



GOVERNMENT OF TAMILNADU

WATER RESOURCES DEPARTMENT

TN IAMWARM PROJECT

AMARAVATHI SUB BASIN

Phase-IV Stage-II

DETAILED PROJECT REPORT

AMOUNT RS.6001.75Lakhs

Volume I/2

Coimbatore Region ,Coimbatore - 1



TN IAMWARM PROJECT

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Volume 2/2

WATER RESOURCES DEPARTMENT





WATER RESOURCES ORGANISATION



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1.1 INTRODUCTION



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

Name of Sub Basin : Amaravathy

1) Ayacut Details:

Sl. 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>	<u>Total</u>
Tanks works taken	90Nos	2 Nos.	92 Nos.
Measuring device	8 Nos.	2 Nos.	10 Nos.
Taken up under IAMWARM Project	Yes		

7. Proposals in each infrastructure : Yes

8. WRD Cost Table:

- I. Tank Component : Furnished
- II. Non Tank Component : Furnished

9. Package Details:

	Stage-I	Stage-II	Total
I. No. of Packages	22	17	39

10. Calculation of Requirement of equipment

And materials and construction methodology for each package : Furnished

11. Environmental Proposals : Yes Furnished

12. Ground Water Proposals : Not included

13. Design and Drawing : Included

14. Photos showing Walkthrough survey : Yes enclosed

15. Photos showing damaged infrastructure : Yes enclosed

16. Flow Diagram : Yes furnished

17. Sub Basin Map Showing : Attached

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 agriculture practices.

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

1.2 DESCRIPTION OF THE AMARAVATHI 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. Varathananathi 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. Varathanadhi 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)

1. 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.

Sl. No.	Name of the System	District			Total	Remarks
		Karur (Hectare)	Dindigul (Hectare)	Tirupur (Hectare)		
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	Varathanadhi 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	Ramakal 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 earthen 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 selective reaches which are also damaged at present. Owing 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

PACKAGE NO.1: Rehabilitation and restoration of Komaralingam, Sholamadevi and Sarkarkannadipur 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

PACKAGE NO.2: 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

PACKAGE N0.3: 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 Reservoir 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 9th 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 11th km to 16th 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 9th 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 11th km to 16th 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%)

PACKAGE NO.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. Estimate Amount: Rs.301.00 Lakhs.

DHARAPURAM CHANNEL

The Dharapuram old channel is the 9th 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 11th km to 16th 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%)

PACKAGE NO.7: 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.

PACKAGE NO.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.

Estimate :Rs.218.00 Lakhs.

NECESSITY OF THIS PROPOSAL:

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 so 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.

PACKAGE NO.9: 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.

Present Conditions and constraints in the System:

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.

PACKAGE NO.10: Rehabilitation of Left out Non system tanks and Anicuts of Varathanathi 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 of sangaramanallur 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.

Tanks

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 upto 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.

PACKAGE NO.11: 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.

Estimate : Rs. 193.00 Lakhs.

Present conditions and constraints in the system:

Neelamalaikottai Tank Surplus Channel, Boothipuram, Lakshmanampatti and Kodaganar Anicuts across Kodaganar River.

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.
- ii) Design of spur wall for approach bund in downstream of drop surplus course of 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	Bhoothipuram 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

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

Estimate : Rs.560.00 Lakhs.

PACKAGE NO.13: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 Dindigul 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
2. 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.

3. 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.
9. 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.

PACKAGE NO.14: 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.
2. Construction of Retaining wall at LS 49078m to 49103 m, 49150m to 49350m and 45664m are to be provided.
3. 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.

PACKAGE NO.15: 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 unsafe 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 overflowing 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 take up the above left out 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.

PACKAGE NO.16: 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 gradient is generally 1:863 but at Kolingivadi Anicut and Vattamalikarai Odai in fall Point the gradient is about 1:1420 generally this location lies in semicritially Exploited area. As per the Chief Engineer Ground water report the area is recharge Pro are and suitable for check dam for recharging. To augment water for irrigation recharging at this Location will help in Congation of water for irrigation. An Check Dam at Dharapuram Town 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.

Scope

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.

PACKAGE NO.17: 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 Dindigul 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
2. 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.
3. 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.
9. 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

9	Rehabilitation of Thamaraikulam Anicut,Supply Channel and Thadakulam Supply Channel of Palar Porundalar System of Amaravathi Sub-Basin in Palani Taluk of Dindigul District.	598.00
10	Rehabilitation of Left out Non system tanks and Anicuts of Varathanathi 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.	263.00
11	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.	193.00
12	Rehabilitation of Alagarpudukulam Anicut and Protection walls in Santhanavarthini River in Vemparpatty village of Dindigul Taluk of Dindigul District.	560.00
13	Rehabilitation of Kattankulam Anicut and Protection wall in Santhanavarthini River in Avilipatti village of Dindigul Taluk of Dindigul District.	540.00
14	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.	81.00
15	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.	155.00
16	Construction of Check Dam across Amaravathi River near Dharapuram Town of Dharapuram Taluk of Tirupur District.	691.25
17	Construction of Protection wall in Santhanavarthini River in Vemparpatty,Avilipatti and Veerachinnampatty villages of Dindigul Taluk of Dindigul District	581.00
	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 hslI 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 rural village communities including generation of employment during the execution of the project.

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



1.2 HYDROLOGY



1.2. HYDROLOGY

1. 2.1 GENERAL

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 earthen 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 LOCATION

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 RAIN FALL

Average annual rainfall of gauging stations influencing this sub basin is as follows

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 CLIMATE

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.

<u>Inceptisol</u>	Red or brown or grey soil with surface horizon more developed than sub surface. They are developing soils, moderately deep, coarse loamy to loam moderately drained to well drained	Suited for commonly grown crops with exceptions
<u>Alfisol</u>	The red or brown soils having accumulation of alleviated clay in sub surface horizon it well drained, poor water and nutrient holding capacity.	Annual crops with shallow roots systems cum up wells
<u>Vertisols</u>	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 holdings	Numbers	Percentage
Marginal	Below 1.00 Ha	26010	40.5%
Small	1.00 - 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

Name Of Sub Basin	Total No. Of Blocks	Total No. Of Villages	Population		
			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				442445	
Monthly requirement	MCum							

1. 2.11 INDUSTRIES & MONTHLY WATER DEMAND

Name of Sub basin	Major Industries			Small Industries			Water Requirement		
	2004	2010	2025	2004	2010	2025	2004	2010	2025
Amaravathi Sub Basin	15	16	20	--	--	--	468	492.37	615.46

CROPPING PATTERN											
Name of the sub Basin		:	Amaravathy				Fully Irrigated		:	35694.29	Ha
Nodal District		:	Dindigul (Consolidated)				Partially Irrigated		:	8575.78	Ha
Registered Ayacut Area :			53334.22	Ha.			Gap		:	9064.15	Ha
No. of WUAs :							Total Ayacut Area		:	53334.22	Ha
S.No.	Crop	Without Project				With Project				Increasing	
		FI	PI	RF/G	TOTAL	FI	PI	RF/G	TOTAL		
I	Perennial 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	Cocoa	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	11430.61	12786.20	0	0	12786.20	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	2.00	254.00	0	256.00	256.00	0	0	256.00	0
18	Fodder Maize	8.00	0	0	8.00	20.00	0	0	20.00	12.00
19	Non Agri. purposes	0	0	1126.41	1126.41	0	0	1126.41	1126.41	0
20	Fallow	0	0	7937.74	7937.74	0	0	0	0	7937.74
	Total	23407.12	3502.64	9064.15	35973.91	32565.00	0	1126.41	33691.41	2282.50
IV	Grand Total (I+II+III)	35694.29	8575.78	9064.15	53334.22	52207.81	0	1126.41	53334.22	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	10325.00	0	0	10325.00	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	Cauliflower	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
15	Beans	75.84	0	0	75.84	75.00	0	0	75.00	-0.84

GOVERNMENT OF TAMILNADU

Public Works Department
Water Resources Department

From

To

Er. K.R. Govindaraju, ,B.E.,F.I.E.,
Chief Engineer & Director, WRD
Institute for Water Studies,PWD,
Tharamani, Chennai 600 113.
Email Id: ceiws wrd@gmail.com
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.

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.

AMARAVATHI SUB-BASIN - COUNTRY BASIS

Crop water requirement without Project - Ranked (Crop/Water)

Sl.No	Name of Crop	Area in Ha	Crop water requirement in Mm	Total Crop water requirement in Mm	Irrigation water requirement at source 80-95%	Total Irrigation requirement in Mm
I Perennial Crops						
1	Acacia	7738.47	1000	1000	773.85	271.27
2	Bamboo	2218.87	100	300	97.91	20.74
3	Teak	128.28	100	300	3.42	0.81
4	Apple	188.11	700	900	2.26	4.38
5	Mango	4153.90	700	875	2.91	1.41
6	Guava	14122	200	300	8.14	8.14
7	Guarwood	171100	750	2250	709	1177
8	Wattle Wood	18100	425	3075	314	2772
9	Almond	8	200	200	0.18	0.27
10	Other Perennials	478108	475	5148	11.11	7777
11	Apple	1100	100	300	11.03	11.03
12	Sub Total	1142041	1444	1444	499.77	967.77
II Annual Crops						
1	Mustard	4291.00	2000	11140	749.34	247.58
2	Groundnut	2611.00	2000	14814	47.90	27.57
3	Coconut	2804.00	100	1000	1.83	1.68
4	Castor	8000.00	100	1000	1.36	2.08
5	Telegu	14133.00	700	1000	1.71	1.71
6	Sub Total	14133	3800	14133	1.02	1.02
7	Sub Total	9699.76	3800	19748	208.49	208.49
III All Crops						
1	Apple	8000.00	100	9933	231.47	231.47
2	Sub Total	8000	100	9933	231.47	231.47
3	Mustard	4291.00	400	1432	66.11	66.11
4	Coconut	2804.00	100	814	0.44	0.44
5	Castor	2241.00	100	1254	0.17	0.17
6	Telegu	14133.00	100	814	0.17	0.17
7	Guarwood	18100.00	100	700	22.89	22.89
8	Mango	4153.90	100	814	0.24	0.24

AMARAVATHI SUB-BASIN - COUNTRY BASIS

Crop water requirement without Project - Ranked (Crop/Water)

Sl.No	Name of Crop	Area in Ha	Crop water requirement in Mm	Total Crop water requirement in Mm	Irrigation water requirement at source 80-95%	Total Irrigation requirement in Mm
I Perennial Crops						
1	Coconut	2218.87	400	11670	24.41	277.77
2	Mango	2218.87	400	5020	24.41	30.14
3	Guava	1764.00	200	3120	1900	832
4	Apple	188.11	500	600	1.08	220
5	Mango	4253.90	200	1000	5.01	5.01
6	Guava	14122	100	1000	10.38	9.11
7	Guarwood	171100	750	1700	2.81	1.41
8	Wattle Wood	18100	100	1000	0.54	0.54
9	Teak	8	100	1000	0.02	0.02
10	Other Perennials	478108	700	7000	7.12	1.11
11	Apple	1100	100	300	0.02	0.02
12	Sub Total	1142041	1444	1444	49.77	49.77
II Annual Crops						
1	Pigeonpea	4181.34	2000	11435	261.8	277.14
2	Groundnut	18134	2000	14349	12.61	47.14
3	Telegu	536.36	200	1.72	1.08	0.8
4	Telegu	428.00	200	2152	1.42	1.42
5	Telegu	100.82	400	871	1.11	1.11
6	Kokum	2.00	100	100	0.11	0.11
7	Sub Total	5819.76	3800	14133	98.44	98.44
III All Crops						
1	Apple	9614.00	100	9933	231.47	231.47
2	Sub Total	9614	100	9933	231.47	231.47
3	Mustard	4291.00	400	11019	76.12	76.12
4	Coconut	2804.00	100	3700	0.46	0.46
5	Castor	2241.00	100	1254	0.17	0.17
6	Telegu	14133.00	200	814	0.14	0.14
7	Guarwood	18100.00	100	700	0.18	0.18
8	Mango	7100	100	814	0.24	0.24

AMARAVATHI SUB-BASIN - COUNTRY BASIS

Crop water requirement without Project - Ranked (Crop/Water)

Sl.No	Name of Crop	Area in Ha	Crop water requirement in Mm	Total Crop water requirement in Mm	Irrigation water requirement at source 80-95%	Total Irrigation requirement in Mm
I Perennial Crops						
1	Coconut	2218.87	100	1000	271.27	271.27
2	Mustard	2218.87	100	300	20.74	20.74
3	Guava	1764.00	200	300	0.83	0.83
4	Apple	188.11	200	300	2.46	2.46
5	Mango	4253.90	200	1000	1.41	1.41
6	Guava	14122	200	1000	8.14	8.14
7	Guarwood	171100	200	1000	0.17	0.17
8	Wattle Wood	18100	100	1000	0.17	0.17
9	Teak	8	100	1000	0.02	0.02
10	Other Perennials	478108	100	1000	7.72	7.72
11	Apple	1100	100	1000	0.02	0.02
12	Sub Total	1142041	1444	1444	269.77	269.77
II Annual Crops						
1	Mustard	4291.00	2000	11019	267.28	267.28
2	Groundnut	18134	2000	14349	12.61	12.61
3	Telegu	536.36	200	1.72	1.08	1.08
4	Telegu	428.00	200	2152	2.03	2.03
5	Telegu	100.82	400	871	1.11	1.11
6	Kokum	2.00	100	100	0.11	0.11
7	Sub Total	5819.76	3800	14133	268.44	268.44
III All Crops						
1	Apple	9614.00	100	9933	268.44	268.44
2	Sub Total	9614	100	9933	268.44	268.44
3	Mustard	4291.00	400	11019	12.61	12.61
4	Coconut	2804.00	100	3700	0.46	0.46
5	Castor	2241.00	100	1254	0.17	0.17
6	Telegu	14133.00	200	814	0.14	0.14
7	Guarwood	18100.00	100	700	0.18	0.18
8	Mango	7100	100	814	0.24	0.24

GOVERNMENT OF TAMIL NADU

**Public Works Department
Water Resources Department**

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: ceiws wrd@gmail.com
Ph: 044-2254 2380, 2254 2674
Fax: 044-2254 2360

To

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	=	480.55	Mcm
Total Potential	=	1391.69	Mcm

Water Demand without Project

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

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
Total Potential	=	1391.69	Mcm

Water Demand with Project

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

Water Balance (With Project) = 69.86 Mcm

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



1.3 HYDRAULICS OF THE COMPONENTS



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
HYDRAULIC PARTICULARS
a) AMARAVATHI OLD CHANNEL SYSTEM

Sl. No	Name of the Channel	Length of Anicut M	Length of the Channel K.M	Discharge Cumec.	F.S.D. M	Size of Head Sluice MXM	Total Ayacut Ha	Distance From Amaravathi Dam K.M	Remarks
1	Ramakulam Channel	--	9.991	0.849	0.914	1.828x1.828	560.10	Taking off from earth dam right flank	
2	Kallapuram Channel	--	11.335	0.849	0.914	1.828 x1.828	560.10		
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 channel	Start point		End point		Length in KM	Bed width(m)	FSD (M)	Free Board(m)	Bed fall 1 in	Side slope	Velocity M / sec	MFD Cumecs
		Location	sill level	Location	sill level								
1	LEFT MAIN CANAL	Palar Porundalar dam	329.180	Melkaraipatty village, palani	322.510	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						10.800 -11.640	5.60	1.00	0.30	5280	1;1	0.52	3.18
5						11.640 -13.040	3.05	1.00	0.30	2640	1;1	0.79	3.5
6						13.040 -16.840	5.60	1.00	0.30	5280	1;1	0.52	3.2
7						16.840 -18.520	4.30	1.00	0.30	5280	1;1	0.52	2.43
8						18.520 -20.000	2.75	1.00	0.30	3960	1;1	0.53	1.72
9						20.000 -21.400	2.74	1.00	0.30	3960	1;1	0.53	1.72
10						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) HYDRAULIC PARTICULARS OF ANICUTS(system)

Palar porundalar System -Shanmuganathi minor basin- Amaravathi sub basin

Slno.	Name of Anicut	Village	Ayacut(Ha)	Length of Anicut	Crest level of anicut (M)	Front(M)	Free catchment sq.km	Combined sq.km	Maximum Flood discharge cusecs	Head sluice Location	Vent(M)	Sill level of sluice M	Discharge cusecs	Supply channel					Remarks	
														Length (m)		Bed width (m)	FSD	Bed fall (m)		Sluice
														Length	Reach					
1	Tamaraikulam anicut	Tamaraikulam	10.84	96.70	313.760	-	99.99	99.99	7914	Just left side	2 nos 1.7x0.95 m	312.425	196	1500	-	5.00	1.05	1 in 1560	1	
2	Kalayamputhur anicut	Kalayamputhur	223.40	186.50	301.820	-	279	279	13582	At LS 311M	2 nos 1.2x0.65 m	301.220	106	1945	0 to 1350	6.00	1.10	1 in 8050	11	
															1350 to 1945	4.00	1.00	1 in 3250		
3	Manur anicut	Manur	394.93	292.00	292.180	-	497.30	497.30	20942	Just Right side	3 nos 1.98x0.76 m	291.375	198	4450	0 to 1000	7.00	1.70	1 in 1800	12	
															1000 to 2000	8.00	1.10	1 in 4450		
															2000 to 3000	6.00	0.90	1 in 1310		
															3000 to 4450	6.00	1.00	1 in 1950		

