GOVERNMENT OF TAMILNADU

WATER RESOURCES DEPARTMENT

TN IAMWARM PROJECT

AMARAVATHI SUB BASIN

DETAILED PROJECT REPORT

AMOUNT RS.12831 Lakhs

Coimbatore Region
Coimbatore - 1

TNIAMWARM PROJECT

AMARAVATHI SUB BASIN

WATER RESOURCE DEPARTMENT

WATER RESOURCES ORGANISATION

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1.1 INTRODUCTION

TN IAMWARM Project
Phase – IV Sub Basin
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	57	-	20052.59	
	Total	**20**	**53334.22**	**82**	**44**	**60**	**465.321**	**53334.22**	

2. Status of Convergence Table:

I. No. of Cluster : 121
II. WRO Activities : Seperately enclosed
III. Line Department Activities Furnished : Seperately furnished by the individual Departments

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 : Furnished separately by individual departments

6. Abstract on details of Irrigation
Infrastructure available & Works

Tanks works taken	:	92Nos
Measuring device	:	12 Nos
Total	:	104 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:

I. No. of Packages	:	22 Nos.

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 aqgriculture practices.

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

1.2 DESCRIPTION OF THE AMARAVTHI SUB BASIN

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

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

TRIBUTARIES OF AMARAVATHI SUB BASIN:

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

RESERVOIRS IN AMARAVATHI SUB BASIN

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

IRRIGATION SYSTEMS IN AMARAVATHI SUB BASIN

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

SCOPE OF THE PROJECT

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

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

WATER RESOURCES DEPARTMENT

In order to improve the conveyance and operational efficiency, it is now proposed 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

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	Varathamanadhi system		3397.69		3193.38	
7	Parappalar system	199.75	1001.53		1201.28	
8	Kodaganar system	2159.85	4413.30		6573.15	
9	Nangangiar system	1471.03	1058.25		2529.28	
10	Nallathangal Odai System			1920.65	1920.65	
11	Vaddamalaikarai Odai System			2454.66	2454.66	
12	Uppar system			2452.44	2452.44	
13	Ramakkal odai system		107.69		107.69	
14	Sangilian kovil odai system		151.75		151.75	
15	Nayodai system		185.53		185.53	
	TOTAL	9286.00	20052.59	23995.63	53334.22	

PRESENT CONDITION OF THE AMARAVATHI SUB- BASIN SYSTEM :

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

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

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

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

The Amaravathi Main canal was excavated on the left bank of Amaravathi river in the year 1959 and lined during the year 1972-73 for 12 Kms and remaining 51.20 Kms were lined during 1982-85. Due to its long run and continuous usage, lining from LS 0 to 12.50 Km was completely damaged and dilapidated in many pieces. From 12.50 KM to 63.20 Km, bed and side linings are damaged in few reaches which now need rehabilitation. The distributaries have been lined only in secletive reaches which are also damaged at present. Owning to this, the tail end farmers are not getting the assured & reliable supply.

The sluices and cross masonry structures are also in damaged condition and hence effective water regulation could not be done in a systematic manner with substantial loss of water by way of leakages etc. .

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

AMARAVATHI RESERVOIR:

River Amaravathi is a major tributary of Cauvery. It originates in the Western Ghats near Munnar in Kerala State at about (+) 1524 m above MSL and flows through the dense forest of the Anamalai range of hills in Coimbatore District. It enters the plain near Amaravathi Nagar at (+) 335 m above MSL. It is situated at about 18 km from Udumalpet. Amaravathi River traverse to a length of about 220 Km and joins Cauvery river at Thirumukkudal near Mayanur. The river flows through Tiruppur and Karur District.

Amaravathi Reservoir was constructed across the Amaravathi River during the year 1953-1958. It lies in the western part of Anamalai hills in Tiruppur District at a Latitude of 10^0 24 ′55.86′ N and Longitude of 77 ^{0} 15 ′49.3′ E. The Reservoir has a free catchment area of 324 sq. miles and water spread area of 3.50 sq. miles. It has a capacity of 4047 Mcft and the FRL is 1175 ft. Amaravathi reservoir irrigates an extent of 29387 Acres in Old Command and 25,250 Acres in New Command.

AMARAVATHI OLD CHANNEL SYSTEM :

The Irrigation components of the system comprise of many anicuts. The River irrigation system is served by 18 irrigation channels taking off from 16 Anicuts. Kallapuram and Ramakulam Channels are taking off from

the Dam itself. All the anicuts across the Amaravathy River right From Komaralingam anicut upto Pallapalayam Anicut are masonry anicuts.

At present the Amaravathi old system comprises of the following channels.

Sl No	Name of Channel	Length Channel	Total ayacut	District
1	Ramakulam channel	9.991 KM	560.10 Ha	Tirup-pur
2	Kallapuram channel	11.335 KM	560.10 Ha	
3	Komaralingam channel	15.691 KM	509.510 Ha	
4	Sarkar Kannadiputhur channel	11.466 KM	267.50 Ha	
5	Sholamadevi channel	7.167 KM	234.72 Ha	
6	Kadathur channel	11.667KM	473.90 Ha	
7	Kaniyur channel	8.045 K.M	157.83 Ha	
8	Karatholuvu channel	12.472 K.M	252.93 Ha	
9	Alangium Channel	11.265 K.M	426.55 Ha	
10	Dhalavaipattinam channel	11.332 K.M	377.18 Ha	
11	Dharapuram Channel	24.139 K.M	978.15 Ha	
12	Kolinjivadi channel	24.541 K.M	1305.95 Ha	
13	Nanjaithalayur channel	9.957 K.M	199.02 Ha	
14	Chinna Dharapuram channel	21.122 KM	760.02 Ha	**Karur**
15	Sundakkampalayam channel	7.638 KM	118.17 Ha	**Tirup-pur**
16	Nanjakkalakurichi channel	10.178 KM	160.26 Ha	**Karur**
17	Left Bank canal	37.615 KM	2292 Ha	
18	Right Bank canal	27.650 KM	2259.87 Ha	
Total		**263.271 KM**	**11892.76 Ha**	

THE PRESENT STATUS OF AMARAVATHI OLD CHANNELS :

The Amaravathi old channels were completely covered with thick jungles and weeds are grown along the slope of channels. Further, the earthen channel slope was completely eroded and damaged in many places and the supply channels are now become out of standards. Besides the in-effective sectional profile of the channel have severely hampers the free flow of water in in the channels. Now it is proposed to Construct Concrete protection wall in the above channel portions in selective stretches.

The sluices and cross masonry works were constructed during the project period. How most of the sluice structures & shutters are in damaged condition and hence water regulation could not be done in an effective manner and loss of water through the sluices are also abnormal. Necessary provisions are given in this estimate to reconstruct the sluices, renewal of shutters and pipes. Many cross masonry works, bridges, under tunnels and culverts are also in damaged condition and need to be rehabilitated.

PROPOSED RESTORATION COMPONENTS :

This restoration programme does not involve any land acquisition of any other statutory clearances including forest or environmentl clearances and these packages have been initiated for the areas and structures not covered under any other local area development programmes.

The proposal envisages restoration of the vital infrastructures in order to improve the irrigation efficiency of this old system so as to bridge the gap in the Ayacut, besides stabilization of the existing command. Adequate focus is made towards strengthening of bund, repairs, replacement of shutters of sluices and construction of Concret protection walls, etc.

Accordingly proposals have been formulated towards carrying out the following restoration works.

1. Providing Concrete Protection walls in weaker portions of canal banks and curved portions of the channel.

2. Desilting the channel and standardization & strengthening of channel banks, which includes resectioning to the designed profile of the canal banks.

3. Repairs to sluices and renewal of damaged paddle shutters with sluice shutters
4. Repairs to cross masonry works and construction of the inlets & outlets.
5. Provision for construction of new culverts and approach bridges.
6. Provision for Demarcation survey for identifying the boundaries of channels and fixing the boundary stones at 200m intervals and kilometre stones along the entire length of channel.
7. Lumpsum provision for documentation Charges, Photographic & Video Charges, Audit and Account charges, Unforeseen items, Petty Supervision Charges and Contingencies at 2.5%
8. Labour welfare fund at 0.30 %

AMARAVATHI MAIN CANAL:

Amaravathi Main Canal was excavated on the left bank of Amaravathi River having its head sluice in the left flank of dam. This is a Contour Canal and the command area is distributed in Udumalpet, Madathukulam and Dharapuram Taluks. The length of Amaravathi Main Canal is 63.200 Km and the ayacut under this canal is 25,250 Acres with single Crop. The Main Canal has 22 distributories. The carrying capacity of the Amaravathi Main Canal is 440 cusecs.

Every year, water is released through the Amaravathi Main Canal from August to January of next year. The Major crops grown in the new command are Sugarcane, Paddy, Coconut, Maize, groundnut and other dry crops.

PRESENT STATUS OF THE AMARAVATHI MAIN CANAL :

Along the banks of Amaravathi main canal, pulpwood trees are planted before 40 years and due to this, the roots are penetrating inside the canal resulting in heavy damags to the side lining. Due to the long run and age and also due to the inadequate maintenance owing to the paucity of funds, the lining of canals from LS 0 to 12.50 km have been completely damaged and are in dilapidated condition in a few reaches.. Due to this, heavy loss of water is noticed. The Distributaries are also not lined except some major distributaries which are lined in small segments portions.

The sluices and sluice shutters are also in damaged condition. The under tunnels are also leaking heavily. Due to this, conveyance efficiency of the canal has reduced considerably and the tail end areas are not getting the adequate supply of water.

The canal banks in many places have been extensively eroded and damaged due to the movement of heavy vehicles, sugarcane ladden lorries

etc., Due to this, the canal water are overflowing during the irrigation period. The pipe syphons which are inadequate in the main canal are frequently chocked with the debris and fallen dead woods

The sluices, sluice shutters and cross masonry structures in the distributaries are also completely damaged and hence effective water regulation is not possible, resulting in unreliable inadequate supply to the tail end areas.

PROJECT PROPOSAL

1. Provision for lining with precast cement concrete slab of 5 cm thick for the sides and bed Lining with Cement Concrete M 15 grade for 7.5 cm thick using Concrete paver for the AMC at a few reaches as described below..

   I. **From LS 0 KM to 12.5 Km**

   Bed lining for 11241m and side slope lining for 11927 m (Bed lining with paver)

   II. **From LS 12.50 Km to 46.50 Km**

   Bed lining for 370m by manual arrangement, PCC slab sides lining for 4485 m and raking & pointing of joints in the existing lining for 17600 m at selected (intermittent strecthes.)

   III. **From LS 46.50 Km to 63.20 Km**

   Bed lining for 2904 m by manual arrangement new side lining for 110m and raking & pointing of joints in the existing lining for 6430 m besides providing of new lining with PCC for 846 m at slected stretches.

2. Provision for lining with Plain cement concrete M 15 grade for bed and sides for the distributaries and field bothies. (for bed width <1m and >2m).

3. Provision for lining with plain cement concrete M15 grade for sides of Distributories having the bed width from 1m to 2 m by using **slip form steel gantry**.
4. Provision for repairs to the sluices and renewal of damaged paddle shutters by screw gearing steel shutters.
5. Provision for repairs to cross masonry structures such as drops, syphons, etc.,
6. Provision for strengthening and standardization of canal banks.
7. Provision for fixing kilometer stones at 200 m intervals.
8. Provision for demarcation stones for fixing the boundaries of canal banks.
9. Provision for porus plug, transverse contraction joints and expansion joints.

PALAR PORUNDALAR RESERVOIR

This reservoir is constructed across the two streams Palar and Porundalar Rivers in Balasamudram village of Palani Taluk. The catchment area at the dam site is 259.00 Sq Km and the Gross capacity is 1524mcft.

This system irrigates 1396.70Ha of zamin vaikal ayacut, 1522.37Ha of Thadakulam ayacut, old ayacut & Manur extension canal ayacut and 3885Ha of new ayacut. The new ayacut have been irrigated by the left main canal. Also there are non system tanks existing in this minor sub basin under which 1022.40Ha is benefited.

The canal bund, sluices, cross masonries along the canal were constructed during formation and now lost its original standards Hence, water regulation is not possible in an effective & systematic manner due to loss of water through the damaged portions, besides the water could not reach the tail end. These all are`in considerable need of Modernization.

Proposed rehabilitation proposals:

PALAR – PORUNDALAR SYSTEM LEFT MAIN CANAL

Reach 1 – LS 0.00 km to 3.100 km	- RCC Trough with cross drainage works
Reach II – LS 3.100 km to 8.100 km	- PCC retaining wall on both sides with paver concrete in bed, along with necessary cross drainage works.
Reach III – LS 8.100 km to 40.520 km	- Entire reaches bed lining with paver and manual over bed and haunches. - - Strengthening of canal banks and lining on selective reaches for both sides. - Necessary inlet and outlet, remodelling and reconstruction of works. -Provision of screw gearing shutters for entire reach

In order to rehabilitate the System and Non system Tanks in the palar – porundalar system, the following items of works are proposed.

- Bund raising and strengthening
- Reconstruction of sluices and sluice barrel.
- Repairs to weirs, barrel portion, apron, revetment, etc.
- Lining of supply & outlet channel
  upto 30 m.
- Demarcation of boundary.
- Desilting of supply channels
- Reconstruction of Kalayamputhur anicut across Porandalar River.

<u>VARATHAMANADHI RESERVOIR</u>

This reservoir is constructed across Varathamanadhi River in Palani Taluk of Dindigul District. The catchment area at the dam site is 74.07 sq.km and the gross capacity is 108mcft.

This system commands` 707.36Ha of old ayacut having direct irrigation facilities through channels and 1530.44Ha have been irrigated from sluices

in system tanks. Also, There are non system tanks existing in this minor sub basin under which 955.57 Ha is benefited.

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In order to rehabilitate the System and Non system Tanks in the Varadhamanadhi System, the following items of works are proposed.

1. Bund Strengthening and Raising.
2. Construction of measuring devices.
3. Reconstruction of sluices, Sluice barrels.
4. Repairs to weirs, Aprons, Revertment.
5. Lining of inlet and outlet channels upto 30 m.
6. Demarcation of boundaries.
7. Rehabilitation of Anicuts.

KUTHIRAIYAR RESERVOIR

This reservoir is constructed across Kuthiraiyar river near Pappampatty village of Palani Taluk of Dindigul District. The catchment area at the dam site is 71.40 sq.km and the gross capacity is 253mcft. This system contemplates old and new ayacut area of about 2470.46Ha in Dindigul and Tirupur Districts.

The tanks, anicuts and supply channels are being maintained with the available annual maintenance of fund which is insufficient for upkeeping the system in good condition.

In order to rehabilitate, the following items of works are proposed.

1. Rehabilitation of Tanks, Anicuts and supply channels.
2. Tank bund raising and strengthening works.
3. Repairs and reconstruction of Tank sluices, sluice barrels.
4. Lining of outlet channels upto 30 m.

5. Demarcation of boundaries.

6. Construction of measuring devices.

PARAPPALAR RESERVOIR

This reservoir is constructed across Parappalar in Vadakadu village of Oddanchatram Taluk of Dindigul District. The catchment area at dam site is 45.02 sq.km and the gross capacity is 197.95mcft.

This system feeds 7Nos of tanks having total ayacut area of 940.63Ha. This minor sub basin is also having non system tank under which 1926.60Ha of land is being benefited.

KODAGANAR RESERVOIR

This reservoir is constructed across Kodaganar river in Alagapuri village of Vedasandur Taluk of Dindigul District. The catchment area is 1670 sq.km and the gross capacity is 434 mcft.

This system feeds two main canals viz., Right Main Canal and left Main Canal. The right main canal has an ayacut area of about 2966.40Ha and left main canal of 675.85 Ha. After 26.56km, the right main canal extends and acts as a flood carrier which feeds 4Nos of tanks in Karur District, under Ariyar Basin.

The tanks, anicuts, main canals and supply channels are maintained with the available meagre annual maintenance funds which are insufficient for upkeeping the system in good condition.

The tank bunds are found eroded in many places and gullies formed and are below the standards. In supply channels the head sluices are also in damaged conditions.

To restore and upkeep the canals, Tank bunds, Anicuts, sluices, weirs, canals and supply channels the following rehabilitation proposal has been made.

TANK COMPONENTS

The practice of tank irrigation has been prevalent for time immemorial. Tanks help to store water for lean season and have played a significant role in the irrigation sector. They not only provide a source for irrigation but also help in recharging ground water under suitable conditions. There are 3 **Non-system tanks** with an ayacut of **147.47ha in Amaravathi Reservoir system.** These tanks are quite old and are in urgent need of repairs & rehabilitation. The irrigation potential of these tanks has declined with siltation, poor maintenance of sluices, bund erosion and failure of the distribution system.

The system tanks and the non system tanks located in the Amaravathy sub system are tabulated as below.

Sl. No.	Amaravathy sub basin	System Tank		Non System	
		No	Ayacut (ha)	No	Ayacut (ha)
1	Amaravathy Reservoir System	-	-	3	147.47
2	Kudhiraiyar system	9	622.19	-	-
3	Palar Parapplar system	10	1522.37	10	1022.40
4	Varadhamanadhi system	18	1530.44	9	960.12
5	Parappalar system	7	1201.28	-	-
6	Kodaganar system	-	-	38	3372.59
	Total	**44**	**4876.28**	**60**	**5502.58**

Total No of tanks: 104 Nos.

