	
7	Anicut Repair/re construction	11	Nos	1367.23	
	Environmental Activities				
	LS Provisions			157.46	
	SUB TOTAL			5920.91	
	GRAND TOTAL			6001.75	

#### WRO COST TABLE

#### Name of work REHABILITATION AND RESTORATION OF KOMARALINGAM, CHOLAMADEVI AND SARKAR KANNADIPUDUR LEADING CHANNELS OF AMARAVATHI RIVER SYSTEM IN MADATHUKULAM TALUK OF TIRUPPUR DISTRICT

### PACKAGE NO: 1 / TN IAMWARM / WRD / AMR / WORKS / IV / STAGE II / 2012 – 2013 NAME OF SUB BASIN : AMARAVTHI SUB BASIN ( LEFT OUT WORKS

SI. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. Irrigation Channel			
a.	Canal Bund & Jeep Track Improvements			
b.	Sluice Reconstructions			
c.	Sluice Repairs			
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anicut Repairs			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall			
j.	Supply channel improvements	3	126.42	
k.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		126.42	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		3.58	
	Total		130.00	

#### Amaravathy Sub Basin (Leftout works)

(P.T.O)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	<b>Environmental Charges</b>		Nil	
	Ground water		Nil	
	Grand Total		130.00 Lakhs	

	Abstrac	<u>xt</u>
1. Canal Component		130.00 Lakhs
2. Non Tank Components		Nil Lakhs
3. Environmental cell		Nil Lakhs
	Total	130.00 Lakhs or 1.3 Crores

(Rupees One point Three Crores Only )

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#### A. PHYSICAL AND FINANCIAL PROGRAMME

#### NAME OF WORK: REHABILITATION AND RESTORATION OF KOMARALINGAM, CHOLAMADEVI AND SARKAR KANNADIPUDUR LEADING CHANNELS OF AMARAVATHI RIVER SYSTEM IN MADATHUKULAM TALUK OF TIRUPPUR DISTRICT PACKAGE NO: 1 / TN IAMWARM / WRD / AMR / WORKS / IV / STAGE II / 2012 – 2013 NAME OF SUB BASIN : AMARAVTHI SUB BASIN ( LEFT OUT WORKS )

S.No.	Description	ΙY	ear	II Y	ear	Total	Amount	Remarks
	_	Quantity	Amount	Quantity	Amount	Quantity	(Lakhs)	
Ι	Rehabilitation and Restoration of Leading Channels							
1	Earth Work (Combined Qty)	12010 m <sup>3</sup>	1009361	-	-	12010 m <sup>3</sup>	1009361	
2	Concrete (Combined Qty)	2360 m <sup>3</sup>	10946866	-	-	$2360 \text{ m}^3$	10946866	
3	RR masonry	$120 \text{ m}^3$	10062	-	-	$120 \text{ m}^3$	10062	
4	Shutter	9 Nos.	675000			9 Nos.	675000	
Π	Provision for Labour Welfare Fund, PS charges, Documentation Charges, Hydraulic sign boards, Photographic and videographic charges, Audit & Accounts, Advertisement, Contingencies and unforeseen items @ 2.80%	-	358711			-	358711	
	Total		13000000				13000000	

#### NAME OF WORK: REHABILITATION AND RESTORATION OF KOMARALINGAM, CHOLAMADEVI AND SARKAR KANNADIPUDUR LEADING CHANNELS OF AMARAVATHI RIVER SYSTEM IN MADATHUKULAM TALUK OF TIRUPPUR DISTRICT PACKAGE NO: 1 / TN IAMWARM / WRD / AMR / WORKS / IV / STAGE II / 2012 – 2013 NAME OF SUB BASIN : AMARAVTHI SUB BASIN ( LEFT OUT WORKS ) Machineries and Materials required for Earthwork & Concrete

S.No	Name of Machinery	Quantity
1	Hydraulic Excavator	-
2	Hydraulic Excavator with Steel Plate Attachment (for compaction of earth fill on slopes of bund)	-
3	Tippers / Lorries ( 8 to 10 Tonne)	3
4	Power Rollers / Vibratory Power Roller	-
5	Water Tankers ( truck Mounted of $\pm 10000$ litres)	3
6	Pneumatic Tampers / Earth Rammers	-
7	Air Compressors	-
8	Plate Vibrators	-
9	Backhoe Loader (JCB)	3
10	Mechanical Concrete Mixers 14/10 cft, 10/7 cft	3
11	Concrete Vibrators	3
12	Acro slip form Gantry	-
13	Cement	799 MT
14	Sand	$1062 \text{ m}^3$
15	Metal 40mm	1746 m <sup>3</sup>
16	Metal 20mm	378 m <sup>3</sup>
17	Steel	118.35 qtl.
18	Rough Stone for Masonry	-

#### NAME OF WORK: REHABILITATION AND RESTORATION OF KOMARALINGAM, CHOLAMADEVI AND SARKAR KANNADIPUDUR LEADING CHANNELS OF AMARAVATHI RIVER SYSTEM IN MADATHUKULAM TALUK OF TIRUPPUR DISTRICT PACKAGE NO: 1 / TN IAMWARM / WRD / AMR / WORKS / IV / STAGE II / 2012 – 2013 NAME OF SUB BASIN : AMARAVTHI SUB BASIN ( LEFT OUT WORKS )

S.	Description of				Working Months				Rain Season							
No	Item	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
	Itelli	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2014	2014	2014	
Ι	Rehabilitation															
	and Restoration															
	of Leading															
	Channels															
1	Earth Work			3000	3000	3000	3010									12010
	(Combined Qty)			m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>									m <sup>3</sup>
2	Concrete			500 m <sup>3</sup>	500 m <sup>3</sup>	500 m <sup>3</sup>	500 m <sup>3</sup>	360								2360 m <sup>3</sup>
	(Combined Qty)			500 III	300 III	300 III	300 III	m <sup>3</sup>								
3	RR masonry			$60 \text{ m}^3$	$60 \text{ m}^3$											$120 \text{ m}^3$
4	Shutter			3 Nos.	3 Nos.	3 Nos.										9 Nos.

#### **CONSTRUCTION METHODOLOGY**

## WRO COST TABLE

#### Name of work : REHABILITATION AND RESTORATION OF THALAVAIPATTINAM, DHARAPURAM AND KOLINJIVADI LEADING CHANNELS OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT PACKAGE NO: 2 / TN IAMWARM / WRD / AMR / WORKS / IV / STAGE II / 2012 – 2013 NAME OF SUB BASIN : AMARAVTHI SUB BASIN ( LEFT OUT WORKS

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. Irrigation Channel			
a.	Canal Bund & Jeep Track Improvements			
b.	Sluice Reconstructions			
c.	Sluice Repairs			
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anicut Repairs			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall			
j.	Supply channel improvements	3	283.24	
k.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		283.24	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		7.76	
	Total		291.00	

#### Amaravathy Sub Basin (Leftout works)

(P.T.O)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	<b>Environmental Charges</b>		Nil	
	Ground water		Nil	
	Grand Total		291.00	
			Lakhs	

	Abstrac	<u>et</u>
<b>Canal Component</b>		291.00 Lakhs
Non Tank Components		Nil Lakhs
<b>Environmental cell</b>		Nil Lakhs
	Total	291.00 Lakhs or 2.91 Crores

(Rupees Two point Nine One Crores Only )

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2. 3.

#### A. PHYSICAL AND FINANCIAL PROGRAMME

#### NAME OF WORK: REHABILITATION AND RESTORATION OF THALAVAIPATTINAM, DHARAPURAM AND KOLINJIVADI LEADING CHANNELS OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT PACKAGE NO: 2 / TN IAMWARM / WRD / AMR / WORKS / IV / STAGE II / 2012 – 2013 NAME OF SUB BASIN · AMARAVTHI SUB BASIN (LEFT OUT WORKS)

		SUB BASIN					WUKKS)	1
S.No.	Description	IY	lear	II Y	<i>Tear</i>	Total	Amount	Remarks
		Quantity	Amount	Quantity	Amount	Quantity	(Lakhs)	
Ι	Rehabilitation	n						
	and Restoration	n						
	of Leading							
	Channels							
1	Earth Work	17320	1206777	-	-	17320	1206777	
	(Combined Qty	() m <sup>3</sup>				m <sup>3</sup>		
2	Concrete	5375 m <sup>3</sup>	27117441	-	-	5375 m <sup>3</sup>	27117441	
	(Combined Qty	/)						
III	Provision f	or -	775782			-	775782	
	Labour							
	Welfare Fun	d,						
	PS charge							
	Documentation	n						
	Charges,							
	Hydraulic sig	gn 🛛						
	boards,							
	Photographic							
	and							
	videographic							
	charges, Aud							
	& Account	· ·						
	Advertisement							
	Contingencies							
	and unforesee							
	items @ 2.80%	, D						
	Total		29100000				29100000	

## NAME OF WORK: REHABILITATION AND RESTORATION OF THALAVAIPATTINAM, DHARAPURAM AND KOLINJIVADI LEADING CHANNELS OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT

## PACKAGE NO: 2 / TN IAMWARM / WRD / AMR / WORKS / IV / STAGE II / 2012 – 2013 NAME OF SUB BASIN : AMARAVTHI SUB BASIN ( LEFT OUT WORKS ) <u>Machineries and Materials required for Earthwork & Concrete</u>

S.No	Name of Machinery	Quantity
1	Hydraulic Excavator	-
2	Hydraulic Excavator with Steel Plate Attachment (for compaction of earth fill on slopes of bund)	-
3	Tippers / Lorries ( 8 to 10 Tonne)	3
4	Power Rollers / Vibratory Power Roller	-
5	Water Tankers ( truck Mounted of ±10000 litres)	3
6	Pneumatic Tampers / Earth Rammers	-
7	Air Compressors	-
8	Plate Vibrators	-
9	Dozer (D6 or equivalent)	3
10	Mechanical Concrete Mixers 14/10 cft, 10/7 cft	3
11	Concrete Vibrators	3
12	Acro slip form Gantry	-
13	Cement	1865 MT
14	Sand	$2420 \text{ m}^3$
15	Metal 40mm	3640 m <sup>3</sup>
16	Metal 20mm	1200 m <sup>3</sup>
17	Steel	851.10 qtl.
18	Rough Stone for Masonry	-

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#### NAME OF WORK: REHABILITATION AND RESTORATION OF THALAVAIPATTINAM, DHARAPURAM AND KOLINJIVADI LEADING CHANNELS OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT PACKAGE NO: 2 / TN IAMWARM / WRD / AMR / WORKS / IV / STAGE II / 2012 – 2013 NAME OF SUB BASIN : AMARAVTHI SUB BASIN ( LEFT OUT WORKS ) CONSTRUCTION METHODOLOGY

S.	Description of		Working Months								Rain Season					
No	Item	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
	Itelli	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2014	2014	2014	
Ι	Rehabilitation															
	and Restoration															
	of Leading															
	Channels															
1	Earth Work			4300	4300	4300	4420									17320
	(Combined Qty)			m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>									m <sup>3</sup>
2	Concrete			1100	1100	1100	1100	975								5375 m <sup>3</sup>
	(Combined Qty)			m <sup>3</sup>								5575 m				

## WRO COST TABLE

#### Name of work: REHABILITATION OF NALLATHANGAL ODAI RESERVOIR MAIN CANAL, HIGH LEVEL CANAL AND DISTRIBUTORIES IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT.

#### Package No: 03 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 Amaravathy Sub Basin ( Leftout works)

SI. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. Irrigation Channel			
a.	Canal Bund & Jeep Track Improvements	23000	26.58	
b.	Sluice Reconstructions	15	5.77	
c.	Sluice Repairs			
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anicut Repairs			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall			
j.	Supply cannel improvements			
k.	Lining of irrigation channels (29x30w+15%)	134200m2	404.44	
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		436.79	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		12.21	
	Total		449.00	

(P.T.O)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	<b>Environmental Charges</b>		Nil	
	Ground water		Nil	
	<b>Grand Total</b>		449.00	
			Lakhs	

Abstract				
4. Canal Component		449.00 Lakhs		
5. Non Tank Components		Nil Lakhs		
6. Environmental cell		Nil Lakhs		
	Total	449.00 Lakhs or 4.49 Crores		

(Rupees Four point Four Nine Crores Only )

## A. (PHYSICAL AND FINANCIAL PROGRAM)

#### Name of work: REHABILITATION OF NALLATHANGAL ODAI RESERVOIR MAIN CANAL, HIGH LEVEL CANAL AND DISTRIBUTORIES IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT.

#### Package No: 03 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

## Amaravathi Sub Basin (Leftout Works)

SI. No.		I Ye		ear II Year				
		Description	Qty Amt in Lakhs	-		Amt in Lakhs	Qty	Amt in Lakhs
		CANAL COMPONENTS						
		Canal Bund						
		Improvements						
		Earthwork for						
	1	Bund	23000m3	26.58	-	-	23000m3 ·	- 26.58
		Improvement						
II		of sluices						
	1	Reconstruction						
	2	Repair						
		Improvement						
		of Weir						
	1	Reconstruction						
	2	Repair	15 Nos.	5.77			15 Nos	5.77
		Lining						
IV		Channel	134200m2	404.44			134200m2	404.44
		Supply						
		Channel						
V		Improvement						
	1	Earthwork						
		Repair						
		Outlet						
		Anicut						
VI		improvement						
	1	Repair						
	2	Grade Wall						
		Irrigation						
	3	Channel						
		Environmental						
		cell						
VIII		Provision for						
		Labour						
		Welfare,						
		unforeseen						
		items,		12.21				12.21
		Advertisement						
		charges,						
		Photographic						
		Charges						
		Measuring						
IX		Devices						
IA								440.00
	WP	Total						449.00

### <u>Name of work:</u> REHABILITATION OF NALLATHANGAL ODAI RESERVOIR MAIN CANAL, HIGH LEVEL CANAL AND DISTRIBUTORIES IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT.

Package No: 03 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

## Amaravathi Sub Basin (Leftout Works)

SI. No.	Name of irrigation Anicuts	No of Anicut	Amount in Lakhs
1.	REHABILITATION OF NALLATHANGAL ODAI RESERVOIR MAIN CANAL, HIGH LEVEL CANAL AND DISTRIBUTORIES IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT.	-	436.79
2.	L.S. Provisions		12.21
	TOTAL		449.90

#### <u>Name of work:</u> REHABILITATION OF NALLATHANGAL ODAI RESERVOIR MAIN CANAL, HIGH LEVEL CANAL AND DISTRIBUTORIES IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT.