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

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

Sl. No.	District	TALUK	Name of tank	AYACUT (Ha.)	CAPACITY (m.cum)		No. of filling	Free catchment in sq.km	Combined catchment in sq.km	Water Spread Area (Ha.)	FTL (m)	MWL (m)	TBL (m)	No. of sluice	Length of surplus arrangement (m)	Discharge in Cusecs	Length of bund in M	Length of supply channel (m)	Upper tanks	Lower tanks
					M.cum	M.cft														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Dindigul	Palani	PorundanKulam	51.84	0.31	10.98	—	—	—	57.94	331.950	332.550	333.450	2	Nil	Nil	1260	7000	Nil	Nil
2			Panchanhangikulam	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	Amma patti tank
5			AmmapatyKulam	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	AlanKulam	Kumara samudra 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
	5.40M weir R/F	330																		
8	Dindigul	Palani	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			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

(C) SUPPLY CHANNELS HAVING DIRECT AYACUT (System)**Palar Porundalar system - Shanmuganathi minor basin - Amaravathi sub basin**

Sno	Name of supply channel	Start point		End point		Length in M		Bed width	Bed fall	Side slope	MFD (cusecs)	Depth of flow	Remarks
		Location	Sill Level M	Location	Sill Level M	Length (M)	Reach						
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 channel	Near Kalayamputhur village (Porundalar)	301.220	Tail dam near Pethanaicken patti	301.110	1945	0 to 1350	6.00	1 in 8050	1 ; 1	111	1.10	
							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	
4	Manur anicut channel	Manur village (Shanmuganathi)	291.375	sembakulam tank @ Thumpalapatti	289.580	4450	0 to 1000	7.00	1 in 1800	1 ; 1	194	1.70	
							1000 to 2000	8.00	1 in 4450	1 ; 1	198	1.10	
							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	
5	Korikkadavu anicut	Korikkadavu village (Shanmuganathi)	280.335	Senkulam tank @ Korikkadavu village	278.585	7800	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	
							3340 to 3847	3.00	1 in 1670	1 ; 1	73	0.80	
							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	

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(A) HYDRAULIC PARTICULARS NON SYSTEM TANKS

PALAR PORUNDALAR SYSTEM IN SHANMUGANATHI MINOR BASIN - AMARAVATHI SUB BASIN

Sl. No	District	TALUK	Name of tank	AYACUT (Ha.)	CAPACITY (m.cum)		No. of filling	Free catchment in sq.km	Combined catchment in sq.km	Water Spread Area (Ha.)	FTL (m)	MWL (m)	TBL (m)	No. of sluice	Length of surplus arrangement (m)	Discharge in Cusecs	Length of bund in M	Length of supply channel (m)	Upper tanks	Lower tanks
					M.cum	M.cft														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	Dindigul	Palani	Kullappanaickenkulam	68.95	0.096	3.37	9.86	1.077	1.077	31.50	334.780	335.380	336.630	1	13m weir	361.98	1050	1500	Nil	Aranmanaipudukulam
2			BangaruSamudram	41.13	0.10	3.54	10.00	7.770	7.770	13.72	325.000	325.300	326.800	3	29.57m	316	565	-	Nil	cinnakulam
3			ChinnaKulam	77.69	0.10	3.64	12.50	1.373	2.229	15.00	319.030	319.565	320.565	2	29.26 L/F By wash	68	1125	-	cinna Ayampullitank, Bangarusamudram tank, Katteripillaikulam	Manthaiikulam
4			ManthaiKulam	92.45	0.19	6.76	6.50	1.280	4.412	21.50	312.045	312.580	313.580	2	surplus sluice nos. @ LS 880 & 1090 m R/F	38m L/F by wash	673	1090	2900	Bangarusamudram tank, Katteripillaikulam, Cinnakulam

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	Dindigul	Palani	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	Senkulam tank, pudukulam tank, Ervimangalam tank.	Nil
9			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	Nos and Length of weir (m)		Discharge in Cusecs	Length of bund (M)	Length of Supply Channel (M)	Upper Tank	Lower Tank
													Nos	Length in m					
19	Dindigul	Palani	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 ottukulam
21			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, Manthaikulam, Bangarusa mudram, katteripillai kulam, Kamasamudram
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	ThenPalani 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 Ottukulam	Shanmuganathi River
24	Dindigul	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

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	Nos and Length of weir (m)		Discharge in Cusecs	Length of bund (M)	Length of Supply Channel (M)	Upper Tank	Lower Tank
													Nos	Length in m					
25	Dindigul	Oddanchatram	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			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			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	—	—

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

SYSTEM TANKS

Sl. 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	MWL in M	No.of Sluices	Nos and Length of weir (m)		Discharge in Cusecs	Length of bund (M)	Length of Supply Channel (M)	Upper Tank	Lower Tank		
													Nos	Length in m							
1	Dindigul	Palani	Periyakulam	368.39	30.087	11.21	2.9200	2.9200	0.5440	332.350	332.800	6	4	9.00	584.54	1619	4490	Pappankulam	Idumbankulam		
2			Veerakulam	83.77	9.358	4.00	0.5780	1.1070	0.1859	329.315	329.620	2	1	3.68	611.65	747	600	Pappankulam	Idumbankulam		
3			Oomaikumarservaikarankulam	17.25	3.248	2.30	0.1713	1.2783	0.7850	328.720	329.025	2	1	0.75	158.70	1100	600	Veera-kulam	Sodappanaickenkulam		
4			Sodappanaickenkulam	21.49	2.313	3.80	0.0814	1.5440	0.0543	326.105	326.715	1	1	10.30	192.46	482	700	Oomaikumar-servaikarankulam	Idumbankulam		
5			Idumbankulam	34.99	39.763	1.00	5.2970	6.8420	0.7600	319.720	320.470	2	2	53.21	1019.19	1321	—	Periyakulam & Sodappanaickenkulam	Vaiyapurikulam		
6			Kumaranaickenkulam	44.41	8.122	2.25	0.4220	0.4220	0.1626	329.390	329.850	4	2	19.40	468.98	605	3000	Periyakulam	Devanaickenkulam		
7	Mappillainai-kenkulam	16.87	3.743	1.88	1.6640	1.6640	0.1570	327.080	327.530	4	1	7.90	253.13	990	2600	Periyakulam	Pattikulam				

8			Pappankulam	126.48	21.082	2.63	3.9630	3.9630	0.4680	337.980	338.895	3	2	44.80	2448.56	1975	6970	Ayyankulam	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	Nos and Length of weir (m)		Discharge in Cusecs	Length of bund (M)	Length of Supply Channel (M)	Upper Tank	Lower Tank
													Nos	Length in m					
9	Dindigul	Palani	Thattankulam	35.360	13.984	1.04	3.06	3.060	0.8600	319.840	320.300	3	2	47.56	609.89	791	7350	Periyakulam	Kurumbapattikulam
10			Kurumbapattikulam	28.510	7.839	1.50	2.63	5.790	0.1760	311.975	312.585	2	2	51.21	993.48	803	700	Kalikka-naickenpattikulam	Pudukulam
11			Devanaickenkulam	58.090	8.38	3.18	1.209	1.631	0.1245	325.635	325.940	1	2	2.80	417.63	652	2800	Kumara-naickenkulam	Kalikka-naickenpattikulam
12			Kalikka-naickenpattikulam	42.100	14.478	1.20	4.40	6.320	0.3465	316.770	317.610	4	2	28.62	1289.7	1260	1800	Devanaickenkulam	Pudukulam
13			Pattikulam	49.210	25.673	2.00	19.01	43.177	0.6520	317.590	318.190	2	2	49.43	2824.21	1343	2250	Pappankulam & Mappillainai-ckenkulam	Karisalkulam-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	Nos and Length of weir (m)		Discharge in Cusecs	Length of bund (M)	Length of Supply Channel (M)	Upper Tank	Lower Tank
													Nos	Length in m					
14	Dindigul	Palani	Palanipappan 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	Shanmuganathi river
15			Vaiyapurikulam	312.40	53.536	2.40	2.322	2.322	0.8662	314.000	314.730	4	1	48.75	1616.19	2380	6773	Idumban kulam	Sirunaickenkulam
16			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	—	Vaiyapurikulam	Pudukulam Pappan kulam
17			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,Kalikkanaickenpattikulam,Kurumbapat tikulam	Shanmuganathi river
18			Sinnakulam	combined	1.515	—	0.122	14.282	0.0493	300.730	301.415	1	1	48.50	1250.85	400	—	Sirunaicken kulam,Kalikkanaickenpattikulam,Kurumbapat tikulam	Shanmuganathi river

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

a) ANICUT

SI.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	Supply Channel					Remarks			
														Length (m)	Bed width (M)	FSD (M)	Bed slope	Sluice				
SYSTEM ANICUTS																						
1	Sakkilian Anicut	East Ayakudi	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 0	Right Bank	(2Nos) 1.25x1.9 2	325.09 0	25.63 0	1 to 2858	7.0 0	0.9 6	1/420	6				
														2858 to 6773	9.0 0	0.9 6	1/886					
3	Kallakadu 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	Uppuchetti Anicut	Palani	7.400	—							—											
NON - SYSTEM ANICUTS																						
1	Palar Anicut	Ayyam pulli	305.78 0	103.5 0	365.67 5									5520	3.0 0	0.6						

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

AMARAVATHI – SUB BASIN - KUDHRAIYAR SYSTEM
a) ANICUT

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	Supply Channel					Remarks
														Length (m)	Bed width (M)	FSD (M)	Bed slope	Sluice	
1	Panchant hangi	Papampatti	176.354	110.00	356.450		76.54	76.54	160.60	Left side	110.00	355.380	3.40	3250	3.00	1.07	1in1720	4	
2	Sembakulam	Pappampatti	183.700	141.50	344.430		78.57	78.57	137.70	Right side	97	343.180	38.21	4220	5.00	1.8452	1in330	-	
3	Muthukulam	Sankaramanapur	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	Kothaiammankulam	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	6.00m	.41m	1in5086	2	
5	Sankaramanallur	Sankaramanapur	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	1in2820	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	Nos and Length of weir (m)		Discharge in Cusecs	Length of bund (M)	Length of Supply Channel (M)	Upper Tank	Lower Tank
													Nos	Length					
1	Dindigul	Palani	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			Ammakulam	29.283	0.068	5.03	0.290	0.290	0.079	376.100	376.7	2	--	--	9.691	710	1500		
3			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			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	Tripur	Madathukulam	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			Ottu Kulam	--	0.042	3.1	1.23	2.345	0.066	329.755	330.755	1	1	20.1	12.114	396	--		
8			Kuyavankuttai	13.91	0.088	2	1.525	2.755	0.068	322.755	323.205	1	1	15	7.304	420	--		
9			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**

Sl. No	Name of supply channel	Start Point		End Point		Length in metres	Bed width	Bed slope	Side slope	MFD	Depth of flow	Remarks
		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

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	Vent(M)	Sill Level sluice (M)	Discharge cumecs	Supply Channel					Remarks
														Length (m)	Bed width (M)	FSD (M)	Bed slope	Sluice	
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	Veriyapurur	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	

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(Ha)	FTL in M	MWL in M	No.of Sluices	Nos and Length of weir (m)		Discharge in Cusecs	Length of bund (M)	Length of Supply Channel (M)	Upper Tank	Lower Tank
													Nos	Length in m					
1	Dindigul	Oddanchatram	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			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			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			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	Ramasamduram	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		

c) TANKS (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(Ha)	FTL in M	MWL in M	No.of Sluices	Nos and Length of weir (m)		Discharge in Cusecs	Length of bund (M)	Length of Supply Channel (M)	Upper Tank	Lower Tank
													Nos	Length in m					
1	Dindigul	Oddanchatram	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			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		

AMARAVATHI SUB BASIN
PACKAGE No:20 / ASB / NCB / 2011-12
HYDRAULIC PARTICULARS
a) ANICUT

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	Supply Channel					Remarks
														Length (m)	width (M)	FSD (M)	Bed slope	Sluice	
1.	Boothipuram	Thadi combu	62.241	104				13.540	1220		3.2			5095	1.8	0.30	1 in 100	33	
2.	Kodaganar	Agaram	13.490	204	238.900							239.685	7.073	2950	4.45	0.75	1 in	7	
3.	Venkatrama Iyyankar	Agaram	41.750	115.20	221.210				180678	210	0.9x0.75	220.515	180678	3750	1.50	0.30	1 in 2730	16	
4.	Muthankulam	Kovilur	88.596		270.870		0.445	0.445	37.610			271.820	37.610	1400	1.5-2.00	0.60	1 in 100		
5.	Paraikulam	Periya kottai	32.807		275.705	1:1		2.016				274.050	48.70	745			1 in 200		
6.	Alagar Pudukulam	Vembar patti	30.838		351.475		0.307	0.307	60.10			350.475		420	2.00	0.60	1 in 226		
7.	Thambi Naickankulam	Vembar patti	15.280	40	289.010			0.510	75.20	0	1.00x0.90	290.500	58.70	580	1.50	0.40	1 in 200		
8.	Uppukulam	Vembar patti	15.280	35	315.200				60.15	0	1.00x0.90	316.400	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	381.500	85.80	780	1.50	0.45	1 in 100		
10.	Alangulam	Veerasinnampatti	12.799	38	285.160			1.100	60.50	0	0.75x0.90	284.500	60.50	650	1.30	0.60	10in 200		
11.	Ragalapuram	Ragalapuram	36.153	42	215.500			1.250	70.50	0	1.50x0.90	216.100	70.50	470	2.00	0.50	1 in 600		
12.	Chinnaiyapilla Anicut	Pannai patti	23.752	40	292.360		1.894	1.894	40.50	0	1.50x0.90	291.160	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	1.50x0.90	261.880	60.70	1150	2.00	0.50	1 in 300		

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	Supply Channel					Remarks	
														Length (m)	width (M)	FSD (M)	Bed slope	Sluice		
	Naickenkulam																			
14.	Koolengaiyar	Maniakaran patti	38.014	60	250.150		1.400	1.400	75.80	0	1.50x0.90	251.550	75.80	1350	2.00	0.60	10in200			
15.	Emakkalapuram	Eamakkalapuram	36.777	40	310.610		1.780	1.780	80.80	0	1.50x0.90	311.810	75.50	780	2.50	0.40	1 in 200			
16.	Pungampadi	Ragalapuram	37.783	30	288.710		1.515	1.515	40.40	0	1.50x0.90	289.810	60.10	450	2.00	0.50	1 in 600			
17.	Koraikulam	Anjukulipatti	6.486	20	265.500		1.100	1.100	45.80	0		266.800	40.50	650	1.50	0.60	1 in 500			
18.	Anjukulipatti	Anjukulipatti	65.283	15.00	265.560		1.700	1.700	50.50	0	1.50x0.90	266.700	45.50	1500	2.00	0.40	1 in 100			
19.	Lingammalikulam	Thamaripadi	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		255.410	148.57	1320	5.00	0.80	1 in 989			
21.	Thethupatti	Thethupatti	62.951	30	302.990		8.32	33.220	77.50	-	0.30x0.45	296.850	2.945	2550	3.50	0.60	1 in 2500	7		
22.	Mangararai	Mangararai	48.975	15.50	273.920		15.25	15.25	260	-	0.30x0.45	272.450	3.01	1265	2.00	1.00	1 in 1330	--		
23.			743.527	590.5										29935						

b) TANKS (Non System Tanks)

Sl. No	District	Taluk	Name of Tank	Ayacut in Ha	Capacity in Mcft	Number of Fillings	Free catchment in Sq.Km	Combined Catchment in Sq.Km	Water spread area(Ha)	FTL in M	MWL in M	No.of Sluices	Nos and Length of weir (m)		Discharge in Cusecs	Length of bund (M)	Length of Supply Channel (M)	Upper Tank	Lower Tank	
													Nos	Length in m						
1.	Dindigul	Authoor	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.			Thoppampatti Aranmanai Odaikulam	60.73	0.313	2.5	-	-	10.73	32.160	32.770	2	1	34.25	-	1073	-			
4.			<u>A.Vellodu Periyakulam</u>	41.95	0.239	2.5	17.20	17.20	38.86	288.850	289.450	5	1	57.00	1765.75	1050	-			
5.			Pillaiyarnatham Rengasamudram	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 Avarampatti, Thamarikulam</u>	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>Brammasamudram, 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.			<u>Sindalakundam Thamarakulam</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>Muthanampatti tank, 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 Tank, 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 Sq.Km	Combined Catchment in Sq.Km	Water spread area(Ha)	FTL in M	MWL in M	No.of Sluices	Nos and Length of weir (m)		Discharge in Cusecs	Length of bund (M)	Length of Supply Channel (M)	Upper Tank	Lower Tank
													Nos	Length in m					
11.			<u>Kadhir Narasinga perumalkulam, 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 Kobaiyar tank, Chatrapatti</u>	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>Kathirayankulam, Palaya 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.			<u>Thethupatti Tank, 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>Chinnakobaigar Tank, Kodavali</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>Periyakobaigar Tank, Kodavali</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>Navodai tank, 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 Odai and Anaivilundan odai tank, A. Vellodu, and 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 Sq.Km	Combined Catchment in Sq.Km	Water spread area(Ha)	FTL in M	MWL in M	No.of Sluices	Nos and Length of weir (m)		Discharge in Cusecs	Length of bund (M)	Length of Supply Channel (M)	Upper Tank	Lower Tank
													Nos	Length in m					
19.		Aathoor	<u>Neelamalaikottai tank, Kariagoundan 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>Nagasamudram, 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

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	Head sluice Location	Vent(M)	Sill Level sluice (M)	Discharge cumecs	Supply Channel					Remarks
														Length (m)	width (M)	FSD (M)	Bed slope	Sluice (No.)	
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	Thamaraipadi	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 Periyasamudram	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	Thennampatti	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	Nallamanarkottai	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)