Total Ayacut : 10378.86 Ha

Rehabilitation Proposal:

Out of 104 tanks located in the Amaravathy Sub Basin standardization and strengthening of tank bunds repairs and reconstruction of sluice, works lining of leading channel from sluice for 30 mm length, providing necessary devices are proposed in 86 tanks.

For the remaining 18 tanks, lining of leading channel for 30 m length with measuring devices are proposed.

SCOPE OF THE PROJECT

By taking up the rehabilitation works in this project, equitable & reliable water distribution can be achieved. The conveyance efficiency of the system will also improve Finally the livelihood of the Farmers and the social economy will be enhanced.

Further the following objectives will also be achieved by the implementation of this project.

1) Involving the Water User Associations in each and every aspect of planning, water management, water regulation, water budgeting and over all maintenance of irrigation structures by involving the stake holders themselves.
2) Educating the farmers improved production techmologies in Agriculture for the crops like paddy, pulses, and horticultural crops etc.
3) Improving the financial capacity of the farmers by divertised activate like Inland aquaculture live stock production etc.
4) Introducing to the farmers the latest agricultural equipments to enhance agricultural productivity and also to provide marketing support so as to enable the farmers to get reasonable margin.

UPPAR DAM :

The Uppar Dam was constructed across Uppar River in Kallivalasu Village in Dharapuram Taluk of Tiruppur District during the period from 1965 to 1968. The Uppar Reservoir is located at a latitudes of 10^0 49′ 10′′ N and a longitude of 77^0 25′ 20′′ E. The scheme envisages utilization of return flows from the ayacut of Parambikulam Main Canal and Udumalpet Canal in addition to dependable yield from the own catchment. The scheme was thrown open for irrigation in 1969. The normal cultivation in about 90% of the ayacut area is Dry crops like Cotton, Ground nuts, etc.

SALIENT FEATURES:

Two Canals take off from both flanks of the dam and run in Contour. They irrigate a total ayacut of 6060 acres (2452 Hectares). The Right Flank Canal is 12.47 KM long. It has an ayacut of 2510 acres (1015 Hectares). The left Flank canal is 17.29 Km long with an ayacut of 3550 Acres (1437 Hectares).

The Right and left flank canal are designed to carry total discharges of 75.30 cusecs (2.13 Cumecs) and 106.50 cusecs (3.02 cumecs) respectively. The hydraulic particulars of the canals are appended.

PRESENT CONDITION – DEFECTS AND DEFICIENCIES:

The canals under the scheme were excavated during 1968-69 as earthen ones. They have been designed as contour canals. The nature of soil strata is mostly hard Gravelly soil and Murram. To avert serious damages to the canals and neighbouring Private lands, lining has been done already to certain portion of the canals under maintenance before 2000. There is a considerable loss in transmission due to seepage. The rugocity for earthen canal is more and naturally the velocity is less. Also, loose earth from the banks slip into the canal during rainy seasons causing formation of shoals etc. in many places. Due to such recurring process for the past 3 decades, the canals have lost their

standards in many places. Because of the above deficiencies, enormous practical difficulties are experienced in supplying the required water for the tail end areas Hence the ryots make frequent representions that they are not getting the required supply of water in time for their fields. Therefore the lining of Canal was proposed during 1999-2000 to a length of 0.000 - 4.660 KM in Right Flank Canal and 0.000 - 6.500 Km in Left Flank Canal under WRCP. The above Work was commenced during 2000 and work was completed in 2002 and same is in good condition. Now the balance length of Canal is proposed to be rehabilitated as below.

Description	Right Flank Canal	Left Flank Canal
Total Length of Canal	12.470 Km.	17.290 Km
Length of Canal lining already done in WRCP	LS 0.000 Km. to LS 4.660 Km.	LS 0.000 Km to LS 6.500 Km.
Now proposed to be lined under IAMWARM - Phase IV	LS 4.660Km.to LS 12.470Km.	LS 6.500 Km. to LS 17.290 Km.
	5.940 KM	8.450 KM
a) Proposed Bed lining b) Proposed Bed and side lining	4.870 KM 1.070 KM	8.450KM -

NECESSITY FOR THE PACKAGE:

The development of ayacut is only 80% of the area thrown open. Hence, there is a gap of 20% which is not receiving water in the tail end till time. This Package is essential for bridging the above gap.

DETAILS OF PRESENT PROPOSALS:

The existing earthen canals will be rehabilitated with Cement Concrte bed lining for the entire canal segments and lining of the side slopes at selective reaches. The important items of works involved are indicated below:

Main Canal:

1. Clearing of Scrub Jungle and Juli flora Jungle.
2. Removal of Slipped earth over bed.
3. Dismantling the dilapidated /damaged stone masonry and damaged Plain cement concrete of the existing canal lining.
4. Repairs and reconstruction of cross masonry works.
5. Lining the bed with M15 grade cast in situ PCC, by manually, lining for sides with PCC slab of M15 grade, size 60 x 45x5 cm and pointed with Cement Mortor 1:2
6. Providing porous concrete plugs & porous slab (pressure relief arrangements) in water logging areas.
7. Supplying and filling the expansion joint with sealant material.
8. Standardization & strengthening of eroded canal banks.
9. Screw gearing shutters are proposed to be fixed in the sluices to Ensure adequate regulated supply of water through the sluices.
10. Hydraulic information boards are placed at sluices offtake points & key locations.
11. Provision for surveying and demarcate the P.W.D. lands and fixing of demarcation stones.

Provisions are also made for labour welfare fund, audit and account charges, documentation charges, photography and video charges, advertisement charges and contingencies.

APPROACH TO REHABILITATE THE IRRIGATION SYSTEM AND SERVICE DELIVERY:

a. Thematic Maps on land use, soils, crops, water bodies, and other agricultural and demographic attributes are prepared by IWS.
b. The crop water requirements for the crops during without project and with Project situations are prepared by IWS. The crops proposed by Agriculture and Horticulture Departments will be tailored in consultation with Agricultural Marketing Department and the Water Users Association.
c. The Inventory and Present Condition of the canal system and Rehabilitation of the Distribution System have been proposed by WRD as below:

d. Rehabilitation of Sluices and Renewal with Screw Gearing Shutters.
e. Rehabilitation of Cross Masonry Structures
f. Lining the Bed and Sides of Amaravathi Main Canal and Distributories
g. Construction of Concrete protection walls in Old Channels
h. Standardizing & strengthening the Canal Banks
i. Standardizing & strengthening the Tank Bund
j. Rehabilitation of Supply Channel from Anicut to Tanks
k. Rehabilitation of Anicuts and Weirs
l. Providing approach bridges to the Farmers
m. Strengthening of PIM activities

The following L.S Provisions have also been made in this Estimate.

1. Lumpsum Provision for Labour welfare fund @ 0.30 %.
2. Lumpsum Provision for Advertisement charges, Documentation, Hydraulic information Board Photographic charges, PS &Contingencies @ 2.5 %.

LIST OF PACKAGES PROPOSED IN AMARAVATHI SUB BASIN

Pakage. No.	Name of work	Est.Amount (in lakhs)
1	Rehabilitation of Amaravathi Main Canal from LS. 0/0 km to 12/50 km	1093
2	Rehabilitation of Amaravathi Main Canal from LS. 12/50 km to 46/50 km	464
3	Rehabilitation of Amaravathi Main Canal LS 46/500 km to 63/200 km and distributaries from 46/500 km to 53/500 Km of Amaravathi Main canal.	590
4	Rehabilitation of Distributories from L.S 0/0 km to 26/55 km of Amaravathi Main Canal.	398
5	Rehabilitation of Distributories from L.S 26/55 km to 46/20 km of Amaravathi Main Canal.	411
6	Rehabilitation of Distributory at LS 49/880 and Distributories from L.S 53/500 km to 63/200 km of Amaravathi Main Canal.	602
7	Rehabilitation and Restoration of Ramakulam old channel, Kallapuram old Channel, Komaralingam old channel and SarkarKannadi pudur old channel in Amaravathi river system of Tiruppur District.	601
8	Rehabilitation and Restoration of Solamadevi old channel, Kaniyur old channel, Kadathur old channel and karatholuvu old channel in Amaravathi river system of Tiruppur District.	400
9	Rehablitation and restoration of Alangium channel, Dhalavaipattanam channel, Dharapuram channel and Kolinjivadi channel of Amaravathi river system in Tirupur District.	595

10	Rehablitation and restoration of Najaithalaiyur channel, Sundakkampalayam channel, Chinna Dharapuram channel , Nanjaikalakurichi channel and Non-System tanks and Vattamalai Karai Odai Dam supply channel under Amaravathi river system in Karur and Tirupur District.	465
11	Rehabilitation and restoration of Left bank channel taking off from Pallapalayam anicut in Amaravathi river system in Karur District.	500
12	Rehabilitation and restoration of Right bank channel taking off from Chettipalayam anicut in Amaravathi river system in Karur District.	300
13	Rehabilitation of Left Main canal from LS. 0 – 8100M of Palar Porundalar system of Amaravathi Sub Basin in Palani Taluk of Dindigul District.	1719
14	Rehabilitation of Left Main canal from LS. 8100M to 40520M of Palar Porundalar system of Amaravathi Sub Basin in Palani Taluk of Dindigul District.	522
15	Rehabilitation of system tanks, Anicuts and supply channels of Palar Porundalar system of Amaravathi Sub Basin in Palani Taluk of Dindigul District.	653
16	Rehabilitation of Non-system tanks, Anicuts and supply channels of Palar Porundalar and Varadhamanadhy systems of Amaravathi Sub Basin in Palani Taluk of Dindigul District.	590
17	Rehabilitation ofsystem tanks, Anicuts and supply channels of Varadhamanathi system of Amaravathi Sub Basin in Palani Taluk of Dindigul District.	500
18	Rehabilitation of system tanks, Anicuts and supply channels of Kudhuraiyar system of Amaravathi Sub Basin in Palani and Madathukulam Taluks of Dindigul and Tirupur Districts.	500

19	Rehabilitation of Tanks, Anicuts and supply channels in Parappalar and Kodaganur systems of Amaravathi Sub Basin in Oddanchatram and Aravakurichi Taluk of Dindigul and Karur Districts.	556
20	Rehabilitation of Tanks, Anicuts and supply channels in Upper Kodaganar of Amaravathi Sub Basin in Oddanchatram, Dindigul and Vedasandur Taluk of Dindigul District.	599
21	Rehabilitation of Tanks, Anicuts and supply channels in Varattar River , Right and Left main canals of Kodaganar Reservoir @ Alagapuri village of Vedasandur Taluk in Dindigul District and Aravakurichi Taluk of Karur District.	540
22	Rehablitation of leftout reaches in right Flank Canal from LS 4.660 KM to 12.470 KM and Left Flank Canal from Ls 6.500 KM to 17.290 KM of Uppar Dam	198
23	Environmental activities in the Amaravathy Sub Basin	35
	Total	**12831**

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 about 179 WUA shall 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 sector 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 displinary integrated and convergent approach will certainly facilitate achieving the project mission of more income per drop.

EXECUTIVE ENGINEER, PWD, WRD,
AMARAVATHI BASIN DIVISION, KARUR.

Superintending Engineer, P.W.D.,
W.R.O. Special Project Circle
PALANI - 624 601

Chief Engineer, W.R.O.
Coimbatore Region, P.W.D.
Coimbatore - 641 001

CONVERGENT TABLE- ABSTRACT (FOR EACH CLUSTER)

Sl No.	Number & Name of the cluster	Total Ayacut (Ha)			Total Area (Ha)			WRD Activities		Agriculture		TNAU		Horticulture		Agri marketing		AED		Fisheries		Animal Husbandry	
		FI	PI	Gap	Wop	WP	Gap	Activities	Length / Nos.	Act	No./ Ha	Act	No./ Ha	Act	No./ Ha	Act	No./ Ha	Act	No./ Ha	Act	No./ Ha	Act	No./ Ha
1	2	3	4	5	6	7	8	9		10	11	12	13	14	15	16	17	18	19	20	21	22	23
AMARAVATHI MAIN CANAL																							
1	AMC - ELAYAM UTHUR	274.76	99.33	36.00	374.09	410.090		RCSluice, ch.lining, St.banks , De.chl	18Nos 8500m. 8000 m 8500 m														
2	AMC - PERUMALPUTHUR	355.98	98.075	61.92	454.055	515.975		RCSluice, ch.lining, St.banks , De.chl	9Nos 5480m. 5000 m 5480 m														
3	AMC – SAMARAPATTI	125.83	35.03	13.90	160.86	174.760		RCSluice, ch.lining, RC drops St.banks , De.chl	10Nos 3600m. 3Nos 3600 m 3600 m														
4	AMC – REDDIPALAYAM	372.96	82.88	62.16	455.84	518.000		RCSluice, ch.lining, RC drops St.banks , De.chl	17Nos 6300m. 11Nos 6300 m 6300 m														
5	AMC - PAPPANKULAM	205.25	83.68	26.84	288.93	315.770		RCSluice, ch.lining, RC drops St.banks , De.chl	7Nos 6300m. 6Nos 6300 m 6300 m														
6	AMC – BOTHANACKIANUR	177.21	53.165	22.78	230.375	253.155		RCSluice, ch.lining, RC drops St.banks , De.chl	9Nos 4800m. 4Nos 4800 m 4800 m														
7	AMC - SALARAPATTI	269.29	93.84	44.88	363.13	408.010		RCSluice, ch.lining, RC drops St.banks , De.chl	13Nos 5100m. 9Nos 5000 m 5100 m														
8	AMC – AGRAKARA KANNADAPUTHUR	219.20	65.00	32.10	284.20	316.300		Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	16 Nos. 13 Nos 4404M 4404 M Nil 1 No. 8 Nos.														
9	AMC – VEDAPA	167.21	62.52	24.32	229.73	254.050		Pipe point Re sluice St.bund	16 Nos. 16 Nos 4280 M														

	TTI							Lining Pipe culvert RCC culvert Drops	4280M Nil 1 No. 10 Nos.														
10	AMC – MYVADI	212.15	47.36	28.33	259.51	287.840		Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	16 Nos. 12 Nos 2000 M 2000 M Nil Nil Nil														
11	AMC – JOTHAM PATTI	291.90	90.94	34.41	382.84	417.250		Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	16 Nos. 14 Nos 5560 M 5560 M Nil 2 Nos. 5 Nos.														
12	AMC – THUNGA VI - I	229.68	100.14	19.03	329.82	348.850		Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	16 Nos. 22 Nos 9100 M 9100 M Nil 2 Nos. 5 Nos.														
13	AMC – THUNGA VI - II	278.14	51.40	23.08	329.54	352.620		Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	16 Nos. 7 Nos 4430 M 4430 M Nil Nil Nil														
14	AMC – KARATHOLUVU – II	414.52	164.89	39.27	579.41	618.680		Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	16 Nos. 20 Nos 5715 M 5715 M Nil 3 Nos. 29 Nos.														
15	AMC - PONNAPURAM	242.92	91.22	19.03	334.14	353.170		Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	16 Nos. 10 Nos 4804 M 4804 M 2 Nos. 2 Nos. 29 Nos.														

16	AMC – KANGAYAMPALAYAM – I	143.60	44.92	10.93	188.52	199.450		Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	11 Nos. 5Nos 2290 M 2290 M Nil 1 No. 17 Nos.														
17	AMC – KANGAYAMPALAYAM – II	276.45	108.00	34.41	384.45	418.860		Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	23 Nos. 19 Nos 6605 M 6605M 1 No. Nil. 40 Nos.														
18	AMC – KANGAYAMPALAYAM – III	233.59	71.34	24.29	304.93	329.220		Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	17 Nos. 12 Nos 4391 M 4391 M 3 Nos. 1 Nos. 40 Nos.														
19	AMC – SELLAMPALAYAM -I	206.88	51.71	28.75	258.59	287.34		Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	17 Nos. 10 Nos 4124 M 4124 M 2 Nos. 42 Nos.														
20	AMC – SELLAMPALAYAM -II	323.89	60.14	36.44	384.03	420.470		Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	12 Nos. 13 Nos 6181M 6181 M 2 Nos. 42 Nos.														
21	AMC – KANGAYAMPALAYAM – IV	211.55	74.67	29.52	286.22	315.740		Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	6 Nos. 14 Nos 3957M 3957 M 3 Nos. 1 Nos. 30 Nos.														
22	AMC – SINNAKAMPALAYAM -I	226.32	49.35	28.34	275.67	304.010		Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	5 Nos. 11 Nos 4319 M 4319 M 1 Nos. 32 Nos.														