#### Package No: 03 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

#### Amaravathi Sub Basin (Leftout Works)

#### **BROAD REQUIREMENT OF CONSTRUCTION EQUIPMENT**

#### BASED ON BROAD CALCULATIONS THE EQUIPMENT REQUIRED IS LISTED BELOW

#### Machineries required for earth work & concrete

SI.No	Equipment	Numbers
1	Hydraulic Excavator (±0.90Cu.m)	4 Nos.
2	Hydraulic Excavator with steel plate attachment (For	3 Nos
	compaction of earth fill on slopes of tank bund)	
3	Tippers/Lorries(8/10Tonne)	26 Nos
4	Power Rollers/Vibratory Power Rollers (including 2	2 Nos
	power rollers of (± 0.90m width)	
5	Water tankers (Truck mounted water tankers of ±10000	6 Nos
	Litres)	
6	Pneumatic Tampers/Earth Rammers (for compaction	3 Nos
	of earth fill adjoining the new concrete irrigation	
	sluices to be constructed)	
7	Air Compressors (±300cfm)	3 Nos
8	Plate Vibrators for compaction of sub grade and of	1 No
	bed bar concrete lining	
9	Dozer (D6 or equivalent)	3 Nos
10	Mechanical Concrete mixers 14/10 cft, 10/7 cft	6 Nos
11	Concrete vibrators	3 Nos
12	Slip form gantry	2 Nos
13	Cement	2668MT
14	Sand	4172 CM
15	Metal 40mm	81 CM
16	Metal 20mm	4900 CM

4 Nos.	Hydraulic excavator (± 0.90Cum)	1	
3 Nos	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	
26 Nos	Tippers/Lorries(8 to 10 Tonne)	3	strane of
2 Nos	Power Rollers/Vibratory Power Roller	4	Name of work: DISTRIBUTORIES
6 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	
3 Nos	Pneumatic Tampers/Earth Rammers	6	REHABILITATION OF NALLATHANGAL ODAI RESERVOIR MAIN IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT. Package No: 03 /TN IAMWARM / WRD / AMR / WORKS / IV / S Amaravathi Sub Basin (Leftout Works) Requirement of Construction Equipments and Mater
3 Nos	Air Compressors (±300cfm)	7	BILITATION OF NALLATHANGAL ODAI RESERVO ,RAPURAM TALUK OF TIRUPPUR DISTRICT. kage No: 03 /TN IAMWARM / WRD / AMR / WORKS Amaravathi Sub Basin (Leftout V Requirement of Construction Equipments and
1 No	Plate Vibrators	8	- NALL LUK OF N IAMW Narava
3 Nos	Dozer (D6 or equivalent)	9	ATHAN : TIRUP /ARM / /ARM / thi Su
6 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	GAL OE PUR DI WRD / , b Bas b Bas
3 Nos	Concrete vibrators	11	)AI RES STRICT AMR / V in (Lef
2 Nos	Slip form gantry	12	I OF NALLATHANGAL ODAI RESERVOIR MAI TALUK OF TIRUPPUR DISTRICT. 3 /TN IAMWARM / WRD / AMR / WORKS / IV / S Amaravathi Sub Basin (Leftout Works ent of Construction Equipments and Mate
2668MT	Cement	13	
4172 CM	Sand	14	N CANA itage-II / ) rials
	Steel	15	N CANAL, HIGH itage-II / 2012-13 ) rials
81 CM	Metal 40mm	16	
4900 CM	Metal 20mm	17	N CANAL, HIGH LEVEL CANAL AND tage-II / 2012-13 ) rials
	Rough Stone Masonry	18	AND
	Earth	18	-

## <u>Name of work:</u> REHABILITATION OF NALLATHANGAL ODAI RESERVOIR MAIN CANAL, HIGH LEVEL CANAL AND DISTRIBUTORIES IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT.

#### Package No: 03 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 Amaravathi Sub Basin (Leftout Works)

SI. No	Description	Qty	Unit	Cement in mt	Sand m Cum	20mm Jelly in M3	40mm Jelly in M3	Steel 12mm Rts	Earth packing
1.	M.15 Using 20mm	350	M <sup>3</sup>	9.90	160 M <sup>3</sup>	200	-	-	
2.	M.7.5 Using 40mm	90	M <sup>3</sup>	2.00	90 M <sup>3</sup>	-	81	-	
3.	Earth	29100	M <sup>3</sup>	-	-	-	-	-	-
4.	Steel	-	-						-
	Total			11.90	250	200	81		-

#### **REQUIREMENT OF MATERIALS**

# <u>Name of work:</u> REHABILITATION OF NALLATHANGAL ODAI RESERVOIR MAIN CANAL, HIGH LEVEL CANAL AND DISTRIBUTORIES IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT.

Package No: 03 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 Amaravathi Sub Basin (Leftout Works) Construction methodology

								Work	ing Mon	ths						1	_
		IRRIGATION SEASON															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14		
SI	Description	Feb	Mar	April	Мау	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		_
No	of Item	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2012	2013	2013		Total
	Earth work excavation			3000	3000	3000	3000	3000	3000	3000				2000			23000
1	Bund																
2	Channel																
3	Foundation																
	Concrete				30	30	30										90
4	M 10 grade using 20mm			50	100	100	100										350
5	R.CC M15 Using 20			5000	15000	15000	15000	22000	22000	23000				15200			124200
5	mm metal			5000	15000	15000	15000	23000	23000	23000				19200			134200
6	Steel																
L	1 1		WDO			1	1	1	1	1	1 1		157		1	1	·

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#### A. WRO COST TABLE

<u>NAME OF WORK:</u> CONSTRUCTION OF PROTECTION WALL FROM LS 11.00 KM TO LS 13.00 KM ADJACENT TO KRISHNAN KOIL BRIDGE (IN THE LEFT OUT REACH) OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT".

PACKAGE No:4/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements			
b.	Sluice Reconstructions			
c.	Sluice Repairs			
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anicut Repairs			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall			
j.	Supply cannel improvements	1	468.87	
k.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		468.87	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		13.13	
	Total		482.00	

(P.T.O)

SI. No	Description of work	Quantity	Amount in Lakhs	Remarks
	<b>Environmental Charges</b>		Nil	
	Ground water		Nil	
	Grand Total		482.00 Lakhs	

	<u>Abstract</u>	
7. Canal Component		482.00 Lakhs
8. Non Tank Components		Nil Lakhs
9. Environmental cell		Nil Lakhs
	Total	482.00 Lakhs

(Rupees Four hundred Eighty two lakhs only)

### (PHYSICAL AND FINANCIAL PROGRAM)

### NAME OF WORK: CONSTRUCTION OF PROTECTION WALL FROM LS 11.00 KM TO LS 13.00 KM ADJACENT TO KRISHNAN KOIL BRIDGE (IN THE LEFT OUT REACH) OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT".

#### PACKAGE No:4/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

			l Ye	ar	II T	Year			
SI. N	lo.	Description	Qty	Amt in Lakh s	Qty	Amt in Lakhs	Qt	у	Amt in Lakhs
		CANAL COMPO	DNENTS						
		Canal Bund							
		Improvements							
		Earthwork for							
	1	Bund							
Ш		Improvement of sluices							
	1	Reconstruction							
	2	Repair							
		Improvement of Weir							
	1	Reconstruction							
	2	Repair							
v		Supply Channel Improvement							
-	1	Earthwork	17100 cum	6.22			17100	Cum	6.22
			12350						
		Retaining Wall	Cum	462.65			12350	cum	462.65
		Outlet							
		Anicut							
VI		improvement							
	1	Repair							
	2	Grade Wall							
	3	Irrigation Channel							
VII		Environmental cell							
VIII		Provision for							
VIII		Labour Welfare,							
		unforeseen							
		items,	-	13.13	-		-	-	13.13
		Advertisement							
		charges,							
		Photographic							
		Charges							
		Measuring							
IX		Devices							
		Total							482.00

### NAME OF WORK: CONSTRUCTION OF PROTECTION WALL FROM LS 11.00 KM TO LS 13.00 KM ADJACENT TO KRISHNAN KOIL BRIDGE (IN THE LEFT OUT REACH) OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT".

### PACKAGE No:4/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

SI. No.	Name of irrigation Anicuts	No of Anicut	Amount in Lakhs
1.	CONSTRUCTION OF PROTECTION WALL		
	FROM LS 11.00 KM TO LS 13.00 KM		
	ADJACENT TO KRISHNAN KOIL BRIDGE (IN		
	THE LEFT OUT REACH) OF DHARAPURAM	1 Nos (ol Anicut)	468.87
	CHANNEL OF AMARAVATHI RIVER SYSTEM		
	IN DHARAPURAM TALUK OF TIRUPPUR		
	DISTRICT".		
2.	L.S. Provisions		13.13
	TOTAL		482.00

<u>NAME OF WORK:</u> CONSTRUCTION OF PROTECTION WALL FROM LS 11.00 KM TO LS 13.00 KM ADJACENT TO KRISHNAN KOIL BRIDGE (IN THE LEFT OUT REACH) OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT".

### PAKAGE No:4/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013 BROAD REQUIREMENT OF CONSTRUCTION EQUIPMENT

#### BASED ON BROAD CALCULATIONS THE EQUIPMENT REQUIRED IS LISTED

#### BELOW

#### Machineries required for earth work & concrete

<u></u>	<b>—</b> • ·	
SI.No	Equipment	Numbers
1	Hydraulic Excavator (±0.90Cu.m)	1
2	Hydraulic Excavator with steel plate	
	attachment (For compaction of earth fill on	
	slopes of tank bund)	
3	Tippers/Lorries(8/10Tonne)	6
4	Power Rollers/Vibratory Power Rollers	
	(including 2 power rollers of (± 0.90m width)	
5	Water tankers (Truck mounted water tankers	5
	of ±10000 Litres)	
6	Pneumatic Tampers/Earth Rammers (for	
	compaction of earth fill adjoining the new	
	concrete irrigation sluices to be constructed)	
7	Air Compressors (±300cfm)	
8	Plate Vibrators for compaction of sub grade	
	and of bed bar concrete lining	
9	Dozer (D6 or equivalent)	
10	Mechanical Concrete mixers 14/10 cft, 10/7 cft	6
11	Concrete vibrators	6
		1

1Nos	Dydraulic excavator (± 0.90Cum)	1	
	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	AMAR NAME OF WORK: CONSTRUCTION OF PROTI KRISHNAN KOIL BRIDGE (IN THE LEFT OUT SYSTEM IN DHARAP Requirement of Con
6 Nos	Tippers/Lorries(8 to 10 Tonne)	3	AN K
	Power Rollers/Vibratory Power Roller	4	
5 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	NSTR
	Pneumatic Tampers/Earth Rammers	6	<u>UCTION</u> (IN THE (STEM II) Requirer
	Air Compressors (±300cfm)	7	N OF E LEF IN DH
	Plate Vibrators	8	AMARAVATHI <u>PROTECTION</u> T OUT REACH HARAPURAM T of Construction
	Dozer (D6 or equivalent)	9	ECTIC FREA PURAN
6 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	
6 Nos	Concrete vibrators	11	SUB BASIN NALL FROM OF DHARA ALUK OF TI Equipments :
3200 MT	Cement	12	SASIN FROM LS 11.0 HARAPURAM OF TIRUPPUR OF TIRUPPUR
5560Cum	Sand	13	
31.5 MT	Steel	14	0 KM TO LS 13.00 KM ADJACENT TO CHANNEL OF AMARAVATHI RIVER DISTRICT".
6670 Cum	Metal 40mm	15	) 13.00 DF AM
4450 Cum	Metal 20mm	16	<u>.00 KM ADJACENT T</u> AMARAVATHI RIVER
	Metal 12mm	17	DJAC ATHI I
17100 Cum	Earth	18	

### <u>Name of work:</u> CONSTRUCTION OF PROTECTION WALL FROM LS 11.00 KM TO LS 13.00 KM ADJACENT TO KRISHNAN KOIL BRIDGE (IN THE LEFT OUT REACH) OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT".

#### **REQUIREMENT OF MATERIALS**

SI.	Description	Qty	Unit	Cement in mt	Sand m Cum	20mm Jelly in M3	40mm Jelly in	12 mm Jelly in M3	Steel Rts	Earth packing
No							M3			
5.	M.15 Using 40mm	12350	M <sup>3</sup>	3200	5560	4450	6670			
6.	Steel	31.50	MT						31.50	
	Total			3200	5560	4450	6670		31.50	1440

### NAME OF WORK: CONSTRUCTION OF PROTECTION WALL FROM LS 11.00 KM TO LS 13.00 KM ADJACENT TO KRISHNAN KOIL BRIDGE (IN THE LEFT OUT REACH) OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF

#### TIRUPPUR DISTRICT".

### **Construction methodology**

								Work	ing Mor	nths						
										I	RRIGA		ASON			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	
SI	Description	Feb	Mar	April	Мау	June	July	Aug	Seb	Oct	Nov	Dec	Jan	Feb	Mar	
No	of Item	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2012	2013	2013	Total
	Earth work excavation															
1	Bund															
2	Channel															
3	Foundation			5000	5000	2500	2100	2500								17100
	Concrete															
5	M.15 Using 40mm			2500	2500	3000	3000	1350					-			12350
	steel			6	5	7	6	7.5								31.50

#### A. WRO COST TABLE

### <u>NAME OF WORK:</u> CONSTRUCTION OF PROTECTION WALL FROM LS 13.00 KM TO LS 14.50 KM ADJACENT TO MURUGAN TEMPLE (IN THE LEFT OUT REACH) OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT".

SI. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements			
b.	Sluice Reconstructions			
c.	Sluice Repairs			
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anicut Repairs			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall			
j.	Supply cannel improvements	1	309.890	
k.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		309.89	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		8.11	
	Total		318.00	

PAKAGE No:5/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

(P.T.O)

SI. No	Description of work	Quantity	Amount in Lakhs	Remarks
	<b>Environmental Charges</b>		Nil	
	Ground water		Nil	
	Grand Total		318.00 Lakhs	

	<u>Abstract</u>	
<b>10.Canal Component</b>		<b>318.00</b> Lakhs
11.Non Tank Components		Nil Lakhs
12.Environmental cell		Nil Lakhs
	Total	<b>318.00</b> Lakhs

(Rupees Three hundred and Eighteen lakhs only)

### B. (PHYSICAL AND FINANCIAL PROGRAM)

### NAME OF WORK: CONSTRUCTION OF PROTECTION WALL FROM LS 13.00 KM TO LS 14.50 KM ADJACENT TO MURUGAN TEMPLE (IN THE LEFT OUT REACH) OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT".

			l Ye	ar	II	Year			
SI. No.		Description	Qty	Amt in Lakh s	Qty	Amt in Lakhs	Qt	Amt in Lakhs	
		CANAL COMPO	NENTS						
		Canal Bund							
I		Improvements							
		Earthwork for							
	1	Bund							
II		Improvement of sluices							
	1	Reconstruction							
	2	Repair							
III		Improvement of Weir							
	1	Reconstruction							
	2	Repair							
v		Supply Channel Improvement							
	1	Earthwork	11100 cum	4.04			11100	Cum	4.04
		Detaining Wall	8100	205.05			0400		205.95
		Retaining Wall	Cum	305.85			8100	cum	305.85
		Outlet Anicut							
VI		improvement							
VI	1	Repair							
	2	Grade Wall							
	3	Irrigation Channel							
	5	Environmental							
VII		cell							
VIII		Provision for							
<b>v</b> in		Labour Welfare,							
		unforeseen							
		items,	_	8.11	-		_	_	8.11
		Advertisement	-	0.11	-		-	_	0.11
		charges,							
		Photographic Charges							
		Measuring							
IX		Devices							
		Total							318.00

### NAME OF WORK: CONSTRUCTION OF PROTECTION WALL FROM LS 13.00 KM TO LS 14.50 KM ADJACENT TO MURUGAN TEMPLE (IN THE LEFT OUT REACH) OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT".

SI. No.	Name of irrigation Anicuts	No of Anicut	Amount in Lakhs
1.	CONSTRUCTION OF PROTECTION WALL		
	FROM LS 13.00 KM TO LS 14.50 KM		
	ADJACENT TO MURUGAN TEMPLE (IN THE		
	LEFT OUT REACH) OF DHARAPURAM	1 Nos (ol	309.89
	CHANNEL OF AMARAVATHI RIVER SYSTEM	Anicut)	
	IN DHARAPURAM TALUK OF TIRUPPUR		
	DISTRICT".		
2.	L.S. Provisions		8.11
	TOTAL		318.00

<u>NAME OF WORK:</u> CONSTRUCTION OF PROTECTION WALL FROM LS 13.00 KM TO LS 14.50 KM ADJACENT TO MURUGAN TEMPLE (IN THE LEFT OUT REACH) OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT".