Sl. No	District	Taluk	Name of 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 Sluices	Nos and Length of weir (m)		Discharge in Cusecs	Length of bund (M)	Length of Supply Channel (M)	Upper Tank	Lower Tank
													Nos	Length in m					
1	Dindigul	Dindigul	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			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 Periyakulam</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	Muthusamban kulam	Kallar river
5		Vedasandur	<u>Padiyur Periyakulam</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	Santhana varthini river
6			<u>Kulathur Periyasamudram</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	Gulvarkulam	Veepan kulam
7			<u>Marambadi Periyakulam</u>	54.310	0.08973	3	1.467	1.467	25.37	233.655	234.105	1	1	30.00	15.04	1540	2515	Periyakulam supply channel	Thavasikulam
8			<u>Velvarkottai Periyakulam</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

Sl. No	District	Taluk	Name of 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 Sluices	Nos and Length of weir (m)		Discharge in Cusecs	Length of bund (M)	Length of Supply Channel (M)	Upper Tank	Lower Tank
													Nos	Length in m					
9			<u>Pilathu Manthai 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	Poosarikulam	Manthai kulam
10	Dindigul	Vedasandur	<u>Thenampatt y Manthai 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	Karunkulam
11			<u>Vellakonda n samudram</u>	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	Alankulam	Aruppan patti kulam
12			<u>Ramagri 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 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	-	Senkulam
14		Dindigul	<u>Sangaliank ovil odai 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	DISCHARGE	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	½ :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) HYDRAULIC PARTICULARS OF CHANNEL

Sino.	Name of Channel	Village	Ayacut(Ha)	Length of Anicut	Crest level of anicut (M)	Front(M)	Free catchment sq.km	Combined sq.km	Maximum Flood discharge cusecs	Head sluice Location	Vent(M)	Sill level of sluice M	Discharge cusecs	Supply channel					Remarks	
														Length (m)		Bed width (m)	FSD	Bed fall (m)		Sluice
														Length	Reach					
1	Kumaralingam Leading channel	Kumaralingam	560.10	-	-	-	-	-	-	-	-	-	0.849	200	-	7.00	0.914	-	-	
2	Cholamadevi Leading channel	Cholamadevi	234.72	-	-	-	-	-	-	-	-	-	0.765	906		8.00	0.73	-	-	
3	Sarkarkannadi pudur Leading channel	Sarkarkannadipudur	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

Sino.	Name of channel	Village	Ayacut(Ha)	Length of Anicut	Crest level of anicut (M)	Front(M)	Free catchment sq.km	Combined sq.km	Maximum Flood discharge cusecs	Head sluice Location	Vent(M)	Sill level of sluice M	Discharge cusecs	Supply channel					Remarks	
														Length (m)		Bed width (m)	FSD	Bed fall (m)		Sluice
														Length	Reach					
1	Thalavaipattinam leading channel	Thalavaipattinam	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	1305.95	-	-	-	-	-	-	-	-	-	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 (in m)	BED WIDTH (in M)	FSD (M)	FREE BOARD (M)	SIDE SLOPE	BED FALL	DISCHARGE CUSEC
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 EARTHEN CHANNEL

Sl.No	<u>C.S@L.S</u> in KM	EXISTING BED WIDTH (in M)	FSD DURING FLOOD (M)	FREE BOARD (M)	BED FALL	DISCHARGE CUSEC	SIDE SLOPE
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 EARTHEN CHANNEL

Sl.No	<u>C.S@L.S</u> in KM	EXISTING BED WIDTH (in M)	FSD DURING FLOOD (M)	FREE BOARD (M)	BED FALL	DISCHARGE CUSEC	SIDE SLOPE
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

Amaravathi old system- Amaravathi sub basin

Sino.	Name of Anicut	Village	Ayacut(Ha)	Length of Anicut	Crest level of anicut (M)	Front(M)	Free catchment sq.km	Combined sq.km	Maximum Flood discharge cusecs	Head sluice Location	Vent(M)	Sill level of sluice M	Discharge cusecs	Supply channel					Remarks	
														Length (m)		Bed width (m)	FSD	Bed fall (m)		Sluice
														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

(A) HYDRAULIC PARTICULARS OF ANICUTS(system)

Amaravathi old system - Amaravathi sub basin

Sino.	Name of Anicut	Village	Ayacut(Ha)	Length of Anicut	Crest level of anicut (M)	Front(M)	Free catchment sq.km	Combined sq.km	Maximum Flood discharge cusecs	Head sluice Location	Vent(M)	Sill level of sluice M	Discharge cusecs	Supply channel					Remarks	
														Length (m)		Bed width (m)	FSD	Bed fall (m)		Sluice
														Length	Reach					
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

(A) HYDRAULIC PARTICULARS OF ANICUTS(system)

Palar porundalar System -Shanmuganathi minor basin- Amaravathi sub basin

Sino.	Name of Anicut	Village	Ayacut(Ha)	Length of Anicut	Crest level of anicut (M)	Front(M)	Free catchment sq.km	Combined sq.km	Maximum Flood discharge cusecs	Head sluice Location	Vent(M)	Sill level of sluice M	Discharge cusecs	Supply channel					Remarks	
														Length (m)		Bed width (m)	FSD	Bed fall (m)		Sluice
														Length	Reach					
1	Thamaraikulam Anicut	Pudhachu	10.07	96.70	313.760	-	-	-	24000	Palar Porundalar 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

(A) HYDRAULIC PARTICULARS OF ANICUTS(Non-system)

Palar porundalar System -Shanmuganathi minor basin- Amaravathi sub basin

Sino.	Name of Anicut	Village	Ayacut(Ha)	Length of Anicut	Crest level of anicut (M)	Front(M)	Free catchment sq.km	Combined sq.km	Maximum Flood discharge cusecs	Head sluice Location	Vent(M)	Sill level of sluice M	Discharge cusecs	Supply channel					Remarks	
														Length (m)		Bed width (m)	FSD	Bed fall (m)		Sluice
														Length	Reach					
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) HYDRAULIC PARTICULARS OF ANICUTS(Non system)

Mangarai Minor Basin - Amaravathi sub basin

Sino.	Name of Anicut	Village	Ayacut(Ha)	Length of Anicut	Crest level of anicut (M)	Front(M)	Free catchment sq.km	Combined sq.km	Maximum Flood discharge cusecs	Head sluice Location	Vent(M)	Sill level of sluice M	Discharge cusecs	Supply channel					Remarks	
														Length (m)		Bed width (m)	FSD	Bed fall (m)		Sluice
														Length	Reach					
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	
2	Lakshmanampatti Anicut	Thadicombu	77.61	134.15	210.90	-	-	1505	887.00		1.20 X 0.46 and 1.20 X 2.70	210.36	-	0 to 1460	1	2.75	0.45	1 in 3000	4	
														1460 to 3910	2	3.80	0.30	1 in 3000	9	
														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) HYDRAULIC PARTICULARS OF ANICUTS(Non system)

Kodaganar Minor basin- Amaravathi sub basin

Sino.	Name of Anicut	Village	Ayacut(Ha)	Length of Anicut	Crest level of anicut (M)	Front(M)	Free catchment sq.km	Combined sq.km	Maximum Flood discharge cusecs	Head sluice Location	Vent(M)	Sill level of sluice M	Discharge cusecs	Supply channel					Remarks	
														Length (m)		Bed width (m)	FSD	Bed fall (m)		Sluice
														Length	Reach					
1	Alagarputhukulam Anicut	Vembarpatti	43.69	34.50	99.00	-	21.39	0.75	18.79	0	1.25x0.40	100.20	0.45	420	43.69	2.00	2.50	1x226	1	-
2	Thambinayakkankulam Anicut	Vembarpatti	35.57	40	218.00	-	2.25	0.639	0.467	0	1.50 x 1.00	200.100	0.35	870	1 to 870	1.50	0.50	1x300	1	-
3	UppukuAnicut	Vembarpatti	12.61	36	346.005	-	3.75	3.39	8.43	0	2.50x1.20	340.405	0.60	630	1 to 630	2.00	0.85	1x2.7	1	-
4	Avilipatti Anicut	Avilipatti	33.50	40	99.20	-	2.850	23.17	60.96	0	1.50x1.00	100.20	0.40	1320	1 to 1320	1.50	3.54	1x350	1	-
5	Alankulam Anicut	Veerachinnampatti	15.69	39	298.25	-	2.270	17.78	0.650	0	0.50 x 0.75	299.20	0.50	570	1 to 570	1.20	1.125	1x45	1	-
6	Ragalapuram Anicut	Ragalapuram	37.02	38.50	263.05	-	3.89	16.95	0.705	0	1.5 x 1	264.550	0.45	650	1 to 650	2.10	1.50	1x450	1	-
7	Rajakkapatti Anicut	Rajakkapatti	23.67	40	243.925	-	2.35	15.49	0.755	0	1.50 x 0.75	245.12	0.30	480	1 to 480	2.50	1.40	1 x 35	1	-

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	DISCHARGE (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

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

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) HYDRAULIC PARTICULARS OF ANICUTS(Non system)

Kodaganar Minor basin- Amaravathi sub basin

Sino.	Name of Anicut	Village	Ayacut(Ha)	Length of Anicut	Crest level of anicut (M)	Front(M)	Free catchment sq.km	Combined sq.km	Maximum Flood discharge cusecs	Head sluice Location	Vent(M)	Sill level of sluice M	Discharge cusecs	Supply channel					Remarks	
														Length (m)		Bed width (m)	FSD	Bed fall (m)		Sluice
														Length	Reach					
1	Alagarputhukulam Anicut	Vembarpatti	43.69	34.50	99.00	-	21.39	0.75	18.79	0	1.25x0.40	100.20	0.45	420	43.69	2.00	2.50	1x226	1	-
2	Thambinayakkankulam Anicut	Vembarpatti	35.57	40	218.00	-	2.25	0.639	0.467	0	1.50 x 1.00	200.100	0.35	870	1 to 870	1.50	0.50	1x300	1	-
3	UppukuAnicut	Vembarpatti	12.61	36	346.005	-	3.75	3.39	8.43	0	2.50x1.20	340.405	0.60	630	1 to 630	2.00	0.85	1x2.7	1	-
4	Avilipatti Anicut	Avilipatti	33.50	40	99.20	-	2.850	23.17	60.96	0	1.50x1.00	100.20	0.40	1320	1 to 1320	1.50	3.54	1x350	1	-
5	Alankulam Anicut	Veerachinnampatti	15.69	39	298.25	-	2.270	17.78	0.650	0	0.50 x 0.75	299.20	0.50	570	1 to 570	1.20	1.125	1x45	1	-
6	Ragalapuram Anicut	Ragalapuram	37.02	38.50	263.05	-	3.89	16.95	0.705	0	1.5 x 1	264.550	0.45	650	1 to 650	2.10	1.50	1x450	1	-
7	Rajakkapatti Anicut	Rajakkapatti	23.67	40	243.925	-	2.35	15.49	0.755	0	1.50 x 0.75	245.12	0.30	480	1 to 480	2.50	1.40	1 x 35	1	-



1.4 PARTICIPATORY IRRIGATION MANAGEMENT (PIM)



**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 irrigation facilities for double crop paddy. Amaravathi Old channel, Amaravathi main canal, 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 IAMWARM project covering 20 Blocks and 143 villages in Tiruppur Karur and Dindigul Districts	193 Nos. (53334.22 Ha)

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 reprecntatives and farmers in the sub basin area and awareness has been created about various activities, under IAMWARM project .
- ii. 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 organization (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.
- ii. Appointment of competent Authorities for the the WUAs formed under IAMWARM, project is based on the ' WRO Section officer wise ' distribution as listed below:

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

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

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

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 finalised.
- 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

- i. 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 area, 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 them to improve the crop productivity and thereby 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. No	Name of Irrigation System	Ayacut Area in Ha	Location of command area			Coverage of Command area Under Different Projects		Status of formation of WUA in the subbasin under IAMWARM PROJECT
			VILLAGE	TALUK	DISTRICT	WRCP	IAMWARM	
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 KOMARALINGAM	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 II	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 ,SOMUR	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 HIR	515.975	Perumalputhur	Madathuk ulam	Tiruppur	Nil	515.975	To be Formed
23	AMC - SAMARAPATT I	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

34	AMC - 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	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	VKO - LAKKAMANA NICKENPATTI	2454.66	Uthamapalayam Lakkamanaickenpa tti Pudupai	Dharapura m Kangeyam	Tiruppur	Nil	2454.66	To be Formed

50	NTO - ALAMPALAYAM	1920.64	Punnivadi, Nallampalayam, Alampalayam Thermiyam, Thumbivadi Moolanur	Dharapuram	Tiruppur	sNil	1920.64	To be Formed
51	Uppar Right flank canal	1015.78	Kethalrew Thoppampatti Varapalayam Madathukulam Puthur Nanjiyampalayam	Dharapuram	Tiruppur	Nil	1015.78	To be Formed
52	Uppar Left flank canal	1436.66	Valayuthapalayal Kethalrew Suriyanalur Kannankovil Sankarandapalayam Thoppampatti	Dharapuram	Tiruppur	Nil	1436.6	To be Formed
53	UDAYARKULAM KAMMAI	35.36	Alampalayam	Dharapuram	Tiruppur	Nil	35.36	To be Formed
54	KONGUR IDACHIKULAM	48.56	Kongur	Dharapuram	Tiruppur	Nil	48.56	To be Formed
55	KATHUSAMY PALAYAM	63.55	Punjathalaiyur	Dharapuram	Tiruppur	Nil	63.55	To be Formed
56	PorundanKulam	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	Ammapattykulam	383	Periammapatty	Palani	Dindigul	Nil	383	To be formed
61	Kumarasamudram	0	Periammapatty	Palani	Dindigul	Nil	0	To be formed
62	ThamaraiKulam	331.85	ThamaraiKulam	Palani	Dindigul	Nil	331.85	To be formed
63	SembaKulam	64.16	Thumbalapatty	Thoppampatti	Dindigul	Nil	64.16	To be formed
64	SenKulam	109.78	Korrikudavu	Thoppampatti	Dindigul	Nil	109.78	To be formed
65	AlanKulam	358.6	Keeranur	Thoppampatti	Dindigul	Nil	358.6	To be formed
66	Kullappanaickenkulam	68.95	Balasamudram	Palani	Dindigul	Nil	68.95	To be formed
67	Bangarusamudram	41.13	Balasamudram	Palani	Dindigul	Nil	41.13	To be formed
68	ChinnaKulam	77.69	Balasamudram	Palani	Dindigul	Nil	77.69	To be formed
69	ManthaiKulam	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	Eravimangalam tank	244.2	Eravimangalam	Palani	Dindigul	Nil	244.2	To be formed
72	SenKulam	164.2	A.Kalayamputhur	Palani	Dindigul	Nil	164.2	To be formed
73	OdayaKulam	119.07	A.Kalayamputhur	Palani	Dindigul	Nil	119.07	To be formed
74	AthikaraiKulam	64.66	A.Kalayamputhur	Palani	Dindigul	Nil	64.66	To be formed
75	Sakkarai Kavundankulam	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	ThamaraiKulam Anicut Channel		ThamaraiKulam	Palani	Dindigul	Nil		To be formed
79	Kalayamputhur 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	Thoppampatti	Dindigul	Nil	191.44	To be formed
82	Manur Extension Channel	202	Thumbalapatty	Thoppampatti	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	Chinnakalayamputhur,	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	Sukkamanaickenpatti	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,	Thoppampatti	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	1439.89	Kolumakondan, Korikkadavu, Kovilammappatti & Melkaraipatti	Thoppamp atti	Dindigul	Nil	1439.89	To be formed
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 Ayyampullikulam	50	Ayyampulli	Palani	Dindigul	Nil	50	To be formed
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
117	Pappan channel	274.6	East Ayakudi	Palani	Dindigul	Nil	274.6	To be formed
118	Periyavoikkal channel	195.28	East Ayakudi	Palani	Dindigul	Nil	195.28	To be formed
119	Kothai Anicut Channel	155.94	Palani	Palani	Dindigul	Nil	155.94	To be formed
120	Kallakadu Anicut channel Uppuchetty Anicut channel	81.54	Palani	Palani	Dindigul	Nil	81.54	To be formed
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
122	Panchanhangikulam	136.83	Panchanhangikulam	Reddiampadi	Dindigul	Nil	136.83	To be formed
123	Sembakulam	18.72	Ayyampalayam	Palani	Dindigul	Nil	18.72	To be formed
124	Muthukulam	112.02	Sangaramanallur	Madathukulam	Tiruppur	Nil	112.02	To be formed
124	Ottukulam	0	Sangaramanallur	Madathukulam	Tiruppur	Nil	0	To be formed
124	Kuyavankuttai kulam	13.91	Sangaramanallur	Madathukulam	Tiruppur	Nil	13.91	To be formed
125	Kothaiamma nkulam	155.96	Kolumum	Madathukulam	Tiruppur	Nil	155.96	To be formed
126	Kudhiraiyar RMC @LS 0-3200M	187.805	Andipatti	Palani	Dindigul	Nil	187.805	To be formed
127	Kudhiraiya RMC @LS 3200- 3976	514.285	Chitharevu	Palani	Dindigul	Nil	514.285	To be formed
128	Kudhiraiya RMC @LS 3976 - 6870	329.095	Papampatti	Palani	Dindigul	Nil	329.095	To be formed
129	Kudhiraiya RMC @LS 6870- Tail Dam	284.61	Kavalapatti	Palani	Dindigul	Nil	284.61	To be formed
130	Perumalkulam	102.12	Virupatchi	Ottanchattiram	Dindigul	Nil	102.12	To be formed