23	AMC – SINNAK AMPALA YAM –II	246.57	51.88	29.65	298.45	328.100		point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	20 Nos. 43 Nos 6800 M 6800 M 2 Nos. 1No. 40Nos.														
24	AMC – SINNAK AMPALA YAM –III	251.46	93.43	36.44	344.89	381.330		Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	9 Nos. 13 Nos 5077M 5077M 1No. 1 No. 35 Nos.														
25	AMC – SINNAK AMPALA YAM –IV	375.61	82.66	99.19	458.27	557.460		Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	8Nos. 31Nos 14314 M 14314 M 1 No. 1 No. 42Nos.														
26	AMC - CHINNA PUTHUR	355.65	141.70	80.97	497.35	578.320		Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	12 Nos. 25 Nos 5845 M 5845 M 1No. 1 No. 40 Nos.														
27	AMC – GOVIND APURAM - I	396.09	72.38	33.20	268.47	301.670		Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	8 Nos. 6 Nos 3266 M 3266 M 2 Nos. Nos.. 35 Nos.														
28	AMC – GOVIND APURAM – II	163.66	59.38	28.75	223.04	251.790		Pipe point Re sluice St.bund Lining Pipe culvert RCC culvert Drops	8 Nos. 1 No 3144 M 3144 M 2 Nos. 1 Nos. 30 No.														
GRAND TOTAL					16230.565																		
29	**AOC – I RAMAKULAM**	457.70	80.00	22.40	537.70	560.100		-- RCSluice, RC outlet, Rtn.Wall St.banks , De.chl	40 Nos 1 No. 870 m. --- 9991m														

30	**AOC – II KALLAPURAM**	495.10	50.00	15.00	545.10	560.100		RCSluice, RC outlet, Rtn.Wall St.banks , De.chl	42 Nos 1 No. 570 m. 11335 m 11335 m														
31	**AOC – III KOMARALINGAM**	431.51	61.00	17.00	492.51	509.510		RCSluice, RC outlet, Rtn.Wall St.banks , De.chl	53Nos 4 Nos. 630 m 13550 m 15500 m														
32	**AOC – IV SARKAR KANNADI PUTHUR**	230.40	24.10	13.00	254.50	267.500		RCSluice, RC outlet, Rtn.Wall St.banks , De.chl	64Nos 3Nos. 410 m 4100 m 11466 m														
33	**AOC – V SHOLAM ADEVI**	196.92	25.80	12.00	222.72	234.720		Re sluice RC out let Rtn wall St.bank De. chl	40 Nos 1 NO 200M 4300 M 7000 m														
34	**AOC – VI KADATHUR**	374.38	57.87	41.65	432.25	473.900		Re sluice Rtn wall St. Bank De. Chl.	64 Nos 320 m 10995M 10995M														
35	**AOC – VII KANIYUR**	119.95	23.20	14.68	143.15	157.830		Re sluice Rtn wall St.bank De. Chl.	39 Nos 200M 6310M 8000m														
36	**AOC – VIII KARATHOLUVU**	204.10	27.43	21.40	231.53	252.930		Re sluice Rtn wall St.bank De. Chl.	69 Nos 590M 10100m 10100m														
37	**AOC – IX ALANGIYAM**	332.72	55.45	38.38	388.17	426.55		Re sluice Rtn wall St.bank De.Chl	60 Nos 225 M 4230 M 11265 M														
38	**AOC-X THALAVAIPATTINAM**	297.98	49.03	30.17	347.01	377.18		Re sluice Rtn wall St.bank	40 Nos 260M 4000M														
39	**AOC - XI DHARAPURAM**	758.07	136.94	83.14	894.94	978.15		Re sluice Rtn wall St.bank Dl.chl	115 Nos 760M 9550M 9950M														

40	**AOC – XII KOLINJIVADI**	1005.58	195.89	104.48	1201.47	1305.95		Re sluice Rtn wall St.bank	110 Nos 1305 M 8900M														
41	**AOC – XIII NANJATHALAIUR**	153.24	29.85	15.93	183.09	199.02		Re sluice Rtn wall St.bank De.Chl	5 Nos 370 M 6100 M 6100M														
42	**AOC – XIV CHINNADHARAPURAM**	577.62	114.00	68.40	691.62	760.02		Re sluice Rtn wall St.bank De.chl	10 Nos 1030M 12700M 12700M														
43	**AOC – XV SUNDAKKAMPALAYAM**	89.81	16.54	11.82	106.35	118.17		Re sluice Rtn wall St.bund De.chl	5 Nos 300 M 5400 M 5400M														
44	**AOC – XVI NANJAKALAKURICHI**	122.61	23.23	14.42	145.84	160.26		Re sluice Rtn wall St.bund De.chl	5 Nos 550 M 4900M 4900M														
45	**AOC – XVII PALLAPALAYAM**	1086.8	193.05	150.15	1279.85	1430.00		Re sluice Rtn wall St.bank	8 Nos 1000 M 12530 M														
46	**AOC – XVIII KOYAMPALLI ,SOMUR**	602.25	123.75	99.00	726.00	825.00		Rtn wall De. Chl.	1130 M 1130 M														
47	**AOC – XIX THIRUMANELAYUR**	842.76	187.20	140.04	1029.96	1170.00		Re sluice Rtn wall St.bund 1130 M	21Nos 4080 M 7660 M 7660 M														
48	**AOC – XX MAYANUR MANAVASI**	776.85	168.06	165.09	944.91	1110.00		--	--														
GRAND TOTAL						**3023.59**																	

	AMARAVATHI RIVER BASIN ODAIS																						
49	**VKO** – LAKKA MANAN ICKEN PATTI	1472.97	613.5	368.19	2086.47	2454.66		Re sluice Supply chl .desilt	. 2 Nos 38000 M														
50	**NTO -** ALAMA PALAY AM	1345.14	345.03	230.47	1690.17	1920.64		--	--														
	NON SYSTEM TANKS OF AMARAVATHI RIVER BASIN																						
51	UDAYA RKULA M	23.26	6.75	5.35	30.01	35.36		St.bund Rep.weir Rtn wall	902 M 1No 75M														
52	KONGU R IDACHI KULAM	31.09	9.71	7.76	40.8	48.56		St.bund lining	1600 M 90M														
53	KATHU SAMY PALAY AM	40.69	12.70	10.16	53.39	63.55		St.bund	1050M														
	Palar Porundalar system																						
54	Porunda nKulam	45.00	3.00	3.84	48.00	**51.84**	-	St.bund Re.con-SL S.Repair Weir repair	1260m - 1no -														
54	Panchant hangiKula m	88.00	7.00	15.90	95.00	**110.90**	-	St.bund Re.con-SL S.Repair Weir repair	1215 m - 1no														
54	NaduKul am	39.50	2.50	7.35	42.00	**49.35**	-	St.bund Re.con-SL S.Repair	637m - 1no														

								Weir repair															
54	AlanKulam	48.50	3.50	10.89	52.00	**82.89**	-	St.bund Re.con-SL S.Repair Weir repair	568 m - 1no														
54	Ammapatti kulam	317.00	28.	38	345	383.00	-	St.bund Re.con-SL S.Repair Weir repair	1900 m 1no 1no 1no														
54	Kumarasamudram							St.bund Re.con-SL S.Repair Weir repair	1625 m 1No 1No 1No														
55	Thamaraikulam	281.00	21.00	29.85	302.00	331.85	-	St.bund Re.con-SL S.Repair Re.Con. Weir	2654 m 3 No - 1no														
55	Sembakulam	45.00	6.00	13.16	51.00	64.16	-	St.bund Re.con-SL S.Repair Rep.Anicut Weir repair Channel	1087 m 1No 1No 1No 1500m														
56	Senkulam	89.50	7.50	12.78	97.00	109.78	-	St.bund S.Repair Rep.Anicut Weir repair Channel	803m 1No 1No 8700m														
56	Alankulam	295.00	22.00	41.60	317.00	358.60	-	St.bund S.Repair Rep.Anicut Weir repair Channel	1087 m 1No 1No 7900 m														
	Palar Porundalar & Varathamanathi Non System																						

57	Kullappanaicken kulam	42.00	8.00	18.95	50.00	68.95	-	St.bund S.Repair Weir repair	1050m 1No 1No 1No														
57	Bangarusamudram	29.00	3.00	9.13	32.00	41.13	-	St.bund S.Repair Weir repair	565m 3No 1No														
57	Chinnakulam	63.50	6.50	7.69	70.00	77.69	-	St.bund Re.con-SL	1125m 2No														
57	Mandhaikulam	61.00	7.00	24.45	68	92.45	-	St.bund S.Repair Rep.Anicut Weir repair Channel	1090m 2No 1No														
58	Pudkulam	57.60	8.50	23.56	66.00	89.58	-	St.bund S.Repair Rep.Anicut Weir repair	1470m 2No 1No 1No														
58	Eravimangalam	177.00	15.00	52.20	192.00	244.20	-	St.bund S.Repair	1550m 3No														
58	Sengulam	127.00	11.00	26.20	138.00	164.20	-	St.bund S.Repair Channel	1047m 2No 1000m														
58	Odaiyakulam	61.00	7.00	24.45	68.00	119.00	-	St.bund S.Repair Rep.Anicut	1461m 2No 1No														
58	Athikarikulam	39.00	42.00	21.66	43.00	64.66	-	St.bund Re.con-SL S.Repair Weir repair	1503m 1No 1No														
58	Sakkaraigoundan kulam	35.00	6.00	19.49	41.00	60.49	-	St.bund S.Repai ReCon Weir	1466m 4No 1No														

59	Zamin Anicut Channel																						
59	Tadakulam Channel	370.93	10.00	4.00	380.93	384.93	-	Nil	Nil														
59	Thamaraikulam Anicut channel																						
60	Kalayamputhur Anicut channel	149.50	31.40	42.50	150.90	223.40	-	RC Anicut	186m 1No.														
61	Manur anicut channel	376.33	4.60	14.00	380.93	394.93	-	Nil	Nil														
62	Korikkadavu Anicut channel	364.44	17.00	10.00	181.44	191.44	-	RW apron, RE Body wall	1No.														
63	Manur Extension Channel	20.00	57.00	125.00	77.00	202.00	-	Nil	Nil														
64	Palar LS 0 to 6.30 Km	76.85	0.00	0.00	76.85	76.85	-	Liniing Trough and retaining wall	3100m 3200m														
65	Palar LS 6.30 Km to 13.36 Km	74.22	0.00	0.00	74.22	74.22	-	Lining bed and slope at selective portions	2900m 4760m														
66	Palar LS 12.96 Km to 16.88 Km	285.28	21.00	35.00	306.28	341.28	-	Lining bed and slope at selective portions															

67	Palar LS 16.88 Km	195.56	11.00	24.00	206.56	230.56	-	Lining bed and slope at selective portions																
68	Palar LS 16.600 Km to 16.88 Km	326.64	14.00	28.00	340.64	368.64	-	Lining bed and slope at selective portions																
69	Palar LS 18.320 Km	257.15	20.00	68.00	277.15	345.15	-	Lining bed and slope at selective portions																
70	Palar LS 18.320 Km to 22.600 Km	151.82	24.00	35.00	175.82	210.82	-	Lining bed and slope at selective portions																
71	Palar LS 18.320 Km to 28.10 Km	464.52	26.00	47.00	490.52	537.52	-	Lining bed and slope at selective portions																
72	Palar LS 28.100 Km to 30.30 Km	183.07	35.00	42.00	212.07	260.07	-	Lining bed and slope at selective portions																
73	Palar LS 30.30 Km to tail end	970.89	69.00	400.00	1039.89	1439.89	-	Lining bed entire strech																
74	Periyak ulam	315.00	23.00	30.39	338.00			Bund Re/Sluice Re/SC De.chl	1619M 2No 4.96m															
74	Veerak ulam	71.00	5.00	7.77	76.00			Bund	747M															

74	Oomaikumaraservaikaran kulam	15.75	1.50	0.00	17.25			Bund Re/Slu	1100M 2Nos															
74	Sodappanaicken kulam	19.00	2.49	0.00	21.49			Bund	482M															
74	Idumbankulam	29.00	5.99	0.00	34.99			Bund Re/Slu	1321M 1No															
74	Kumaranaickenkulam	41.00	3.41	0.00	44.41			Bund Re/Slu	605M 2Nos															
74	Mappillainaickenkulam	15.00	1.87	0.00	16.87			Bund Re/Slu	990M 2No															
74	Pappankulam	101.00	9.00	16.48	110.00			Bund Re/Slu Re/Sc	1975M 3Nos 10No															
75	Devanaickenkulam	40.00	7.00	11.09	47.00			Bund Re/Slu	652M 1No															
75	Kallikkanaickenpattikulam	40.00	2.10	0.00	42.10			Bund	1260M															
75	Thattankulam	33.00	2.36	0.00	35.36	35.36		Measuring devices	2 Nos															
75	Kurumbapattikulam	25.00	3.51	0.00	28.51	28.51		Measuring devices	2 Nos															
75	Pattikulam	12.00	2.50	0.00	14.50	14.50		Measuring devices	2 Nos															

76	Palanipappankulam	80.00	4.00	2.40	84.00			Bund Re/Slu	1980M 2Nos															
76	Vaiyapurikulam	260.00	20.00	32.40	280.00			Bund Re/Slu RC/Slu Re/SC	2380M 1No 1No 5Nos															
76	Sirunaicken kulam	51.00	3.45	0.00	54.45			Bund	1005M															
76	Pudukulam	125.00	9.50	15.26	135.00	150.26		Bund Re/Slu	2310 M 2Nos															
76	Sinnakulam	125.00	9.50	15.26	135.00	150.26		Measuring devices	2 Nos															
77	Kannadiperumalkulam	43.00		0	47.65	47.65	-	St.bund S.Repair	1333m 1No															
77	Periyaayyam pullikulam	310.00	18.00	18.25	328.00	346.25	-	St.bund S.Repair Re.con-SL	1950m 2No 2No															
77	Chinna Ayyam pulli kulam	44.00	6.00	0.00	50.00			Bund Re/Slu	1115M 2No															
77	Periya Ottukulam	54.00	5.00	2.77	59.00			Bund Re/Slu	753M 2No															
77	Chinna Ottukulam	42.00	16.00	4.55	58.00			Bund Re/Slu Re/weir	768M 2No 1 NO															
78	Ayyankulam	13.00	24.00	28.16	37.00			Bund Re/Slu	710M 2Nos															

79	Karisalkulam Senkulam	34.00	92.00	35.30	126.00			Bund	2800														
79	Karunkulam	28.00	29.00	17.49	57.00	74.49		Measuring devices	2 Nos														
80	Karunkulam	23.00	49.00	14.40	72.00	86.40		Measuring devices	2 Nos														
81	Pappan channel	260.00	12.00	2.60	272.00	274.60		RE sluice															
82	Periyavoikkal channel	170.00	15.00	10.28	185.00	195.28		RE Sluice															
83	Kothai Anicut channel	103.86	15.00	37.08	118.86	155.94		RE Sluice															
84	Kallakkadu Anicut channel uppuchetti anicut channel	64.14	10.00	7.40	74.14	81.54		Nil															
85	Naganvalasu anicut	0	0	0	0	0	0	Nil															
85	Panchanthangi Anicut	0	0	0	0	0		RE weir DE supply channel															

86	Sembakulam anicut	0	0	0	0	0		DE supply channel															
87	Muthukulam anicut	0	0	0	0	0		Nil															
87	Kothai amman anicut	0	0	0	0	0		Nil															
87	Sankaramanallur anicut	0	0	0	0	0		RE weir RE apron															
88	Kuthiraiyar RMC @ LS 0 to 3200	118.32	50.68	18.81	169.00	187.81		Nil															
89	Kuthiraiyar RMC @ LS 3200 to 3976	324.02	138.76	51.51	462.78	514.29		Nil															
90	Kuthiraiyar RMC @ LS 3976 to 6870	207.34	88.80	32.96	296.14	329.10		Nil															
91	Kuthiraiyar RMC @ LS 6870 to tail dam	179.31	76.79	28.51	256.10	284.61		Nil															
92	Pudukulam Tank	103.99	11.37	0	115.363			Bund RC/Slu Re/We	1400m Nil 1No														
92	Ammakulam	26.36	2.6	0	29.283			Bund Re/Slu	710m 1No														

	Tank							Rc/Slu	2No														
92	Rayakulam tank	36.15	3.95	0	40.1			Bund RC/Slu Re/We	784m Nil 1No														
92	Panchanthangi Tank	123.35	13.48	0	136.836			Bund RC/Slu Re/We	1240m 3No 1No														
93	Sembakulam	16.87	1.84	0	18.72			Bund Re/Slu Re/We	636m 1No 1No														
94	Muthukulam / ottukulam	94.00	9.00	9.02	103.00	112.02		ST. TB RE weir															
94	Kuyavan kuttaikulam	12.91	1.00	0	13.91	13.91		ST. TB RE weir															
94	Kothaiammankulam	125.00	15.00	15.96	155.96	155.96		ST. TB RC sluice RE weir RE sluice															
95	**Perumalkulam**	40.85	20.822	40.15	61.07	92.01		St.bund S.Repair Weir repair	1547M 1No 1 No														
95	**Senkulam**	18.41	11.5	16.11	28.91	41.4		St.bund S.Repair Weir repair	1461M 2 No 1														
95	Ramasamuthiram	16.39	10.24	14.34	26.63	36.87		St.bund S.Repair Weir repair	757M 2 No 1-														
95	Muthuboopala Sumudram	17.81	11.13	15.58	28.94	40.07		St.bund S.Repair Weir repair	1225M 3 1														
95	Sadayakulam	87.76	54.85	76.79	142.61	197.46		St.bund S.Repair Weir repair	2012M 3No 2-														

95	Javathupatti Periyakulam	10.53	11.57	16.2	30.09	41.60		St.bund S.Repair Weir repair	1730m 1 2														
96	Kollapatti Tank	34.82	21.76	30.16	36.58	78.34		St.bund S.Reps Weir repair	1200m 2- 1-														
96	Navakani Tank	44.7	27.93	39.11	72.63	100.57		St.bund S.Repair. Weir repair	2000m 2- 1-														
96	Udiyakulam	26.37	18.48	23.07	42.05	59.33		Work not taken up															
96	Kaveriammapatti periyakulam	17.28	10.80	15.12	28.08	38.88		ST TB RE sluice RE weir															
97	Appasamudram	3.12	1.96	2.73	5.08	7.09		Work not taken up															
98	Perumalkulam supply channel	20.77	12.99	18.17	33.76	46.74		Desilting	-														
98	Ramasamudram supply channel	3.74	2.34	3.27	6.08	8.42		Desilting															
98	Javathupatti anicut channel	46.88	34.28	36.19	31.22	105.67		Desilting															
99	Varadhagan anicut channel	0.00	2.00	5.01	2.00	6.81		Work not taken up															
99	Koraiyouthu anicut channel	0.00	31.00	78.29	31.00	97.29		Work not taken up by WRD															