BROAD REQUIREMENT OF CONSTRUCTION EQUIPMENT BASED ON BROAD CALCULATIONS THE EQUIPMENT REQUIRED IS LISTED BELOW

### Machineries required for earth work & concrete

SI.No	Equipment	Numbers
1	Hydraulic Excavator (±0.90Cu.m)	1
2	Hydraulic Excavator with steel plate	
	attachment (For compaction of earth fill on	
	slopes of tank bund)	
3	Tippers/Lorries(8/10Tonne)	4
4	Power Rollers/Vibratory Power Rollers	
	(including 2 power rollers of (± 0.90m width)	
5	Water tankers (Truck mounted water tankers	3
	of ±10000 Litres)	
6	Pneumatic Tampers/Earth Rammers (for	
	compaction of earth fill adjoining the new	
	concrete irrigation sluices to be constructed)	
7	Air Compressors (±300cfm)	
8	Plate Vibrators for compaction of sub grade	
	and of bed bar concrete lining	
9	Dozer (D6 or equivalent)	
10	Mechanical Concrete mixers 14/10 cft, 10/7 cft	4
11	Concrete vibrators	4

1Nos	Dydraulic excavator (± 0.90Cum)	1							
	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	ADJA						
4 Nos	Tippers/Lorries(8 to 10 Tonne)	Tippers/Lorries(8 to 10 Tonne)3							
	Power Rollers/Vibratory Power Roller	4	TO MU RAVA						
3 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	NAME OF WORK: CONSTRUCTION OF PROTECTION WALL FROM L ADJACENT TO MURUGAN TEMPLE (IN THE LEFT OUT REACH) OF D AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF T Requirement of Construction Equipments and Materia						
	Pneumatic Tampers/Earth Rammers	6	CONSTRUCTION OF PROTECTION WALL FROM LS UGAN TEMPLE (IN THE LEFT OUT REACH) OF DH, II RIVER SYSTEM IN DHARAPURAM TALUK OF TIR Requirement of Construction Equipments and Materials						
	Air Compressors (±300cfm)	7	<u>CTION</u> MPLE YSTEP						
	Plate Vibrators	8	<u>ION OF PROTE</u> PLE (IN THE LE STEM IN DHAR of Construction						
	Dozer (D6 or equivalent)	9	<u>ROTE</u> <u>IE LEF</u> <u>HARA</u>						
4 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	PROTECTION WALL FROM THE LEFT OUT REACH) OF DHARAPURAM TALUK OF						
4 Nos	Concrete vibrators	11	<u>I REA</u> M TAI						
2100 MT	Cement	12	<u>_ FROM I</u> <u>_UK OF D</u> <u>_UK OF T</u>						
3645 cum	Sand	13							
25.0 MT	Steel	14	<u>ARAP</u> UPPU						
4375 Cum	Metal 40mm	15	KM T URAM R DIS						
2920 Cum	Metal 20mm	16	<u>IS 13.00 KM TO LS 14.50 KM</u> HARAPURAM CHANNEL OF						
	Metal 12mm	17	<u>- NNEL</u>						
11100 Cum	Earth	18							

### <u>Name of work:</u> CONSTRUCTION OF PROTECTION WALL FROM LS 13.00 KM TO LS 14.50 KM ADJACENT TO MURUGAN TEMPLE (IN THE LEFT OUT REACH) OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT".

#### **REQUIREMENT OF MATERIALS**

Sl.	Description	Qty	Unit	Cement in	Sand m	20mm Jelly	40mm	12 mm Jelly	Steel Rts	Earth
No				mt	Cum	in M3	Jelly in M3	in M3		packing
7.	M.15 Using 40mm	8100	M <sup>3</sup>	2100	3645	2920	4375			
		0100	1,1	-100						
8.	Steel	25.00	МТ						25.00	
0.		20100		2100	2645	2020	4275			
	Total			2100	3645	2920	4375		25.00	

### NAME OF WORK: CONSTRUCTION OF PROTECTION WALL FROM LS 13.00 KM TO LS 14.50 KM ADJACENT TO MURUGAN TEMPLE (IN THE LEFT OUT REACH) OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT".

								Work	ing Mor	nths						_
										I	RRIGA	TION SE	EASON			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	
SI	Description	Feb	Mar	April	Мау	June	July	Aug	Seb	Oct	Nov	Dec	Jan	Feb	Mar	
No	of Item	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2012	2013	2013	Total
	Earth work excavation															
1	Bund															
2	Channel															
3	Foundation			2000	2000	2000	1500	2100	1500							11100
	Concrete															
5	M.15 Using 40mm			1000	1500	2000	1000	1600	1000							8100
	steel			4	6	6	5	4								25.0

### **Construction methodology**

#### B. WRO COST TABLE

### NAME OF WORK: CONSTRUCTION OF PROTECTION WALL FROM LS 14.50 KM TO LS 16.00 KM ADJACENT TO VETTAKKARANSAMY TEMPLE (IN THE LEFT OUT REACH) OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT". PAKAGE No:6/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

SI. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements			
b.	Sluice Reconstructions			
c.	Sluice Repairs			
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anicut Repairs			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall			
j.	Supply cannel improvements	1	292.53	
k.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		292.53	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		8.47	
	Total		301.00	

(P.T.O)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	<b>Environmental Charges</b>		Nil	
	Ground water		Nil	
	Grand Total		<b>301.00</b> Lakhs	

	<u>Abstract</u>	
13.Canal Component		<b>301.00</b> Lakhs
14.Non Tank Components		Nil Lakhs
15.Environmental cell		Nil Lakhs
	Total	<b>301.00</b> Lakhs

(Rupees Three hundred and One lakhs only)

#### C. (PHYSICAL AND FINANCIAL PROGRAM)

### NAME OF WORK: CONSTRUCTION OF PROTECTION WALL FROM LS 14.50 KM TO LS 16.00 KM ADJACENT TO VETTAKKARANSAMY TEMPLE (IN THE LEFT OUT REACH) OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT".

			l Ye	ar	II	Year			
SI. N	lo.	Description	Qty	Amt in Lakh s	Qty	Amt in Lakhs	Qt	у	Amt in Lakhs
		CANAL COMPO	NENTS						
		Canal Bund							
1		Improvements							
		Earthwork for							
	1	Bund							
		Improvement of							
II		sluices							
	1	Reconstruction							
	2	Repair							
		Improvement of							
111		Weir							
	1	Reconstruction							
	2	Repair							
		Supply Channel							
V		Improvement	40000						
	1	Earthwork	10600 cum	3.86			10600	Cum	3.86
	-		7700	5.00			10000	Cum	5.00
		Retaining Wall	Cum	288.67			7700	cum	288.67
		Outlet	• •						
		Anicut							
VI		improvement							
	1	Repair							
	2	Grade Wall							
	3	Irrigation Channel							
		Environmental							
VII		cell							
VIII		Provision for							
		Labour Welfare,							
		unforeseen							
		items,							
		Advertisement	-	8.47	-		-	-	8.47
		charges,							
		Photographic							
		Charges							
		Measuring							
IX		Devices							
		Total							301.00

### NAME OF WORK: CONSTRUCTION OF PROTECTION WALL FROM LS 14.50 KM TO LS 16.00 KM ADJACENT TO VETTAKKARANSAMY TEMPLE (IN THE LEFT OUT REACH) OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT". PAKAGE No:6/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

SI. No.	Name of irrigation Anicuts	No of Anicut	Amount in Lakhs
1.	CONSTRUCTION OF PROTECTION WALL		
	FROM LS 13.00 KM TO LS 14.50 KM		
	ADJACENT TO MURUGAN TEMPLE (IN THE		
	LEFT OUT REACH) OF DHARAPURAM	1 Nos (ol	292.53
	CHANNEL OF AMARAVATHI RIVER SYSTEM	Anicut)	
	IN DHARAPURAM TALUK OF TIRUPPUR		
	DISTRICT".		
2.	L.S. Provisions		8.47
	TOTAL		301.00

NAME OF WORK: CONSTRUCTION OF PROTECTION WALL FROM LS 14.50 KM TO LS 16.00 KM ADJACENT TO VETTAKKARANSAMY TEMPLE (IN THE LEFT OUT REACH) OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT".

### BROAD REQUIREMENT OF CONSTRUCTION EQUIPMENT BASED ON BROAD CALCULATIONS THE EQUIPMENT REQUIRED IS LISTED BELOW

### Machineries required for earth work & concrete

SI.No	Equipment	Numbers
1	Hydraulic Excavator (±0.90Cu.m)	1
2	Hydraulic Excavator with steel plate	
	attachment (For compaction of earth fill on	
	slopes of tank bund)	
3	Tippers/Lorries(8/10Tonne)	3
4	Power Rollers/Vibratory Power Rollers	
	(including 2 power rollers of (± 0.90m width)	
5	Water tankers (Truck mounted water tankers	2
	of ±10000 Litres)	
6	Pneumatic Tampers/Earth Rammers (for	
	compaction of earth fill adjoining the new	
	concrete irrigation sluices to be constructed)	
7	Air Compressors (±300cfm)	
8	Plate Vibrators for compaction of sub grade	
	and of bed bar concrete lining	
9	Dozer (D6 or equivalent)	
10	Mechanical Concrete mixers 14/10 cft, 10/7 cft	3
11	Concrete vibrators	3

1Nos	Dydraulic excavator (± 0.90Cum)	1	
	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	AMARAVATHI SUB <u>NAME OF WORK: CONSTRUCTION OF PROTECTIO</u> <u>ADJACENT TO VETTAKKARANSAMY TEMPLE (IN THE</u> <u>OF AMARAVATHI RIVER SYSTEM IN DHARAPU</u> Requirement of Construction Equir
3 Nos	Tippers/Lorries(8 to 10 Tonne)	3	E OF V NT TO OF AM
	Power Rollers/Vibratory Power Roller	4	VORK: VETTA
2 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	AMARAVATHI SUB BASIN NAME OF WORK: CONSTRUCTION OF PROTECTION WALL FROM L ACENT TO VETTAKKARANSAMY TEMPLE (IN THE LEFT OUT REAC) OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF Requirement of Construction Equipments and Materia
	Pneumatic Tampers/Earth Rammers	6	AMARAVATHI SUB BASIN ONSTRUCTION OF PROTECTION WALL FROM LS KARANSAMY TEMPLE (IN THE LEFT OUT REACH) THI RIVER SYSTEM IN DHARAPURAM TALUK OF T Requirement of Construction Equipments and Materials
	Air Compressors (±300cfm)	7	AM/ ;TION MY TE SYSTI SYSTI
	Plate Vibrators	8	AMARAVATHI <u>ION OF PROTE</u> IY TEMPLE (IN YSTEM IN DHA) of Construction
	Dozer (D6 or equivalent)	9	NTHI ROTEC E (IN T E (IN T DHAR ction E
3 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	SUB BASIN CTION WAL THE LEFT C RAPURAM 1 Equipments :
3 Nos	Concrete vibrators	11	BASIN N WALL FROM L LEFT OUT REAC JRAM TALUK OF JRAM TALUK OF
2000 MT	Cement	12	<u>, FROM I</u> <u>JT REAC</u> <u>ALUK OF</u> nd Materi
3665 cum	Sand	13	
20.0 MT	Steel	14	<u>OF</u>
4158 Cum	Metal 40mm	15	KM T( HARA 'UR DI
2772 Cum	Metal 20mm	16	<u>S 14.50 KM TO LS 16.00 KM</u> H) OF DHARAPURAM CHANNE TIRUPPUR DISTRICT".
	Metal 12mm	17	<u>6.00 K</u> <u>M CH/</u> <u>}T".</u>
10600 Cum	Earth	18	

### Name of work: CONSTRUCTION OF PROTECTION WALL FROM LS 14.50 KM TO LS 16.00 KM ADJACENT TO VETTAKKARANSAMY TEMPLE (IN THE LEFT OUT REACH) OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT".

#### **REQUIREMENT OF MATERIALS**

SI.	Description	Qty	Unit	Cement in	Sand m	20mm Jelly	40mm	12 mm Jelly	Steel Rts	Earth
N				mt	Cum	in M3	Jelly in	in M3		packing
No							M3			
9.	M.15 Using 40mm	7700	$M^3$	2000	3665	2772	4158			
10	Steel	20.00	МТ						20.00	
10	Steel	20.00	IVI I						20.00	
	Total			2000	3665	2772	4158		20.00	

### NAME OF WORK: CONSTRUCTION OF PROTECTION WALL FROM LS 14.50 KM TO LS 16.00 KM ADJACENT TO VETTAKKARANSAMY TEMPLE (IN THE LEFT OUT REACH) OF DHARAPURAM CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT".

PAKAGE No:6/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

								Work	ing Mor	nths						
										I	RRIGA	TION SE	ASON			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	]
SI	Description	Feb	Mar	April	Мау	June	July	Aug	Seb	Oct	Nov	Dec	Jan	Feb	Mar	]
No	of Item	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2012	2013	2013	Total
	Earth work excavation															
1	Bund															
2	Channel															
3	Foundation			3000	1500	1500	1600	1500	1500							10600
	Concrete															
5	M.15 Using 40mm			1500	2000	2000	1000	1000	200							7700
	steel			4	4	4	4	4								20.0

### **Construction methodology**

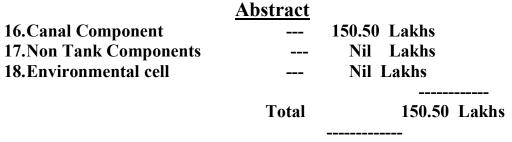
### C. WRO COST TABLE

### <u>Name of work:</u> Rehabilitation of Nanjaithalaiyur Anicut of Amaravathi River System in Amaravathi Sub Basin in Aravakurichi Taluk of Karur District.

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements			
b.	Sluice Reconstructions			
c.	Sluice Repairs			
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anicut Repairs	1	146.39	
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall			
j.	Supply cannel improvements			
k.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		146.39	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		4.11	
	Total		150.50	

(P.T.O)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	<b>Environmental Charges</b>		Nil	
	Ground water		Nil	
	Grand Total		150.50 Lakhs	



(Rupees one hundred and fifty lakhs and fifty thousand only)

### D. (PHYSICAL AND FINANCIAL PROGRAM)

### <u>Name of work:</u> Rehabilitation of Nanjaithalaiyur Anicut of Amaravathi River System in Amaravathi Sub Basin in Aravakurichi Taluk of Karur District.