131	Senkulam	46.02	veirappur	Ottanchattiram	Dindigul	Nil	46.02	To be formed
132	Ramasamuthiram	40.97	veirappur	Ottanchattiram	Dindigul	Nil	40.97	To be formed
133	Muthuboopala Sumudram	44.52	Dasaripatti	Ottanchattiram	Dindigul	Nil	44.52	To be formed
134	Sadayakulam	219.40	Thangachiammapatti	Ottanchattiram	Dindigul	Nil	219.40	To be formed
135	Javathupatti Periyakulam	46.29	Javathupatti	Ottanchattiram	Dindigul	Nil	46.29	To be formed
136	Kaveriyammappatti periyakulam	43.20	Kaveryammappatti	Ottanchattiram	Dindigul	Nil	43.20	To be formed
137	Kollapatti Tank	87.04	Kollapatti	Ottanchattiram	Dindigul	Nil	87.04	To be formed
138	Navakani Tank	111.74	Navakani	Ottanchattiram	Dindigul	Nil	111.74	To be formed
139	Udiyakulam	65.92	Dhasaripatti	Ottanchattiram	Dindigul	Nil	65.92	To be formed
140	Appasamudram	7.81	Idayakottai	Ottanchattiram	Dindigul	Nil	7.81	To be formed
141	Perumalkulam supply channel	51.93	Viurpatchi	Ottanchattiram	Dindigul	Nil	51.93	To be formed
142	Ramasamudram supply channel	9.35	veirappur	Ottanchattiram	Dindigul	Nil	9.35	To be formed
143	Javathupatti anicut channel	117.41	Javathupatti	Ottanchattiram	Dindigul	Nil	117.41	To be formed
144	Varadhagan anicut channel	7.81	Idayakottai	Ottanchattiram	Dindigul	Nil	7.81	To be formed
145	Koraiyouthu anicut channel	107.29	Senthamangalam	Aravakurichi	Karur	Nil	107.29	To be formed
146	Ottanai anicut channel	53.80	Pallapatti	Aravakurichi	Karur	Nil	53.80	To be formed
147	Aravakuruchi anicut channel	38.66	Aravakuruchi	Aravakurichi	Karur	Nil	38.66	To be formed
148	Nanganjiyar chennel Edayakottai	623.22	Edayakottai	Ottanchattiram	Dindigul	Nil	623.22	To be formed
149	Nanganjiyar chennel Chinnakkampatti	155.8	Chinnakkampatti	Ottanchattiram	Dindigul	Nil	155.8	To be formed
150	Nanganjiyar chennel Valayapatti	279.23	Valayapatti	Ottanchattiram	Dindigul	Nil	279.23	To be formed
151	Nanganjiyar chennel Senthamangalam	1471.034	Senthamangalam	Aravakurichi	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 imanthaikulam	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	Sannarpatti	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 Thamarikulam	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	Muthanampatti 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	Kadirayankulam 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	Chinnakombaiyar tank	83.77	Kodalvavi	Reddiyar Chattiram	Dindigul	Nil	83.77	To be formed
181	Periyakombaiyar 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	Ramakalodai & Anaivilundai tank	107.69	A.Vellodu & Keelakottai	Reddiyar Chattiram	Dindigul	Nil	107.69	To be formed
184	Neelamalaikottai tank	74.85	Kariyagoundanpatti	Reddiyar Chattiram	Dindigul	Nil	74.85	To be formed
185	Nagasamudram	51.55	Pallapatti	Dindigul	Dindigul	Nil	51.55	To be formed
186	Kodaganar Dam LMC Kalvarpatti	175.23	Kalvarpatti	Vadasandur	Dindigul	Nil	175.23	To be formed
187	Kodaganar Dam RMC Palapatti	385.68	Palapatti	Vadasandur	Dindigul	Nil	385.68	To be formed
188	Kodaganar Dam RMC Koombur	295.03	Koombur	Vadasandur	Dindigul	Nil	295.03	To be formed
189	Kodaganar Dam RMC R.Vellodu	140.24	R.Vellodu	Vadasandur	Dindigul	Nil	140.24	To be formed
190	Kodaganar Dam RMC Thirukkornam	489.31	Thirukkornam	Vadasandur	Dindigul	Nil	489.31	To be formed
191	Kodaganar Dam LMC Periyamanjuveli	445.61	Periyamanjuveli	Aravakurichi	Karur	Nil	445.61	To be formed
192	Kodaganar Dam RMC Esanatham	1047.66	Esanatham	Aravakurichi	Karur	Nil	1047.66	To be formed
193	Kodaganar Dam RMC Ammapatti	666.58	Varakkapatti	Aravakurichi	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

9	03.10.12	Thamaraikulam and Thadakulam	<ul style="list-style-type: none"> • 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. 	All proposals are accepted								<ul style="list-style-type: none"> • 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 style="list-style-type: none"> • Rehabilitation of Left out, Non system tanks, Anicuts. • Reconstruction of Tank sluices, sluice barrels. • Cross masonry works 	All proposals are accepted								<ul style="list-style-type: none"> • Rehabilitation of Left out, Non system tanks, Anicuts. • Reconstruction of Tank sluices, sluice barrels. <p>Cross masonry works</p>						
11	04.10.12	Neelamalaikottai, Dharmathupatti, Thadicombu and Boothipuram	<ul style="list-style-type: none"> • Rehabilitation of damaged anicuts • Rehabilitation of Flood protection wall. 	All proposals are accepted								<ul style="list-style-type: none"> • Rehabilitation of damaged anicuts • Rehabilitation of Flood protection wall. 						
12	04.10.12 05.10.12	Vemparpatty	<ul style="list-style-type: none"> • Rehabilitation of damaged anicuts • Rehabilitation of Flood protection 	All proposals are accepted								<ul style="list-style-type: none"> • Rehabilitation of damaged anicuts 						

WALK THROUGH SURVEY AT ALANGIAM CHANNAL
ON
NEELAMALAIKOTTAI TANK SURPLUS CHANAL
DROP



NEELAMALAI KOTTAI TANK SURPLUS CHANNEL DROP



Bhoothipuram Anicut Across Kodaganar River



ALAGARPUDUKULAM



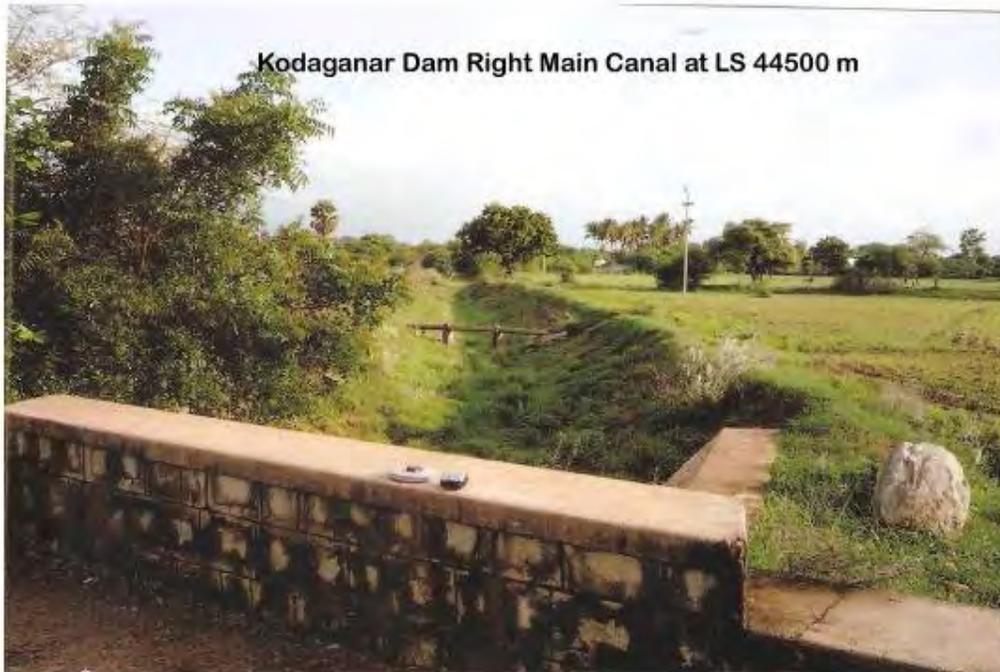
KANNAN DHANAPAL THOTTAM



Kodaganar Dam Right Main Canal at LS 40500 m

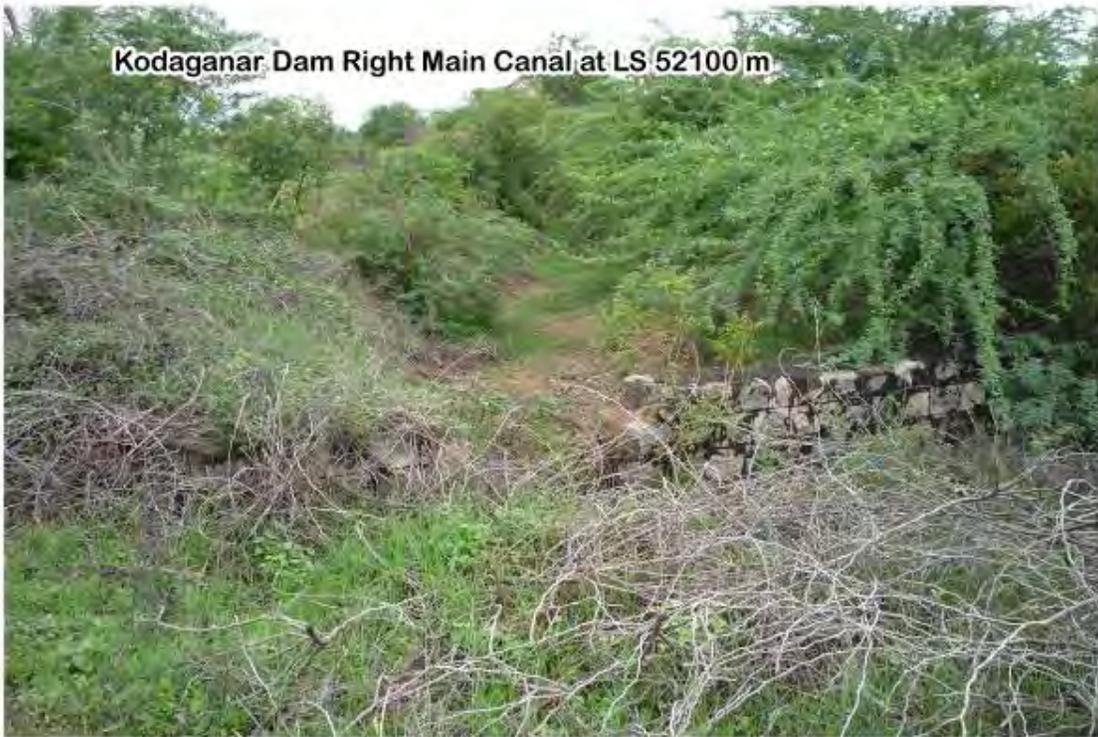


Kodaganar Dam Right Main Canal at LS 44500 m





Kodaganar Dam Right Main Canal at LS 49100 m



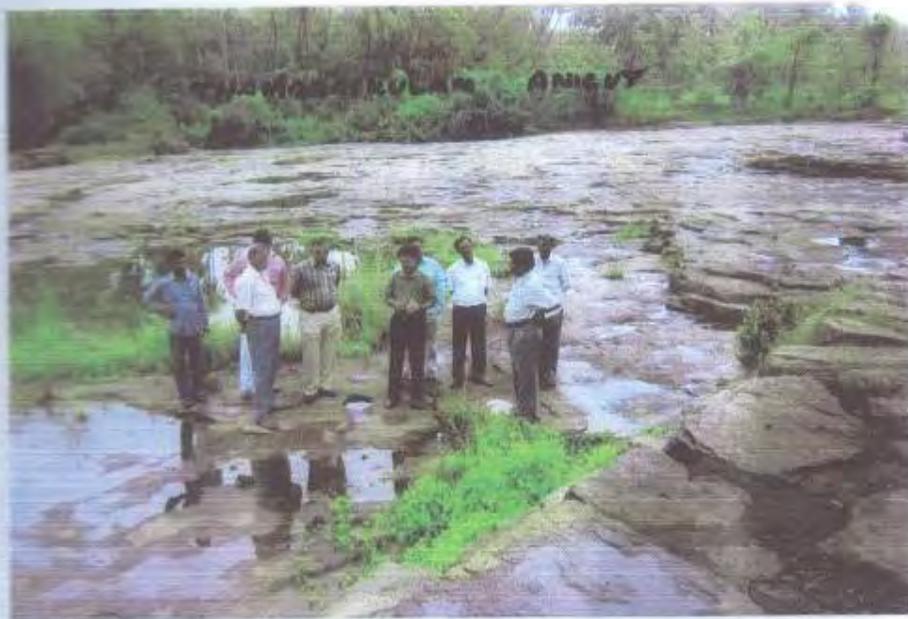
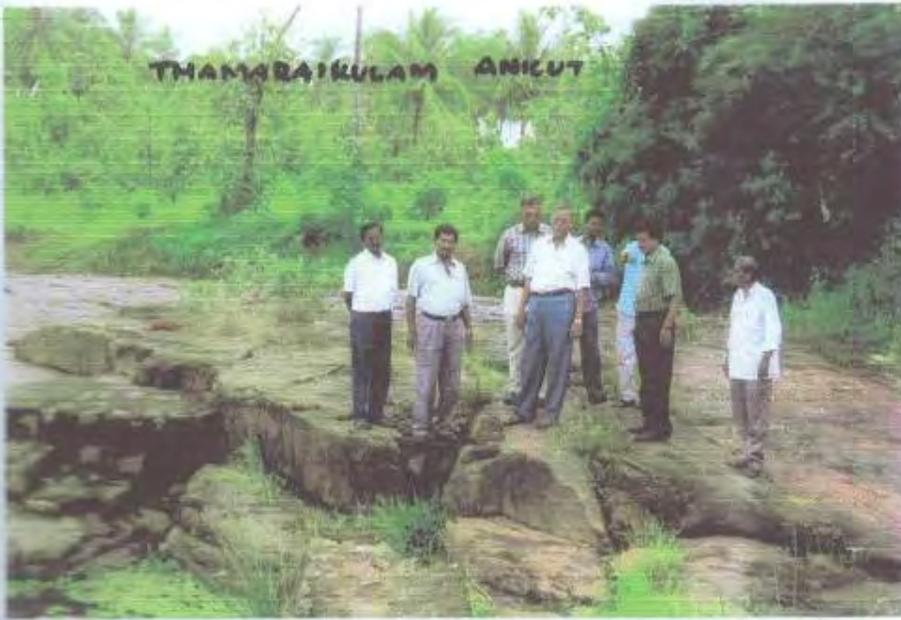
Kodaganar Dam Right Main Canal at LS 52100 m

THADAKULAM CHANNEL



THADAKULAM CHANNEL





PROPOSED CAUSEWAY SITE
U/S OF SANGARAMANALLUR
TANK



KARONGULAM SANDI (PARTIMYOR)
SLUICE - RECONSTRUCTION.



WALK THROUGH SURVEY AT AMARAVATHI OLD ANICUT
ON
NANJAITHALIYUR ANICUT



WALK THROUGH SURVEY AT NALLATHANGAL MAIN CANAL

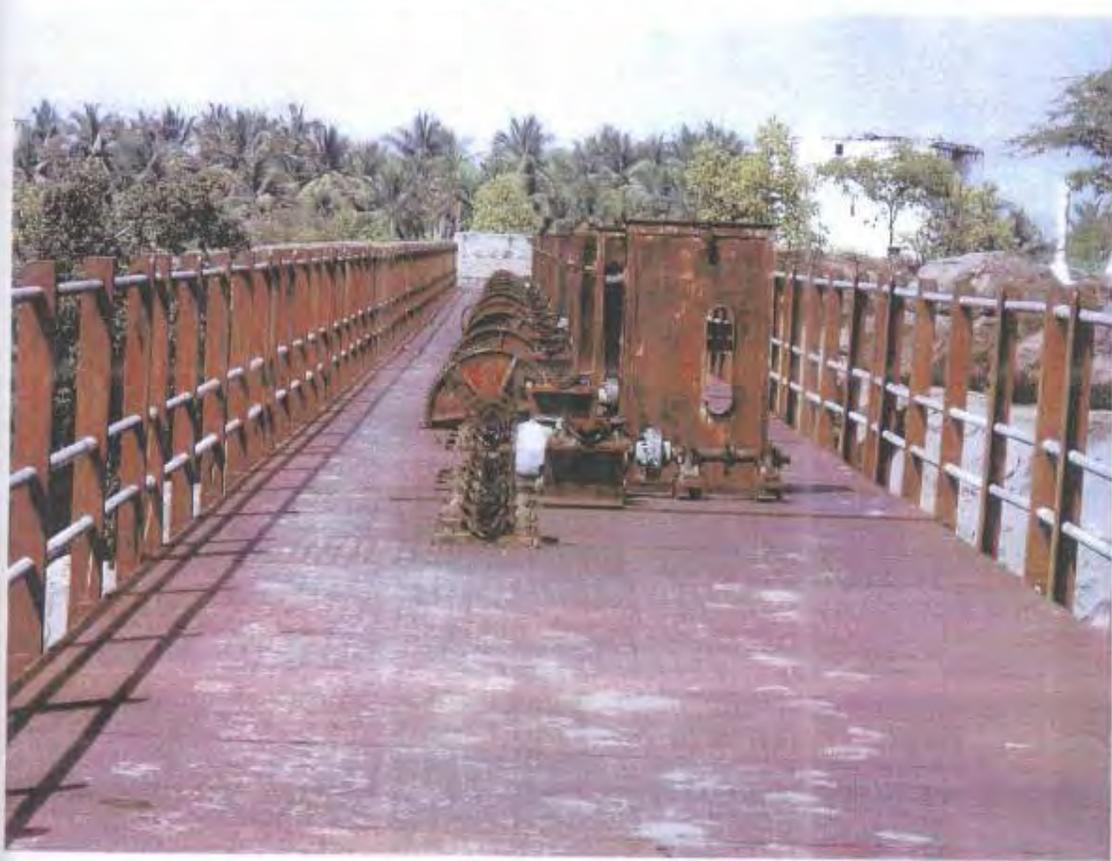


NALLATHANGAL ODAI RESERVOIR MAIN CANAL AT L.S.900 MT



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

Damaged Hoisting Arrangements Of Chettipalayam Anicut



Damaged Vertical Stiffeners Of Lift Gates



Damaged Vertical Lift Gates Of Chettipalayam Anicut





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 SARKAR KANNADIPUTHUR LEADING CHANNEL

SOLAMADEVI,



DAMAGED SURPLUS PORTIONS IN SOLAMADEVI LEADING CHANNEL



PROPOSED RETAINING WALL PORTION IN DHARAPURAM LEADING CHANNEL



DAMAGED RETAINING WALL PORTION IN DHARAPURAM LEADING CHANNEL



DAMAGED SYPHON AT LS 23658 M IN AMARAVATHI MAIN CANAL



DAMAGED SYPHON AT LS.22933M IN AMARAVATHI
MAIN CANAL



1.5 IRRIGATION INFRASTRUCTURE



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

Sl. 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. NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT HA	NOS	SUPPLY CHANNEL IN KM	AYACUT HA	NOS	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 works under 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.