99	Ottanai anicut channel	0.00	13.00	40.00	13.00	43.80		Work not taken up by WRD																	
99	Aravakurchi anicut channel	0.00	12.88	26.00	12.68	15.66		Work not taken up by WRD																	
100	Nangajiyar Channel Idaiyakottai	31.16	93.48	498.58	124.64	623.22		Work not taken up by WRD																	
101	Nangajiyar channel chinnkkampatti	7.79	29.37	124.64	31.16	152.80		Work not taken up by WRD																	
102	Nangajiyar channel valayapatti	14.12	39.13	225.98	53.25	279.23		Work not taken up by WRD																	
103	Nangajiyar channel senthamangalam	73.55	220.66	1176.83	294.20	1471.03		Work not taken up by WRD																	
104	Pothakanmoi	18.30	18.44	18.05	29.74	41.17		St.bund S.Rep. Weir repair	445m 1- 1-																
104	Anaikulam	24.96	15.8	21.84	40.58	50.16		St.bund S.Rp. Lining of channel Weir repair	2012m 4- 1500m 1 no																
104	Mullipadi Periyakulam	31.51	19.7	27.57	51.21	20.90		St.bund S.Rep Lining of channel Weir repair	1950m 4- 1410m 1no																
104	Manthai Periyakulam	10.09	11.31	15.822	29.4	40.7		St.bund S.Rep Lining of channel Weir repair	1470m 4- 420m 1 no																

105	PadiurPeriya Kulam	35.45	22.15	31.02	57.80	79.76		St.bund S.Rep Lining of channel Weir repair	1540m 1-2515m 1 no														
105	Kulathur Periyasamudram	51.36	32.098	44.93	33.46	115.55		St.bund S.Rep Weir repair Lining of channel	2216m 4-300m 1 no														
105	Marambadi Periya kulam	21.72	13.58	19.01	35.10	48.88		St.bund S.Rep Weir repair Lining of channel	1540m 1-1no 1620m														
105	Velvarkottai Periyakulam	18.92	11.83	18.55	30.75	42.57		St.bund S.Rep Weir repair Lining of channel	1074m 2-1 no 2250m														
106	Pilathumanthaikulam	20.40	12.75	17.35	33.15	45.9		St.bund S.Rep Weir repair	1792m 3-1-														
106	Thennampattimanthaikulam	29.22	18.26	25.68	47.48	85.75		St.bund S.Rep Lining of channel Weir repair	837m 4-600m 1 no														
106	Vallakondansamudurам tank	40.66	25.411	36.571	86.07	99.4		St.bund S.Rep Lining of channel Weir repair	1740m 3-2050m 1 no														
107	Rmamagiri tank	31.504	19.69	27.566	61.19	70.88		Work not taken up by WRD															
107	Uthangaraiyartank	20.40	12.75	17.35	33.15	45.90		Work not taken up by WRD															

107	**Sangalian kovil odai Tank**	60.70	37.34	53.12	34.34	116.78		Work not taken up by WRD																
108	Pagadai Kulam	34.87	21.79	30.51	56.66	78.99		St.bund S.Rep Weir repair	1230m 1- 1-															
108	Pilvettikulam	62.33	38.88	64.63	101.29	140.24		St.bund S.Rep Weir repair	1590m 2- 1-															
108	Aranmani Odai kulam	24.31	13.20	21.27	39.51	54.70		St.bund S.Rep Weir repair	1073m 3- 1-															
108	A.Vellodu Periyakulam	12.83	10.49	18.63	23.32	37.75		St.bund S.Rep Weir repair	1050m 5- 1-															
108	Rengasamudram	14.00	8.80	12.31	22.00	31.67		St.bund S.Rep Weir repair	1330m 2- 1-															
109	Kottur avarampatti Thamarikuam	35.06	21.91	30.68	56.97	78.88		St.bund S.Rep Lining of channel Weir repair	1005m 2- 2950M 1 no															
109	Brammasamudram	27.1	16.94	13.72	44.04	80.98		St.bund S.Rep Weir repair	2370m 5- 1-															
109	Thamaraikulam	85.36	53.35	74.69	138.71	192.06		St.bund S.Rep Weir repair	840m 4- 1-															
109	Muthanam patti kulam	23.82	14.89	20.84	38.71	53.59		St.bund S.Rep Weir repair	1700m 2- 1-															

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

111	Nagasamudram	19.84	12.40	19.31	32.24	40.64		Work not taken up by WRD															
112	Kodaganar Dam LMC 0-6800M	157.71	0.00	17.52	167.71	157.71		Work not taken up by WRD															
113	Kodaganar Dam RMC 0-6000M	347.73	0.00	38.568	347.11	347.11		Cross masonry works only															
114	Kodaganar Dam RMC 6000-12470M	265.527	0.00	29.503	265.53	265.53		Cross masonry works only															
115	Kodaganar Dam RMC 12470-17450M	126.216	0.00	14.024	126.22	126.22		Cross masonry works only															
116	Kodaganar Dam RMC 17450-23500M	440.379	0.00	48.931	410.38	440.38		Cross masonry works only															
117	Kodaganar Dam LMC 6800-9400	401.05	0.00	44.56	401.05	401.05		Work not taken up by WRD															
118	Kodaganar Dam RMC 23500-24080M	942.89	0.00	104.76	942.89	942.89		Cross masonry works only															
119	Kodaganar Dam RMC 24080-26560M	599.12	0.00	66.61	599.92	599.92		Cross masonry works only															
120	**Uppar Right Bank canal**	406.31	355.52	253.95	761.83	1015.78		Prec.slab lining cast in situ lining St.bund Repair slu.	1070 m 4870 m 6745 m 5 Nos..														
121	**Uppar Left Bank canal**	574.65	502.83	358.17	1074.48	1438.66		cast in situ lining St.bund Repair slu Rep. Drop	8450 m 9575 m 8 Nos.. 7 Nos.														

1.2 HYDROLOGY

1.2. 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 earthern dam with a live storage capacity of 110m cum.

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

1. 2.2 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.

Inceptisol	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
Alfisol	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
Vertisols	Black soil	Suitable for cotton, Pulses etc

1. 2.8 LAND HOLDINGS

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

FOR AMARAVATHI SUB BASIN:-

Category	Size of 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 INDUSTERIES & 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	Cocao	19.42	0	0	**19.42**	19.42	0	0	**19.42**	0
7	Tamarind	443.84	0	0	**443.84**	443.84	0	0	**443.84**	0
8	Fodder Grass	10.00	6	0	**16.00**	26.00	0	0	**26.00**	10.00
9	Flowers	0	0	0	**0**	20.00	0	0	**20.00**	20.00
10	Gloriosa suberba	470.00	0	0	**470.00**	470.00	0	0	**470.00**	0
11	Agathi	1.00	0	0	**1.00**	3.00	0	0	**3.00**	2.00
	Total	**7284.47**	**4146.14**	**0**	**11430.61**	**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

	Total	10014.10	10997.27	0	21011.37	27240.00	0	0	27240.00	6228.63
	Great Grand Total	45708.39	19573.05	9064.15	74345.59	79447.81	0	1126.41	80574.22	6228.63
	Cropping Intensity				122.40%				148.96%	
	EE (WRD)		JD (AH)		TNAU		DD (Horti)		JD(Agri)	

GOVERNMENT OF TAMILNADU
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: ceiwswrd@gmail.com
Ph:044-2254 2380, 2254 2674
Fax: 044-2254 2360.

To

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

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

Sir,

Sub : IAMWARM Project – IV. Phase Sub Basins – Amaravathi sub basin DPR Preparation – Water Balance Statement and Crop Water Requirement for with Project and without project– Reg.

Ref : CE, IWS Lr.No. IAMWARM / 2011 dated 03.11.2011 addressed to Nangajiyar Basin Division, Palani.

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

Encl: 8 Pages

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

AMARAVATHY SUB BASIN - CAUVERY BASIN

Crop water requirement without Project - Dindigul (Consolidated)

Sl.No.	Name of Crop	Area in Ha	Crop water requirement in mm	Total Crop water requirement in Mcm	Irrigation water requirement at source Eff=43%	Total Irrigation requirement in Mcm
I	**Perennial Crops**					
1	Coconut	7298.47	1600	116.776	271.57	271.57
2	Mango	2218.87	402	8.920	20.74	20.74
3	Guava	138.68	256	0.355	0.83	0.83
4	Amla	168.41	526	0.886	2.06	2.06
5	Moringa	655.92	256	1.679	3.91	3.91
6	Cocao	19.42	362	0.070	0.16	0.16
7	Tamarind	443.84	292	1.296	3.01	3.01
8	Fodder Grass	16.00	438	0.070	0.16	0.16
9	Flowers	0	509	0.000	0.00	0.00
10	Gloriosa suberba	470.00	670	3.149	7.32	7.32
11	Agathi	1.00	187	0.002	0.00	0.00
	Sub Total	**11430.61**		**133.20**	**309.77**	**309.77**
II	**Annual Crops**					
1	Sugarcane	4598.94	2500	114.974	267.38	267.38
2	Banana	561.94	2500	14.049	32.67	32.67
3	Turmeric	200.00	362	0.724	1.68	1.68
4	Tapioca	400.00	538	2.152	5.00	5.00
5	Tobacco	163.82	450	0.737	1.71	1.71
6	Kolukattai	5.00	300	0.015	0.03	0.03
	Sub Total	**5929.70**		**132.65**	**308.49**	**308.49**
III	**1st Crop**					
1.a	Paddy	9048.19	1100	99.530	231.47	231.47
b	Paddy SRI	0.00	770	0.000	0.00	0.00
2	Maize	8506.59	400	34.026	79.13	79.13
3	Cumbu	48.96	400	0.196	0.46	0.46
4	Cholam	3241.52	400	12.966	30.15	30.15
5	Pulses	1645.07	250	4.113	9.56	9.56
6	Groundnut	1892.05	500	9.460	22.00	22.00
7	Gingelly	71.00	150	0.107	0.25	0.25

8	Sunflower	211.71	440	0.932	2.17	2.17
9	Cotton	109.56	442	0.484	1.13	1.13
10	Chillies	142.00	500	0.710	1.65	1.65
11	Bhendi	63.05	462	0.291	0.68	0.68
12	Brinjal	75.05	464	0.348	0.81	0.81
13	Tomato	607.58	294	1.786	4.15	4.15
14	Califlower	18.08	480	0.087	0.20	0.20
15	Onion	858.32	366	3.141	7.31	7.31
16	Beans	47.62	350	0.167	0.39	0.39
17	Fodder Cholam	256.00	250	0.640	1.49	1.49
18	Fodder Maize	8.00	250	0.020	0.05	0.05
	Sub Total	**26850.35**		**169.00**	**393.03**	**393.03**
	Grand Total (I+II+III)	**44210.66**		**434.86**	**1011.30**	**1011.30**
IV	**2 nd crop**					
1. a	Paddy	3328.01	1100	36.608	85.14	85.14
b	Paddy SRI	0.00	770	0.000	0.00	0.00
2	Maize	4670.10	400	18.680	43.44	43.44
3	Cholam	1106.72	400	4.427	10.30	10.30
4	Cumbu	467.41	400	1.870	4.35	4.35
5	Pulses	8742.17	250	21.855	50.83	50.83
6	Groundnut	1136.77	500	5.684	13.22	13.22
7	Sunflower	165.36	440	0.728	1.69	1.69
8	Cotton	260.70	442	1.152	2.68	2.68
9	Chillies	187.31	500	0.937	2.18	2.18
10	Bhendi	73.72	462	0.341	0.79	0.79
11	Brinjal	106.01	464	0.492	1.14	1.14
12	Cauliflower	30.02	480	0.144	0.34	0.34
13	Tomato	266.58	294	0.784	1.82	1.82
14	Onion	394.65	366	1.444	3.36	3.36
15	Beans	75.84	350	0.265	0.62	0.62
	Sub Total	**21011.37**		**95.41**	**221.89**	**221.89**
	Great Grand Total	**65222.03**		**530.27**	**1233.18**	**1233.18**

AMARAVATHY SUB BASIN - CAUVERY BASIN

Crop water requirement with Project - Dindigul (Consolidated)

Sl.No.	Name of Crop	Area in Ha	Crop water requirement in mm	Total Crop water requirement in Mcm	Irrigation water requirement at source Eff=53%	Total Irrigation requirement in Mcm
I	**Perennial Crops**					
1	Coconut	7964.42	1600	127.431	240.44	240.44
2	Mango	2303.87	402	9.262	17.47	17.47
3	Guava	158.68	256	0.406	0.77	0.77
4	Amla	198.41	526	1.044	1.97	1.97
5	Moringa	1165.13	256	2.983	5.63	5.63
6	Cocao	19.42	362	0.070	0.13	0.13
7	Tamarind	443.84	292	1.296	2.45	2.45
8	Fodder Grass	26.00	438	0.114	0.21	0.21
9	Flowers	20	509	0.102	0.19	0.19
10	Gloriosa suberba	470.00	670	3.149	5.94	5.94
11	Agathi	1.00	187	0.002	0.00	0.00
	Sub Total	**12770.77**		**145.86**	**275.20**	**275.20**
II	**Annual Crops**					
1	Sugarcane	4545.00	2500	113.625	214.39	214.39
2	Banana	616.62	2500	15.416	29.09	29.09
3	Turmeric	500.00	362	1.810	3.42	3.42
4	Tapioca	1020.00	538	5.488	10.35	10.35
5	Tobacco	165.00	450	0.743	1.40	1.40
6	Kolukattai	10.00	300	0.030	0.06	0.06
	Sub Total	**6856.62**		**137.11**	**258.70**	**258.70**
III	**1st Crop**					
1.a	Paddy	0.00	1100	0.000	0.00	0.00
b	Paddy SRI	8900.00	770	68.530	129.30	129.30
2	Maize	9750.00	400	39.000	73.58	73.58
3	Cumbu	49.00	400	0.196	0.37	0.37
4	Cholam	3280.00	400	13.120	24.75	24.75
5	Pulses	3350.00	250	8.375	15.80	15.80
6	Groundnut	2300.00	500	11.500	21.70	21.70
7	Gingelly	75.00	150	0.113	0.21	0.21
8	Sunflower	270.00	440	1.188	2.24	2.24
9	Cotton	150.00	442	0.663	1.25	1.25
10	Chillies	840.00	500	4.200	7.92	7.92
11	Bhendi	155.00	462	0.716	1.35	1.35
12	Brinjal	195.00	464	0.905	1.71	1.71

Sl.No.	Name of Crop	Area in Ha	Crop water requirement in mm	Total Crop water requirement in Mcm	Irrigation water requirement at source Eff=53%	Total Irrigation requirement in Mcm
13	Tomato	1230.00	294	3.616	6.82	6.82
14	Califlower	120.00	480	0.576	1.09	1.09
15	Onion	1475.00	366	5.399	10.19	10.19
16	Beans	150.00	350	0.525	0.99	0.99
17	Fodder Cholam	260.00	250	0.650	1.23	1.23
18	Fodder Maize	20.00	250	0.050	0.09	0.09
	Sub Total	**32569.00**		**159.32**	**300.61**	**300.61**
	Grand Total (I+II+III)	**52196.39**		**442.29**	**834.51**	**834.51**
IV	**2 nd crop**					
1. a	Paddy	0.00	1100	0.000	0.00	0.00
b	Paddy SRI	4100.00	770	31.570	59.57	59.57
2	Maize	6000.00	400	24.000	45.28	45.28
3	Cholam	1350.00	400	5.400	10.19	10.19
4	Cumbu	550.00	400	2.200	4.15	4.15
5	Pulses	10325.00	250	25.813	48.70	48.70
6	Groundnut	1850.00	500	9.250	17.45	17.45
7	Sunflower	400.00	440	1.760	3.32	3.32
8	Cotton	300.00	442	1.326	2.50	2.50
9	Chillies	230.00	500	1.150	2.17	2.17
10	Bhendi	75.00	462	0.347	0.65	0.65
11	Brinjal	140.00	464	0.650	1.23	1.23
12	Cauliflower	30.00	480	0.144	0.27	0.27
13	Tomato	1035.00	294	3.043	5.74	5.74
14	Onion	780.00	366	2.855	5.39	5.39
15	Beans	75.00	350	0.263	0.50	0.50
	Sub Total	**27240.00**		**109.77**	**207.11**	**207.11**
	Great Grand Total	**79436.39**		**552.06**	**1041.62**	**1041.62**

C.V. Sridhar 23/1/2011

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

23/1/11

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: ceiwswrd@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

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

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	Re marks
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		

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

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	Combained 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 in1560	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	Combained catchment in sq.km	Water Spread Area (Ha.)	FTL (m)	MWL (m)	TBL (m)	No.of sluice	Length of surplus arrangement (m)	Dicharge in Cusecs	Length of bund in M	Length of supply channel (m)	Upper tans	Lower tanks
					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			PanchanthangiKulam	110.90	0.47	16.49	_	_	_	57.94	331.950	332.550	333.450	1	Nil	Nil	1215	7000	Nil	Nil
3			NaduKulam	49.35	0.07	2.61	_	_	_	57.94	331.950	332.550	333.450	1	Nil	Nil	637	7000	Nil	Nil
4			AlanKulam	62.89	0.02	0.53	_	_	_	57.94	331.950	332.550	333.450	1	Nil	Nil	568	7000	Nil	Amma patti tank
5			Ammapattykulam	383.00	0.78	27.56	5.52	2.722	28.72	34.34	323.965	324.565	325.815	2	6.99m surplus sluice	1115	1916	7000	AlanKulam	Kumara samudram 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 5.40M weir R/F	509 330	2654	1500	Nil	Nil
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													
Sln o	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	