Si. No.     Description     Qty     Amt in Lakhs     Qty     Amt in Lakhs     Qty     Amt in Lakhs       I     CANAL COMPONENTS     Improvements				1	ear		Year			
I     Canal Bund Improvements     Improvements       1     Earthwork for Bund     Improvement of sluices     Improvement of sluices       1     Reconstruction     Improvement of Repair     Improvement of Improvement of Improvement of Supply Channel V     Improvement of Supply Channel Improvement       V     Improvement of Improvement     Improvement       1     Reconstruction     Improvement       2     Repair     Improvement       1     Reconstruction     Improvement       2     Repair     Improvement       1     Retrivent     Improvement       V     Improvement     Improvement       V     Improvement     Improvement       1     Repair     Improvement       2     Grade Wall     Improvement       3     Irrigation Channel     Improvement       VI     cell     Improvement       VI     cell     Improvement       VI     cell     Improvement       3     Irrigation Channel     Improvement       VI     cell     Improvement       VI <th>SI. N</th> <th>lo.</th> <th>Description</th> <th>Qty</th> <th>-</th> <th>Qty</th> <th>-</th> <th>Q</th> <th>ty</th> <th>in</th>	SI. N	lo.	Description	Qty	-	Qty	-	Q	ty	in
I       Improvements       Improvements       Improvement of Bund       Improvement of Sulices         I       Improvement of Sulices       Improvement of Sulices       Improvement of Sulices       Improvement of Sulices         1       Reconstruction       Improvement of Sulices       Improvement of Sulices       Improvement of Sulices         1       Reconstruction       Improvement of Sulices       Improvement of Sulices       Improvement of Supply Channel         1       Reconstruction       Improvement       Improvement       Improvement         2       Repair       Improvement       Improvement       Improvement         1       Reconstruction       Improvement       Improvement       Improvement         1       Repair       Improvement       Improvement       Improvement         1       Earthwork       Improvement       Improvement       Improvement         1       Earthwork       Improvement       Improvement       Improvement         1       Repair       1       146.39       Improvement       Improvement         1       Repair       1       146.39       Improvement       Improvement       Improvement         2       Grade Wall       Improvement       Improvement       Improvement </th <th></th> <th></th> <th></th> <th>NENTS</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>				NENTS						
Improvement of Bund     Improvement of Sulces     Improvement of Sulces       1     Reconstruction     Improvement of Weir       1     Reconstruction       2     Repair       1     Earthwork       1     Earthwork       1     Earthwork       1     Earthwork       1     Repair       1     Repair       1     Repair       1     Repair       1     Repair       1     Repair       1     Nos       1     Repair       1     146.39       2     Grade Wall       3     Irrigation Channel       VI     Environmental       Call     -       Labour Welfare, unforeseen       items, Advertisement     -       Charges     -       Photographic<			Canal Bund							
1       Bund       Improvement of sluices       Improvement of sluices       Improvement of sluices         1       Reconstruction       Improvement of Weir       Improvement of Weir       Improvement of Supply Channel         1       Reconstruction       Improvement of Weir       Improvement of Supply Channel       Improvement         1       Reconstruction       Improvement       Improvement       Improvement         1       Reconstruction       Improvement       Improvement       Improvement         1       Repair       Improvement       Improvement       Improvement         1       Earthwork       Improvement       Improvement       Improvement         1       Earthwork       Improvement       Improvement       Improvement         1       Repair       1       146.39       Improvement         1       Repair       1       146.39       Improvement         1       Repair       1       146.39       Improvement         3       Irrigation Channel       Improvement       Improvement       Improvement         3       Irrigation Channel       Improvement       Improvement       Improvement         4       Head Sluice       Improvement       Improvement       Im	I									
II     Improvement of sluices     Improvement of       1     Reconstruction			Earthwork for							
II       sluices       Importance       Importance       Importance         2       Repair       Improvement of       Importance       Importance         1       Reconstruction       Importance       Importance       Importance         1       Reconstruction       Importance       Importance       Importance         2       Repair       Importance       Importance       Importance         2       Repair       Importance       Importance       Importance         1       Reconstruction       Importance       Importance       Importance         1       Repair       Importance       Importance       Importance         1       Earthwork       Importance       Importance       Importance         1       Earthwork       Importance       Importance       Importance         1       Repair       1       146.39       Importance       Importance         1       Repair       1       146.39       Importance       Importance         2       Grade Wall       Importance       Importance       Importance       Importance         3       Irrigation Channel       Importance       Importance       Importance       Importance		1	Bund							
1       Reconstruction       Improvement of Weir       Improvement of Weir         1       Improvement of Weir       Improvement       Improvement         1       Reconstruction       Improvement       Improvement         2       Repair       Improvement       Improvement         1       Reconstruction       Improvement       Improvement         1       Earthwork       Improvement       Improvement         1       Earthwork       Improvement       Improvement         1       Repair       1       146.39       Improvement         2       Grade Wall       Improvemental       Improvemental       Improvemental         3       Irrigation Channel       Improvemental       Improvemental       Improvemental         VII       Cell       Improvemental       Improvemental       Improvemental       Improvemental         VIII       Provision for       Labour Welfare, Improve			Improvement of							
2       Repair       Improvement of Weir       Improvement of Weir       Improvement of Weir         1       Reconstruction       Improvement       Improvement       Improvement         2       Repair       Improvement       Improvement       Improvement         1       Reconstruction       Improvement       Improvement       Improvement         1       Earthwork       Improvement       Improvement       Improvement         1       Earthwork       Improvement       Improvement       Improvement         1       Earthwork       Improvement       Improvement       Improvement         1       Head Sluice       Improvement       Improvement       Improvement         1       Repair       1       146.39       Improvement       Improvement         1       Repair       1       146.39       Improvement       Improvement       Improvement         2       Grade Wall       Improvement       Improvement       Improvement       Improvement       Improvement         3       Irrigation Channel       Improvement       Improvement       Improvement       Improvement         VII       Cell       Improvement       Improvement       Improvement       Improvement <t< th=""><th>II</th><th></th><th>sluices</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	II		sluices							
III     Improvement of Weir     Improvement of Weir     Improvement       1     Reconstruction     Improvement       2     Repair     Improvement       1     Earthwork     Improvement       1     Earthwork     Improvement       1     Earthwork     Improvement       1     Earthwork     Improvement       1     Head Sluice     Improvement       0utlet     Improvement     Improvement       1     Repair     1       1     Repair     1       2     Grade Wall     Improvement       3     Irrigation Channel     Improvement       2     Grade Wall     Improvement       3     Irrigation Channel     Improvement       3     Irrigation Channel     Improvement       1     Repair     1     Nos       1     Repair     1     Nos       2     Grade Wall     Improvement     Improvement       3     Irrigation Channel     Improvement     Improvement       4     Provision for     Improvement     Improvement       1     Labour Welfare, Inforeseen     Improvement     Improvement       1     Advertisement     Improvement     Improvement       1			Reconstruction							
IIIWeirImage: state of the state of		2	Repair							
1       Reconstruction       Improvement       Improvement       Improvement         1       Earthwork       Improvement       Improvement       Improvement         1       Repair       1       146.39       Improvement       Improvement         1       Repair       1       146.39       Improvement       Improvement       Improvement         1       Repair       1       146.39       Improvement       Improvement       Improvement         1       Repair       1       146.39       Improvement       Improvement       Improvement         3       Irrigation Channel       Improvement       <										
2     Repair     Improvement     Improvement       1     Earthwork     Improvement     Improvement       1     Head Sluice     Improvement     Improvement       1     Anicut     Improvement     Improvement       1     Repair     1     146.39     Improvement       2     Grade Wall     Improvement     Improvement     Improvement       3     Irrigation Channel     Improvement     Improvement     Improvement       VII     Cell     Improvement     Improvement     Improvement       VII     Cell     Improvement     Improvement     Improvement       VII     Provision for     Improvement     Improvement     Improvement       Improvement     Improvement     Improvement     Improvement     Improvement       VIII     Provision for     Improvement     Improvement     Improvement       Improvement     Improvement     Improvement     Improvement     Improvement       Improvement     Improveme		1	Reconstruction							
VSupply Channel ImprovementImprovementImprovement1EarthworkImprovementImprovementImprovement1EarthworkImprovementImprovementImprovement1Repair1146.39Improvement1Repair1146.39Improvement2Grade WallImprovementImprovementImprovement3Irrigation ChannelImprovementImprovementImprovement3Irrigation ChannelImprovementImprovementImprovementVIICellImprovementImprovementImprovementVIICellImprovementImprovementImprovementVIICellImprovementImprovementImprovementVIIIProvision for Labour Welfare, ImprovementImprovementImprovementImprovementImprovementImprovementImprovementImprovementImprovementImprovementImprovementVIIIProvision for Labour Welfare, Improvement										
1       Earthwork       -       4.11       -       -       -       4.11       -       -       -       4.11       -       -       -       4.11       -       -       -       4.11       -       -       -       4.11       -       -       -       4.11       -       -       -       4.11       -       -       -       4.11       -       -       -       4.11       -       -       -       4.11       -       -       -       4.11       -       -       -       4.11       -       -       -       4.11       -       -       -       4.11       -       -       -       4.11       -       -       -       4.11       -       -       -       4.11       - <t< th=""><th>v</th><th></th><th>Supply Channel</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	v		Supply Channel							
Image: system of the system	-	1								
Image: Note of the improvementImage: Note of the improvementImage: Note of the improvementImage: Note of the improvement1Repair1146.391Nos146.392Grade WallImage: Note of the improvementImage: Note of the improvementImage: Note of the improvementImage: Note of the improvement3Irrigation ChannelImage: Note of the improvementImage: Note of the improvementImage: Note of the improvementImage: Note of the improvement3Irrigation ChannelImage: Note of the improvementImage: Note of the improvementImage: Note of the improvementImage: Note of the improvementVIICellImage: Note of the improvementImage: Note of the improvementImage: Note of the improvementImage: Note of the improvementVIIIProvision for Labour Welfare, ImprovementImage: Note of the improvementImage: Note of the improvementImage: Note of the improvementImage: Note of the improvement Image: Note of the improvement Image: Note of the improvementImage: Note of the improvementImage: Note of the improvementImage: Note of the improvement Image: Note of the improvement Image: Note of the improvementImage: Note of the improvementImage: Note of the improvementImage: Note of the improvement Image: Note of the improvement Image: Note of the improvementImage: Note of the improvementImage: Note of the improvementImage: Note of the improvement Image: Note of the improvement Image: Note of the improvementImage: Note of the improvementImage: Note of the improvement										
VIAnicut improvementINos146.391Repair1146.391Nos146.392Grade WallIrrigation ChannelImprovementalImprovementalImprovementalImprovemental3Irrigation ChannelImprovementalImprovementalImprovementalImprovementalImprovementalVIICellImprovementalImprovementalImprovementalImprovementalImprovementalVIIProvision for Labour Welfare, InforeseenImprovementalImprovementalImprovementalImprovementalItems, Charges, Improvemental ChargesImprovemental ImprovementalImprovemental ImprovementalImprovemental ImprovementalImprovemental ImprovementalImprovemental ImprovementalIXMeasuring DevicesImprovemental ImprovementalImprovemental ImprovementalImprovemental ImprovementalImprovemental ImprovementalIXDevicesImprovemental ImprovementalImprovemental ImprovementalImprovemental ImprovementalImprovemental ImprovementalImprovemental ImprovementalIXImprovemental 										
VIimprovementImprovement <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>										
1Repair1146.391Nos146.392Grade Wall3Irrigation ChannelVIICellVIIIProvision for Labour Welfare, unforeseen items, Charges, Photographic Charges-4.114.11XMeasuring Devices-4.114.11	VI									
2       Grade Wall       Image: Channel		1		1	146.39			1	Nos	146.39
3       Irrigation Channel       Image: Second system										
VII     Environmental cell       VII     Provision for Labour Welfare, unforeseen items, charges, Photographic Charges       Measuring IX     -										
VIIcellVIIIProvision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges-4.114.11Image: Second stress of the second stre										
VIII     Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges     -     4.11     -     -     -     4.11       IX     Measuring Devices     -     -     -     -     -     4.11	VII									
Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges     -     4.11     -     -     -     4.11       Measuring IX     Measuring Devices     -     -     -     -     -     4.11			Provision for							
unforeseen     -     4.11     -     -     4.11       Advertisement     -     4.11     -     -     4.11       Charges,     Photographic     -     -     4.11       Charges     -     -     -     -       IX     Devices     -     -     -										
items, Advertisement charges, Photographic Charges     -     4.11     -     -     -     4.11       IX     Measuring Devices     -     -     -     -     4.11										
Advertisement charges, Photographic Charges     4.11     -     -     4.11       Measuring IX     Measuring Devices     -     -     4.11										
charges, Photographic Charges     Image: Charges       IX     Measuring Devices			-	-	4.11	-		-	-	4.11
Photographic Charges     Photographic       Measuring IX     Devices										
Charges       Measuring       IX     Devices			0							
IX Devices										
IX Devices			Ŭ							
Total 150.50	IX		Devices							
			Total							150.50

### <u>Name of work:</u> Rehabilitation of Nanjaithalaiyur Anicut of Amaravathi River System in Amaravathi Sub Basin in Aravakurichi Taluk of Karur District.

SI. No.	Name of irrigation Anicuts	No of Anicut	Amount in Lakhs
1.	Rehabilitation of Nanjaithalaiyur Anicut of Amaravathi River System in Amaravathi Sub Basin in Aravakurichi Taluk of Karur District.	1 Nos (ol Anicut)	146.39
2.	L.S. Provisions		4.11
	TOTAL		150.50

Name of work: Rehabilitation of Nanjaithalaiyur Anicut of Amaravathi River

System in Amaravathi Sub Basin in Aravakurichi Taluk of Karur District.

### **BROAD REQUIREMENT OF CONSTRUCTION EQUIPMENT**

### BASED ON BROAD CALCULATIONS THE EQUIPMENT REQUIRED IS

### LISTED BELOW

### Machineries required for earth work & concrete

SI.No	Equipment	Numbers
1	Hydraulic Excavator (±0.90Cu.m)	1
2	Hydraulic Excavator with steel plate	
	attachment (For compaction of earth fill on	
	slopes of tank bund)	
3	Tippers/Lorries(8/10Tonne)	3
4	Power Rollers/Vibratory Power Rollers	
	(including 2 power rollers of (± 0.90m width)	
5	Water tankers (Truck mounted water tankers	3
	of ±10000 Litres)	
6	Pneumatic Tampers/Earth Rammers (for	1
	compaction of earth fill adjoining the new	
	concrete irrigation sluices to be constructed)	
7	Air Compressors (±300cfm)	1
8	Plate Vibrators for compaction of sub grade	
	and of bed bar concrete lining	
9	Dozer (D6 or equivalent)	1
10	Mechanical Concrete mixers 14/10 cft, 10/7 cft	4
11	Concrete vibrators	4

1Nos	Dydraulic excavator (± 0.90Cum)	1	
	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	Name of work:
3 Nos	Tippers/Lorries(8 to 10 Tonne)	3	work:
	Power Rollers/Vibratory Power Roller	4	Rehat
3 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	oilitatio
1 Nos	Pneumatic Tampers/Earth Rammers	6	on of Nanjai A Requirement
1 Nos	Air Compressors (±300cfm)	7	AMARAVATHI SUB BASIN Rehabilitation of Nanjaithalaiyur Anicut of Amaravathi Rive Aravakurichi Taluk of Karur District. Requirement of Construction Equipments and Mater
	Plate Vibrators	8	AMARAVATHI SUB BASIN aithalaiyur Anicut of Amaravathi Riv Aravakurichi Taluk of Karur District. Af <u>Construction Equipments</u> and <u>Mate</u>
1 Nos	Dozer (D6 or equivalent)	9	AVAT ur Ani ırichi 1
4 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	HI SU cut of faluk o p <u>n Equ</u>
4 Nos	<b>Concrete vibrators</b>	11	B BAS Amar of Karu ipmen
780 MT	Cement	12	IN avathi ur Dist
1260 Cum	Sand	13	<b>2</b> . <del>4</del>
61.00 MT	Steel	14	System in Amaravathi Sub Basin in
495 Cum	Metal 40mm	15	Amara
1340 Cum	Metal 20mm	16	avathi
675 Cum	Metal 12mm	17	Sub B
1440 Cum	Earth	18	asin i

### Name of work: Rehabilitation of Nanjaithalaiyur Anicut of Amaravathi River System in Amaravathi Sub Basin in

### Aravakurichi Taluk of Karur District

### **REQUIREMENT OF MATERIALS**

SI. No	Description	Qty	Unit	Cement in mt	Sand m Cum	20mm Jelly in M3	40mm Jelly in M3	12 mm Jelly in M3	Steel Rts	Earth packing
11	M.10 Using 20mm	850	M <sup>3</sup>	185	380	460		305		
12	M.15 Using 40mm	915	M <sup>3</sup>	235	410	330	495			
13	R.C.C M.15 Using 20mm	220	M <sup>3</sup>	65	100	120		80		
14.	R.C.C M.20 Using 20mm	800		295	360	430		290		
15	<b>Conveyance Earth</b>		M <sup>3</sup>							1440
16	Steel	61.00	MT						61.00	
	Total			780	1250	1340	495	675	61.00	1440

# <u>Name of work:</u> Rehabilitation of Nanjaithalaiyur Anicut of Amaravathi River System in Amaravathi Sub Basin in Aravakurichi Taluk of Karur District.

### Construction methodology

	-	Working Months														
		IRRIGATION SEASON														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	
SI	Description	Feb	Mar	April	Мау	June	July	Aug	Seb	Oct	Nov	Dec	Jan	Feb	Mar	
No	of Item	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2012	2013	2013	Total
	Earth work excavation															
1	Bund															
2	Channel															
3	Foundation	200	200	200	200	200	200	240								1440
	Concrete															
1	M.10 Using 20mm		170	170	170	170	05	05								850
4	M.15 Using		170	170	170	170	85	85								850
5	40mm		100	200	200	200	100	115								915
0	R.C.C M.15 Using		50	50	400											
6	20mm R.C.C M.20		50	50	120											220
	Using		60	150	150	150	150	140								800
	20mm		60	150	150	150	150	140								800
	steel		10	10	10	10	10	11								61

### WRO COST TABLE

## Name of work : Rehabilitation of vertical gates and hoisting Arrangements to Chettipalayam Anicut of Amaravathi river System in Amaravathi Sub Basin in Karur taluk of Karur district.