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

REHABILITATION OF T ANK 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	
	2	3476	45.48			2	24.90	1	9.86			2	0.60	80.84

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

Statement II- C

REHABILITATION OF ANICUTS & SUPPLY CHANNEL

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 Channel		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

Statement I

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

3a)	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

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

REHABILITATION OF T ANK 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	
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

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 of tanks	Desilting of irrigation channel		Lining of irrigation channel		Repairs to Drops, siphon cistern		Repairs to culvert aqueduct etc.,		Shutter Renewal		Total
		Length m	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
1												
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.	Reconstruction of anicut		Repairs to Anicut		Shutter Renewal		Supply Channel/ Retaining 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- 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 of irrigation channel		Lining of irrigation channel		Repairs to Drops, siphon cistern		Repairs to culvert aqueduct, outlet etc.,		Shutter Renewal		Total
		Length	Amount	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 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- 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	Desilting of irrigation channel		Lining of irrigation channel		Repairs to Drops, syphon cistern		Repairs to culvert aqueduct etc.,		Shutter Renewal		Total
		Length	Amount	No	Amount	No	Amount	No	Amount	No	Amount	
1	Thalavaipattinam 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

REHABILITATION OF SUPPLY CHANNEL

SI.NO	Name of Anicut/Supply Channel	Reconstruction of anicut		Repairs to Anicut		Shutter Renewal		Supply Channel		Total
		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 : 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

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- 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 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	
1	Nallathangalodai Reservoir	50315 M	297070	2	42805043	-	-	15	577235	-	-	43679348

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”.

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

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

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.

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	Reconstruction of anicut		Repairs to Anicut		Shutter Renewal		Supply Channel		Total
		No	Amount	No	Amount	No	Amount	Length in m	Amount	
1	Dharapuram channel -reach -1							3500	46887195	46887195

Statement - I
Rehabilitation of Leftout works in Amaravathi Sub Basin (Leftout Works)

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.

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

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

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-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)

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

Statement - I

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.

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

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: 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)

REHABILITATION OF T ANK 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								

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	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	
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.

PACKAGE 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		Repairs to Anicut		Shutter Renewal		Supply Channel		Total
		No	Amount	No	Amount	No	Amount	Length in m	Amount	
1	Dharapuram channel -reach -3							2000	29253100	29253100

Statement - I

Rehabilitation of Leftout works in Amaravathi Sub Basin (Leftout Works)

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

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

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

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		Repairs to Anicut		Shutter Renewal		Supply Channel		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

Package No: 08/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- B
REHABILITATION OF IRRIGATION CHANNELS

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	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	
1		-	-	-	NIL	-	-	-	-	-	-	-

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.

Package No: 09/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
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

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,

Statement II- B
REHABILITATION OF IRRIGATION CHANNELS

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	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	
1		-	-	-	NIL	-	-	-	-	-	-	-

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

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	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 require rehabilitation now.	2	2	-
4	Total No. of infrastructures requiring rehabilitation now.	2	2	-

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)

REHABILITATION OF T ANK WORKS

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

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**

Name of Sub basin : Amaravathi Sub Basin

Sl.NO	Name of Anicut/Supply Channel	Reconstruction of anicut		Repairs to Anicut		Shutter Renewal		Supply Channel		Total
		No	Amount	No	Amount	No	Amount	Length in m	Amount	Amount
1	Karungulam Anicut (Parithiyur)	-	-	1	8.49	-	-	-	-	8.49
2	Karisalkulam Anicut (Porulur)	-	-	1	4.38	-	-	-	-	4.38
	Total			2	12.87					12.87

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.

Package No: 11/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	-	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	-

- 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- B
REHABILITATION OF IRRIGATION CHANNELS

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	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	
1		-	-	-	NIL	-	-	-	-	-	-	-

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- B
REHABILITATION OF IRRIGATION CHANNELS

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	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	
1		-	-	-	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

Sl.NO	Name of Anicut/Supply Channel	Reconstruction of anicut		Repairs to Anicut		Shutter Renewal		Supply Channel / Retaining wall		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.

Package No: 13/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	
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- B
REHABILITATION OF IRRIGATION CHANNELS

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	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	
1		-	-	-	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

Sl.NO	Name of Anicut/Supply Channel	Reconstruction of anicut		Repairs to Anicut		Shutter Renewal		Supply Channel		Total
		No	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- B
REHABILITATION OF IRRIGATION 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**

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

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	
1	RMC OF KODAGANAR RESERVOIR LS 26500 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

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

SL NO	Name of Anicut/ Supply Channel	Reconstruction of anicut		Repairs to Anicut		Repairs to Head Sluice		Shutter Renewal		Supply Channel		Total
		No	Amount	No	Amount	No	Amount	No	Amount	Length in M	Amount	
1		-	-	-	-		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.

Package No: 15/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.	-	-	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.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- B
REHABILITATION OF IRRIGATION CHANNELS

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	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	
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

Sl.NO	Name of Anicut/Supply Channel	Reconstruction of anicut		Repairs to Anicut		Shutter Renewal		Supply Channel		Total
		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 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
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.	-	-	-
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- 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	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	
1		-	-	-	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

Sl.NO	Name of Anicut/Supply Channel	Reconstruction of anicut		Repairs to Anicut		Shutter Renewal		Supply Channel		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

Statement I

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

Name of Work : Construction of Protection wall in Santhanavarthini 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
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	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.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- B
REHABILITATION OF IRRIGATION CHANNELS

Name of Work : Construction of Protection 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	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	
1		-	-	-	NIL	-	-	-	-	-	-	-

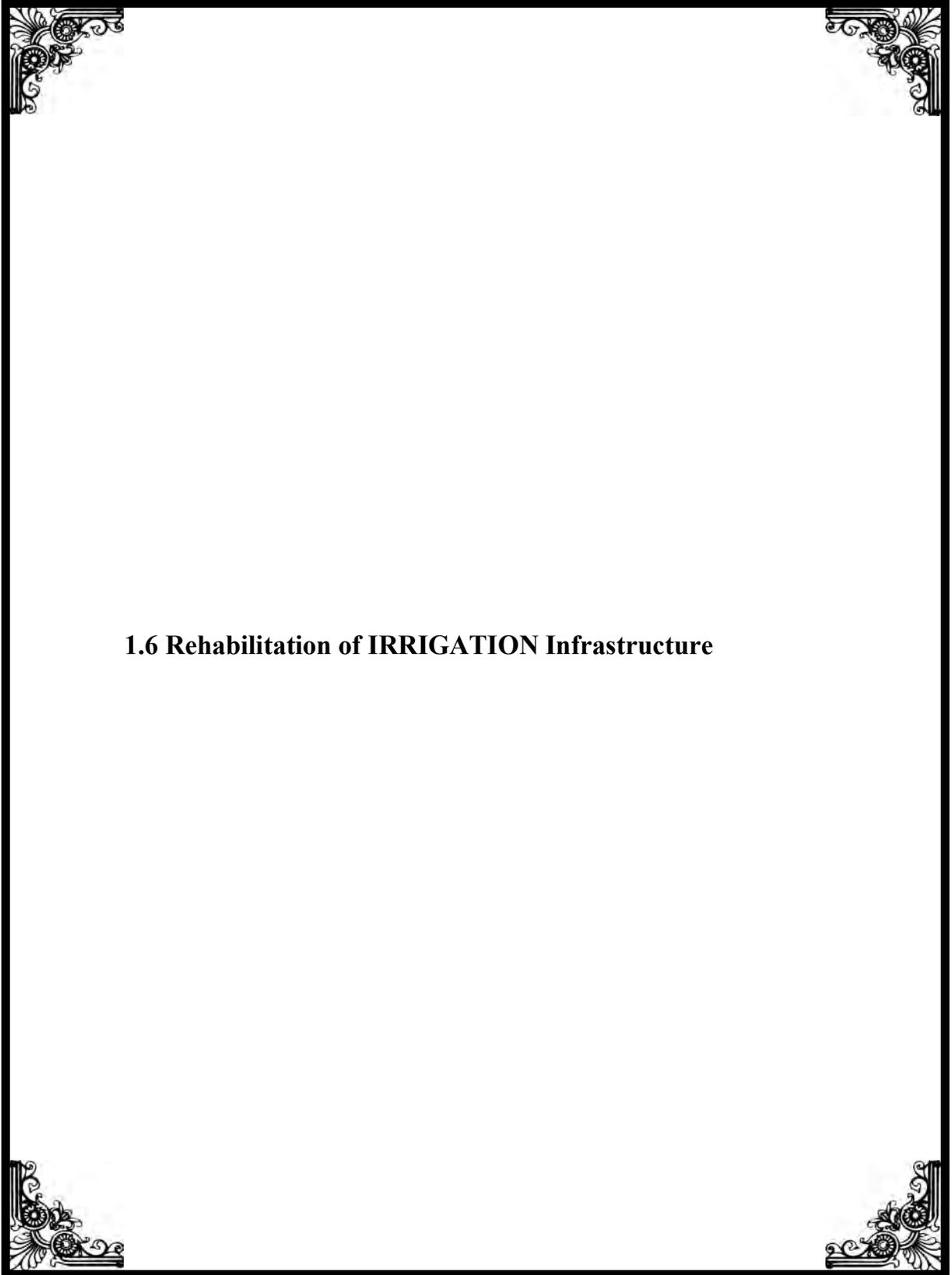
Statement II- C

Name of Work : Construction of Protection 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

Sl.NO	Name of Anicut/Supply Channel	Reconstruction of anicut		Repairs to Anicut		Shutter Renewal		Supply Channel / Retaining wall (River)		Total
		No	Amount	No	Amount	No	Amount	Length in m	Amount	
1	Kannandhanapal Thottam (LS 5350m to 5380m)							30	44.76	44.76
2	Hock Thottam (LS 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



1.6 Rehabilitation of IRRIGATION Infrastructure

REHABILITATION OF IRRIGATION INFRASTRUCTURE OF THE AMARAVATHI SUB-BASIN

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 earthen 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 selective reaches which are also damaged at present. Owing 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
3. 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.

TANK DETAILS WITH FREE BOARD PARTICULARS
Package No. 1

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

TANK DETAILS WITH FREE BOARD PARTICULARS
Package No. 2

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

TANK DETAILS WITH FREE BOARD PARTICULARS
Package No. 3

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

TANK DETAILS WITH FREE BOARD PARTICULARS
Package No. 4

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

TANK DETAILS WITH FREE BOARD PARTICULARS
Package No. 5

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

TANK DETAILS WITH FREE BOARD PARTICULARS
Package No. 6

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

TANK DETAILS WITH FREE BOARD PARTICULARS
Package No. 7

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

TANK DETAILS WITH FREE BOARD PARTICULARS
Package No. 8

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

TANK DETAILS WITH FREE BOARD PARTICULARS
Package No. 9

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

TANK DETAILS WITH FREE BOARD PARTICULARS
Package No. 10

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

TANK DETAILS WITH FREE BOARD PARTICULARS
Package No. 11

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

TANK DETAILS WITH FREE BOARD PARTICULARS
Package No. 12

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

TANK DETAILS WITH FREE BOARD PARTICULARS
Package No. 13

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

TANK DETAILS WITH FREE BOARD PARTICULARS
Package No. 14

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

TANK DETAILS WITH FREE BOARD PARTICULARS
Package No. 15

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

TANK DETAILS WITH FREE BOARD PARTICULARS
Package No.16

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

TANK DETAILS WITH FREE BOARD PARTICULARS
Package No. 17

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

PACKAGES PROPOSED IN AMARAVATHI SUB BASIN

PHASE-IV STAGE-II

Pakage 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 Varadhanadhi non system, construction 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

	of Amaravathi Sub Basin in Oddanchatram, Athur, Vedasandur and Dindigul Taluks of Dindigul District.	
12	Rehabilitation of Alagarpudukulam Anicut and Protection walls in Santhanavarthini river in Vemparpatty Village of Dindugal Taluk of Dindugal District.	560.00
13	Rehabilitation of Kattankulam anicut and Protection walls in Santhanavarthini river in Avilipatty Village of Dindugal Taluk of Dindugal District.	540.00
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
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
16	Construction of Check Dam across Amaravathi River near Dharapuram Town of Dharapuram Taluk of Tiruppur District.	691.25
17	Construction of Protection wall in santhanavarthani River in Vamparpatty , Avilipatty, Veerachinnapatty Village of Dhindugal Taluk of Dhindugal District.	581.00
	Total	6001.75

Details of Proposals in each infrastructure – Phase-IV Stage-I

Sl No	Package No	Lining of Main canal/ Distributary		Tank bund / Canal bund/ Jeep Track		Repairs to Cross Masonry works		Repairs to Sluice/ Shutters		Weir Repair		Anicut		Supply channel		Retaining wall		Measuring Devises		Sub - Total	L.S. Provision at 2.80 %	Total
		L (km)	A(La)	L (km)	A(La)			Nos	A(La)	Nos	A(La)	L (km)	A(La)	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	-	-	-	-	-	-	-	-	-	-	1063.54	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	364.30	-	-	-	16.28	601
8	Package No.8 / ASB /NCB/ 2011-12	-	-	31.61	55.74	-	-	212	169.6	-	-	-	-	-	-	1.316	163.66	-	-	-	11.00	400
9	Package No.9 / ASB /NCB/ 2011-12	-	-	35.36	43.87			325	276.25					21.215	6.13	2.550	252.54			578.79	16.21	595
10	Package No.10 / ASB /NCB/ 2011-12	-	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
			Non Tank	27.963	46.21			25	20.80	67.10	82.43					2.250	244.97	394.41				
11	Package No11 / ASB /NCB/ 2011-12	-	-	29.70	33.00			21	16.10					14.7	3.41	4.05	434.01			486.42	13.58	500

Sl No	Package No	Lining of Main canal/ Distributary		Tank bund / Canal bund/ Jeep Track		Repairs to Cross Masonry works		Repairs to Sluice/ Shutters		Weir		Anicut		Supply channel		Retaining wall		Measuring Devises		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	1625.94	-	-	-	1669.57	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	27.48	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	22.99	2	70.18	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	27.31	2	47.90	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	45.60	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	53.08	-	-	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	11.95	-	-	15.365	76.37	-	-	37	4.24	525.74	14.26	540		
22	Package No22 / ASB /NCB/ 2011-12	14.39 Km	142.81	13.50Km	13.40	34 Nos	28.90	13 Nos	8.34	-	-	-	-	-	-	-	-	-	-	193.45	4.55	198		
														Total										12795

Details of Proposals in each infrastructure – Phase-IV Stage-II

Sl No	Package No	Lining of Main canal/ Distributary		Tank bund / Canal bund/ Jeep Track		Repairs to Cross Masonry works		Repairs to Sluice/ Shutters		Weir Repair		Anicut		Supply channel		Retaining wall		Measuring Devises		Sub - Total	L.S. Provision at 2.80 %	Total
		L (km)	A(La)	L (km)	A(La)			Nos	A(La)	Nos	A(La)	L (km)	A(La)	L (km)	A(La)	L (km)	A(La)					
1	01/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13	-	-	2.184	9.08	-	-	-	-	-	-	-	-	0.898	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 / WORKS / IV / Stage-II / 2012- 13	-	-	-	-	-	-	-	-	-	-	1	22.27	7.060	559.89	-	-	-	582.16	15.84	598.00	
10	10/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012- 13			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	
11	11/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012- 13											4	137.30			0.10	51.00		188.30	4.7	193.00	
12	12/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012- 13											1	25.00			0.40	520.63		545.63	14.37	560.00	
13	13/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012- 13											1	350.54			0.12 5	175.27		525.81	14.18	540.00	
14	14/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012- 13	-	-	27.015	18.55	10	0.92	-	-	-	-	-	-	-	-	0.23	59.11	-	-	78.58	2.42	81.00
15	15/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13					5	151.69												151.69	3.31	155.00	

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

Package 1 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

A. Details of proposals in each Infrastructure of the sub basin

COST ANALYSIS

Sl no	Name of tank/Anicut/Reservoir	Bund		Sluice				weir				Repairs to Anicut		Supply channel		Measuring Devices		Amt in Lakhs	
		Length	Amt	Total nos	Repairs	Amt	Reconst	Amt	Repairs	Amt	Reconst	Amt	No	Amt	length RW	Amt	No		Amt
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 proposals in each Infrastructure of the sub basin