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

(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) M.cum	CAPACITY (m.cum) M.cft	No.of filling	Free catchment in sq.km	Combained catchment in sq.km	Water Spread Area (Ha.)	FTL (m)	MWL (m)	TBL (m)	No.of sluice	Length of surplus arrangement (m)	Dicharge in Cusecs	Length of bund in M	Length of supply channel (m)	Upper tans	Lower tanks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
1	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	29.57 m	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 surplus siuice 1.22m@ LS 972 m	68 519	1125	–	cinna Ayampullitank, Bangarusamudram tank,Katteripillaikulam	Manthaikulam
4			ManthaiKulam	92.45	0.19	6.76	6.50	1.280	4.412	21.50	312.045	312.580	313.580	2	38m L/F by wash surplus siuice 2 nos.@ LS 880 & 1090 m R/F	673 76	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	Odayakulam
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, pudukulamtank, Eravimangalam 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 ottukula m
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,Ma nthaikulam , Bangarusa mudram, katteripillai kulam,Ka malasamu dram
22			Periya Ottukulam	61.77	1.49	3.00	1.63	1.630	0.0630	326.100	326.635	2	1	9.45	215.49	753	—	Periya Ayyampulli	ThenPala ni kulam
23			Chinna Ottukulam	62.5	3.30	8.00	0.62	2.250	0.0920	322.050	322.415	2	2	28.60	316.06	768		Periya Ottu kulam	Shanmug a nathi River
24	Din-digul	Palani	Ayyankulam	65.16	6.921	2.00	12.53	12.530	0.1630	350.830	351.730	2	1	29.70	1584.52	710	1800	Manvilundan Odai Anicut	Pappan kulam

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	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	86.40	30.83	_	11.20	11.220	0.8730	330.650	331.100	3	2	34.70, 4.00	1666.16	2081	5350	—	—

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

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

SYSTEM TANKS

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	Pappan kulam	Idumban kulam
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	Pappan kulam	Idumban kulam
3			Oomaikumara servaikaran kulam	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	Sodappanaicken kulam
4			Sodappanaicken kulam	21.49	2.313	3.80	0.0814	1.5440	0.0543	326.105	326.715	1	1	10.30	192.46	482	700	Oomaikumara-servaikaran kulam	Idumban kulam
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 & Sodappanai-ckenkulam	Vaiyapuri kulam
6			Kumaranaicken kulam	44.41	8.122	2.25	0.4220	0.4220	0.1626	329.390	329.850	4	2	19.40	468.98	605	3000	Periya kulam	Devanaic kenkulam
7			Mappillainaicken kulam	16.87	3.743	1.88	1.6640	1.6640	0.1570	327.080	327.530	4	1	7.90	253.13	990	2600	Periya kulam	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	Ayyan kulam	Pattikulam

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	Periya kulam	Kurumbapatti ulam
10			Kurumbapatti kulam	28.510	7.839	1.50	2.63	5.790	0.1760	311.975	312.585	2	2	51.21	993.48	803	700	Kalikkanaickenpatti kulam	Pudu kulam
11			Devanaicken kulam	58.090	8.38	3.18	1.209	1.631	0.1245	325.635	325.940	1	2	2.80	417.63	652	2800	Kumaranaickenkulam	Kalikkanaickenpatti kulam
12			Kallikkanaickenpattikulam	42.100	14.478	1.20	4.40	6.320	0.3465	316.770	317.610	4	2	28.62	1289.7	1260	1800	Devanaicken kulam	Pudu kulam
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 & Mappillainaickenkulam	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	Shanmuga nathi 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	Sirunaic kenkulam
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	—	Vaiyapuri kulam	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,Kurumbapattikulam	Shanmuga nathi river
18			Sinnakulam	combin-ed	1.515	–	0.122	14.282	0.0493	300.730	301.415	1	1	48.50	1250.85	400	—	Sirunaicken kulam,Kalikkanaickenpattikulam,Kurumbapattikulam	Shanmuga nathi river

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

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	
SYSTEM ANICUTS																			
1	Sakkilian Anicut	East Ayakudi	274.603	108.90	347.63				406.40 / 14352	Right Bank	(5Nos) 2.13x0.915	345.415	8.920						
2	Kothai Anicut	Ayyampulli	155.940	67.90	327.135		55.47	—	262.20 / 9259.60	Right Bank	(2Nos) 1.25x1.92	325.090	25.630	1 to 2858	7.00	0.96	1/420	6	
														2858 to 6773	9.00	0.96	1/886		
3	Kallakadu Anicut	Palani	74.140	53.10	314.720		0.4964	97.59			1.20x1.20 M			2580	1.20	1.20	1/2025	—	
4	Uppuchetti Anicut	Palani	7.400	—							—								
NON - SYSTEM ANICUTS																			
1	Palar Anicut	Ayyampulli	305.780	103.50	365.675									5520	3.00	0.6			

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

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							
	System Channel											
1	Pappan channel	Chakkilian Anicut	345.110	Pappan kulam	334.765	0 - 650	4.50	—	—	—	0.915	
						650-1895	3.50	—	—	—	1.150	
						1895-6680	2.50	—	—	—	2.490	
						6680-6970	2.00	—	—	—	—	
2	Periya Voikkal Channel	Chakkilian Anicut	145.415	Periya kulam	328.105	0-300	7.75	1/230	1:1	—	1.444	
						300 - 400	13.00	1/73	1:1	—	1.738	
						400 - 2700	6.50	1/400	1:1	—	1.29	
						2700 - 3100	6.00	1/190	1:1	—	1.669	
						3100 - 4490	7.00	1/510	1:1	—	1.168	
3	Kothai Anicut Channel	Kothai Anicut	325.090	Vaiyapuri kulam	309.240	0 - 2858	7.00	1/420	1:1	1.60	0.96	
						2858 - 6773	9.00	1/836	1:1	2.00	0.96	
4	Palani Pappan Channel	Kothai Anicut Channel L.S.5585M	312.84	Pappan kulam	95.585	0 - 1800	4.00	1/256	1:1	—	—	
						1800 - 6022	4.00	1/747	1:1	—	—	
	Non - System Channel											

5	Palar Anicut Channel	Palar Anicut	352.495	Kannadi peru mal 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							

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

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	110.0 0	355.38 0	3.40	3250	3.0 0	1.0 7	1in17 20	4	
2	Sembakul am	Pappampat ti	183.700	141.50	344.430		78.57	78.57	137.70	Right side	97	343.18 0	38.2 1	4220	5.0 0	1.8 452	1in33 0	-	
3	Muthukula m	Sankaramanal lur	9.07	74.90	331.535		105.30	105.30	231.900	Left side	2	330.205	11.00	1000	5.00	0.62	1in850	1	
4	Kothaiamm ankulam	Kolumam	13.19	64.00	323.820		114.60	114.60	177.100	Right end	2 No 1.00 X1.00	322.85	7.81	2100	6.00 m	.41 m	1in 5086	2	
5	Sankaraman allur	Sankaramanal lur	47.01	57.80	310.260		123.230	123.230	181.900	Right end	1 No 0.95x 1.2	309.67	15.22	6600	2.5	.64	1in 2820	25	

b) TANKS (System Tanks)

Sl. No	District	Taluk	Name of Tank	Ayacut in Ha	Capacity in Mcft	Number of Fillings	Free catchment in SqKm	Combined Catchment in Sq.Km	Water spread area(Sq.Km)	FTL in M	MWL in M	No.of Sluices	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	Panchathangai	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	Kothaiammankulam	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	Sangramanellore	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		10.541	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		2850	5.0	0.15	1 in 686	1	
3	Ramasamudram	Veriyaputur	9.35	72.40	258.700		77.00	208.00	141.818	515	1	257.675	2.264	835	4.0	0.60	1 in 2690	1	
4	Javathupatty	Javathupatti	85.82	38.50	329.220		37.00	245.00	294.500	880	1	238.780	0.255	2820	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	1600	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	5400	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	1930	1.20	0.60	1 in 1266	14	
8	Aravakurichi	Aravakurichi	38.66	103.550	171.690		20.20	666.240	574.00	300	5	170.490	1.267	2950	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	Ramasamdura m	Nanganjiar River
7			Appasamudram	7.810	8.3	2	4.274	63.40	10.70	227.920	228.530	2	1	17.60	560	850	1600	Nanganjiar River	Nanganjiar River
			Total	**507.13**	**141.07**	**16.3**	**46.464**	**263.91**	**268.5**	**1917.27**	**1925.29**	**15**	**8**	**276.97**	**12529**	**9576**	**15565**		

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	0.9x 0.75	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	1.00x 0.90	290.500	58.70	580	1.50	0.40	1 in 200		
8.	Uppukulam	Vembar patti	15.280	35	315.200				60.15	0	1.00x 0.90	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	0.75x 0.90	284.500	60.50	650	1.30	0.60	10in 200		
11.	Ragalapuram	Ragalapuram	36.153	42	215.500			1.250	70.50	0	1.50x 0.90	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	1.50x 0.90	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	Mania karan patti	38.014	60	250.150		1.400	1.400	75.80	0	1.50x 0.90	251.55 0	75.80	1350	2.00	0.60	10in 200		
15.	Emakkalapuram	Eamakkal apuram	36.777	40	310.610		1.780	1.780	80.80	0	1.50x 0.90	311.81 0	75.50	780	2.50	0.40	1 in 200		
16.	Pungampadi	Ragalapuram	37.783	30	288.710		1.515	1.515	40.40	0	1.50x 0.90	289.81 0	60.10	450	2.00	0.50	1 in 600		
17.	Koraikulam	Anjukulipatti	6.486	20	265.500		1.100	1.100	45.80	0		266.80 0	40.50	650	1.50	0.60	1 in 500		
18.	Anjukulipatti	Anjukuli patti	65.283	15.00	265.560		1.700	1.700	50.50	0	1.50x 0.90	266.70 0	45.50	1500	2.00	0.40	1 in 100		
19.	Lingammal kulam	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		255.41 0	148.57	1320	5.00	0.80	1 in 989		
21.	Thethupatti	Thethupatti	62.951	30	302.990		8.32	33.220	77.50	-	0.30x 0.45	296.85 0	2.945	2550	3.50	0.60	1 in 2500	7	
22.	Mangararai	Mangarai	48.975	15.50	273.920		15.25	15.25	260	-	0.30x 0.45	272.45 0	3.01	1265	2.00	1.00	1 in 1330	--	
23.			743.527	590.5										29935					

b) TANKS (Non System Tanks)

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	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.			**A.Vellodu Periyakulam**	41.95	0.239	2.5	17.20	17.20	38.86	288.850	289.450	5	1	57.00	1765.75	1050	-		
5.			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.		Dindigul	**Kottur Avarampatti, Thamarikulam**	87.65	0.400	3	2.58	11.071	43.07	238.790	239.090	2	2	12.20 & 13.77	1227.65	1300	-		
7.			**Brammasamudram, Anaipatti**	67.76	0.381	1	9.066	37.213	39.10	247.160	247.960	2	1	69.40	3.066	1005	-		
8.			**Sindalakundu Thamaraikulam**	213.40	0.890	3.5	2.48	5.05	78.68	254.880	255.480	5	1	22.70	745.45	2370	-		
9.			**Muthanampatti tank, Kuttathupatti**	59.55	0.543	1.67	6.54	20.44	59.29	255.850	256.450		1	23.55	2050.74	840	-		
10.			**Mangarai Tank, Mangarai**	48.975	0.495	1.5	1.525	1.525	41.93	272.560	273.110		1	19.10	422.36	1700	1265		

Sl. No	District	Taluk	Name of Tank	Ayacut in Ha	Capacity in Mcft	Number of Fillings	Free catchment in SqKm	Combined Catchment in Sq.Km	Water spread area(Ha)	FTL in M	MWL in M	No.of Sluices	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.		Dindigul	**Kadhir Narasinga perumalkulam , Kothapuli**	95.905	0.433	1	6.21	6.21	39.20	266.700	267.350		1	30.20	1021.31	1200	-		
12.			**Pudhukulam Kobaiyar tank, Chatrapatti**	118.660	0.552	3	5.05	5.05	1.153	312.200	313.100	1	1	28.65	2000	610	-	--	Mangarai river
13.			**Kathirayankulam, Palaya Kannivadi**	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.			**Thethupatti Tank, Thethupatti**	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.			**Chinnakobaiyar Tank, Kodalvavi**	83.770	0.488	2	4.78	4.78	0.20	388.700	339.300	1	1	36.00	1800	1100	-	--	Mangarai river
16.			**Periyakobaiyar Tank, Kodalvavi**	566.770	1.039	3	4.57	4.57	5.08	343.550	344.450	2	1	42.70	2450	480	-	--	Mangarai river
17.			**Nayodai tank, Sirangadu**	185.330	19.266	2	--	3.62	29.36	328.500	329.500	2	1	30.00	2300	600	-	--	Mangarai river
18.		Dindigul	**Ramakkal Odai and Anaivilundan odai tank, A. Vellodu, and Keelakottai**	107.690	0.268							0	0	0					

Sl. No	District	Taluk	Name of Tank	Ayacut in Ha	Capacity in Mcft	Number of Fillings	Free catchment in SqKm	Combined Catchment in Sq.Km	Water spread area(Ha)	FTL in M	MWL in M	No.of Sluices	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.		Authoor	**Neelamalaikottai tank, Kariagoundan patti**	72.850	15	1.75	64.50	64.50	2.48	332.000	332.600	1	1	63	2393	310	-	-	Mangarai river
20.			**Nagasamudram, Pallapatti**	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								16	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)	Bed width (M)	FSD (M)	Bed slope	Sluice (No.)	
1.	Anaikulam Anicut	Periyakottai	62.40	143.00	283.100		-	-	-	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 x0.90	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	262.665		5.00	8.502	34.286	Left	1.30 x0.90	261.865	34.286	420	2.20	0.80	1 in 1050	3	
4.	Padiyur Periyakulam	Padiyur	88.619	143.75	253.300		2.910	4.890	241.30	Right	1.80 x 1.30	252.30	241.30	1220	5.00	1.00	1 in 550	2	
5.	Kulathur Periya samudram	Kulathur	128.392	122.50	252.945			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	237.850		-	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	275.280		-	-	-	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	291.410	-	-	-	-	Left	Open off take	-	-	-	3.00	1.00	-	-	
9.	Thennampatti manthai kulam	Thennampatti	73.058	20.00	275.980	-	-	-	-	Left	Open off take	274.980	-	600	3.00	1.00	1 in 1000	-	
10.	Vallakondan samudram anicut	Nallamanarkttai	101.644	40.00	264.930	-	-	-	-	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			**Manthai Periyakulam**	45.22	0.5134	2.289	5.00	8.502	53.38	261.465	262.215	4	1	43.10	1579.71	1470	420	Muthusam ban kulam	Kallar river
5		Vedasandur	**Padiyur Periyakulam**	88.619	0.9872	2	2.910	4.895	0.769	250.040	250.640	3	1	18.60	21.649	2577	1620	Alagiri goundan kulam	Santhan a varthini river
6			**Kulathur Periyasamudram**	128.392	1.186	3	1.347	1.347	0.873	244.730	245.580	4	2	14.10, 30.15	25.06	2216	3000	Gulvarkul am	Veepan kulam
7			**Marambadi Periyakulam**	54.310	0.08973	3	1.467	1.467	25.37	233.655	234.105	1	1	30.00	15.04	1540	2515	Periyakul am supply channel	Thavasi ulam
8			**Velvarkottai Periyakulam**	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			**Pilathu Manthai kulam**	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	**Thenampatty Manthai kulam**	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	Gurundanmalai	Karunkulam
11			**Vellakondan samudram**	101.644	1.009	2	2.721	79.31	0.9057	261.830	262.730	3	3	53.95, 15.00, 60.00	107.24	1740	2050	Alankulam	Aruppanpatti kulam
12			**Ramagri tank**	78.760	0.229	2	0	0	0.83234	285.000	286.000	1	1	48.00	1580.00	760	0	-	-
13			**Uthangaraiar tank**	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	**Sangaliankovil odai tank**	151.760	0.424	2	0	13.420	0.210	385.50	386.700	1	1	44.00	93.270	550	0	-	-
			TOTAL	1057.992	7.28333	31.869	75.128	282.796	172.98934	3673.445	3683.855	37	24		6680.615	19333	15815		

AMARAVATHI SUB BASIN PACKAGE No:22 / ASB / NCB / 2011-12

HYDRAULIC PARTICULARS OF LEFT & RIGHT FLANK CANAL OF UPPAR DAM

SI.NO	Reach in km	Bed width	FSD	FREE BOARD	SIDE SLOPE	DISCHARAGE	BED FALL
	Left Flank canal						
1	0.000-3.500KM	3.965	1.22	0.61	1:1	105.62	1/5280
2	3.500-6.350KM	3.965	1.22	0.61	3/4:1	105.62	1/5280
3	6.350-8.900KM	2.745	1.22	0.61	1/2:1	76.72	1/5280
4	8.900-9.450KM	1.525	1.22	0.61	1/2:1	76.72	1/1320
5	9.450-10.100KM	2.90	1.22	0.61	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**

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 maincanal ,Left main canal of Palar pourunthalaru system,system tanks and non system tanks are under the control of Water Resources Organisation (WRO) of Public Works Department (PWD). The list of Channels,canals and tanks in this sub basin with more details are furnished in the Annexure-1. This sub basin ayacut are located in 143 villages of Tirupur ,Karur and Dindigul Districts. The total command area under this Subbasin is 53334.22 Ha .