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	Anicut			
a.	Head Sluice	1	4.906	
b.	Rehabilitation Vertical Gates	12	207.167	
c.	Sluice Repairs			
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anaicut Repairs			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall			
j.	Supply cannel improvements			
k.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		212.073	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		5.927	
	Total		218.00	

#### PAKAGE No:8 /TN IAMWARM /WRD /AMR /WORKS /IV/STAGEII/ 2012-2013

## E. (PHYSICAL AND FINANCIAL PROGRAM)

#### Name of work : Rehabilitation of vertical gates and hoisting Arrangements to Chettipalayam Anicut of Amaravathi river System in Amaravathi Sub Basin in Karur taluk of Karur district.

#### PAKAGE No:8 /TN IAMWARM /WRD /AMR /WORKS /IV/STAGEII/ 2012-2013

			<b>I</b>	Year	II '	Year			
SI. N	ο.	Description	Qty	Amt in Lakhs	Qty	Amt in Lakhs	Q	ty	Amt in Lakhs
1		<u>Anicut</u> improvement							
	1	Rehabilitation of lift Gates	12 Nos	207.167	-	-	12	Nos	207.167
	2	Repair of head Sluice	1 Nos	4.906	-	-	1	Nos	4.906
	3	Irrigation Channel	-	-	`	-	-	-	-
2		Environmental cell							
3		Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges	-	5.927	-	-	-	-	5.927
4		Measuring Devices							
		Total							218.00

# Name of work : Rehabilitation of vertical gates and hoisting Arrangements to Chettipalayam Anicut of Amaravathi river System in Amaravathi Sub Basin in Karur taluk of Karur district.

			Construction Methodology													
				Worki	ng Mon	ths			I	RRIGATI		SON				
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	
SI	Description of	Feb	Mar	April	Мау	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
No	İtem	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2014	2014	2014	Total
1	Vertical Lift Gates with Hoisting Arrangements	-	-	3 Nos	3 Nos	3 Nos	3 Nos									12 Nos
2	Head Sluice Worm gear Arrangements	-	_	-	1											1Nos

#### PAKAGE No:8 /TN IAMWARM /WRD /AMR /WORKS /IV/STAGEII/ 2012-2013

1	Hydraulic excavator (± 0.90Cum)	1		
	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	Name of work	
2	Tippers/Lorries(8 to 10 Tonne)	3	f work	
1	crane	4	: Reh	PA
1	Water Tankers(Truck Mounted of ± 10000 Liters)	5	abilita Amar	KAGE I
8	Chain Pully	6	Rehabilitation of vertical gates and hoisting Arrangement Amaravathi river System in Amaravathi Sub Basin in	Amaravathi SUB BASIN PAKAGE No:8 /TN IAMWARM /WRD /AMR /WORKS /IV/STAGEII/ 20
1	Air Compressors (±300cfm)	7	f verti river	N IAMN
3	A Frame	8	cal ga Systei	Amaravathi SUB BASIN NARM /WRD /AMR /WORKS
	Dozer (D6 or equivalent)	9	tes an n in A	vathi S NRD /A
	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	ıd hois marav	UB BA
	Concrete vibrators	11	sting ∕ ⁄athi S	SIN SRKS /I
	Cement	12	Arrangemen Sub Basin in	V/STAC
	Sand	13		3EII/ 201
	Steel	14	ts to Chettipalayam Anicut o Karur taluk of Karur district.	12-2013
	Metal 40mm	15	hettip: taluk (	
	Metal 20mm	16	alayan of Kar	
	Rough Stone Masonry	17	-	
	Earth	18	Anicut of district.	

## WRO COST TABLE (Package 09/IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13)

SI. No	Description of work	Quantity	Amount in Lakhs	Rema rks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements			
b.	Cross masonry repairs			
c.	Sluice Repairs/ Reconstructions			
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anaicut Repairs	1	22.27	
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall	2096	247.86	
j.	Supply channel improvements	7060	312.03	
k.	Lining of irrigation channels			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		582.16	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		15.84	
	Total		598.00	

## A.( PHYSICAL AND FINANCIAL PROGRAM ) (Package 09/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13)

		I Six M	lonths	II Six N	lonths	То	tal
SL. NO	Description	Quantity	Amount in Lakhs	Quantity	Amount in Lakhs	Quantity	Amount in Lakhs
1	Repairs to Anicut	1	22.27			1	22.27
2	Retaining wall constrution	1200m	141.90	896m	105.96	2096m	247.86
3	Supply channel improvements	4000m	176.79	3060m	135.24	7060m	312.03
4	Provisions for labour welfare,unforeseen items,Advertisement charges,Photographic charges		9.49		6.35		15.84
	Total		350.45		247.55		598.00

## (Package 09/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13)

## Construction methodology

SI	Description of	Worl	king Mo	nths		١	Working	g Month	S		I	RRIGA		EASON	N		
No	Item	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	Total
	Earth work excavation																
1	Bund							5000	12000	18000				8000	7710	-	50710
2	Channel							10000	9471								19471
3	Foundation				1000	2000	2000	2500	2000	1300				1000	1745		13545
	Concrete																
4	M 10 grade,20mm														24		24
5	M 10 grade, 40mm																
6	M.15 grade, 40 & 20mm				90	180	180	225	180	118				90	160.50	-	1223.50
7	M. 20 grade,20mm							90	120	116.50						-	326.50
8	M 25 grade,20mm							30	30	49							109
9	R.R.														25	22	47

			<u>(</u> 0	9/TN IA	MWARN	I / WRD	/ <b>AMR</b> /	WORKS	6 / IV / S	tage-II /	2012-13	)			
				RE	QUIREN	IENT OF	EQUIP	MENTS	AND M/	ATERIA	_S				
		EQUIF	PMENTS F	REQUIRE	D IN NUM	BERS				М	ATERIAL	REQUIRE	ED		
PACKAGE NUMBER	HYDRAULIC EXCAVATOR	POWER ROLLER	VIBRATED COMPACTOR	TIPPER / LORRY	WATER LORRY	CONCRETE MIXER MACHINE	CONCRETE VIBRATOR	CEMENT IN M.T.	SAND IN m <sup>3</sup>	STEEL IN M.T.	METAL 40MM IN m <sup>3</sup>	METAL 20MM IN m <sup>3</sup>	$ m RRIN~m^3$	GRAVEL	FUEL
9	3	2	1	10	4	5	5	3911	7000	5.85	6835	4236	47	-	-

## COST TABLE (10/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13)

SIn	0	I TANK COMPONENT (Varatha Component	Qty	system)	Amount in Lakhs
	10	Tank Bund Improvement	Qty		
•		Earthwork for bund, Retaining wall, Model Section, Steps	3476	М	45.48
II		Improvement to Sluices			
1		Reconstruction			
	а	Tower Head	-	-	-
	b	Wing Wall	2	Nos	24.04
2		Repair			
	a	Tower Head	-	Nos	-
	b	Wing Wall	-	Nos	-
3		Well syphon	-		-
		Improvements to Weir			
1		Reconstruction	-	Nos	-
2		Repair	1	Nos	9.86
IV		Shutter Arrangement			
1		Sluice	-	-	-
	а	SG Plug	-	-	-
	b	SG Shutter	2	Nos	0.60
2		Weir		-	-
	а	SG Shutter in scour vents	-	-	-
3		Anicut	-	-	-
		Anicut shutter	-	-	-
		Head sluice shutter	-	Nos	-
V		Supply Channel Improvement	-	-	-
1	а	Earthwork	-	m	-
2	b	Repair to Cross Masonry Work	2	Nos	162.71
VI		River Training	-	-	-
1		Anicut	-	-	-
	а	Repair	2	Nos	12.87
VII		In Tank Bed	-	-	-
		Measuring Devices	2	Nos	0.29
		Total cost of Civil Works			255.85
VIII	а	Labour welfare fund @,0.30%			0.77
	b	Add Provisions for Contingencies, labour benefit fund, advertisement charges, documentation charges, photographs etc.,2.50%			6.38
	-	Total for provisions			
		Total Amount			263.00Lakhs

#### I -- TANK COMPONENT (Varathamanathi Non-system)

## (10/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13)

## C. (PHYSICAL AND FINANCIAL PROGRAMME)

		I Six M	onths	II Six N	lonths	То	tal
SL. NO	Description	Quantity	Amount in Lakhs	Quantity	Amount in Lakhs	Quantity	Amount in Lakhs
1	Strengthening Tank bund	2320m	30.02	1156m	15.46	3476m	45.48
2	Repairs to sluices	2	24.64	-	-	2	24.64
3	Repairs to Weir	1	9.86	-	-	1	9.86
4	Repairs to Anicut	1	8.49	1	4.38	2	12.87
5	Cross Masonry Works	1	88.20	1	74.51	2	162.71
6	Measuring Devices	-	-	2	0.29	2	0.29
	Total	-	161.21	-	94.64	-	255.85

#### (Varadhamanathi Non System)

# (Package 10/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13) Construction Methodology (Varadhamanathi Non System)

SI	Description			-			-	Worki	ng Mont	ths								Rainy easo		Total
No	of Item	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	10	11	12	i otor
	Earth work e	xcav	vation																	
1	Channel silt	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Bund	-	-	-	6833	6833	6833	6833	6833	6833	-	-	-	7039	7039	7039	-	-	-	62115.00
3	sand filling	-	-	-	-	29	29	-	-	-	-	-	-	45	45	44.5	-	-	-	192.50
4	Gravel	-	-	-	-	-	-	-	-	-	-	-	-	61	61	60	-	-	-	182.00
5	Foundation	-	-	-	930	930	930	755	755	-	-	-	-	190	190	180	-	-	-	4860.00
	Turfing	-	-	-							-	-	-	5745	5745	5740	-	-	-	17230.00
6	cut open & Ordinary EW	-	-	-	-	600	600	-	-	-	-	-	-	-	-	-	-	-	-	1200.00
	Concrete										-	-	-	-	-	-	-	-	-	-
7	M 7.5 40mm	-	-	-	-	41	41	41	-	-	-	-	-	17	17	15.50	-	-	-	172.50
8	M 10 grade 20mm and 40mm		-	-	-	73	73	73	73	73	-	-	-	18	18	19	-	-	-	347.00
9	M 15, 20mm	-	-	-	-	600	600	600	600	600	-	-	-	510	510	506	-	-	-	4526.00
10	M 20, 20 mm	-	-	-	-	-	6	6	-	-	-	-	-	72	70	-	-	-	-	154.00
11	RR masonry	-	-	-	-	-	-	-	-	-	-	-	-	80	72.50	-	-	-	-	152.50
12	Rough stone	-	-	-	-	-	-	-	210	196	-	-	-	265	265	255.5	-	-	-	1191.50
13	Plastering	-	-	-	-	-	-	-	-	-	-	-	-	-	146	146	-	-	-	292.00
14	M 15, 40mm	-	-	-	-	17	17	17	17	15	-	-	-	-	-	-	-	-	-	83.00

			(Packa	age 10/		NARM /	WRD / A	AMR / W	ORKS /	IV / Stag	ge-II / 20	<u>12-13)</u>			
				RE	QUIREN	IENT OF	EQUIP	MENTS	AND M	ATERIAI	LS				
		EQUIF	PMENTS F	REQUIRE	d in Num	BERS				Μ	ATERIAL	REQUIRE	Đ		
PACKAGE NUMBER	HYDRAULIC EXCAVATOR	POWER ROLLER	VIBRATED COMPACTOR	TIPPER / LORRY	WATER LORRY	CONCRETE MIXER MACHINE	CONCRETE VIBRATOR	CEMENT IN M.T.	SAND IN m <sup>3</sup>	STEEL IN M.T.	METAL 40MM IN m <sup>3</sup>	METAL 20MM IN m <sup>3</sup>	RR IN m <sup>3</sup>	GRAVEL	FUEL
10	2	1	2	10	5	4	4	1488	2463	8.30	368	4532	938	211	-

## A. WRO COST TABLE

Name of work : Rehabilitation Of Kodaganar Anicut, Lakshmanampatty Anicut, Boothipuram Anicut And Surplus Channel Of Neelamalaikottai Tank Of Amaravathi Sub Basin In Oddanchatram, Authoor, Vedasandur And Dindigul Taluks Of Dindigul District.

#### Package 11/TN IAMWARM/WRD/AMR/WORKS/STAGE II/2012-13

SI. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements			
b.	Sluice Reconstructions			
c.	Sluice Repairs			
d.	Weir Reconstructions			
e.	Weir Repairs	3	137.30	
f.	Construction of Check Dam			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall	1	51.00	
j.	Supply channel improvements			
k.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		188.30	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		4.7	
	Total		193.00	

(P.T.O)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	<b>Environmental Charges</b>		Nil	
	Ground water		Nil	
	Grand Total		193.00 Lakhs	

# <u>Abstract</u>

1.	Canal	Component
----	-------	-----------

2.	Non	Tank	Components
----	-----	------	------------

3. Environmental cell

 193.00 Lakhs
 Nil Lakhs
 Nil Lakhs
Total 193.00 Lakhs

#### A. PHYSICAL AND FINANCIAL PROGRAMME

Name of work : Rehabilitation Of Kodaganar Anicut, Lakshmanampatty Anicut, Boothipuram Anicut And Surplus Channel Of Neelamalaikottai Tank Of Amaravathi Sub Basin In Oddanchatram, Authoor, Vedasandur And Dindigul Taluks Of Dindigul District. Package 11/TN IAMWARM/WRD/AMR/WORKS/STAGE II/2012-13

S.No.	Description	I Y	/ear	II Y	ear	Total	Amount	Remarks
		Quantity	Amount	Quantity	Amount	Quantity	(Lakhs)	
Ι	Improvements & Reconstruction of Bridges							
1	Neelamalaikottai tank-Surplus channel Drop &Spur wall	2	148.77	-	-			148.77
2	Kodaganar Anicut across Kodaganar River	1	6.09	-	-			6.09
3	Lakshmanpatti Anicut across Kodaganar River	1	6.04					6.04
4	Boothipuram Anicut across Kodaganar River	1	27.4					27.4
II	Reconstruction of Syphons	-	-	-	-	-	-	-
1	Earth Work (Combined Qty)	-	-	-	-	-	-	-
2	Concrete (Combined Qty)	-	-	-	-	-	-	-
3	RR masonry	-	-	-	-	-	-	-
III	Provision for Labour Welfare Fund, PS charges, Documentation Charges, Hydraulic sign boards, Photographic and videographic charges, Audit & Accounts, Advertisement, Contingencies and unforeseen items @ 2.80%		4.7	-	_	_	-	4.7
	Total		193.00					193.00

#### Name of work : Rehabilitation Of Kodaganar Anicut, Lakshmanampatty Anicut, Boothipuram Anicut And Surplus Channel Of Neelamalaikottai Tank Of Amaravathi Sub Basin In Oddanchatram, Authoor, Vedasandur And Dindigul Taluks Of Dindigul District. <u>Package 11/TN IAMWARM/WRD/AMR/WORKS/STAGE II/2012-</u>13

<b>S.</b>	Description of				Wor	king Mo	onths					Ra	in Seaso	n		
N 0.	Item	Feb 2013	Mar 2013	April 2013	May 2013	June 2013	July 2013	Aug 2013	Sep 2013	Oct 2013	Nov 2013	Dec 2013	Jan 2014	Feb 2014	Mar 2014	Total
Ι	Earth work															
1	Foundation	-	-	100	162	-	-	-	-	-	-	-	-	-	-	262 m3
2	Open Earth work	-	8000	8000	8000	5786	-	-	-	-	-	-	-	-	-	29786 m3
	Concrete															
3	M10, 40mm	-	-	33	-	-	-	-	-	-	-	-	-	-	-	33
4	M15, 20mm & 40mm	-	-	600	700	700	700	700	852	-	-	-	-			4252m 3
5	M20, 20mm	-	-	-	-	-	130	130	178	-	-	-	-	-	-	438 m3
6	Rough Stone	-	-	-	-	-	-	-	218	-	-	-	-	-	-	218 m3