COST ANALYSIS

Sl no	Name of tank/Anicut/Reservoir	Bund		Sluice				weir				Repairs to Anicut		Supply channel		Measuring Devices		Amt in Lakhs	
		Length	Amt	Total nos	Repairs	Amt	Reconst	Amt	Repairs	Amt	Reconst	Amt	No	Amt	length h RW	Amt	No		Amt
1	Thalavaipattinam Leading Channel	900m	1.46	-	-	-	-	-	-	-	-	-	-	-	450 m	75.81	-	-	77.27
2	Dharapuram Leading Channel	4140m	6.69	-	-	-	-	-	-	-	-	-	-	-	765 m	112.40	-	-	119.09
3	Kolingivadi Leading Channel	-	-	-	-	-	-	-	-	-	-	-	-	-	250 m	86.88	-	-	86.88
	Total		8.15													275.09			283.24

Package 3 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

A. Details of proposals in each Infrastructure of the sub basin

COST ANALYSIS

Sl no	Name of tank/Anicut/Reservoir	Bund		Sluice				weir				Repairs to Anicut		Supply channel		Measuring Devices		Amt in Lakhs	
		Length	Amt	Total nos	Repairs	Amt	Reconst	Amt	Repairs	Amt	Reconst	Amt	No	Amt	length RW	Amt	No		Amt
1	Nallathangal Odai Reservoir 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 proposals in each Infrastructure of the sub basin

COST ANALYSIS

Sl no	Name of tank/Anicut/Reservoir	Bund		Sluice				weir				Repairs to Anicut		Supply channel		Measuring Devices		Amt in Lakhs	
		Length	Amt	Total nos	Repairs	Amt	Reconst	Amt	Repairs	Amt	Reconst	Amt	No	Amt	length h RM	Amt	No		Amt
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 proposals in each Infrastructure of the sub basin

COST ANALYSIS

Sl no	Name of tank/Anicut/Reservoir	Bund		Sluice				weir				Repairs to Anicut		Supply channel		Measuring Devices		Amt in Lakhs	
		Length	Amt	Total nos	Repairs	Amt	Reconst	Amt	Repairs	Amt	Reconst	Amt	No	Amt	length h RW	Amt	No		Amt
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 proposals in each Infrastructure of the sub basin

COST ANALYSIS

Sl no	Name of tank/Anicut/Reservoir	Bund		Sluice				weir				Repairs to Anicut		Supply channel		Measuring Devices		Amt in Lakhs	
		Length	Amt	Total nos	Repairs	Amt	Reconst	Amt	Repairs	Amt	Reconst	Amt	No	Amt	length h RW	Amt	No		Amt
1	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 proposals in each Infrastructure of the sub basin

COST ANALYSIS

Sl no	Name of tank/Anicut/Reservoir	Bund		Sluice				weir				Repairs to Anicut		Supply channel		Measuring Devices		Amt in Lakhs	
		Length	Amt	Total nos	Repairs	Amt	Reconst	Amt	Repairs	Amt	Reconst	Amt	No	Amt	length h RW	Amt	No		Amt
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 proposals in each Infrastructure of the sub basin

COST ANALYSIS

Sl no	Name of tank/Anicut/Reservoir	Bund		Sluice				weir				Repairs to Anicut		Supply channel		Measuring Devices		Amt in Lakhs		
		Length	Amt	Total nos	Repairs	Amt	Reconst	Amt	Repairs	Amt	Reconst	Amt	No	Amt	<u>length</u> RW	Amt	No		Amt	
1	Chettypalayam Anicut	0	0	12	12	212.07	0	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	0	212.07

Package 09/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

A. Details of proposals in each Infrastructure of the sub basin

COST ANALYSIS

Sl no	Name of tank/Anicut/Reservoir	Bund		Sluice				weir				Repairs to Anicut		Supply channel		Measuring Devices		Amt in Lakhs	
		Length	Amt	Total nos	Repairs	Amt	Reconst	Amt	Repairs	Amt	Reconst	Amt	No	Amt	length h RW	Amt	No		Amt
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 10/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

A. Details of proposals in each Infrastructure of the sub basin

COST ANALYSIS

Sl no	Name of tank/Anicut/Reservoir	Bund		Sluice				weir				Repairs to Anicut		Cross masonry structures		Measuring Devices		Amt in Lakhs	
		Length	Amt	Total nos	Repairs	Amt	Reconst	Amt	Repairs	Amt	Reconst	Amt	No	Amt	Nos.	Amt	No		Amt
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 proposals in each Infrastructure of the sub basin

COST ANALYSIS

Sl no	Name of tank/Anicut/Reservoir	Bund		Sluice				weir				Repairs to Anicut		Supply channel		Measuring Devices		Amt in Lakhs	
		Length	Amt	Total nos	Repairs	Amt	Reconst	Amt	Repairs	Amt	Reconst	Amt	No	Amt	length h RW	Amt	No		Amt
1	Neelamalaikottai tank-Surplus channel Drop & Spur wall	-	-	-	-	-	-	-	-	-	-	-	1	148.77	-	-	-	-	148.77
2	Kodaganar Anicut across Kodaganar River	-	-	-	-	-	-	-	-	-	-	-	1	6.09	-	-	-	-	6.09
	Lakshmanpatti Anicut across Kodaganar River	-	-	-	-	-	-	-	-	-	-	-	1	6.04	-	-	-	-	6.04
	Boothipuram Anicut across Kodaganar River	-	-	-	-	-	-	-	-	-	-	-	1	27.40	-	-	-	-	27.40
	Total	-	-	-	-	-	-	-	-	-	-	-	4	188.30	-	-	-	-	188.30

Package 12 /TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

A. Details of proposals in each Infrastructure of the sub basin

COST ANALYSIS

Sl no	Name of tank/Anicut/Reservoir	Bund		Sluice				weir				Repairs to Anicut		Supply channel		Measuring Devices		Amt in Lakhs	
		Length	Amt	Total nos	Repairs	Amt	Reconst	Amt	Repairs	Amt	Reconst	Amt	No	Amt	length RW	Amt	No		Amt
1	Sedipatty (LS 1210m to 1260m)												1	182.00					182.00
2	Mottaiyagoudanpatti (LS 2190m to 2340m)												1	182.00					182.00
3	Alagarpudukulam (LS 3300m to 3600m)												1	181.63					181.63
	Total													545.63					545.63

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

A. Details of proposals in each Infrastructure of the sub basin

COST ANALYSIS

Sl no	Name of tank/Anicut/Reservoir	Bund		Sluice				weir				Repairs to Anicut		Supply channel		Measuring Devices		Amt in Lakhs	
		Length	Amt	Total nos	Repairs	Amt	Reconst	Amt	Repairs	Amt	Reconst	Amt	No	Amt	length h RW	Amt	No		Amt
1	Kattankulam Anicut												1	175.27					175.27
2	Kattankulam Anicut Retaining wall												1	350.54					350.54
	Total													525.81					525.81

Package 14/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

A. Details of proposals in each Infrastructure of the sub basin

COST ANALYSIS

Sl no	Name of tank/Anicut/Reservoir	Bund		Sluice				weir				Repairs to Anicut		Supply channel		Measuring Devices		Amt in Lakhs	
		Length	Amt	Total nos	Repairs	Amt	Reconst	Amt	Repairs	Amt	Reconst	Amt	No	Amt	length h RW	Amt	No		Amt
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 proposals in each Infrastructure of the sub basin

COST ANALYSIS

Sl no	Name of tank/Anicut/Reservoir	Bund		Sluice				weir				Repairs to Anicut		Supply channel		Measuring Devices		Amt in Lakhs	
		Length	Amt	Total nos	Repairs	Amt	Reconst	Amt	Repairs	Amt	Reconst	Amt	No	Amt	length h RW	Amt	No		Amt
1	Amaravathi Main Canal	-	-	-	-	-	-	-	-	-	-	-	-	-	1	151.69	-	-	151.69
	Total	-	-	-	-	-	-	-	-	-	-	-	-	-	1	151.69	-	-	151.69

Package 16/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

A. Details of proposals in each Infrastructure of the sub basin

COST ANALYSIS

Sl no	Name of tank/Anicut/Reservoir	Bund		Sluice				weir				Repairs to Anicut		Supply channel		Measuring Devices		Amt in Lakhs	
		Length	Amt	Total nos	Repairs	Amt	Reconst	Amt	Repairs	Amt	Reconst	Amt	No	Amt	<u>length</u> h RW	Amt	No		Amt
1	Dharapuram Checkdam	-	-	-	-	-	-	-	-	-	-	-	1	673.15	-	-	-	-	673.15
	Total	-	-	-	-	-	-	-	-	-	-	-	1	673.15	-	-	-	-	673.15

Package 17/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13

A. Details of proposals in each Infrastructure of the sub basin

COST ANALYSIS

Sl no	Name of tank/Anicut/Reservoir	Bund		Sluice				weir				Repairs to Anicut		Supply channel		Measuring Devices		Amt in Lakhs	
		Length	Amt	Total nos	Repairs	Amt	Reconst	Amt	Repairs	Amt	Reconst	Amt	No	Amt	length h RW	Amt	No		Amt
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	Quantity		Amount in lakhs	Remarks
<u>I. Tank 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	
<u>II. Non tank Component</u>					
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**

Amaravathy 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			
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	
	<u>LS Provisions</u>			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		3.58	
	Total		130.00	

(P.T.O)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	Environmental Charges		Nil	
	Ground water		Nil	
	Grand Total		130.00 Lakhs	

Abstract

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)

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	I Year		II Year		Total Quantity	Amount (Lakhs)	Remarks
		Quantity	Amount	Quantity	Amount			
I	Rehabilitation and Restoration of Leading Channels							
1	Earth Work (Combined Qty)	12010 m³	1009361	-	-	12010 m³	1009361	
2	Concrete (Combined Qty)	2360 m³	10946866	-	-	2360 m³	10946866	
3	RR masonry	120 m³	10062	-	-	120 m³	10062	
4	Shutter	9 Nos.	675000			9 Nos.	675000	
II	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 ±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 m ³
15	Metal 40mm	1746 m ³
16	Metal 20mm	378 m ³
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)

CONSTRUCTION METHODOLOGY

S. No.	Description of Item	Working Months									Rain Season					Total
		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	
I	Rehabilitation and Restoration of Leading Channels															
1	Earth Work (Combined Qty)			3000 m³	3000 m³	3000 m³	3010 m³									12010 m³
2	Concrete (Combined Qty)			500 m³	500 m³	500 m³	500 m³	360 m³								2360 m³
3	RR masonry			60 m³	60 m³											120 m³
4	Shutter			3 Nos.	3 Nos.	3 Nos.										9 Nos.

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 : AMARAVATHI SUB BASIN (LEFT OUT WORKS**

Amaravathy 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			
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	
<u>LS Provisions</u>				
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		7.76	
	Total		291.00	

(P.T.O)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	Environmental Charges		Nil	
	Ground water		Nil	
	Grand Total		291.00 Lakhs	

Abstract

1. Canal Component	---	291.00 Lakhs
2. Non Tank Components	---	Nil Lakhs
3. Environmental cell	---	Nil Lakhs

Total		291.00 Lakhs or 2.91 Crores

(Rupees Two point Nine One Crores Only)

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)**

S.No.	Description	I Year		II Year		Total Quantity	Amount (Lakhs)	Remarks
		Quantity	Amount	Quantity	Amount			
I	Rehabilitation and Restoration of Leading Channels							
1	Earth Work (Combined Qty)	17320 m ³	1206777	-	-	17320 m ³	1206777	
2	Concrete (Combined Qty)	5375 m ³	27117441	-	-	5375 m ³	27117441	
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%	-	775782			-	775782	
	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 : AMARAVATHI 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 ±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 m ³
15	Metal 40mm	3640 m ³
16	Metal 20mm	1200 m ³
17	Steel	851.10 qtl.
18	Rough Stone for Masonry	-

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 : AMARAVATHI SUB BASIN (LEFT OUT WORKS)

CONSTRUCTION METHODOLOGY

S. No	Description of Item	Working Months									Rain Season					Total
		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	
I	Rehabilitation and Restoration of Leading Channels															
1	Earth Work (Combined Qty)			4300 m³	4300 m³	4300 m³	4420 m³									17320 m³
2	Concrete (Combined Qty)			1100 m³	1100 m³	1100 m³	1100 m³	975 m³								5375 m³

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)

Sl. 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	
<u>LS Provisions</u>				
	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
	Environmental Charges		Nil	
	Ground water		Nil	
	Grand Total		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)

Sl. No.	Description	I Year		II Year		Qty	Amt in Lakhs
		Qty	Amt in Lakhs	Qty	Amt in Lakhs		
	CANAL COMPONENTS						
I	Canal Bund Improvements						
1	Earthwork for Bund	23000m3	26.58	-	-	23000m3	26.58
II	Improvement of sluices						
1	Reconstruction						
2	Repair						
III	Improvement of Weir						
1	Reconstruction						
2	Repair	15 Nos.	5.77			15 Nos	5.77
IV	Lining Channel	134200m2	404.44			134200m2	404.44
V	Supply Channel Improvement						
1	Earthwork						
	Repair						
	Outlet						
VI	Anicut improvement						
1	Repair						
2	Grade Wall						
3	Irrigation Channel						
VII	Environmental cell						
VIII	Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges		12.21				12.21
IX	Measuring Devices						
	Total						449.00

**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 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

AMARAVATHI SUB BASIN (Section-2)

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)

BROAD REQUIREMENT OF CONSTRUCTION EQUIPMENT

BASED ON BROAD CALCULATIONS THE EQUIPMENT REQUIRED IS LISTED BELOW

Machineries required for earth work & concrete

Sl.No	Equipment	Numbers
1	Hydraulic Excavator (± 0.90 Cu.m)	4 Nos.
2	Hydraulic Excavator with steel plate attachment (For compaction of earth fill on slopes of tank bund)	3 Nos
3	Tippers/Lorries(8/10Tonne)	26 Nos
4	Power Rollers/Vibratory Power Rollers (including 2 power rollers of (± 0.90 m width)	2 Nos
5	Water tankers (Truck mounted water tankers of ± 10000 Litres)	6 Nos
6	Pneumatic Tampers/Earth Rammers (for compaction of earth fill adjoining the new concrete irrigation sluices to be constructed)	3 Nos
7	Air Compressors (± 300 cfm)	3 Nos
8	Plate Vibrators for compaction of sub grade and of bed bar concrete lining	1 No
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	Requirement of Construction Equipments and Materials 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 IAWWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13 Amaravathi Sub Basin (Leftout Works)
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	
2 Nos	Power Rollers/Vibratory Power Roller	4	
6 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	
3 Nos	Pneumatic Tampers/Earth Rammers	6	
3 Nos	Air Compressors (± 300cfm)	7	
1 No	Plate Vibrators	8	
3 Nos	Dozer (D6 or equivalent)	9	
6 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	
3 Nos	Concrete vibrators	11	
2 Nos	Slip form gantry	12	
2668MT	Cement	13	
4172 CM	Sand	14	
--	Steel	15	
81 CM	Metal 40mm	16	
4900 CM	Metal 20mm	17	
--	Rough Stone Masonry	18	
--	Earth	18	

AMARAVATHI SUB BASIN (Section-2)

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)

REQUIREMENT OF MATERIALS

Sl. 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 ³	9.90	160 M ³	200	-	-	
2.	M.7.5 Using 40mm	90	M ³	2.00	90 M ³	-	81	-	
3.	Earth	29100	M ³	-	-	-	-	-	-
4.	Steel	-	-						-
	Total			11.90	250	200	81		-

AMARAVATHI SUB BASIN (Section-2)

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)

Construction methodology

SI No	Description of Item	Working Months														Total	
									IRRIGATION SEASON								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14		
		Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
		2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2013	2012	2013	2013		
	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 mm metal	--	--	5000	15000	15000	15000	23000	23000	23000	--	--	--	15200	--	--	134200
6	Steel	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

A. WRO COST TABLE

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

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	
	<u>LS Provisions</u>			
	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)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	Environmental Charges		Nil	
	Ground water		Nil	
	Grand Total		482.00 Lakhs	

Abstract

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

Sl. No.	Description	I Year		II Year				Amt in Lakhs
		Qty	Amt in Lakhs	Qty	Amt in Lakhs	Qty		
	CANAL COMPONENTS							
I	Canal Bund Improvements							
	1 Earthwork for Bund							
II	Improvement of sluices							
	1 Reconstruction							
	2 Repair							
III	Improvement of Weir							
	1 Reconstruction							
	2 Repair							
V	Supply Channel Improvement							
	1 Earthwork	17100 cum	6.22			17100	Cum	6.22
	Retaining Wall Outlet	12350 Cum	462.65			12350	cum	462.65
VI	Anicut improvement							
	1 Repair							
	2 Grade Wall							
	3 Irrigation Channel							
VII	Environmental cell							
VIII	Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges	-	13.13	-		-	-	13.13
IX	Measuring 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

Sl. 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 CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT”.	1 Nos (of Anicut)	468.87
2.	L.S. Provisions		13.13
	TOTAL		482.00

AMARAVATHI SUB BASIN (Section-2)

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”.

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

Sl.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 of ± 10000 Litres)	5
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

1Nos	Dydraulic excavator ($\pm 0.90\text{Cum}$)	1	Requirement of Construction Equipments and Materials AMARAVATHI SUB BASIN 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",
	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	
6 Nos	Tippers/Lorries(8 to 10 Tonne)	3	
	Power Rollers/Vibratory Power Roller	4	
5 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	
	Pneumatic Tampers/Earth Rammers	6	
	Air Compressors ($\pm 300\text{cfm}$)	7	
	Plate Vibrators	8	
	Dozer (D6 or equivalent)	9	
6 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	
6 Nos	Concrete vibrators	11	
3200 MT	Cement	12	
5560Cum	Sand	13	
31.5 MT	Steel	14	
6670 Cum	Metal 40mm	15	
4450 Cum	Metal 20mm	16	
	Metal 12mm	17	
17100 Cum	Earth	18	

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”.