2. **Command Area**

Under Amaravathi Sub Basin 53334.22 Ha

1. **An assessment of number of WUAs**

i)	Associations already formed under WRCP	Nil
ii)	Associations proposed to be formed under 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 reprecentatives 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 orginsation (WUA), Distributory Committee and Project Committee), in the implementation and execution of all decisions taken by such farmers organization. Similarly, every farmer's organization shall extend such co-operation or assistance, as may be required by the Competent Authority, for carrying out all the tasks related to implementation of TNFMIS Act.

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 t0 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, Irication 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 finalished.

ii. During the meeting, the farmers present were also informed that soon after finalization of contract for carrying out "Modernization of Irrigation Systems" a "Notice Board" with the details about the nature of works, its cost, period of contract and name of the contractor will all be fixed at the site of the work, as well as in the panchayat office of the villages concerned for information of the farmers. They have also been informed that they are free to supervise the work by the contractor and any lapse in the quality of work may be reported to the field officers of WRO, as well as the Executive Engineer of WRO, who has been designated as the Nodal Officer for the sub basin concerned.

iii. The field officers of WRO are all aware of the problems in handing over the operation and maintenance responsibilities to the farmers concerned, if the tasks as desired by the farmers in the command area are not included in the modernisation of the system and also in case, some of the tasks already included and planned are not implemented due to some reasons or other.

iv. The WRO officers were also informed that they are personally responsible for handing over the irrigation systems after completing the tasks related to modernization of Irrigation systems, under IAMWARM Project.

9. "Capacity Building" of the WUA farmers

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 are, to benefit the farmers of the WUAs in the sub – basin.

iii. The Support Organisation will also arrange for organising the "Study Tours" both within and outside the state to enhance their knowledge and experiences which will help tem to improve the crop productivity and there by the farmer's income.

iv. The support organisation will also conduct necessary "awareness programme" and impart training to educate the farmers of the WUAs in all aspects of the TNFMIS Act, TNFMS Rules and Election procedures for constituting the "Managing Committee" of the WUAs.

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

Annexure-I

An Assesment 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	Madathukulam	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	Madathukualam	Tirupur	Nil	529.66	To be Formed
4	AOC – IV SARKAR KANNADI PUTHUR	279.56	East Kumaralingam, S.K. Pudur Vedapatti, Solamadevi	Madathukualam	Tirupur	Nil	279.56	To be Formed
5	AOC – V SHOLAMADEVI	234.720	Solamadevi	Madathukualam	Tirupur	Nil	234.720	To be Formed
6	AOC – VI KADATHUR	473.900	Kadathur	Madathukualam	Tirupur	Nil	473.900	To be Formed
7	AOC – VII KANIYUR	157.830	Kaniyur	Madathukualam	Tirupur	Nil	157.830	To be Formed
8	AOC – VIII KARATHOLUVU	252.930	Karatholuvu	Madathukualam	Tirupur	Nil	252.930	To be Formed
9	AOC – IX ALANGIYAM	426.55	Alangiyam	Dharapuram	Tirupur	Nil	426.55	To be Formed
10	AOC-X THALAVAIPATTINAM	377.18	Thalavaipattinam	Dharapuram	Tirupur	Nil	377.18	To be Formed
11	AOC - XI DHARAPURAM	978.15	Dharapuram South, Dharapuram North	Dharapuram	Tirupur	Nil	978.15	To be Formed
12	AOC – XII KOLINJIVADI	1305.95	Manakadavu, Kolindivadi, Virajimanagalam Kolathupalayam Alampalayam	Dharapuram	Tirupur	Nil	1305.95	To be Formed
13	AOC – XIII NANJATHALAIUR	199.86	Nanjathalayur Punjathalayur Senapathipalayam	Mulanoor	Tirupur	Nil	199.86	To be Formed
14	AOC – XIV CHINNADHARAPURAM	760.11	Chinnatharapuram, Kudaloor, Thokkupatti Rajapuram	Aravakkurichi	Karur	Nil	760.11	To be Formed
15	AOC – XV SUNDAKKAMPALAYAM	118.17	Sundakkampalayam, Arikaravalasu Velampoondi	Mulanoor	Tirupur	Nil	118.17	To be Formed
16	AOC – XVI NANJAKALAKURICHI	160.26	Punjaikalaikurichi Nanjakalakurichi	Aravakkurichi	Karur	Nil	160.26	To be Formed

17	AOC – XVII PALLAPALAYAM	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 THIRUMANELAYUR	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 - ELAYAMUTHUR	410.090	Elayamuthur Andigoundenur	Udumalpet	Tiruppur	Nil	410.090	To be Formed
22	AMC - PERUMALPUTHUR	515.975	Perumalputhur	Madathukulam	Tiruppur	Nil	515.975	To be Formed
23	AMC – SAMARAPATTI	174.760	Samarapatti	Madathukulam	Tiruppur	Nil	174.760	To be Formed
24	AMC – REDDIPALAYAM	518.000	Reddipalayam	Madathukulam	Tiruppur	Nil	518.000	To be Formed
25	AMC - PAPPANKULAM	315.770	Pappankulam	Madathukulam	Tiruppur	Nil	315.770	To be Formed
26	AMC – BOTHANACKIANUR	253.155	Bothanaickanur	Madathukulam	Tiruppur	Nil	253.155	To be Formed
27	AMC - SALARAPATTI	408.010	Salarapatti	Madathukulam	Tiruppur	Nil	408.010	To be Formed
28	AMC – AGRAKARA KANNADAPUTHUR	316.300	A.K.Pudur Vedapatti Solamadevi	Madathukulam	Tiruppur	Nil	316.300	To be Formed
29	AMC – VEDAPATTI	254.050	Myvadi Vedapatti Solamadevi	Madathukulam	Tiruppur	Nil	254.050	To be Formed
30	AMC – MYVADI	287.840	Jothampatti Myvadi	Madathukulam	Tiruppur	Nil	287.840	To be Formed
31	AMC – JOTHAMPATTI	417.250	Jothampatti	Madathukulam	Tiruppur	Nil	417.250	To be Formed
32	AMC – THUNGAVI - I	348.850	Thunkavi Jothampatti	Madathukulam	Tiruppur	Nil	348.850	To be Formed
33	AMC – THUNGAVI - II	352.620	Thunkavi	Madathukulam	Tiruppur	Nil	352.620	To be Formed

34	AMC – KARATHOLUVU – II	618.680	Karatholovu Thunkavi	Madathukulam	Tiruppur	Nil	618.680	To be Formed
35	AMC - PONNAPURAM	352.395	Ponnapuram Karatholovu	Dharapuram	Tiruppur	Nil	352.395	To be Formed
36	AMC – KANGAYAMPALAYAM – I	199.530	Kangeyampalyam Ponnapuram	Dharapuram	Tiruppur	Nil	199.530	To be Formed
37	AMC – KANGAYAMPALAYAM – II	428.115	Kangeyampalyam Selampalayam	Dharapuram	Tiruppur	Nil	428.115	To be Formed
38	AMC – KANGAYAMPALAYAM – III	303.640	Kangeyampalyam Selampalayam	Dharapuram	Tiruppur	Nil	303.640	To be Formed
39	AMC – SELLAMPALAYAM -I	286.175	Selampalayam	Dharapuram	Tiruppur	Nil	286.175	To be Formed
40	AMC – SELLAMPALAYAM -II	428.680	Selampalayam	Dharapuram	Tiruppur	Nil	428.680	To be Formed
41	AMC – KANGAYAMPALAYAM – IV	315.750	Sinnakkampalayam Kangeyampalyam Selampalayam	Dharapuram	Tiruppur	Nil	315.750	To be Formed
42	AMC – SINNAKAMPALAYAM -I	300.040	Sinnakkampalayam Chinnaputhur Selampalayam	Dharapuram	Tiruppur	Nil	300.040	To be Formed
43	AMC – SINNAKAMPALAYAM –II	328.180	Sinnakkampalayam Uthupalyam	Dharapuram	Tiruppur	Nil	328.180	To be Formed
44	AMC – SINNAKAMPALAYAM –III	381.390	Sinnakkampalayam Uthupalyam Selampalayam	Dharapuram	Tiruppur	Nil	381.390	To be Formed
45	AMC – SINNAKAMPALAYAM –IV	542.240	Sinnakkampalayam Uthupalyam Dhalavaipattinam	Dharapuram	Tiruppur	Nil	542.240	To be Formed
46	AMC - CHINNAPUTHUR	573.230	Chinnaputhur Govindapuram Sinnakkampalaya	Dharapuram	Tiruppur	Nil	573.230	To be Formed
47	AMC – GOVINDAPURAM - I	300.030	Govindapuram	Dharapuram	Tiruppur	Nil	300.030	To be Formed
48	AMC – GOVINDAPURAM - II	252.640	Govindapuram	Dharapuram	Tiruppur	Nil	252.640	To be Formed
49	**VKO –** LAKKAMANANICKENPATTI	2454.66	Uthamapalayam Lakkamanaickenpatti Pudupai	Dharapuram Kangeyam	Tiruppur	Nil	2454.66	To be Formed

50	**NTO -** ALAMAPALAYAM	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	Panchanthangikulam	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,	Thoppampatti	Dindigul	Nil	260.07	To be formed
90	Palar L.S. 30.30km to Tail end	1439.89	Kolumakondan, Korikkadavu, Kovilammapatti & Melkaraipatti	Thoppampatti	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	Oomaikumara servaikaran kulam	17.25	West Ayakudi	Ayakudi	Dindigul	Nil	17.25	To be formed
94	Sodappanaicken kulam	21.49	West Ayakudi	Ayakudi	Dindigul	Nil	21.49	To be formed
95	Idumbankulam	34.99	Palani	Palani	Dindigul	Nil	34.99	To be formed
96	Kumaranaicken kulam	44.41	East Ayakudi	Ayakudi	Dindigul	Nil	44.41	To be formed
97	Mappillainaicken kulam	16.87	East Ayakudi	Ayakudi	Dindigul	Nil	16.87	To be formed
98	Pappankulam	126.48	East Ayakudi	Ayakudi	Dindigul	Nil	126.48	To be formed
99	Thattankulam	35.36	Thattankulam	Ayakudi	Dindigul	Nil	35.36	To be formed
100	Kurumbapattikulam	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	Kallikkanaicken pattikulam	42.1	Kallikkanaickenpatti	Palani	Dindigul	Nil	42.1	To be formed
103	Pattikulam	49.21	Earamanaickenpatti	Ayakudi	Dindigul	Nil	49.21	To be formed
104	Palanipappankulam	86.4	Palani	Palani	Dindigul	Nil	86.4	To be formed
105	Vaiyapurikulam	312.4	Palani	Palani	Dindigul	Nil	312.4	To be formed
106	Sirunaickenkulam	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 Ayyampulli kulam	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	Panchanthangikulam	136.83	Panchanthangikulam	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	Kuyavankuttaikulam	13.91	Sangaramanallur	Madathukulam	Tiruppur	Nil	13.91	To be formed
125	Kothaiammankulam	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	Ottanchatti ram	Dindigul	Nil	**46.02**	To be formed
132	Ramasamuth iram	**40.97**	veirappur	Ottanchatti ram	Dindigul	Nil	**40.97**	To be formed
133	Muthuboopa la Sumudram	**44.52**	Dasaripatti	Ottanchatti ram	Dindigul	Nil	**44.52**	To be formed
134	Sadayakulam	**219.40**	Thangachiammapa tti	Ottanchatti ram	Dindigul	Nil	**219.40**	To be formed
135	Javathupatti Periyakulam	**46.29**	Javathupatti	Ottanchatti ram	Dindigul	Nil	**46.29**	To be formed
136	Kaveriyamm apatti periyakulam	**43.20**	Kaveryammapatti	Ottanchatti ram	Dindigul	Nil	**43.20**	To be formed
137	Kollapatti Tank	**87.04**	Kollapatti	Ottanchatti ram	Dindigul	Nil	**87.04**	To be formed
138	Navakani Tank	**111.74**	Navakani	Ottanchatti ram	Dindigul	Nil	**111.74**	To be formed
139	Udiyakulam	**65.92**	Dhasaripatti	Ottanchatti ram	Dindigul	Nil	**65.92**	To be formed
140	Appasamudr am	**7.81**	Idayakottai	Ottanchatti ram	Dindigul	Nil	**7.81**	To be formed
141	Perumalkula m supply channel	**51.93**	Viurpatchi	Ottanchatti ram	Dindigul	Nil	**51.93**	To be formed
142	Ramasamudr am supply channel	**9.35**	veirappur	Ottanchatti ram	Dindigul	Nil	**9.35**	To be formed
143	Javathupatti anicut channel	**117.41**	Javathupatti	Ottanchatti ram	Dindigul	Nil	**117.41**	To be formed
144	Varadhagan anicut channel	**7.81**	Idayakottai	Ottanchatti ram	Dindigul	Nil	**7.81**	To be formed
145	Koraiyouthu anicut channel	**107.29**	Senthamangalam	Aravakuric hi	Karur	Nil	**107.29**	To be formed
146	Ottanai anicut channel	**53.80**	Pallapatti	Aravakuric hi	Karur	Nil	**53.80**	To be formed
147	Aravakurchi anicut channel	**38.66**	Aravakurchi	Aravakuric hi	Karur	Nil	**38.66**	To be formed
148	Nanganjiyar chennel Edayakottai	623.22	Edayakottai	Ottanchatti ram	Dindigul	Nil	623.22	To be formed
149	Nanganjiyar chennel Chinnakkam patti	155.8	Chinnakkampatti	Ottanchatti ram	Dindigul	Nil	155.8	To be formed
150	Nanganjiyar chennel Valayapatti	279.23	Valayapatti	Ottanchatti ram	Dindigul	Nil	279.23	To be formed
151	Nanganjiyar chennel Senthamanga lam	1471.034	Senthamangalam	Aravakuric hi	Karur	Nil	1471.034	To be formed

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

	tank							
178	Kadirayankualm 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	Periyakompaiyar 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	Ramakkalodai & Anaivilundanodai 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

Annexure - II
WALK THROUGH SURVEY

Sl No	Walk Through Survey	Farmers request	Technical Solution									Proposals in Plan								
	Date	Location		WRO	Agri	Horti	AED	TNAU	AGMT	AHD	Fisherie	WRO	Agri	Horti	AED	TNAU	AGMT	AHD	Fisheries	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	24.10.11	AOC –I Rmakulam old Channel	• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion • Demarcation of channel boundry. • Construction of bridges • Repairs the Jeep track.	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion • Demarcation of channel boundry. • Construction of bridges • Repairs the Jeep track.								
2	24.10.11	AOC – II KALLAPURAM (KALLAPURAM OLD CHANNEL)	• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion • Demarcation of channel boundry. • Construction of bridges • Repairs the Jeep track.	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion • Demarcation of channel boundry. • Construction of bridges • Repairs the Jeep track.								
3	25.10.11	AOC – III KOMARALINGAM (KOMARALINGAM OLD CHANNEL)	• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion • Demarcation of channel boundry. • Construction of bridges • Repairs the Jeep track.	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion • Demarcation of channel boundry.								

												• Construction of bridges • Repairs the Jeep track.								
4	25.10.11	AOC – IV SARKAR KANNADI PUTHUR (SARKAR KANNADI PUTHUR OLD CHANNEL)	• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion • Demarcation of channel boundry. • Construction of bridges • Repairs the Jeep track.	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion • Demarcation of channel boundry. • Construction of bridges • Repairs the Jeep track.								
5	27.10.11	AOC – V SHOLAMAD EVI (SHOLAMAD EVI OLD CHANNEL)	• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion • Demarcation of channel boundry. • Construction of bridges • Repairs the Jeep track.	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion • Demarcation of channel boundry. • Construction of bridges • Repairs the Jeep track.								
6	27.10.11	AOC – VI KADATHUR (KADATHUR OLD CHANNEL)	• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion • Demarcation of channel boundry. • Construction of bridges • Repairs the Jeep track.	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion • Demarcation of channel boundry. • Construction of bridges • Repairs the Jeep track.								

7	28.10.11	AOC – VII KANIYUR (KANIYUR OLD CHANNEL)	• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion • Demarcation of channel boundry. • Construction of bridges • Repairs the Jeep track.	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion • Demarcation of channel boundry. • Construction of bridges • Repairs the Jeep track.								
8	28.10.11	AOC – VIII KARATHOLUVU (KARATHOLUVU OLD CHANNEL)	• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion • Demarcation of channel boundry. • Construction of bridges • Repairs the Jeep track.	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion • Demarcation of channel boundry. • Construction of bridges • Repairs the Jeep track.								
9	07.10.11	AOC –IX Alangiam old channel	• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion. • Repairs the Jeep track. • Demarcation of channel boundry.	All proposals are accepted .								Reconstruction of Sluice. Renewal of Shutter. Construction of Retaining wall in weaker portion. Repairs the Jeep track. Demarcation of channel boundry.								
10	10.10.11	AOC -X Dhalavaipattinam old channel	• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion. • Repairs the Jeep track. • Demarcation of channel boundry.	All proposals are accepted .								Reconstruction of Sluice. Renewal of Shutter. Construction of Retaining wall in weaker portion. Repairs the Jeep track. Demarcation of channel boundry.								
11	12.10.11	AOC –X Dharapuram old channelI	• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion. • Repairs the Jeep track. • Demarcation of channel boundry.	All proposals are accepted .								Reconstruction of Sluice. Renewal of Shutter. Construction of Retaining wall in weaker portion. Repairs the Jeep track. Demarcation of channel boundry.								