**CONSTRUCTION METHODOLOGY** 

5Nos	Hydraulic excavator (± 0.90Cum)	1	
-	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	<u>Name</u> Chann
10 Nos	Tippers/Lorries(8 to 10 Tonne)	3	<u>Name of work:</u> Channel Of Nee
-	Power Rollers/Vibratory Power Roller	4	
3 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	AMARAVATHI SUB BASIN Name of work: Rehabilitation Of Kodaganar Anicut, Lakshmanampatty Anic Channel Of Neelamalaikottai Tank of Amaravathi Sub Basin In Oddanchatram Taluks Of Dindigul District. <u>Package 11/TN IAMWARM/WRD/AMR/WORKS/STA(</u>
-	Pneumatic Tampers/Earth Rammers	6	ıtion ( ui Tan <u>(age</u>
-	Air Compressors (±300cfm)	7	AMARAVATHI SUB BASIN bilitation Of Kodaganar Anicut, Lakshmanampatty Anio kottai Tank of Amaravathi Sub Basin In Oddanchatran Taluks Of Dindigul District. Package 11/TN IAMWARM/WRD/AMR/WORKS/STA
1	Plate Vibrators	8	AMARAVATHI aganar Anicut, I maravathi Sub E Taluks Of D IAMWARM/WR
-	Dozer (D6 or equivalent)	9	AVAT Anicu athi Su luks O <u>ARM/</u>
5	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	'HI SU It, Lak Ib Basi Ib Basi Ib Dind
5	Concrete vibrators	11	ARAVATHI SUB BASIN iar Anicut, Lakshmanampat avathi Sub Basin In Oddanc Taluks Of Dindigul District. WARM/WRD/AMR/WORK
1573 MT	Cement	12	SIN ampatt ddanch strict. <u>IORKS</u>
2126 M3	Sand	13	
20.70 MT	Steel	14	ut, Boothipuram Anicut And Surplus , Authoor, Vedasandur And Dindigul <u>3E II/2012-</u> 13
2327 m3	Metal 40mm	15	ram A edasar 3
1925 M3	Metal 20mm	16	nicut A ıdur A
218 m3	Rough stone	17	nd Din
-	Earth	18	rplus digul

## A. WRO COST TABLE

## <u>NAME OF WORK:</u> Rehabilitation of Alagarpudukulam Anicut and Protection walls in Santhanavarthini river in Vemparpatty Village of Dindugal Taluk of Dindugal District.

PACKAGE No:12/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

SI. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements			
b.	Sluice Reconstructions			
c.	Sluice Repairs			
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anicut Repairs			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall	3	545.63	
j.	Supply cannel improvements			
k.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		545.63	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		14.37	
	Total		560.00	

(P.T.O)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	<b>Environmental Charges</b>		Nil	
	Ground water		Nil	
	Grand Total		560.00 Lakhs	

	Abstract	
19.Canal Component		560.00 Lakhs
20.Non Tank Components		Nil Lakhs
21.Environmental cell		Nil Lakhs
	Total	560.00 Lakhs

(Rupees Five Hundred and Sixty Lakhs only)

## F. (PHYSICAL AND FINANCIAL PROGRAM)

## **NAME OF WORK:** Rehabilitation of Alagarpudukulam Anicut and Protection

walls in Santhanavarthini river in Vemparpatty Village of Dindugal Taluk of

## **Dindugal District.**

## PACKAGE No:12/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

			l Ye	ar	II `	Year			
SI. No.		Description	Description Qty S Charter Qty Charter Amt In Lakh S		Qty		Amt in Lakhs		
		CANAL COMPO	NENTS						
		Canal Bund							
		Improvements							
		Earthwork for							
	1	Bund							
		Improvement of							
II		sluices							
	1	Reconstruction							
	2	Repair							
		Improvement of							
III	1	Weir Reconstruction							
	1								
	2	Repair							
v		Supply Channel Improvement							
V	1	Earthwork							
	- I	Retaining Wall	3	545.63	-	-	_	-	545.63
		Outlet	5	343.03	-	-		-	340.00
		Anicut							
VI		improvement							
••	1	Repair							
	2	Grade Wall							
	3	Irrigation Channel							
		Environmental							
VII		cell							
VIII		Provision for							
		Labour Welfare,							
		unforeseen							
		items,							
		Advertisement	-	14.37	-		-	-	14.37
		charges,							
		Photographic							
		Charges							
		Measuring							
IX		Devices							
		Total		560.00					560.00

## Package Details

**NAME OF WORK:** Rehabilitation of Alagarpudukulam Anicut and Protection

walls in Santhanavarthini river in Vemparpatty Village of Dindugal Taluk of

## Dindugal District.

PACKAGE No:12/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

SI. No.	Name of irrigation Anicuts	No of Anicut	Amount in Lakhs
1.	CONSTRUCTION OF PROTECTION WALL		
	FROM LS 13.00 KM TO LS 14.50 KM		
	ADJACENT TO MURUGAN TEMPLE (IN THE		
	LEFT OUT REACH) OF DHARAPURAM	1 Nos (ol	545.63
	CHANNEL OF AMARAVATHI RIVER SYSTEM	Anicut)	
	IN DHARAPURAM TALUK OF TIRUPPUR		
	DISTRICT".		
2.	L.S. Provisions		14.37
	TOTAL		560.00

		1	
5Nos	Hydraulic excavator (± 0.90Cum)	1	
2 Nos	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	AMARAVATHI SUB BASIN <u>NAME OF WORK:</u> Rehabilitation of Alagarpudukulam Anicut and Prote river in Vemparpatty Village of Dindugal Taluk of Dinc PACKAGE No:12/TN IAMWARM/WRD/AMR/WORKS/IV/ST Requirement of Construction Equipments and Materia
10 Nos	Tippers/Lorries(8 to 10 Tonne)	3	
-	Power Rollers/Vibratory Power Roller	4	AMARAVATHI SUB BASIN <u>PRK:</u> Rehabilitation of Alagarpudukulam Anicut and Prote river in Vemparpatty Village of Dindugal Taluk of Din PACKAGE No:12/TN IAMWARM/WRD/AMR/WORKS/IV/ST Requirement of Construction Equinments and Materi
3 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	Rehabili river in V CKAGE N
-	Pneumatic Tampers/Earth Rammers	6	AN 1abilitation of <i>/</i> in Vemparpatu 3E No:12/TN IA Beauirement of
1 NO	Air Compressors (±300cfm)	7	AM/ of Al patty N IAN
-	Plate Vibrators	8	AMARAVATHI f Alagarpuduki atty Village of I IAMWARM/WR of Construction
-	Dozer (D6 or equivalent)	9	ATHI uduku ;e of D M/WRI cfion F
15 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	AMARAVATHI SUB BASIN pilitation of Alagarpudukulam Anicut and Prote Vemparpatty Village of Dindugal Taluk of Dinc No:12/TN IAMWARM/WRD/AMR/WORKS/IV/ST auirement of Construction Equipments and Materia
15 Nos	<b>Concrete vibrators</b>	11	ASIN nicut <i>s</i> nl Talu //WOR 4nts ar
5013 MT	Cement	12	und Pr ik of I iKS/IV
6948 cum	Sand	13	otect Dindu /STAo
16.5 MT	Steel	14	ion w gal D GEII/2
8338 Cum	Metal 40mm	15	ction walls in Santhanavarthini dugal District. AGEII/2012-2013 als
5558 Cum	Metal 20mm	16	Santh
10	Metal 12mm	17	anava
-	Earth	18	rthin

## NAME OF WORK: Rehabilitation of Alagarpudukulam Anicut and Protection walls in Santhanavarthini river in Vemparpatty Village

## of Dindugal Taluk of Dindugal District.

#### PACKAGE No:12/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

						CONS	IKUUI			OLUGI						
<b>S.</b>	Description of				Wor	king Mo	onths					Ra	in Seaso	n		
Ν	Description of Item	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
0.	Item	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2014	2014	2014	
Ι	Earth work															
1	Foundation		2400	2400	2400	2400	2400	2310	2640							16950
	Foundation	-	2400	2400	2400	2400	2400	2310	2040	-	-	-	-	-	-	m3
2	River		2050	2050	2100	2100	2100	2100								12500
	KIVCI	-	2030	2030	2100	2100	2100	2100	-	-	-	-	-	-	-	m3
	Concrete															
4	M15, 20mm &			2000	2000	2000	2000	2000	2000				1500	1500	340	15340
	40mm	-	-	2000	2000	2000	2000	2000	2000	-	-	-	1500	1500	540	m3
5	M20, 20mm							50	50							100
	1v120, 2011111	-	-	-	-	-	-	- 30	- 50	-	-	-	-	-	-	m3
6	Rough Stone	-	-	-	-	-	-	-	10	-	-	-	-	-	-	10 m3

### **CONSTRUCTION METHODOLOGY**

## A. WRO COST TABLE

<u>NAME OF WORK:</u> Rehabilitation of Kattankulam anicut and Protection walls in Santhanavarthini river in Avilipatty Village of Dindugal Taluk of Dindugal

## District.

#### PACKAGE No:13/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

SI. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements			
b.	Sluice Reconstructions			
c.	Sluice Repairs			
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anicut Repairs			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall	2	525.81	
j.	Supply cannel improvements			
k.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		525.81	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		14.19	
	Total		540.00	

(P.T.O)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	<b>Environmental Charges</b>		Nil	
	Ground water		Nil	
	Grand Total		540.00 Lakhs	

	<u>Abstract</u>	
22.Canal Component		540.00 Lakhs
23.Non Tank Components		Nil Lakhs
24.Environmental cell		Nil Lakhs
	Total	540.00 Lakhs

(Rupees Five Hundred and Forty Lakhs only)

## (PHYSICAL AND FINANCIAL PROGRAM)

## NAME OF WORK: Rehabilitation of Kattankulam anicut and Protection walls in

Santhanavarthini river in Avilipatty Village of Dindugal Taluk of Dindugal

## District.

#### PACKAGE No:13/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

			l Ye	ar	II `	Year			
SI. N	0.	Description	Qty	Amt in Lakh s	Qty	Amt in Lakhs	Qty	/	Amt in Lakhs
		CANAL COMPO	NENTS						
		Canal Bund							
I		Improvements							
		Earthwork for							
	1	Bund							
П		Improvement of sluices							
	1	Reconstruction							
	2	Repair							
ш		Improvement of Weir							
	1	Reconstruction							
	2	Repair							
v		Supply Channel Improvement							
	1	Earthwork							
		Retaining Wall	1	525.81	-	-	-	-	525.81
		Outlet							
		Anicut							
VI		improvement							
	1	Repair							
	2	Grade Wall							
	3	Irrigation Channel							
VII		Environmental cell							
VIII		Provision for Labour Welfare, unforeseen							
		items, Advertisement charges,	-	14.19	-		-	-	14.19
		Photographic Charges Measuring							
IX		Devices							
		Total		540.00					540.00

# <u>NAME OF WORK:</u> Rehabilitation of Kattankulam anicut and Protection walls in Santhanavarthini river in Avilipatty Village of Dindugal Taluk of Dindugal District.

## PACKAGE No:13/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

SI. No.	Name of irrigation Anicuts	No of Anicut	Amount in Lakhs
1.	Rehabilitation of Kattankulam anicut and Protection walls in Santhanavarthini river in Avilipatty Village of Dindugal Taluk of Dindugal District.	1 Nos (ol Anicut)	525.81
2.	L.S. Provisions		14.19
	TOTAL		540.00

l

5Nos	Hydraulic excavator (± 0.90Cum)	1	
2 Nos	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	AMARAVATHI SUB BASIN Rehabilitation of Kattankulam anicut and Protection walls in Santhanavart of Dindugal Taluk of Dindugal District PACKAGE No:13/TN IAMWARM/WRD/AMR/WORKS/IV/STA Requirement of Construction Equipments and Materials
10 Nos	Tippers/Lorries(8 to 10 Tonne)	3	itation
-	Power Rollers/Vibratory Power Roller	4	of Kat PACK
3 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	AMARAVATHI SUB BASIN of Kattankulam anicut and Protection walls in Santhanavart of Dindugal Taluk of Dindugal District PACKAGE No:13/TN IAMWARM/WRD/AMR/WORKS/IV/STA Requirement of Construction Equipments and Materials
-	Pneumatic Tampers/Earth Rammers	6	Al of Di SE No:13/TN 1/
-	Air Compressors (±300cfm)	7	AML icut a f Dinc f N IAN
-	Plate Vibrators	8	MARAVAT t and Prote indugal Ta AMWARM/
-	Dozer (D6 or equivalent)	9	ATHI SU otection v Taluk of M/WRD/,
15 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	AMARAVATHI SUB BASIN ut and Protection walls in S Dindugal Taluk of Dindugal IAMWARM/WRD/AMR/WO
15 Nos	Concrete vibrators	11	JB BASIN valls in Sa Dindugal AMR/WOF
4212 MT	Cement	12	nthanav District kKS/IV/S <sup>-</sup>
5850 cum	Sand	13	avart ct /STA
120 MT	Steel	14	GEII/
7020 Cum	Metal 40mm	15	nini river in Av 3Ell/2012-2013
4680Cum	Metal 20mm	16	river in Avilipatty Village 2012-2013
165	Metal 12mm	17	patty
-	Earth	18	Villag

## NAME OF WORK: Rehabilitation of Kattankulam anicut and Protection walls in Santhanavarthini river in Avilipatty Village of

## Dindugal Taluk of Dindugal District.

#### PACKAGE No:13/TN IAMWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

<b>S.</b>	Description of				Wor	king Mo	onths					Ra	in Seaso	n		
N 0.	Description of Item	Feb 2013	Mar 2013	April 2013	May 2013	June 2013	July 2013	Aug 2013	Sep 2013	Oct 2013	Nov 2013	Dec 2013	Jan 2014	Feb 2014	Mar 2014	Total
Ι	Earth work	-														
1	Foundation	-	2250	2250	2250	2250	2250	2250	-	-	-	-	-	-	-	13500 m3
2	Open EW	-	5917	5917	5917	5917	5917	5917	-	_	-	_	-	-	-	35500 m3
	Concrete															
4	M15, 20mm & 40mm	-	2167	2167	2167	2167	2167	1084	1083	-	-	-	-	-	-	13000 m3
6	Rough Stone	-	-	-	-	-	-	-	165	-	-	-	-	-	-	165 m3

#### **CONSTRUCTION METHODOLOGY**

## Name of work : REHABILITATION OF RIGHT MAIN CANAL FROM LS 25.500KM TO 53.515 KM OF KODAGANAR DAM IN VEDASANDUR TALUK OF DINDUGAL DISTRICT AND ARAVAKURUCHI TALUK KARUR DISTRICT. Package No: 14 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

## Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

		Working Months														
										1	RRIGA	TION SE	ASON			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	
SI	Description	Feb	Mar	April	Мау	June	July	Aug	Seb	Oct	Nov	Dec	Jan	Feb	Mar	
No	of Item	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2012	2013	2013	Total
	Earth work excavation															
1	Bund															
2	Channel		6760	6760	6760	6760	6760									33800
3	Foundation		650	650	735											2035
	Concrete															
5	M.15 Using 40mm			250	250	250	250	250	201							1451
	steel			1	1	1.8	1.5	1.5	1							7.8