REQUIREMENT OF MATERIALS

Sl. 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
5.	M.15 Using 40mm	12350	M ³	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

SI No	Description of Item	Working Months														Total
									IRRIGATION SEASON							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	
		Feb 2013	Mar 2013	April 2013	May 2013	June 2013	July 2013	Aug 2013	Seb 2013	Oct 2013	Nov 2013	Dec 2013	Jan 2012	Feb 2013	Mar 2013	
	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

**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".**

PAKAGE No:5/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	309.890	
k.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		309.89	
	<u>LS Provisions</u>			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		8.11	
	Total		318.00	

(P.T.O)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	Environmental Charges		Nil	
	Ground water		Nil	
	Grand Total		318.00 Lakhs	

Abstract

10.Canal Component	---	318.00 Lakhs
11.Non Tank Components	---	Nil Lakhs
12.Environmental cell	---	Nil Lakhs

Total		318.00 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".

Sl. No.	Description	I Year		II Year				Amt in Lakhs
		Qty	Amt in Lakhs	Qty	Amt in Lakhs	Qty		
	CANAL COMPONENTS							
I	Canal Bund Improvements							
	1 Earthwork for 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
	Retaining Wall Outlet	8100 Cum	305.85			8100	cum	305.85
VI	Anicut improvement							
	1 Repair							
	2 Grade Wall							
	3 Irrigation Channel							
VII	Environmental cell							
VIII	Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges	-	8.11	-		-	-	8.11
IX	Measuring 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”.

Sl. 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 CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT”.	1 Nos (of Anicut)	309.89
2.	L.S. Provisions		8.11
	TOTAL		318.00

AMARAVATHI SUB BASIN (Section-2)

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”.

**BROAD REQUIREMENT OF CONSTRUCTION EQUIPMENT
BASED ON BROAD CALCULATIONS THE EQUIPMENT REQUIRED IS
LISTED BELOW**

Machineries required for earth work & concrete

Sl.No	Equipment	Numbers
1	Hydraulic Excavator (± 0.90 Cu.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 (± 0.90 m width)	
5	Water tankers (Truck mounted water tankers of ± 10000 Litres)	3
6	Pneumatic Tampers/Earth Rammers (for compaction of earth fill adjoining the new concrete irrigation sluices to be constructed)	
7	Air Compressors (± 300 cfm)	
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	<p style="text-align: center;">AMARAVATHI SUB BASIN</p> <p style="text-align: center;">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”.</p> <p style="text-align: center;">Requirement of Construction Equipments and Materials</p>
	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	
4 Nos	Tippers/Lorries(8 to 10 Tonne)	3	
	Power Rollers/Vibratory Power Roller	4	
3 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	
	Pneumatic Tampers/Earth Rammers	6	
	Air Compressors (±300cfm)	7	
	Plate Vibrators	8	
	Dozer (D6 or equivalent)	9	
4 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	
4 Nos	Concrete vibrators	11	
2100 MT	Cement	12	
3645 cum	Sand	13	
25.0 MT	Steel	14	
4375 Cum	Metal 40mm	15	
2920 Cum	Metal 20mm	16	
	Metal 12mm	17	
11100 Cum	Earth	18	

**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”.**

REQUIREMENT OF MATERIALS

Sl. 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
7.	M.15 Using 40mm	8100	M ³	2100	3645	2920	4375			
8.	Steel	25.00	MT						25.00	
	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”.

Construction methodology

SI No	Description of Item	Working Months														Total	
									IRRIGATION SEASON								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14		
		Feb 2013	Mar 2013	April 2013	May 2013	June 2013	July 2013	Aug 2013	Seb 2013	Oct 2013	Nov 2013	Dec 2013	Jan 2012	Feb 2013	Mar 2013		
	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	

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".
PACKAGE No:6/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	292.53	
k.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		292.53	
	<u>LS Provisions</u>			
	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
	Environmental Charges		Nil	
	Ground water		Nil	
	Grand Total		301.00 Lakhs	

Abstract

13.Canal Component	---	301.00 Lakhs
14.Non Tank Components	---	Nil Lakhs
15.Environmental cell	---	Nil Lakhs

Total		301.00 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

Sl. No.	Description	I Year		II Year				Amt in Lakhs
		Qty	Amt in Lakhs	Qty	Amt in Lakhs	Qty		
	CANAL COMPONENTS							
I	Canal Bund Improvements							
	1 Earthwork for Bund							
II	Improvement of sluices							
	1 Reconstruction							
	2 Repair							
III	Improvement of Weir							
	1 Reconstruction							
	2 Repair							
V	Supply Channel Improvement							
	1 Earthwork	10600 cum	3.86			10600	Cum	3.86
	Retaining Wall	7700 Cum	288.67			7700	cum	288.67
	Outlet							
VI	Anicut improvement							
	1 Repair							
	2 Grade Wall							
	3 Irrigation Channel							
VII	Environmental cell							
VIII	Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges	-	8.47	-		-	-	8.47
IX	Measuring 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

Sl. 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 CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT”.	1 Nos (of Anicut)	292.53
2.	L.S. Provisions		8.47
	TOTAL		301.00

AMARAVATHI SUB BASIN (Section-2)

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

Sl.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 of ± 10000 Litres)	2
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	<p style="text-align: center;">AMARAVATHI SUB BASIN</p> <p style="text-align: center;">NAME OF WORK: CONSTRUCTION OF PROTECTION WALL FROM LS 14.50 KM TO LS 16.00 KM</p> <p style="text-align: center;">ADJACENT TO VETTAKKARANSAMY TEMPLE (IN THE LEFT OUT REACH) OF DHARAPURAM CHANNEL</p> <p style="text-align: center;">OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT..</p>
	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	
3 Nos	Tippers/Lorries(8 to 10 Tonne)	3	
	Power Rollers/Vibratory Power Roller	4	
2 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	
	Pneumatic Tampers/Earth Rammers	6	
	Air Compressors (±300cfm)	7	
	Plate Vibrators	8	
	Dozer (D6 or equivalent)	9	
3 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	
3 Nos	Concrete vibrators	11	
2000 MT	Cement	12	
3665 cum	Sand	13	
20.0 MT	Steel	14	
4158 Cum	Metal 40mm	15	
2772 Cum	Metal 20mm	16	
	Metal 12mm	17	
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

Sl. 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
9.	M.15 Using 40mm	7700	M ³	2000	3665	2772	4158			
10	Steel	20.00	MT						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

Construction methodology

SI No	Description of Item	Working Months														Total
									IRRIGATION SEASON							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	
		Feb 2013	Mar 2013	April 2013	May 2013	June 2013	July 2013	Aug 2013	Seb 2013	Oct 2013	Nov 2013	Dec 2013	Jan 2012	Feb 2013	Mar 2013	
	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

C. WRO COST TABLE

Name of work: 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	
	<u>LS Provisions</u>			
	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
	Environmental Charges		Nil	
	Ground water		Nil	
	Grand Total		150.50 Lakhs	

Abstract

16.Canal Component	---	150.50 Lakhs
17.Non Tank Components	---	Nil Lakhs
18.Environmental cell	---	Nil Lakhs

	Total	150.50 Lakhs

(Rupees one hundred and fifty lakhs and fifty thousand only)

D. (PHYSICAL AND FINANCIAL PROGRAM)

Name of work: Rehabilitation of Nanjaithalaiyur Anicut of Amaravathi River System in Amaravathi Sub Basin in Aravakurichi Taluk of Karur District.

Sl. No.	Description	I Year		II Year		Qty		Amt in Lakhs
		Qty	Amt in Lakhs	Qty	Amt in Lakhs			
	CANAL COMPONENTS							
I	Canal Bund Improvements							
	1 Earthwork for Bund							
II	Improvement of sluices							
	1 Reconstruction							
	2 Repair							
III	Improvement of Weir							
	1 Reconstruction							
	2 Repair							
V	Supply Channel Improvement							
	1 Earthwork							
	Head Sluice							
	Outlet							
VI	Anicut improvement							
	1 Repair	1	146.39			1	Nos	146.39
	2 Grade Wall							
	3 Irrigation Channel							
VII	Environmental cell							
VIII	Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges	-	4.11	-		-	-	4.11
IX	Measuring Devices							
	Total							150.50

Name of work: Rehabilitation of Nanjaithalaiyur Anicut of Amaravathi River System in Amaravathi Sub Basin in Aravakurichi Taluk of Karur District.

Sl. 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 (of Anicut)	146.39
2.	L.S. Provisions		4.11
	TOTAL		150.50

AMARAVATHI SUB BASIN (Section-2)

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

Sl.No	Equipment	Numbers
1	Hydraulic Excavator (± 0.90 Cu.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 (± 0.90 m width)	
5	Water tankers (Truck mounted water tankers of ± 10000 Litres)	3
6	Pneumatic Tampers/Earth Rammers (for compaction of earth fill adjoining the new concrete irrigation sluices to be constructed)	1
7	Air Compressors (± 300 cfm)	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 (± 0.90 Cum)	1	Requirement of Construction Equipments and Materials
	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	
3 Nos	Tippers/Lorries(8 to 10 Tonne)	3	
	Power Rollers/Vibratory Power Roller	4	
3 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	
1 Nos	Pneumatic Tampers/Earth Rammers	6	
1 Nos	Air Compressors (± 300 cfm)	7	
	Plate Vibrators	8	
1 Nos	Dozer (D6 or equivalent)	9	
4 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	
4 Nos	Concrete vibrators	11	
780 MT	Cement	12	
1260 Cum	Sand	13	
61.00 MT	Steel	14	
495 Cum	Metal 40mm	15	
1340 Cum	Metal 20mm	16	
675 Cum	Metal 12mm	17	
1440 Cum	Earth	18	

AMARAVATHI SUB BASIN
Name of work: Rehabilitation of Nanjathalaiyur Anicut of Amaravathi River System in Amaravathi Sub Basin in Aravakurichi Taluk of Karur District.

**Name of work: Rehabilitation of Nanjaithalaiyur Anicut of Amaravathi River System in Amaravathi Sub Basin in
Aravakurichi Taluk of Karur District
REQUIREMENT OF MATERIALS**

Sl. 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 ³	185	380	460		305		
12	M.15 Using 40mm	915	M ³	235	410	330	495			
13	R.C.C M.15 Using 20mm	220	M ³	65	100	120		80		
14	R.C.C M.20 Using 20mm	800		295	360	430		290		
15	Conveyance Earth		M ³							1440
16	Steel	61.00	MT						61.00	
	Total			780	1250	1340	495	675	61.00	1440

Name of work: Rehabilitation of Nanjaithalaiyur Anicut of Amaravathi River System in Amaravathi Sub Basin in Aravakurichi Taluk of Karur District.

Construction methodology

SI No	Description of Item	Working Months														Total	
									IRRIGATION SEASON								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14		
		Feb 2013	Mar 2013	April 2013	May 2013	June 2013	July 2013	Aug 2013	Seb 2013	Oct 2013	Nov 2013	Dec 2013	Jan 2012	Feb 2013	Mar 2013		
	Earth work excavation																
1	Bund																
2	Channel																
3	Foundation	200	200	200	200	200	200	240								1440	
	Concrete																
4	M.10 Using 20mm		170	170	170	170	85	85								850	
5	M.15 Using 40mm		100	200	200	200	100	115								915	
6	R.C.C M.15 Using 20mm		50	50	120											220	
	R.C.C M.20 Using 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.

PAKAGE No:8 /TN IAMWARM /WRD /AMR /WORKS /IV/STAGEII/ 2012-2013

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	<u>Anicut</u>			
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	
	<u>LS Provisions</u>			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		5.927	
	Total		218.00	

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.

PACKAGE No:8 /TN IAMWARM /WRD /AMR /WORKS /IV/STAGEII/ 2012-2013

Sl. No.	Description	I Year		II Year		Qty		Amt in Lakhs
		Qty	Amt in Lakhs	Qty	Amt in Lakhs			
1	Anicut 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.

PAKAGE No:8 /TN IAMWARM /WRD /AMR /WORKS /IV/STAGEII/ 2012-2013

SI No	Description of Item	Construction Methodology														Total	
		Working Months						IRRIGATION SEASON									
		1	2	3	4	5	6	7	8	9	10	11	12	13	14		
		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		
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

1	Hydraulic excavator ($\pm 0.90\text{Cum}$)	1	<p style="text-align: center;">Amaravathi SUB BASIN</p> <p style="text-align: center;">PACKAGE No:8 /TN IAMWARM /WRD /AMR /WORKS /IV/STAGEII/ 2012-2013</p> <p style="text-align: center;">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.</p>
	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	
2	Tippers/Lorries(8 to 10 Tonne)	3	
1	crane	4	
1	Water Tankers(Truck Mounted of ± 10000 Liters)	5	
8	Chain Pully	6	
1	Air Compressors ($\pm 300\text{cfm}$)	7	
3	A Frame	8	
	Dozer (D6 or equivalent)	9	
	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	
	Concrete vibrators	11	
	Cement	12	
	Sand	13	
	Steel	14	
	Metal 40mm	15	
	Metal 20mm	16	
	Rough Stone Masonry	17	
	Earth	18	

WRO COST TABLE
(Package 09/IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	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	
	<u>LS Provisions</u>			
	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)

SL. NO	Description	I Six Months		II Six Months		Total	
		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 construction	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 No	Description of Item																Total
		Working Months			Working Months							IRRIGATION SEASON					
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	
	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

(09/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13)

REQUIREMENT OF EQUIPMENTS AND MATERIALS

PACKAGE NUMBER	EQUIPMENTS REQUIRED IN NUMBERS							MATERIAL REQUIRED							
	HYDRAULIC EXCAVATOR	POWER ROLLER	VIBRATED COMPACTOR	TIPPER / LORRY	WATER LORRY	CONCRETE MIXER MACHINE	CONCRETE VIBRATOR	CEMENT IN M.T.	SAND IN m ³	STEEL IN M.T.	METAL 40MM IN m ³	METAL 20MM IN m ³	RR IN 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)

I -- TANK COMPONENT (Varathamathi Non- system)

S/no	Component	Qty		Amount in Lakhs
I	Tank Bund Improvement			
	Earthwork for bund, Retaining wall, Model Section, Steps	3476	M	45.48
II	Improvement to Sluices			
1	Reconstruction			
	a Tower Head	-	-	-
	b Wing Wall	2	Nos	24.04
2	Repair			
	a Tower Head	-	Nos	-
	b Wing Wall	-	Nos	-
3	Well syphon	-		-
III	Improvements to Weir			
1	Reconstruction	-	Nos	-
2	Repair	1	Nos	9.86
IV	Shutter Arrangement			
1	Sluice	-	-	-
	a SG Plug	-	-	-
	b SG Shutter	2	Nos	0.60
2	Weir	--	-	-
	a SG Shutter in scour vents	-	-	-
3	Anicut	-	-	-
	Anicut shutter	-	-	-
	Head sluice shutter	-	Nos	-
V	Supply Channel Improvement	-	-	-
1	a Earthwork	-	m	-
2	b Repair to Cross Masonry Work	2	Nos	162.71
VI	River Training	-	-	-
1	Anicut	-	-	-
	a Repair	2	Nos	12.87
VII	In Tank Bed	-	-	-
	Measuring Devices	2	Nos	0.29
	Total cost of Civil Works			255.85
VIII	a 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

(10/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13)

C. (PHYSICAL AND FINANCIAL PROGRAMME)

(Varadhamanathi Non System)

SL. NO	Description	I Six Months		II Six Months		Total	
		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

(Package 10/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13)

Construction Methodology (Varadhamanathi Non System)

SI No	Description of Item	Working Months															Rainy season			Total
		1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	10	11	12	
	Earth work excavation																			
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

(Package 10/TN IAMWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13)

REQUIREMENT OF EQUIPMENTS AND MATERIALS

PACKAGE NUMBER	EQUIPMENTS REQUIRED IN NUMBERS							MATERIAL REQUIRED							
	HYDRAULIC EXCAVATOR	POWER ROLLER	VIBRATED COMPACTOR	TIPPER / LORRY	WATER LORRY	CONCRETE MIXER MACHINE	CONCRETE VIBRATOR	CEMENT IN M.T.	SAND IN m ³	STEEL IN M.T.	METAL 40MM IN m ³	METAL 20MM IN m ³	RR IN m ³	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

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	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	
<u>LS Provisions</u>				
	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
	Environmental Charges		Nil	
	Ground water		Nil	
	Grand Total		193.00 Lakhs	

Abstract

1. Canal Component	---	193.00 Lakhs
2. Non Tank Components	---	Nil Lakhs
3. Environmental cell	---	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 Year		II Year		Total Quantity	Amount (Lakhs)	Remarks
		Quantity	Amount	Quantity	Amount			
I	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.
Package 11/TN IAMWARM/WRD/AMR/WORKS/STAGE II/2012-13

CONSTRUCTION METHODOLOGY

S. No.	Description of Item	Working Months									Rain Season					Total
		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	
I	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	

5Nos	Hydraulic excavator (± 0.90 Cum)	1
-	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2
10 Nos	Tippers/Lorries(8 to 10 Tonne)	3
-	Power Rollers/Vibratory Power Roller	4
3 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5
-	Pneumatic Tampers/Earth Rammers	6
-	Air Compressors (± 300 cfm)	7
1	Plate Vibrators	8
-	Dozer (D6 or equivalent)	9
5	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10
5	Concrete vibrators	11
1573 MT	Cement	12
2126 M3	Sand	13
20.70 MT	Steel	14
2327 m3	Metal 40mm	15
1925 M3	Metal 20mm	16
218 m3	Rough stone	17
-	Earth	18