12	13.10.11	AOC –XI Kolingivadi old channelI	• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion. • Repairs the Jeep track. • Demarcation of channel boundry.	All proposals are accepted .								Reconstruction of Sluice. Renewal of Shutter. Construction of Retaining wall in weaker portion. Repairs the Jeep track. Demarcation of channel boundry.								
13	19.10.11	AOC – XIV Nanjakala kurichi	• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion. • Repairs the Jeep track. • Demarcation of channel boundry.	All proposals are accepted .								Reconstruction of Sluice. Renewal of Shutter. Construction of Retaining wall in weaker portion. Repairs the Jeep track. Demarcation of channel boundry.								
14	19.10.11	AOC – XVI chinadharapuram	• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion. • Repairs the Jeep track. • Demarcation of channel boundry.	All proposals are accepted .								Reconstruction of Sluice. Renewal of Shutter. Construction of Retaining wall in weaker portion. Repairs the Jeep track. Demarcation of channel boundry.								
15	18.10.11	AOC – XIII Sundakam palayan	• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion. • Repairs the Jeep track. • Demarcation of channel boundry.	All proposals are accepted .								Reconstruction of Sluice. Renewal of Shutter. Construction of Retaining wall in weaker portion. Repairs the Jeep track. Demarcation of channel boundry.								
16	18.10.11	AOC –XV Nangakala kurichi	• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion. • Repairs the Jeep track. • Demarcation of channel boundry.	All proposals are accepted .								Reconstruction of Sluice. Renewal of Shutter. Construction of Retaining wall in weaker portion. Repairs the Jeep track. Demarcation of channel boundry.								
17	14.10.11	AOC - XVII ,XVIII **L.B.C**	• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion. • Repairs the Jeep track. • Demarcation of channel boundry.	All proposals are accepted .								Reconstruction of Sluice. Renewal of Shutter. Construction of Retaining wall in weaker portion. Repairs the Jeep track. Demarcation of channel boundry.								

18	14.10.11	AOC -XIX ,XXI R.B.C	• Reconstruction of Sluice. • Renewal of Shutter. • Construction of Retaining wall in weaker portion. • Repairs the Jeep track. • Demarcation of channel boundry.	All proposals are accepted .								Reconstruction of Sluice. Renewal of Shutter. Construction of Retaining wall in weaker portion. Repairs the Jeep track. Demarcation of channel boundry.								
19	3.10.11	AMC – AGRAKARA KANNADAP UTHUR	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops	All proposals are accepted .								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops								
20	4.10.11	AMC – VEDAPATTI	• Reconstruction of Sluice. • Renewal of Shutter. • . Lining to canal • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culverts • Repairs to drops	All proposals are accepted .								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops								
21	4.10.11	AMC – MYVADI	• Reconstruction of Sluice. • Renewal of Shutter. • . Lining to canal • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culverts • Repairs to drops	All proposals are accepted .								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s Repairs to drops								
22	4.10.11	AMC – JOTHAMPAT TI	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel	All proposals are accepted .								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track.								

			boundry. • Rcc culvert s Repairs to drops									• Demarcation of channel boundry. • Rcc culvert s Repairs to drops								
23	7.10.11	AMC – THUNGAVI – I	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops	All proposals are accepted .								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s Repairs to drops								
24	7.10.11	AMC – THUNGAVI – II	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s Repairs to drops	All proposals are accepted .								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s Repairs to drops								
25	7.10.11	AMC – KARATHOLUVU – II	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s Repairs to drops	All proposals are accepted .								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s Repairs to drops								
26	8.10.11	AMC – ELAYAMUTHUR	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s Repairs to drops	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s Repairs to drops								
27	8.10.11	AMC – PERUMALPUTHUR	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track.	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal.								

			• Demarcation of channel boundry. • Rcc culvert s Repairs to drops									• Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s Repairs to drops.								
28	10.10.11	AMC – SAMARAPATTI	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s Repairs to drops	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s Repairs to drops								
29	10.10.11	AMC – REDDIPALAYAM	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops								
30	10.10.11	AMC – PAPPANKULAM	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops								
31	11.10.11	AMC – BOTHANACKIANUR	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s								

			• Repairs to drops									• Repairs to drops								
32	11.10.11	AMC – SALARAPATTI	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops								
33	11.10.11	AMC – PANNAPURAM	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops								
34	12.10.11	AMC – KANGAYAM PALAYAM – I	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops								
35	12.10.11	AMC – KANGAYAM PALAYAM – II	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops								

36	13.10.11	AMC – KANGAYAM PALAYAM – III	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops.								
37	13.10.11	AMC – SELLAMPALAYAM –I	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops								
38	14.10.11	AMC – SELLAMPALAYAM –II	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops								
39	14.10.11	AMC – KANGAYAM PALAYAM – IV	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops								

40	15.10.11	AMC – SINNAKAMPALAYAM -I	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops								
41	15.10.11	AMC – SINNAKAMPALAYAM –II	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops								
42	18.10.11	AMC – SINNAKAMPALAYAM –III	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops								
43	18.10.11	AMC – SINNAKAMPALAYAM –IV	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops								
44	20.10.11	AMC – CHINNAPUTHUR	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track.	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal.								

			• Demarcation of channel boundry. • Rcc culvert s • Repairs to drops									• Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops								
45	20.10.11	AMC – GOVINDAPURAM – I	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops								
46	24.10.11	AMC – GOVINDAPURAM – II	• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops	All proposals are accepted								• Reconstruction of Sluice. • Renewal of Shutter. • Lining to canal. • Repairs the Jeep track. • Demarcation of channel boundry. • Rcc culvert s • Repairs to drops								
47	20.10.11	Udayarkulam Tank	• Tank bund Improvement • Repair to sluice • Renewal of shutter • Repairs to weir. • Demarcation of Tank boundry	All proposals are accepted.								Tank bund Improvement Repair to sluice Renewal of shutter Repairs to weir. Demarcation of Tank boundry								
48	20.10.11	Konguridachikulam Tank	• Tank bund Improvement • Repair to sluice • Renewal of shutter • Repairs to weir. • Demarcation of Tank boundry	All proposals are accepted.								Tank bund Improvement Repair to sluice Renewal of shutter Repairs to weir. Demarcation of Tank boundry								

49	20.10.11	Kathasamypalayam Tank	• Tank bund Improvement • Repair to sluice • Renewal of shutter • Repairs to weir. • Demarcation of Tank boundry	All proposals are accepted.								Tank bund Improvement Repair to sluice Renewal of shutter Repairs to weir. Demarcation of Tank boundry								
50	21.10.2011	Porundalkulam	Bund strengthening Sluice repairs & Desilting the tank	All proposals are accepted.								Standardisation of bund for the entire length of 1260 m Repairs to sluices								
51	21.10.2011	Panchathangikulam	Bund strengthening Sluice repairs & Desilting the tank	All proposals are accepted.								Standardisation of bund for the length of 1215 m Repairs to sluices								
52	21.10.2011	Nadukulam	Sluice repairs & Desilting the tank & Bund strengthening	All proposals are accepted.								Standardisation of bund for the length of 637 m Repairs to sluices								
53	21.10.2011	Alankulam (Periammapatti)	Bund strengthening Sluice repairs & Desilting the tank	All proposals are accepted.								Standardisation of bund for the entire length of 568 m Repairs to Sluice								
54	21.10.2011	Ammapatti kulam	Bund strengthening Sluice reconstruction & Repairs to surplus sluices Construction of Weir Desilting the tank	All proposals are accepted.								of bund for the entire length of 1916 m Repairs to sluice Standardisation Repairs to weir portion								
55	21.10.2011	Kumarasamudram tank	Bund strengthening Sluice repairs & Desilting the tank Weir repair	All proposals are accepted.								Standardisation of bund for the entire length of 1675 m Repairs to sluice Repairs to weir apron								

56	21.10.2011	Tamaraikulam	Bund strengthening Sluice reconstruction Weir repairs Desilting the tank	All proposals are accepted .								Standardisation of bund for the length of 2654 M. Repairs to sluices, 4 nos Repairs to weirs								
57	21.10.2011	Sembakulam	Bund strengthening Sluice repairs & Weir repair Desilting the tank	All proposals are accepted .								Standardisation of bund for the entire length of 1087m Repairs to sluice Repairs to weirs								
58	22.10.2011	Senkulam (Korikkadavu)	Bund strengthening Sluice repairs & Lining of field channel Weir repair Desilting the tank	All proposals are accepted .								Standardisation of bund for the entire length of 803 m Repairs to sluice Repairs to weirs								
59	22.10.2011	Alankulam (Keeranur)	Bund strengthening Sluice repairs & Lining of field channel Regulator repairs Desilting the tank	All proposals are accepted .								Standardisation of bund for the entire length of 5500m Repairs to sluice Repairs to arrangements								
60	22.10.2011	Eravimangalam tank	1) To desilt the water spread area. 2) strengthen the bund	All proposals are accepted .								Standardisation of bund for the length of 1550m								
61	22.10.2011	Pudukulam	To desilt the water spread area. Repairs to weir and sluice reconstruction. Desilting the tank completely strengthen the bund	All proposals are accepted .								Standardisation of bund for the length of 1470m Repairs to sluice and weir Repairs to sluice								
68	23.10.2011	Senkulam tank (A.Kalayamputhur)	Desilting the tank completely. To avoid leakage in weir . Reconstruction of sluice. strengthen the bund	All proposals are accepted .								Standardisation of bund for the length of 1047m Repairs to weir apron and body wall Repairs to sluice								

69	23.10.2011	Odayakulam	Desilting the tank completely. Repairs to surplus arrangements & sluices & shutters. strengthen the bund	All proposals are accepted .								Standardisation of bund for the length of 1461m Repairs to to surplus arrangements & sluices & shutters.								
70	23.10.2011	Athikarikulam	1) Desilting the tank completely. strengthen the bund Reconstruction of sluice no 2. Repairs to shutters.	All proposals are accepted .								Standardisation of bund for the length of 1503m Reconstruction of sluice 2 . Repairs to shutters								
71	23.10.2011	Sakkaraigoundankulam	1) Desilting the water spread area. 2 Repairs to surplus arrangements & providing SG shutters. 3) strengthen the bund . 4)Reconstruction of sluice 2 nos.	All proposals are accepted .								Standardisation of bund for the length of 1466 m Repairs to surplus arrangements & providing SG shutters to arrest leakages. Repairs to sluice								
72	23.10.2011	Bangarusamudram tank	1) Desilting the water spread area. 2 Repairs to surplus arrangements & providing SG shutters. 3) strengthen the bund . 4)Reconstruction of sluices.	All proposals are accepted .								Standardisation of bund for the length of 565m Repairs to surplus arrangements & providing SG shutters to arrest leakages. Repairs to sluices								

73	23.10.2011	Chinnakulam	1) Desilting the water spread area. 2 Repairs to surplus arrangements & providing SG shutters. 3) strengthen the bund . 4)Reconstruction of sluices.	All proposals are accepted .								Standardisation of bund for the length of 1125m Repairs to surplus arrangements & providing SG shutters to arrest leakages. Repairs to sluices								
74	23.10.2011	Manthaikulam	1) Desilting the water spread area. 2 Repairs to surplus arrangements 3) strengthen the bund . 4)Reconstruction of sluices.	All proposals are accepted .								Standardisation of bund for the length of 1090m Repairs to surplus arrangements to arrest leakages. Repairs to sluices								
75	23.10.2 011	Kullapanaicken kulam	) Desilting the water spread area. 2 Repairs SG shutters	All proposals are accepted .								Standardisation of bund for the length of 1125m Repairs SG shutters to arrest leakages.								
76	21.10.11, 22.10.11, 23.10.11	LEFT MAIN CANAL	Desilting the canal. Removing vegetations. Reconstruction to cross masonry works. Reconstruction of main canal & Distributaries sluices. Lining Main canal & Distributaries. Construction of culverts	All proposals are accepted .								Desilting the canal. Removing vegetations. Reconstruction of main canal sluices. Lining Main canal up to 28 km . Strengthening the canal banks. Fixing foundry stones								

			and foot paths for every 1.50 km. Strengthening the canal banks. Forming BT Road for entire length of canal banks. Fixing foundry stones & mileage stone.									.							
77	9/30/2011	Periyakulam	Bund strengthening Sluice Repairs Supply channel sluice Repairs									Standardisation of bund for the entire length of 1619m Repairs to sluices Repairs to supply channels, sluice							
78	9/30/2011	Veerakulam	Bund strengthening sluice Repairs Weir Repairs	All proposals are accepted .								Standardisation of bund for the entire length of 747m							
79	9/30/2011	Oomaikumara servaikaran kulam	Bund strengthening sluice Repairs Surplus course Repairs	All proposals are accepted .								Standardisation of bund for the entire length of 1100m Repairs to sluices							
80	9/30/2011	Sodappanaicken kulam	Bund strengthening sluice Repairs Bund revetment	All proposals are accepted .								Standardisation of bund for the entire length of 482m							
81	9/30/2011	Idumbankulam	Bund strengthening sluice Repairs Weir repairs	All proposals are accepted .								Standardisation of bund for the entire length of1321m Repairs to sluices							

82	9/30/2011	Kumaranaickenkulam	Bund strengthening sluice Repairs Outlet Repairs	All proposals are accepted .								Standardisation of bund for the entire length of605m Repairs to sluices								
83	9/30/2011	Mappillainaickenkulam	Bund strengthening sluice Repairs Weir repairs	All proposals are accepted .								Standardisation of bund for the entire length of 990m Repairs to sluices								
84	9/30/2011	Pappankulam	Bund strengthening sluice Repairs Shutter arrangement and supply channel desilting	All proposals are accepted .								Standardisation of bund for the entire length of 1975m Repairs to sluices								
85	10/20/2011	Devanaickenkulam	Bund strengthening sluice Repairs Surplus Retaining wall	All proposals are accepted .								Standardisation of bund for the entire length of 652m Repairs to sluices								
86	10/20/2011	Kallikkanaickenpatti kulam	Bund strengthening sluice Repairs	All proposals are accepted .								Standardisation of bund for the entire length of 1260m								
87	10/20/2011	Palanippappankulam	Bund strengthening sluice Repairs	All proposals are accepted .								Standardisation of bund for the entire length of 1980m Repairs to sluices								
88	10/21/2011	Vaiyapurikulam	Bund strengthening sluice Repairs and weir repairs and Shutter arrangement	All proposals are accepted .								Standardisation of bund for the entire length of 2380m Reconstruction of sluice Repairs to sluices								
89	10/21/2011	Sirunaickenkulam	Bund strengthening sluice Repairs	All proposals are accepted .								Standardisation of bund for the entire length of1005m								

90	10/21/2011	Pudukulam	Bund strengthening sluice Repairs	All proposals are accepted .								Standardisation of bund for the entire length of 1910m Repairs to sluices								
91	10/22/2011	Kannadi Perumalkulam	Bund strengthening sluice Repairs Weir repairs and Shutter arrangement	All proposals are accepted .								Standardisation of bund for the entire length of 1333m Repairs to sluices								
92	10/22/2011	Periya Ayyampulli kulam	Bund strengthening sluice Repairs Shutter arrangement and and 2 sluice Reconstruction	All proposals are accepted .								Standardisation of bund for the entire length of 1950m Reconstruction of sluice Repairs to sluices								
93	10/22/2011	Chinna Ayyampulli kulam	Bund strengthening sluice Repairs	All proposals are accepted .								Standardisation of bund for the entire length of 1115m Repairs to sluices								
94	10/22/2011	Periya Ottukulam	Bund strengthening sluice Repairs and Shutter arrangement	All proposals are accepted .								Standardisation of bund for the entire length of 793m Repairs to sluices								
95	10/22/2011	Chinna Ottukulam	Bund strengthening sluice Repairs Weir repairs	All proposals are accepted .								Standardisation of bund for the entire length of 768m Repairs to sluices Repairs to weir								
96	10/22/2011	Ayyankulam	Bund strengthening sluice Repairs	All proposals are accepted .								Standardisation of bund for the entire length of 710m Repairs to sluices								
97	10/22/2011	Karisalkulam Senkulam	Bund strengthening sluice Repairs	All proposals are accepted .								Standardisation of bund for the entire length of 2800m								

98	21.10.2011	Pudukulam Tank	Bund strengthening Weir repair	All proposals are accepted .								Standardisation of bund for the entire length of 1400m Repairs to weir apron and body wall								
99	21.10.2011	Ammakulam	Bund strengthening &Bund raising Sluice repairs & Supply sluice Repair Reconstruction of sluices	All proposals are accepted .								Standardisation of bund for the length of 710 m & bund raising of free board 0.5m Repairs to sluices & Supply sluice Reconstruction of sluices								
100	21.10.2011	Rayakulam	Bund Strengthening Sluice repairs & Weir repair	All proposals are accepted .								Standardisation of bund for the length of 784 m Repairs to sluices & Repairs to weir								
101	21.10.2011	Panchanthangai Tank	Bund strengthening Repair to weir Reconstruction of sluices	All proposals are accepted .								Standardisation of bund for the length of 1240 m Repair to weir Reconstruction of sluices								
102	22.10.2011	Sembakulam Tank	Bund strengthening Repair to weir Reconstruction of sluices	All proposals are accepted .								Standardisation of bund for the length Repair to weir Reconstruction of sluices								
103	22.10.2011	Muthukulam Tank	Bund strengthening Repair to weir Reconstruction of sluices Repair to sluices	All proposals are accepted .								Standardisation of bund for the length of 1575 m Repair to weir Repair to sluices Reconstruction of sluices								