## **Construction methodology**

## A. WRO COST TABLE

## Name of work : REHABILITATION OF RIGHT MAIN CANAL FROM LS 25.500KM TO 53.515 KM OF KODAGANAR DAM IN VEDASANDUR TALUK OF DINDUGAL DISTRICT AND ARAVAKURUCHI TALUK KARUR DISTRICT. Package No: 14 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements			
b.	Sluice Reconstructions			
c.	Sluice Repairs			
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anicut Repairs			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall	230 M	59.11	
j.	Supply cannel improvements	27.015 KM	19.47	
k.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total			
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%	-	2.42	
	Total		81.00	

(P.T.O)

SI. No	<b>Description of work</b>	Quantity	Amount in Lakhs	Remarks	
	<b>Environmental Charges</b>		Nil		
	Ground water		Nil		
	Grand Total		81.00 Lakhs		

	<u>Abstract</u>					
4. Canal Component		81.00	Lakhs			
5. Non Tank Components		Nil	Lakhs			
6. Environmental cell		Nil	Lakhs			
	Total		81.00 Lakhs			
(Rupees Eighty one lakhs only)						

#### G. (PHYSICAL AND FINANCIAL PROGRAM)

#### Name of work : REHABILITATION OF RIGHT MAIN CANAL FROM LS 25.500KM TO 53.515 KM OF KODAGANAR DAM IN VEDASANDUR TALUK OF DINDUGAL DISTRICT AND ARAVAKURUCHI TALUK KARUR DISTRICT. Package No: 14 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SI. No.			l Year		ll Year				
		Description	Otv	Amt in Lakh s	in Akh Qty	Amt in Lakhs	Qty		Amt in Lakhs
		CANAL COMPO	NENTS						
		Canal Bund							
I		Improvements							
		Earthwork for							
	1	Bund							
		Improvement of							
		sluices							
	1	Reconstruction							
	2	Repair							
		Improvement of							
		Weir							
	1	Reconstruction							
	2	Repair							
v		Supply Channel							
V		Improvement					33800		
	1	Earthwork	33800	19.55			m3	Cum	19.57
		Retaining Wall	1451	59.11			1451	cum	59.11
		Outlet							
		Anicut							
VI		improvement							
	1	Repair							
	2	Grade Wall							
	3	Irrigation Channel							
		Environmental							
VII		cell							
VIII		Provision for							
		Labour Welfare,							
		unforeseen							
		items,							0.40
		Advertisement	-	2.42	-		-	-	2.42
		charges,							
		Photographic							
		Charges							
		Measuring							
IX		Devices							
									01 00
		Total							81.00

#### Name of work : REHABILITATION OF RIGHT MAIN CANAL FROM LS 25.500KM TO 53.515 KM OF KODAGANAR DAM IN VEDASANDUR TALUK OF DINDUGAL DISTRICT AND ARAVAKURUCHI TALUK KARUR DISTRICT. Package No: 14 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

Name of Sub basin: AMARAVATHI SUB BASIN (LEFTOUT WORKS)

SI. No.	Name of irrigation Anicuts	No of Anicut	Amount in Lakhs
1.	REHABILITATION OF RIGHT MAIN CANAL		
	FROM LS 25.500KM TO 53.515 KM OF		
	KODAGANAR DAM IN VEDASANDUR TALUK	-	78.58
	OF DINDUGAL DISTRICT AND		
	ARAVAKURUCHI TALUK KARUR DISTRICT.		
2.	L.S. Provisions		2.42
	TOTAL		81.00

111		4	1	
1Nos	Dydraulic excavator (± 0.90Cum)	1		Nan D
	Hydraulic Excavator with steel plate	2	-	me c DAM
	attachment (for compaction of earth fill on			글욱
	slopes of tank bund)			
5 Nos	Tippers/Lorries(8 to 10 Tonne)	3	]	ork /ED,
	Power Rollers/Vibratory Power Roller	4	Name of	Name of work : REHABIL DAM IN VEDASANDUR Package No:
2 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	of Su	
	Pneumatic Tampers/Earth Rammers	6	Sub basin: Requireme	TATION FALUK ( 14 /TN
	Air Compressors (±300cfm)	7	sin:	
	Plate Vibrators	8	AMA It of C	
	Dozer (D6 or equivalent)	9	NRAV,	MAIN
2 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	AMARAVATHI SUB BASIN (LE t of Construction Equipments and Mat	ITATION OF RIGHT MAIN CANAL FROM LS TALUK OF DINDUGAL DISTRICT AND ARA' 14 /TN IAMWARM / WRD / AMR / WO
2Nos	<b>Concrete vibrators</b>	11	SUB F	
481 MT	Cement	12	BASIN ents ar	M LS
653 Cum	Sand	13	<b>b basin:</b> AMARAVATHI SUB BASIN (LEFTOU Requirement of Construction Equipments and Materials	ITATION OF RIGHT MAIN CANAL FROM LS 25.500KM TALUK OF DINDUGAL DISTRICT AND ARAVAKURUCI 14 /TN IAMWARM / WRD / AMR / WORKS / IV /
7.8 MT	Steel	14		M TO 53.515 KM OF KODAGANAR CHI TALUK KARUR DISTRICT. / / Stage-II / 2012-13
784 Cum	Metal 40mm	15	r works)	.515 .UK
			KS)	KAR / 20
522 Cum	Metal 20mm	16		0F K 12-1;
	Metal 12mm	17		ODAG ISTRI 3
-	Earth	18		SANA CT.

#### NAME OF WORK: IMPROVEMENTS TO THE GAUGING BRIDGE AT LS.22317M, RECONSTRUCTION OF CANAL SYPHON AT LS.22933M AND LS.23658M OF AMARAVATHI MAIN CANAL IN MADATHUKULAM TALUK OF TIRUPPUR DISTRICT

#### PACKAGE NO: 15 / TN IAMWARM / WRD / AMR / WORKS / IV / STAGE II / 2012 – 2013 NAME OF SUB BASIN : AMARAVTHI SUB BASIN ( LEFT OUT WORKS )

S.No	Description of Work	Quantity	Amount ( Lakhs)	Remarks
Ι	Irrigation / Leading Channel			
a	Canal Bund & Jeep Track Improvements			
b	Cross Masonry Repairs			
c	Sluice Repairs / Reconstructions			
d	Weir Repairs			
e	Anicut Repairs			
f	Head Sluice			
g	Outlet			
h	Construction of Retaining Wall			
i	Leading Channel Improvements			
j	Bridges Improvements / Reconstruction			
k	Syphon Reconstruction	1	151.69	
1	Lining of Irrigation Channels			
m	Measuring Devices (V Notches / Cut			
	Throat Fluwe)			
	Sub Total		151.69	
II	LS Provisions			
a	Provision for Labour Welfare Fund @		0.46	
	0.3%			
b	Provision for PS charges, Documentation		2.85	
	Charges, Hydraulic sign boards,			
	Photographic and videographic charges,			
	Audit & Accounts, Advertisement,			
	Contingencies and unforeseen items @			
	2.50%			
	Total		155.00	

#### NAME OF WORK: IMPROVEMENTS TO THE GAUGING BRIDGE AT LS.22317M, RECONSTRUCTION OF CANAL SYPHON AT LS.22933M AND LS.23658M OF AMARAVATHI MAIN CANAL IN MADATHUKULAM TALUK OF TIRUPPUR DISTRICT

#### PACKAGE NO: 15 / TN IAMWARM / WRD / AMR / WORKS / IV / STAGE II / 2012 – 2013 NAME OF SUB BASIN : AMARAVTHI SUB BASIN ( LEFT OUT WORKS ) <u>Machineries and Materials required for Earthwork & Concrete</u>

S.No	Name of Machinery	Quantity
1	Hydraulic Excavator	1
2	Hydraulic Excavator with Steel Plate Attachment (for compaction of earth fill on slopes of bund)	-
3	Tippers / Lorries ( 8 to 10 Tonne)	3
4	Power Rollers / Vibratory Power Roller	-
5	Water Tankers ( truck Mounted of ±10000 litres)	3
6	Pneumatic Tampers / Earth Rammers	1
7	Air Compressors	-
8	Plate Vibrators	-
9	Dozer (D6 or equivalent)	3
10	Mechanical Concrete Mixers 14/10 cft, 10/7 cft	3
11	Concrete Vibrators	3
12	Acro slip form Gantry	-
13	Cement	1009 MT
14	Sand	1775 m <sup>3</sup>
15	Metal 40mm	1481 m <sup>3</sup>
16	Metal 20mm	916 m <sup>3</sup>
17	Steel	1013.90 qtl
18	Rough Stone for Masonry	242 m <sup>3</sup>

#### Name of work : IMPROVEMENTS TO THE GAUGING BRIDGE AT LS.22317M, RECONSTRUCTION OF CANAL SYPHON AT LS.22933M AND LS.23658M OF AMARAVATHI MAIN CANAL IN MADATHUKULAM TALUK OF TIRUPPUR DISTRICT

#### PACKAGE NO: 15 / TN IAMWARM / WRD / AMR / WORKS / IV / STAGE II / 2012

#### SI. Amount Quantity **Description of work** Remarks No in Lakhs I. irrigation Channel **Canal Bund & Jeep Track** a. Improvements b. **Sluice Reconstructions** c. **Sluice Repairs** Weir Reconstructions d. Weir Repairs e. f. **Construction of Check Dam Head Sluice** g. h. Outlet i. **Construction of Retaining wall** 1 151.69 j. Supply channel improvements Lining of irrigation channels k. (29x30w+15%)**Measuring Devices** l. (V Notches/ CTF.(cut throat Fluwe) 151.69 Sub Total **LS Provisions** Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, 3.31 **Documentation Charges, Name** board, Photographic charges at 2.80% Total 155.00

#### - 2013Package 15/TN IAMWARM/WRD/AMR/WORKS/STAGE II/2012-13

(P.T.O)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	<b>Environmental Charges</b>		Nil	
	Ground water		Nil	
	Grand Total		155.00 Lakhs	

	<u>Abstract</u>	
4. Canal Component	155.	00 Lakhs
5. Non Tank Components	Ni	il Lakhs
6. Environmental cell	Ni	il Lakhs
	Total	155.00 Lakhs

(Rupees One Hundred and Fifty Five Lakhs only)

#### A. PHYSICAL AND FINANCIAL PROGRAMME NAME OF WORK: IMPROVEMENTS TO THE GAUGING BRIDGE AT LS.22317M, RECONSTRUCTION OF CANAL SYPHON AT LS.22933M AND LS.23658M OF AMARAVATHI MAIN CANAL IN MADATHUKULAM TALUK OF TIRUPPUR DISTRICT

PACKAGE NO: 15 / TN IAMWARM / WRD / AMR / WORKS / IV / STAGE II / 2012 – 2013 NAME OF SUB BASIN : AMARAVTHI SUB BASIN ( LEFT OUT WORKS )

S.No	Description	IY	lear	II Y	ear	Total	Amount	Remark
	_	Quantit	Amount	Quantit	Amoun	Quantit	(Lakhs)	s
		у		у	t	У		
Ι	Improvements							
	&							
	Reconstruction							
1	of Bridges Earth Work	9420	133050			9420	133050	
1	(Combined	$m^3$	155050	-	-	$m^3$	155050	
	Qty)	111				111		
2	Concrete	1563	4562625	-	_	1563	4562625	
-	(Combined	m <sup>3</sup>				m <sup>3</sup>	1002020	
	Qty)							
3	RR masonry	500 m <sup>3</sup>	98842	-	-	500 m <sup>3</sup>	98842	
4	Flow measuring	1 No.	600000	-	-	1 No.	600000	
	device							
Π	Reconstruction							
	of Syphons							
1	Earth Work	14950	1832653	-	-	14950	1832653	
	(Combined	m <sup>3</sup>				m <sup>3</sup>		
	Qty)	1 ( 10				1 < 10		
2	Concrete	1640 3	7054358	-	-	1640 3	7054358	
	(Combined	m <sup>3</sup>				m <sup>3</sup>		
3	Qty) RR masonry	790 m <sup>3</sup>	887677			790 m <sup>3</sup>	887677	
III	Provision for	770 m	330795			770 m	330795	
	Labour		000170				000170	
	Welfare Fund,							
	PS charges,							
	Documentation							
	Charges,							
	Hydraulic sign							
	boards,							
	Photographic							
	and							
	videographic							
	charges, Audit							
	& Accounts, Advertisement,							
	Contingencies							
	and unforeseen							
	items @ 2.80%							
	Total		1550000				1550000	
			0				0	

#### NAME OF WORK: IMPROVEMENTS TO THE GAUGING BRIDGE AT LS.22317M, RECONSTRUCTION OF CANAL SYPHON AT LS.22933M AND LS.23658M OF AMARAVATHI MAIN CANAL IN MADATHUKULAM TALUK OF TIRUPPUR DISTRICT PACKAGE NO: 15 / TN IAMWARM / WRD / AMR / WORKS / IV / STAGE II / 2012 – 2013 NAME OF SUB BASIN : AMARAVTHI SUB BASIN ( LEFT OUT WORKS )

S.	Description of				Wor	king Mo	onths				Rain Season					
N 0.	Description of Item	Feb 2013	Mar 2013	April 2013	May 2013	June 2013	July 2013	Aug 2013	Sep 2013	Oct 2013	Nov 2013	Dec 2013	Jan 2014	Feb 2014	Mar 2014	Total
Ι	Improvements &															
	Reconstruction															
	of Bridges															
1	Earth Work (Combined Qty)			2500	2500	2500	1920									9420 m <sup>3</sup>
	· · · · · · · · · · · · · · · · · · ·															
2	Concrete (Combined Qty)			325	325	325	325	263								1563 m <sup>3</sup>
3	RR masonry			100	100	100	100	100								500 m <sup>3</sup>
4	Flow measuring							1								1 No.
	devices							-								11100
II	Reconstruction															
	of Syphons															
1	Earth Work			2000	2000	2000	2550									14950
	(Combined Qty)			3800	3800	3800	3550									m <sup>3</sup>
2	Concrete			350	350	350	350	240								1640
	(Combined Qty)			330	330	350	350	240								m <sup>3</sup>
3	RR masonry			160	160	160	160	150								790 m <sup>3</sup>

#### **CONSTRUCTION METHODOLOGY**

#### NAME OF WORK: IMPROVEMENTS TO THE GAUGING BRIDGE AT LS.22317M, RECONSTRUCTION OF CANAL SYPHON AT LS.22933M AND LS.23658M OF AMARAVATHI MAIN CANAL IN MADATHUKULAM TALUK OF TIRUPPUR DISTRICT

#### PACKAGE NO: 15 / TN IAMWARM / WRD / AMR / WORKS / IV / STAGE II / 2012 – 2013 NAME OF SUB BASIN : AMARAVTHI SUB BASIN ( LEFT OUT WORKS )

S.No	Description of Work	Quantity	Amount ( Lakhs)	Remarks
Ι	Irrigation / Leading Channel			
a	Canal Bund & Jeep Track Improvements			
b	Cross Masonry Repairs			
c	Sluice Repairs / Reconstructions			
d	Weir Repairs			
e	Anicut Repairs			
f	Head Sluice			
g	Outlet			
h	Construction of Retaining Wall			
i	Leading Channel Improvements			
j	Bridges Improvements / Reconstruction			
k	Syphon Reconstruction	1	151.69	
1	Lining of Irrigation Channels			
m	Measuring Devices (V Notches / Cut			
	Throat Fluwe)			
	Sub Total		151.69	
II	LS Provisions			
a	Provision for Labour Welfare Fund @		0.46	
	0.3%			
b	Provision for PS charges, Documentation		2.85	
	Charges, Hydraulic sign boards,			
	Photographic and videographic charges,			
	Audit & Accounts, Advertisement,			
	Contingencies and unforeseen items @			
	2.50%			
	Total		155.00	

#### NAME OF WORK: IMPROVEMENTS TO THE GAUGING BRIDGE AT LS.22317M, RECONSTRUCTION OF CANAL SYPHON AT LS.22933M AND LS.23658M OF AMARAVATHI MAIN CANAL IN MADATHUKULAM TALUK OF TIRUPPUR DISTRICT

#### PACKAGE NO: 15 / TN IAMWARM / WRD / AMR / WORKS / IV / STAGE II / 2012 – 2013 NAME OF SUB BASIN : AMARAVTHI SUB BASIN ( LEFT OUT WORKS ) <u>Machineries and Materials required for Earthwork & Concrete</u>

S.No	Name of Machinery	Quantity
1	Hydraulic Excavator	1
2	Hydraulic Excavator with Steel Plate Attachment (for compaction of earth fill on slopes of bund)	-
3	Tippers / Lorries ( 8 to 10 Tonne)	3
4	Power Rollers / Vibratory Power Roller	-
5	Water Tankers ( truck Mounted of ±10000 litres)	3
6	Pneumatic Tampers / Earth Rammers	1
7	Air Compressors	-
8	Plate Vibrators	-
9	Dozer (D6 or equivalent)	3
10	Mechanical Concrete Mixers 14/10 cft, 10/7 cft	3
11	Concrete Vibrators	3
12	Acro slip form Gantry	-
13	Cement	1009 MT
14	Sand	1775 m <sup>3</sup>
15	Metal 40mm	1481 m <sup>3</sup>
16	Metal 20mm	916 m <sup>3</sup>
17	Steel	1013.90 qtl
18	Rough Stone for Masonry	$242 \text{ m}^3$

<u>Name of work:</u> Construction of check Dam across Amaravathi river near Dharapuram town at Dharapuram Taluk of Tiruppur District..