AMARAVATHI SUB BASIN
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 IAWWAR/MWRD/AMR/WORKS/STAGE II/2012-13

A. WRO COST TABLE

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

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	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	
	<u>LS Provisions</u>			
	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
	Environmental Charges		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

Sl. No.	Description	I Year		II Year		Qty	Amt in Lakhs	
		Qty	Amt in Lakhs	Qty	Amt in Lakhs			
	CANAL COMPONENTS							
I	Canal Bund Improvements							
	1 Earthwork for Bund							
II	Improvement of sluices							
	1 Reconstruction							
	2 Repair							
III	Improvement of Weir							
	1 Reconstruction							
	2 Repair							
V	Supply Channel Improvement							
	1 Earthwork							
	Retaining Wall	3	545.63	-	-	-	-	545.63
	Outlet							
VI	Anicut improvement							
	1 Repair							
	2 Grade Wall							
	3 Irrigation Channel							
VII	Environmental cell							
VIII	Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges	-	14.37	-		-	-	14.37
IX	Measuring 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

Sl. 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 CHANNEL OF AMARAVATHI RIVER SYSTEM IN DHARAPURAM TALUK OF TIRUPPUR DISTRICT".	1 Nos (of Anicut)	545.63
2.	L.S. Provisions		14.37
	TOTAL		560.00

5Nos	Hydraulic excavator (± 0.90 Cum)	1	<p style="text-align: center;">AMARAVATHI SUB BASIN</p> <p style="text-align: center;">NAME OF WORK: Rehabilitation of Alagarpudukulam Anicut and Protection walls in Santhanavarthini river in Vempartaty Village of Dindugal Taluk of Dindugal District.</p> <p style="text-align: center;">PACKAGE No:12/TN IAWWAR/WRD/AMR/WORKS/IV/STAGEII/2012-2013</p> <p style="text-align: center;">Requirement of Construction Equipments and Materials</p>
2 Nos	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	
10 Nos	Tippers/Lorries(8 to 10 Tonne)	3	
-	Power Rollers/Vibratory Power Roller	4	
3 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	
-	Pneumatic Tampers/Earth Rammers	6	
1 NO	Air Compressors (± 300 cfm)	7	
-	Plate Vibrators	8	
-	Dozer (D6 or equivalent)	9	
15 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	
15 Nos	Concrete vibrators	11	
5013 MT	Cement	12	
6948 cum	Sand	13	
16.5 MT	Steel	14	
8338 Cum	Metal 40mm	15	
5558 Cum	Metal 20mm	16	
10	Metal 12mm	17	
-	Earth	18	

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

CONSTRUCTION METHODOLOGY

S. N o.	Description of Item	Working Months									Rain Season					Total
		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	
I	Earth work															
1	Foundation	-	2400	2400	2400	2400	2400	2310	2640	-	-	-	-	-	-	16950 m3
2	River	-	2050	2050	2100	2100	2100	2100	-	-	-	-	-	-	-	12500 m3
	Concrete															
4	M15, 20mm & 40mm	-	-	2000	2000	2000	2000	2000	2000	-	-	-	1500	1500	340	15340 m3
5	M20, 20mm	-	-	-	-	-	-	50	50	-	-	-	-	-	-	100 m3
6	Rough Stone	-	-	-	-	-	-	-	10	-	-	-	-	-	-	10 m3

A. WRO COST TABLE

**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

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	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	
<u>LS Provisions</u>				
	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
	Environmental Charges		Nil	
	Ground water		Nil	
	Grand Total		540.00 Lakhs	

Abstract

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

Sl. No.	Description	I Year		II Year		Qty		Amt in Lakhs
		Qty	Amt in Lakhs	Qty	Amt in Lakhs	Qty	Amt in Lakhs	Amt in Lakhs
		CANAL COMPONENTS						
I	Canal Bund Improvements							
	1 Earthwork for Bund							
II	Improvement of sluices							
	1 Reconstruction							
	2 Repair							
III	Improvement of Weir							
	1 Reconstruction							
	2 Repair							
V	Supply Channel Improvement							
	1 Earthwork							
	Retaining Wall	1	525.81	-	-	-	-	525.81
	Outlet							
VI	Anicut improvement							
	1 Repair							
	2 Grade Wall							
	3 Irrigation Channel							
VII	Environmental cell							
VIII	Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges	-	14.19	-		-	-	14.19
IX	Measuring Devices							
	Total		540.00					540.00

**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

Sl. 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 (of Anicut)	525.81
2.	L.S. Provisions		14.19
	TOTAL		540.00

AMARAVATHI SUB BASIN
Rehabilitation of Kattankulam anicut and Protection walls in Santhanavarthini river in Avilipatty Village
of Dindugal Taluk of Dindugal District..
PACKAGE No.:13/TN IAWWARM/WRD/AMR/WORKS/IV/STAGEII/2012-2013

5Nos	Hydraulic excavator (± 0.90Cum)	1	Requirement of Construction Equipments and Materials
2 Nos	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	
10 Nos	Tippers/Lorries(8 to 10 Tonne)	3	
-	Power Rollers/Vibratory Power Roller	4	
3 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	
-	Pneumatic Tampers/Earth Rammers	6	
-	Air Compressors (±300cfm)	7	
-	Plate Vibrators	8	
-	Dozer (D6 or equivalent)	9	
15 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	
15 Nos	Concrete vibrators	11	
4212 MT	Cement	12	
5850 cum	Sand	13	
120 MT	Steel	14	
7020 Cum	Metal 40mm	15	
4680Cum	Metal 20mm	16	
165	Metal 12mm	17	
-	Earth	18	

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

CONSTRUCTION METHODOLOGY

S. N o.	Description of Item	Working Months									Rain Season					Total
		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	
I	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

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)

Construction methodology

SI No	Description of Item	Working Months														Total	
									IRRIGATION SEASON								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14		
		Feb 2013	Mar 2013	April 2013	May 2013	June 2013	July 2013	Aug 2013	Seb 2013	Oct 2013	Nov 2013	Dec 2013	Jan 2012	Feb 2013	Mar 2013		
	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	

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			
	<u>LS Provisions</u>			
	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)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	Environmental Charges		Nil	
	Ground water		Nil	
	Grand Total		81.00 Lakhs	

Abstract

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)

Sl. No.	Description	I Year		II Year				Amt in Lakhs
		Qty	Amt in Lakhs	Qty	Amt in Lakhs	Qty		
	CANAL COMPONENTS							
I	Canal Bund Improvements							
	1 Earthwork for Bund							
II	Improvement of sluices							
	1 Reconstruction							
	2 Repair							
III	Improvement of Weir							
	1 Reconstruction							
	2 Repair							
V	Supply Channel Improvement							
	1 Earthwork	33800	19.55			33800	Cum	19.57
	Retaining Wall	1451	59.11			1451	cum	59.11
	Outlet							
VI	Anicut improvement							
	1 Repair							
	2 Grade Wall							
	3 Irrigation Channel							
VII	Environmental cell							
VIII	Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges	-	2.42	-		-	-	2.42
IX	Measuring Devices							
	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)

Sl. 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 OF DINDUGAL DISTRICT AND ARAVAKURUCHI TALUK KARUR DISTRICT.	-	78.58
2.	L.S. Provisions		2.42
	TOTAL		81.00

Requirement of Construction Equipments and Materials		
Name of Sub basin: 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/ITN IANWARM / WRD / AMR / WORKS / IV / Stage-II / 2012-13		
1Nos	Dydraulic excavator (± 0.90 Cum)	1
--	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2
5 Nos	Tippers/Lorries(8 to 10 Tonne)	3
--	Power Rollers/Vibratory Power Roller	4
2 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5
--	Pneumatic Tampers/Earth Rammers	6
--	Air Compressors (± 300 cfm)	7
--	Plate Vibrators	8
--	Dozer (D6 or equivalent)	9
2 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10
2Nos	Concrete vibrators	11
481 MT	Cement	12
653 Cum	Sand	13
7.8 MT	Steel	14
784 Cum	Metal 40mm	15
522 Cum	Metal 20mm	16
--	Metal 12mm	17
-	Earth	18

A. WRO COST TABLE

**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 : AMARAVATHI SUB BASIN (LEFT OUT WORKS)**

S.No	Description of Work	Quantity	Amount (Lakhs)	Remarks
I	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	
l	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 @ 0.3%		0.46	
b	Provision for PS charges, Documentation Charges, Hydraulic sign boards, Photographic and videographic charges, Audit & Accounts, Advertisement, Contingencies and unforeseen items @ 2.50%		2.85	
	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 : AMARAVATHI SUB BASIN (LEFT OUT WORKS)

Machineries and Materials required for Earthwork & Concrete

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 ³
15	Metal 40mm	1481 m ³
16	Metal 20mm	916 m ³
17	Steel	1013.90 qtl
18	Rough Stone for Masonry	242 m ³

A. WRO COST TABLE

**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 Package 15/TN IAMWARM/WRD/AMR/WORKS/STAGE II/2012-13

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			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall			
j.	Supply channel improvements	1	151.69	
k.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		151.69	
<u>LS Provisions</u>				
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		3.31	
	Total		155.00	

(P.T.O)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	Environmental Charges		Nil	
	Ground water		Nil	
	Grand Total		155.00 Lakhs	

Abstract

4. Canal Component	---	155.00 Lakhs
5. Non Tank Components	---	Nil Lakhs
6. Environmental cell	---	Nil 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	I Year		II Year		Total Quantit y	Amount (Lakhs)	Remark s
		Quantit y	Amount	Quantit y	Amoun t			
I	Improvements & Reconstruction of Bridges							
1	Earth Work (Combined Qty)	9420 m³	133050	-	-	9420 m³	133050	
2	Concrete (Combined Qty)	1563 m³	4562625	-	-	1563 m³	4562625	
3	RR masonry	500 m³	98842	-	-	500 m³	98842	
4	Flow measuring device	1 No.	600000	-	-	1 No.	600000	
II	Reconstruction of Syphons							
1	Earth Work (Combined Qty)	14950 m³	1832653	-	-	14950 m³	1832653	
2	Concrete (Combined Qty)	1640 m³	7054358	-	-	1640 m³	7054358	
3	RR masonry	790 m³	887677	-	-	790 m³	887677	
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%		330795				330795	
	Total		1550000 0				1550000 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 : AMARAVATHI SUB BASIN (LEFT OUT WORKS)

CONSTRUCTION METHODOLOGY

S. No.	Description of Item	Working Months									Rain Season					Total
		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	
I	Improvements & Reconstruction of Bridges															
1	Earth Work (Combined Qty)			2500	2500	2500	1920								9420 m ³	
2	Concrete (Combined Qty)			325	325	325	325	263							1563 m ³	
3	RR masonry			100	100	100	100	100							500 m ³	
4	Flow measuring devices							1							1 No.	
II	Reconstruction of Syphons															
1	Earth Work (Combined Qty)			3800	3800	3800	3550								14950 m ³	
2	Concrete (Combined Qty)			350	350	350	350	240							1640 m ³	
3	RR masonry			160	160	160	160	150							790 m ³	

A. WRO COST TABLE

**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 : AMARAVATHI SUB BASIN (LEFT OUT WORKS)**

S.No	Description of Work	Quantity	Amount (Lakhs)	Remarks
I	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	
l	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 @ 0.3%		0.46	
b	Provision for PS charges, Documentation Charges, Hydraulic sign boards, Photographic and videographic charges, Audit & Accounts, Advertisement, Contingencies and unforeseen items @ 2.50%		2.85	
	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 : AMARAVATHI SUB BASIN (LEFT OUT WORKS)

Machineries and Materials required for Earthwork & Concrete

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 ³
15	Metal 40mm	1481 m ³
16	Metal 20mm	916 m ³
17	Steel	1013.90 qtl
18	Rough Stone for Masonry	242 m ³

A. WRO COST TABLE

**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

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	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	
	<u>LS Provisions</u>			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		18.102	
	Total		691.25	

(P.T.O)

H. (PHYSICAL AND FINANCIAL PROGRAM)

**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

Sl. No.	Description	I Year		II Year		Qty		Amt in Lakhs
		Qty	Amt in Lakhs	Qty	Amt in Lakhs	Qty	Amt in Lakhs	
	CANAL COMPONENTS							
I	Canal Bund Improvements							
	1 Earthwork for Bund							
II	Improvement of sluices							
	1 Reconstruction							
	2 Repair							
III	Improvement of Weir							
	1 Reconstruction							
	2 Repair							
V	Supply Channel Improvement							
	1 Earthwork							
	Head Sluice							
	Outlet							
VI	Anicut improvement							
	1 Repair							
	2 Grade Wall							
	3 Irrigation Channel							
VII	Construction of check dam	1	673.148			1	Nos	673.148
VIII	Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges	-	18.102	-		-	-	18.102
IX	Measuring Devices							
	Total							691.25

Package Details

**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

Sl. 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)

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

BROAD REQUIREMENT OF CONSTRUCTION EQUIPMENT BASED ON BROAD CALCULATIONS THE EQUIPMENT REQUIRED IS LISTED BELOW

Machineries required for earth work & concrete

Sl.No	Equipment	Numbers
1	Hydraulic Excavator (± 0.90 Cu.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 (± 0.90 m width)	
5	Water tankers (Truck mounted water tankers of ± 10000 Litres)	5
6	Pneumatic Tampers/Earth Rammers (for compaction of earth fill adjoining the new concrete irrigation sluices to be constructed)	1
7	Air Compressors (± 300 cfm)	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	Requirement of Construction Equipments and Materials <u>Name of work:</u> Construction of check Dam across Amravathi river near Dharapuram town at Dharapuram AMARAVATHI SUB BASIN <u>Package 16/TN IAMWAR/WRD/AMR/WORKS/STAGE II/2012-13</u> Taluk of Tiruppur District..
	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	
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	
1 Nos	Pneumatic Tampers/Earth Rammers	6	
1 Nos	Air Compressors (±300cfm)	7	
	Plate Vibrators	8	
1 Nos	Dozer (D6 or equivalent)	9	
7 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	
7 Nos	Concrete vibrators	11	
4615 MT	Cement	12	
7980 Cum	Sand	13	
99.00 MT	Steel	14	
9960 Cum	Metal 40mm	15	
6400 Cum	Metal 20mm	16	
1650 Cum	Rough stone	17	
28000 Cum	Earth	18	

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

Sl. 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 ³	45	90	70	110			
18	M.15 Using 40mm	16330	M ³	4230	7480	5900	8800			
19	R.C.C M.20 Using 20mm	1200		340	540	650		430		
20	Steel	99.00	MT						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

Construction methodology

SI No	Description of Item	Working Months														Total
									IRRIGATION SEASON							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	
		Feb 2013	Mar 2013	April 2013	May 2013	June 2013	July 2013	Aug 2013	Seb 2013	Oct 2013	Nov 2013	Dec 2013	Jan 2012	Feb 2013	Mar 2013	
	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	200								1200
	steel		10	15	25	20	20	9								99

A. WRO COST TABLE

Name of work: : Construction of Protection 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

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	
	<u>LS Provisions</u>			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		14.08	
	Total		581.00	

(P.T.O)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	Environmental Charges		Nil	
	Ground water		Nil	
	Grand Total		581.00Lakhs	

Abstract

10.Canal Component	---	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 Protection 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

Sl. No.	Description	I Year		II Year				Amt in Lakhs
		Qty	Amt in Lakhs	Qty	Amt in Lakhs	Qty		
	CANAL COMPONENTS							
I	Canal Bund Improvements							
	1 Earthwork for Bund							
II	Improvement of sluices							
	1 Reconstruction							
	2 Repair							
III	Improvement of Weir							
	1 Reconstruction							
	2 Repair							
V	Supply Channel Improvement							
	1 Earthwork							
	Head Sluice							
	Outlet							
VI	Anicut improvement							
	1 Repair							
	2 Grade Wall							
	3 Irrigation Channel							
VII	Construction of check dam	5	566.92			5	Nos	566.92
VIII	Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges	-	14.08	-		-	-	14.08
IX	Measuring Devices							
	Total		581.00					581.00

**Name of work: : Construction of Protection 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

Sl. No.	Name of irrigation Anicuts	No of Anicut	Amount in Lakhs
1.	Construction of Protection 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)

Name of work: : Construction of Protection 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

Sl.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 of ± 10000 Litres)	5
6	Pneumatic Tampers/Earth Rammers (for compaction of earth fill adjoining the new concrete irrigation sluices to be constructed)	1
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	<p style="text-align: center;">AMARAVATHI SUB BASIN</p> <p style="text-align: center;">Name of work : Construction of Protection wall in Santhanavarthini River in Vamparpatty , Avilipatty,</p> <p style="text-align: center;">Veerachinnapatty Village of Dhindugal Taluk of Dhindugal District.</p> <p style="text-align: center;">Package 17/TTN IAMWAR/WRD/AMR/WORKS/STAGE II/2012-13</p> <p style="text-align: center;">Requirement of Construction Equipments and Materials</p>
-	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	
10 Nos	Tippers/Lorries(8 to 10 Tonne)	3	
-	Power Rollers/Vibratory Power Roller	4	
3 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	
-	Pneumatic Tampers/Earth Rammers	6	
-	Air Compressors (±300cfm)	7	
-	Plate Vibrators	8	
-	Dozer (D6 or equivalent)	9	
10 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	
10 Nos	Concrete vibrators	11	
5255 MT	Cement	12	
7299 Cum	Sand	13	
18.00 MT	Steel	14	
8759Cum	Metal 40mm	15	
5839 Cum	Metal 20mm	16	
7 Cum	Rough stone	17	
-	Earth	18	

Name of work: Construction of Protection 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

CONSTRUCTION METHODOLOGY

S. No.	Description of Item	Working Months									Rain Season					Total
		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	
I	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