#### Package 16/TN IAMWARM/WRD/AMR/WORKS/STAGE II/2012-13

SI. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements			
b.	Sluice Reconstructions			
c.	Sluice Repairs			
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Construction of Check Dam	1	673.148	
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall			
j.	Supply cannel improvements			
k.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		673.148	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		18.102	
1	Total		691.25	

(P.T.O)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	<b>Environmental Charges</b>		Nil	
	Ground water		Nil	
	Grand Total		691.25 Lakhs	

	<u>Abstract</u>	
7. Canal Component		691.25 Lakhs
8. Non Tank Components		Nil Lakhs
9. Environmental cell		Nil Lakhs
	Total	691.25 Lakhs

(Rupees Six hundred Ninety one lakhs Twenty five thousand only)

#### H. (PHYSICAL AND FINANCIAL PROGRAM)

## <u>Name of work:</u> Construction of check Dam across Amaravathi river near Dharapuram town at Dharapuram Taluk of Tiruppur District..

			١١	<b>′ear</b>	II	Year			
SI. N	lo.	Description	Qty Amt in Lakhs		Qty	Amt in Lakhs	Q	ty	Amt in Lakhs
		CANAL COMPON	IENTS						
		Canal Bund							
I		Improvements							
		Earthwork for							
	1	Bund							
П		Improvement of sluices							
	1	Reconstruction							
	2	Repair							
		Improvement of							
III		Weir							
	1	Reconstruction							
	2	Repair							
		Supply Channel							
V		Improvement							
	1	Earthwork							
		Head Sluice							
		Outlet							
		Anicut							
VI		improvement							
	1	Repair							
	2	Grade Wall							
	3	Irrigation Channel							
		Construction of	1	673.148			1	Nos	673.148
VII		check dam	•	073.140				1105	073.140
VIII		Provision for							
		Labour Welfare,							
		unforeseen							
		items,							
		Advertisement	-	18.102	-		-	-	18.102
		charges,							
		Photographic							
		Charges							
								-	
13.7		Measuring							
IX		Devices							
		Total							691.25

#### Package 16/TN IAMWARM/WRD/AMR/WORKS/STAGE II/2012-13

#### Package Details

## <u>Name of work:</u> Construction of check Dam across Amaravathi river near Dharapuram town at Dharapuram Taluk of Tiruppur District.. <u>Package 16/TN IAMWARM/WRD/AMR/WORKS/STAGE II/2012-</u>13

SI. No.	Name of irrigation Anicuts	No of Anicut	Amount in Lakhs
1.	Construction of check Dam across Amaravathi river near Dharapuram town at Dharapuram Taluk of Tiruppur District	1 Nos	673.148
2.	L.S. Provisions		18.102
	TOTAL		691.25

#### **AMARAVATHI SUB BASIN (Section-2)**

<u>Name of work:</u> Construction of check Dam across Amaravathi river near Dharapuram town at Dharapuram Taluk of Tiruppur District.. <u>Package 16/TN IAMWARM/WRD/AMR/WORKS/STAGE II/2012-</u>13 BROAD REQUIREMENT OF CONSTRUCTION EQUIPMENT

## BASED ON BROAD CALCULATIONS THE EQUIPMENT REQUIRED IS LISTED BELOW

#### Machineries required for earth work & concrete

SI.No	Equipment	Numbers
1	Hydraulic Excavator (±0.90Cu.m)	1
2	Hydraulic Excavator with steel plate	
	attachment (For compaction of earth fill on	
	slopes of tank bund)	
3	Tippers/Lorries(8/10Tonne)	5
4	Power Rollers/Vibratory Power Rollers	
	(including 2 power rollers of (± 0.90m width)	
5	Water tankers (Truck mounted water tankers	5
	of ±10000 Litres)	
6	Pneumatic Tampers/Earth Rammers (for	1
	compaction of earth fill adjoining the new	
	concrete irrigation sluices to be constructed)	
7	Air Compressors (±300cfm)	1
8	Plate Vibrators for compaction of sub grade	
	and of bed bar concrete lining	
9	Dozer (D6 or equivalent)	1
10	Mechanical Concrete mixers 14/10 cft, 10/7 cft	7
11	Concrete vibrators	7

1Nos	Dydraulic excavator (± 0.90Cum)	1	
	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	Name of work:
5 Nos	Tippers/Lorries(8 to 10 Tonne)	3	
	Power Rollers/Vibratory Power Roller	4	
5 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	AMARAVATH Construction of check Dam across Taluk of Ti <u>Package 16/TN IAMWARM/Wi</u> Requirement of Construction
1 Nos	Pneumatic Tampers/Earth Rammers	6	ruction o Package
1 Nos	Air Compressors (±300cfm)	7	AMARAVATHI SUB BASIN of check Dam across Amaravathi river nea Taluk of Tiruppur District <u>16/TN IAMWARM/WRD/AMR/WORKS/STA</u> rement of Construction Equipments and Mater
	Plate Vibrators	8	AMARAVATHI SUB BASIN k Dam across Amaravathi Taluk of Tiruppur Distri IAMWARM/WRD/AMR/WOF of Construction Equipments :
1 Nos	Dozer (D6 or equivalent)	9	AVAT acros uk of <u>ARM/V</u>
7 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	
7 Nos	Concrete vibrators	11	IB BASI aravath our Distr <u>MR/WO</u>
4615 MT	Cement	12	SUB BASIN Amaravathi river nea ruppur District D/AMR/WORKS/STA Equipments and Mater
7980 Cum	Sand	13	
99.00 MT	Steel	14	narapurar <u>II/2012-</u> 13
9960 Cum	Metal 40mm	15	r Dharapuram town at Dharapuram <u>GE II/2012-</u> 13 ials
6400 Cum	Metal 20mm	16	n at D
1650 Cum	Rough stone	17	harapı
28000 Cum	Earth	18	l

#### Name of work: Construction of check Dam across Amaravathi river near Dharapuram town at Dharapuram Taluk of Tiruppur

#### District.

#### Package 16/TN IAMWARM/WRD/AMR/WORKS/STAGE II/2012-13

#### **REQUIREMENT OF MATERIALS**

SI. No	Description	Qty	Unit	Cement in mt	Sand m Cum	20mm Jelly in M3	40mm Jelly in M3	12 mm Jelly in M3	Steel Rts	Earth work
17.	M.10 Using 20mm	200	M <sup>3</sup>	45	90	70	110			
18	M.15 Using 40mm	16330	M <sup>3</sup>	4230	7480	5900	8800			
19	R.C.C M.20 Using 20mm	1200		340	540	650		430		
20	Steel	99.00	МТ						99.00	
	Total			4615	8110	6620	8910	430	99.00	28000

#### Name of work: Construction of check Dam across Amaravathi river near Dharapuram town at Dharapuram Taluk of Tiruppur

#### District..

#### Package 16/TN IAMWARM/WRD/AMR/WORKS/STAGE II/2012-13

								Work	ing Mor	nths						
										I	RRIGA	TION SE	ASON			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	
SI	Description	Feb	Mar	April	Мау	June	July	Aug	Seb	Oct	Nov	Dec	Jan	Feb	Mar	
No	of Item	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2012	2013	2013	Total
	Earth work excavation															
1	Bund															
2	Channel															
3	Foundation	2000	4000	5000	5000	4000	4000	4000								28000
	Concrete															
4	M.10 Using 20mm		30	30	40	40	30	30								200
5	M.15 Using 40mm		1000	3000	4000	3000	3000	2330								16330
6	R.C.C M.20 Using 20mm		200	200	200	200	200	2000								1200
	steel		10	15	25	200	200	9								99

### Construction methodology

## <u>Name of work:</u> : Construction of Protoction wall in Santhanavarthini River in Vamparpatty , Avilipatty, Veerachinnapatty Village of Dindigul Taluk of Dindigul District.

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements			
b.	Sluice Reconstructions			
c.	Sluice Repairs			
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Construction of Check Dam	5	566.92	
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall			
j.	Supply cannel improvements			
k.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		566.92	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		14.08	
	Total		581.00	

#### Package 17/TN IAMWARM/WRD/AMR/WORKS/STAGE II/2012-13

(P.T.O)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	<b>Environmental Charges</b>		Nil	
	Ground water		Nil	
	Grand Total		581.00Lakhs	

	<u>Abstract</u>	
<b>10.Canal Component</b>		581.00 Lakhs
11.Non Tank Components		Nil Lakhs
12.Environmental cell		Nil Lakhs
	Total	581.00 Lakhs

(Rupees Five Hundred and Eighty one Lakhs only)

#### (PHYSICAL AND FINANCIAL PROGRAM)

Name of work: : Construction of Protoction wall in Santhanavarthini River in

Vamparpatty, Avilipatty, Veerachinnapatty Village of Dhindugal Taluk of

#### Dhindugal District.

#### Package 17/TN IAMWARM/WRD/AMR/WORKS/STAGE II/2012-13

			١١	<b>′ear</b>		Year			
SI. No.		Description	Qty	Amt in Lakhs	Qty	Amt in Lakhs	Qty		Amt in Lakhs
		CANAL COMPON	IENTS						
		Canal Bund							
I		Improvements							
		Earthwork for							
	1	Bund							
		Improvement of							
II		sluices							
	1	Reconstruction							
	2	Repair							
		Improvement of							
III		Weir							
	1	Reconstruction							
	2	Repair							
		Supply Channel							
V		Improvement							
	1	Earthwork							
		Head Sluice							
		Outlet							
		Anicut							
VI		improvement							
	1	Repair							
	2	Grade Wall							
	3	Irrigation Channel							
		Construction of	5	566.92			5	Nos	566.9
VII		check dam	5	500.92			5	NUS	500.5
VIII		Provision for							
		Labour Welfare,							
		unforeseen							
		items,							
		Advertisement	-	14.08	-		-	-	14.08
		charges,							
		Photographic							
		Charges							
		Measuring							
IX		Devices							
		Total		581.00					581.00

## <u>Name of work:</u> : Construction of Protoction wall in Santhanavarthini River in Vamparpatty , Avilipatty, Veerachinnapatty Village of Dindigul Taluk of Dindigul District.

## Package 17/TN IAMWARM/WRD/AMR/WORKS/STAGE II/2012-13

SI. No.	Name of irrigation Anicuts	No of Anicut	Amount in Lakhs
1.	Construction of Protoction wall in Santhanavarthini River in Vamparpatty , Avilipatty, Veerachinnapatty Village of Dindigul Taluk of Dindigul District.	5 Nos	566.92
2.	L.S. Provisions		14.08
	TOTAL		581.00

#### **AMARAVATHI SUB BASIN (Section-2)**

<u>Name of work:</u> : Construction of Protoction wall in Santhanavarthini River in Vamparpatty , Avilipatty, Veerachinnapatty Village of Dhindugal Taluk of Dhindugal District.

Package 17/TN IAMWARM/WRD/AMR/WORKS/STAGE II/2012-13

#### **BROAD REQUIREMENT OF CONSTRUCTION EQUIPMENT**

#### BASED ON BROAD CALCULATIONS THE EQUIPMENT REQUIRED IS

#### LISTED BELOW

#### Machineries required for earth work & concrete

SI.No	Equipment	Numbers
1	Hydraulic Excavator (±0.90Cu.m)	1
2	Hydraulic Excavator with steel plate	
	attachment (For compaction of earth fill on	
	slopes of tank bund)	
3	Tippers/Lorries(8/10Tonne)	5
4	Power Rollers/Vibratory Power Rollers	
	(including 2 power rollers of (± 0.90m width)	
5	Water tankers (Truck mounted water tankers	5
	of ±10000 Litres)	
6	Pneumatic Tampers/Earth Rammers (for	1
	compaction of earth fill adjoining the new	
	concrete irrigation sluices to be constructed)	
7	Air Compressors (±300cfm)	1
8	Plate Vibrators for compaction of sub grade	
	and of bed bar concrete lining	
9	Dozer (D6 or equivalent)	1
10	Mechanical Concrete mixers 14/10 cft, 10/7 cft	7
11	Concrete vibrators	7

5Nos	Hydraulic excavator (± 0.90Cum)	1	
-	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	Nam
10 Nos	Tippers/Lorries(8 to 10 Tonne)	3	Name of work:
-	Power Rollers/Vibratory Power Roller	4	ork:
3 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	Const Veers <u>Pac</u>
-	Pneumatic Tampers/Earth Rammers	6	ructio achinn <u>kage</u> '
-	Air Compressors (±300cfm)	7	A onstruction of Pr eerachinnapatty Package 17/TN L Requirement o
-	Plate Vibrators	8	AMAF rotoct y Villa <u>IAMW</u>
-	Dozer (D6 or equivalent)	9	MARAVA1 toction wa Village of J MWARM/ Construct
10 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	AMARAVATHI SUB BASIN Construction of Protoction wall in Santhanavarthini R Veerachinnapatty Village of Dhindugal Taluk of Dhin <u>Package 17/TN IAMWARM/WRD/AMR/WORKS/STAC</u> Requirement of Construction Equipments and Mater
10 Nos	Concrete vibrators	11	JB BASIN anthanavar ugal Taluk c <u>AMR/WORK</u> <u>uipments and</u>
5255 MT	Cement	12	SIN navart aluk o ORKS
7299 Cum	Sand	13	hini River f Dhindug <u>}/STAGE   </u> Materials
18.00 MT	Steel	14	iver in Vamparpatty , Avilipatty, dugal District. <u>GE II/2012-</u> 13 ials
8759Cum	Metal 40mm	15	ict. -
5839 Cum	Metal 20mm	16	utty , ≯
7 Cum	Rough stone	17	
-	Earth	18	, itty,

# <u>Name of work:</u> Construction of Protoction wall in Santhanavarthini River in Vamparpatty , Avilipatty, Veerachinnapatty Village of Dhindugal Taluk of Dhindugal District.

#### Package 17/TN IAMWARM/WRD/AMR/WORKS/STAGE II/2012-13

<u>CONSTRUCTION METHODOLOGY</u>																
S.	Description of	Working Months														
N	Description of	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
0.	Item	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2014	2014	2014	
Ι	Earth work	-														
1	Foundation	-	2450	2450	2450	2450	2450	2450	2450	-	-	-	-	-	-	17150 m3
2	Open EW	-	10000	10000	10000	10000	10000	7261	-	-	-		-	-	-	57261 m3
	Concrete															
4	M15, 20mm & 40mm	-	1000	2000	2000	2000	2500	2500	2500	-	-	-	-	-	1720	16220
6	Rough Stone	-	-	-	-	-	-	-	7	-	-	-	-	-	-	7

#### **CONSTRUCTION METHODOLOGY**