104	22.10.2011	Ottukulam Tank	Bund strengthening Repair to weir Repair to sluices	All proposals are accepted .								Standardisation of bund for the length of 396 m Repair to weir Repair to sluices								
105	22.10.2011	Kuyavankuttai Tank	Bund strengthening Repair to weir	All proposals are accepted .								Standardisation of bund for the length of 420 m Repair to weir								
106	22.10.2011	KothaiammankulamTank	Bund strengthening Repair to weir Reconstruction of sluices Repair to sluices	All proposals are accepted .								Standardisation of bund for the length of 1990 m Repair to weir Repair to sluices Reconstruction of sluices								
107	21.10.11	Virupatchi	Bund strengthening Sluice repairs Weir repair Water out flanks in supply channel and enters into fields	All proposals are accepted .								Strengthening of the tank bund Repairs to sluice and fixing S.G. plug shutter to arrest leakages Repairs to weir apron and body wall								
108	21.10.11	Odaipatti	Bund strengthening Sluice reconstruction & Lining of field channel Weir repair	All proposals are accepted .								Strengthening of the tank bund and construction of retaining wall in weaker portion Repairs to sluice and fixing S.G. plug shutter to arrest leakages Repairs to weir apron and body wall								

WALK THROUGH SURVEY AT ALANGIAM CHANNAL

ON 07-10-2011

WALK THROUGH SURVEY AT DHALAVAIPATTINAM CHANNAL

ON 10-10-2011

WALK THROUGH SURVEY AT DHARAPURAM CHANNAL ON 12-10-2011

WALK THROUGH SURVEY AT KOLINIVADI CHANNAL ON 13-10-2011

WALK THROUGH SURVEY AT LEFT BANK CHANNAL ON
14-10-2011

WALK THROUGH SURVEY AT CHINNA DHARAPURAM
CHANNAL ON 17-10-2011

AWARNESS MEETING WITH FARMERS

WALK THROUGH SURVEY IN DISTRIBUTORY @ LS 63/200 KM OF AMARAVATHI MAIN CANAL

WALK THROUGH SURVEY IN SYPHON @ LS 62/200 KM OF AMARAVATHI MAIN CANAL

WALK THROUGH SURVEY IN DISTRIBUTORY @ LS 63/200 KM OF AMARAVATHI MAIN CANAL

AWARNESS MEETING WITH FARMERS

WALK THROUGH SURVEY IN DISTRIBUTORY @ LS 45/540 KM OF AMARAVATHI MAIN CANAL

WALK THROUGH SURVEY IN KOMARALINGAM OLD CHANNEL

WALK THROUGH SURVEY IN DISTRIBUTORY @ LS 45/540 KM OF AMARAVATHI MAIN CANAL

MULLIPADI PERIYAKULAM

A. VELLODU PERIYAKULAM TANK

ARANMANAI ODAI KULAM

1.5 IRRIGATION INFRASTRUCTURE

LIST OF ANICUTS- (Package 1/ASB/NCB/2011-12)

Sl. No	Anicuts	Village	Block	Taluk	District	Direct Ayacut Area in Ha	Capacity in Mcft
1	NIL						

LIST OF TANKS
Package No 1/ASB/NCB/2011-12

Sl. No	Tank	Village	Block	Taluk	District	Ayacut Area in Ha	Capacity in Mcft
1	NIL						

List of Supply Channel
Package No 1/ASB/NCB/2011-12

Sl.No.	Name of Supply Channel	Off take point	Length in Km	Village	Block	Taluk	District	Direct Ayacut in Ha
1	Amaravathi Main Canal	Amaravathi Dam	12.50	Kumaralingam	Udumalaipettai	Udumalaipettai	Thirupur	613.30
		TOTAL	12.50					

Amaravathy Sub Basin

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		3	3	
11	11		-	-	
12	12		-		
13	13		-		
14	14		-		
15	15	3	10	10	
16	16	2	19	19	-
17	17		18	15	3
18	18	2	9	9	-
19	19	3	11	9	2
20	20		20	16	4
21	21		14	11	3
22	22		-	-	-
Total	**22**	**10**	**104**	**92**	**12**

ANNEXURE – II- ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT IN AMARAVATHI SUB BASIN

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	60	43.245	5958.29	308.27	27764.58	53334.22
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-		-	-	-	-	
3	Infrastructures that does not require any rehabilitation worksunder iamwarm	59	223.98	2250.95	4	-	916.06	8	21.115	996.71	51.033	7563.34	-
4	a)Work approved under NABARD	13	-	-	-	-	-	-	-	-	-	-	Anicuts works are approved under NABARD
	b)Work proposed in IAMWARM alone	10	189.97	13178.27	40	15.565	3266.07	52	22.13	4961.58	257.21	20201.24	-
5.	Measuring Devices & Lining only	-	-	-	44	-	-	60	-	-	-	-	-

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.

Annexure – I

Package 1ASB /NCB /2011-12

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	-	-	-	-	-	-	-	-	-	12.50	613.3	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	-	-	-	-	-	-	-	-	-	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	-	-	-	-	-	-	-	-	-	12.50	613.3	-

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

LIST OF ANICUTS- (Package 2/ASB/NCB/2011-12)

Sl. No	Anicuts	Village	Block	Taluk	District	Direct Ayacut Area in Ha	Capacity in Mcft
1	NIL						

LIST OF TANKS
Package No 2/ASB/NCB/2011-12

Sl. No	Tank	Village	Block	Taluk	District	Ayacut Area in Ha	Capacity in Mcft
1	NIL						

List of Supply Channel
Package No 2/ASB/NCB/2011-12

Sl.No.	Name of Supply Channel	Off take point	Length in Km	Village	Block	Taluk	District	Direct Ayacut in Ha
1	Amaravathi Main Canal	Amaravathi Dam	34	Perumal puthur ,Samaraipatti	Udumalaipettai	Udumalaipettai	Thirupur	-
		TOTAL	34					

Package 2/ASB /NCB /2011-12

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	-	-	-	-	-	-	-	-	-	34	492.93	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	-	-	-	-	-	-	-	-	-	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	-	-	-	-	-	-	-	-	-	34	492.93	-

LIST OF ANICUTS- (Package 3/ASB/NCB/2011-12)

Sl. N0	Anicuts	Village	Block	Taluk	District	Direct Ayacut Area in Ha	Capacity in Mcft
1	NIL						

LIST OF TANKS
Package No 3/ASB/NCB/2011-12

Sl. No	Tank	Village	Block	Taluk	District	Ayacut Area in Ha	Capacity in Mcft
1	NIL						

List of Supply Channel
Package No 3/ASB/NCB/2011-12

Sl.No.	Name of Supply Channel	Off take point	Length in Km	Village	Block	Taluk	District	Direct Ayacut in Ha
1	Amaravathi Main Canal	Amaravathi Dam	16.70	Karatholuvu, Ponnapuram, Kangayampalayam, Chinnakkampalayam &, Selampalayam	Udumalaipettai	Udumalaipettai	Thirupur	1805.55
2	Distributories from LS 46/500km to 53/500 km of Amaravathi Main Canal	Distributories off taking from LS 46/500km to 53/500 km of Amaravathi Main Canal	26.891	Karatholuvu, Ponnapuram, Kangayampalayam, Chinnakkampalayam &, Selampalayam	Udumalipettai & Dharapuram	Udumalipettai & Dharapuram	Thirupur	
		TOTAL	43.591					1805.55

Package 3/ASB /NCB /2011-12

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	-	-	-	-	-	-	-	-	-	43.591	1805.55	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	-	-	-	-	-	-	-	-	-	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	-	-	-	-	-	-	-	-	-	43.591	1805.55	-

LIST OF ANICUTS- (Package 4/ASB/NCB/2011-12)

Sl. No	Anicuts	Village	Block	Taluk	District	Direct Ayacut Area in Ha	Capacity in Mcft
1	NIL						

LIST OF TANKS
Package No 4/ASB/NCB/2011-12

Sl. No	Tank	Village	Block	Taluk	District	Ayacut Area in Ha	Capacity in Mcft
1	NIL						

List of Supply Channel
Package No 4/ASB/NCB/2011-12

Sl.No.	Name of Supply Channel	Off take point	Length in Km	Village	Block	Taluk	District	Direct Ayacut in Ha
1	Distributories from LS 0/0km to 26/550 km of Amaravathi Main Canal	Distributories off taking from LS 0/0km to 26/550 km of Amaravathi Main Canal	28.148	Andigoundanur, Elayamuthur, Perumal Pudur, West Komaralingam, East Koramaralingam, Pappankulam, S.K. Pudur	Udumalipettai	Udumalipettai	Thirupur	2595.64
		TOTAL	28.148					2595.64

Package 4/ASB /NCB /2011-12

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	-	-	-	-	-	-	-	-	-	28.148	2595.64	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	-	-	-	-	-	-	-	-	-	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	-	-	-	-	-	-	-	-	-	28.148	2595.64	-

LIST OF ANICUTS- (Package 5/ASB/NCB/2011-12)

Sl. No	Anicuts	Village	Block	Taluk	District	Direct Ayacut Area in Ha	Capacity in Mcft
1	NIL						

LIST OF TANKS
Package No 5/ASB/NCB/2011-12

Sl. No	Tank	Village	Block	Taluk	District	Ayacut Area in Ha	Capacity in Mcft
1	NIL						

List of Supply Channel
Package No 5/ASB/NCB/2011-12

Sl.No.	Name of Supply Channel	Off take point	Length in Km	Village	Block	Taluk	District	Direct Ayacut in Ha
1	Distributories from LS 26/55km to 46/20 km of Amaravathi Main Canal	Distributories off taking from LS 26/55km to 46/20 km of Amaravathi Main Canal	32.069	Vedapatti, Sholamadevi, Myvadi, Jothampatti, Thungavi, Karatholuvu	Udumalipettai	Udumalipettai	Thirupur	2595.18
		TOTAL	32.069					2595.18

Package 5/ASB /NCB /2011-12

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	-	-	-	-	-	-	-	-	-	32.069	2595.18	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	-	-	-	-	-	-	-	-	-	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	-	-	-	-	-	-	-	-	-	32.069	2595.18	-

LIST OF ANICUTS- (Package 6/ASB/NCB/2011-12)

Sl. No	Anicuts	Village	Block	Taluk	District	Direct Ayacut Area in Ha	Capacity in Mcft
1	NIL						

LIST OF TANKS
Package No 6/ASB/NCB/2011-12

Sl. No	Tank	Village	Block	Taluk	District	Ayacut Area in Ha	Capacity in Mcft
1	NIL						

List of Supply Channel
Package No 6/ASB/NCB/2011-12

Sl.No.	Name of Supply Channel	Off take point	Length in Km	Village	Block	Taluk	District	Direct Ayacut in Ha
1	Distributories at LS 49/880KM & Distributries from LS 53/500km to 63/200 km of Amaravathi Main Canal	Distributories at LS 49/880KM & Distributries from LS 53/500km to 63/200 km of Amaravathi Main Canal	51.705	Kangayampalayam, Chinnakkampalayam, Chinnaputhur, Dhalavaipattinam, Uthupalayam, Govindapuarm	Dharapuram	Dharapuram	Thirupur	3197.25
		TOTAL	51.705					3197.25

Package 6/ASB /NCB /2011-12

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	-	-	-	-	-	-	-	-	-	51.705	3197.25	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	-	-	-	-	-	-	-	-	-	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	-	-	-	-	-	-	-	-	-	51.705	3197.25	-

Package 7/ASB/NCB/2011-12(List of anicut)

Sl. No	Anicuts	Village	Block	Taluk	District	Direct Ayacut Area in Ha	Capacity in Mcft
1	Komaralingam Anicut	Komaralingam	Udumalaipettai	Udumalaipettai	Thirupur	529.66	-
2	Sarkarkannadiputhur anicut	Sarkarkannadiputhur	Udumalaipettai	Udumalaipettai	Thirupur	279.56	-

List of Supply Channel

Sl.No.	Name of Supply Channel	Off take point	Length in Km	Village	Block	Taluk	District	Direct Ayacut in Ha
1	Ramakulam old channel	Right Flank of Amaravathi Dam	9.991	Ramakulam	Udumalaipettai	Udumalaipettai	Thirupur	560.10
2	Kallapuram old channel	Right Flank of Amaravathi Dam	11.335	Kallapuram	Udumalaipettai	Udumalaipettai	Thirupur	587.04
3	Komaralingan old channel	Amaravathi River @ LS 8 km from Amaravathi Dam	15.691	West Komaralingan, East Komaralingan , Sarkarkannadiputhur	Udumalaipettai	Udumalaipettai	Thirupur	529.66
4	Sarkarkannadiputhur old channel	Amaravathi River @ LS20.80 km from Amaravathi Dam	11.466	East Komaralingan , Sarkarkannadiputhur, Vedapatti, Sholamadevi	Madathukulam	Udumalaipettai	Thirupur	279.56
		TOTAL	48.489					1956.36

Package 7ASB /NCB /2011-12

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	2	48.489	1956.36	-	-	-	-	-	-	-	-	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	-	-	-	-	-	-	-	-	-	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	-	30.885	1956.36	-	-	-	-	-	-	-	-	-

Package 8/ASB/NCB/2011-12(List of anicut)

Sl. No	Anicuts	Village	Block	Taluk	District	Direct Ayacut Area in Ha	Capacity in Mcft
1	Sholamadevi Anicut	Sholamadevi	Madathukulam	Udumalaipettai	Thirupur	234.72	-
2	Kadathur anicut	Kadathur	Madathukulam	Udumalaipettai	Thirupur	473.90	-
3	Kaniyur anicut	Kaniyur	Madathukulam	Udumalaipettai	Thirupur	157.83	
4	Karatholuvu anicut	Karatholuvu	Madathukulam	Udumalaipettai	Thirupur	252.93	

List of Supply Channel

Sl.No	Name of Supply Channel	Off take point	Length in Km	Village	Block	Taluk	District	Direct Ayacut in Ha
1	Sholamadevi old channel	Amaravathi River @ LS 25.60 km from Amaravathi Dam	7.164	Sholamadevi	Udumalaipettai	Udumalaipettai	Thirupur	234.72
2	Kadathur old channel	Amaravathi River @ LS 31.20 km from Amaravathi Dam	11.667	Kadathur	Madathukulam	Udumalaipettai	Thirupur	473.90
3	Kaniyur old channel	Amaravathi River @ LS 32.80 km from Amaravathi Dam	8.045	Kaniyur	Udumalaipettai	Udumalaipettai	Thirupur	157.83
4	Karatholuvu old channel	Amaravathi River @ LS 35.36 km from Amaravathi Dam	12.472	Karatholuvu	Madathukulam	Udumalaipettai	Thirupur	252.93
		TOTAL	39.348					1119.38

Package 8/ASB /NCB /2011-12

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	4	39.348	1119.38	-	-	-	-	-	-	-	-	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	-	-	-	-	-	-	-	-	-	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	-	31.61	1119.38	-	-	-	-	-	-	-	-	-

Package 9/ASB/NCB/2011-12(List of anicut)

Sl. No	Anicuts	Village	Block	Taluk	District	Direct Ayacut Area in Ha	Capacity in Mcft
1	Alangiam Anicut	Alangiam	Dharapuram	Dharapuram	Thirupur	426.55.0	
2	Dhalavaipattinam Anicut	Dhalavaipattinam	Dharapuram	Dharapuram	Thirupur	377.18.0	-
3	Dharapuram Anicut	Dharapuram South And Dharapuram North	Dharapuram	Dharapuram	Thirupur	978.15.0	-
4	Kolingivadi Anicut	Seethakadu	Dharapuram	Dharapuram	Thirupur	1305.95.0	-

List of Supply Channel

Sl.No.	Name of Supply Channel	Off take point	Length in Km	Village	Block	Taluk	District	Direct Ayacut in Ha
1	Alangiam Anicut	Nanjaithalaiyur Anicut	9.957	Nanjaithalaiyur Punjaithalaiyur Senapathipalayam	Moolanur	Dharapuram	Thirupur	2087.83
2	Dhalavaipattinam Anicut	Sundakkampalayam Anicut	7.638	Sundakkampalayam Arikkaranvalasu Velanpoondi	Moolanur	Dharapuram	Thirupur	
3	Dharapuram Anicut	Chinnadharapuram Anicut	21.122	Gudalur Bit-2 Chinnadharapuram Thokkuppatti Rajapuram	K.paramathi	Aravakuruchi	Karur	
4	Kolingivadi Anicut	Nanjaikalakurichi Anicut	10.177	Punjaikalakurichi Nanjaikalakuruchi	K.paramathi	Aravakuruchi	Karur	
		TOTAL	48.894					**2087.83**

Package 9ASB /NCB /2011-12

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	4	48.894	2087.83	-	-	-	-	-	-	-	-	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	4	13.534	-	-	-	-	-	-	-	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	-	35.360	2087.83	-	-	-	-	-	-	-	-	-

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

Package 10/ASB/NCB/2011-12

LIST OF ANICUTS

Sl. No	Anicuts	Village	Block	Taluk	District	Direct Ayacut Area in Ha	Capacity in Mcft
1	Nanjaithalaiyur Anicut	Nanjaithalaiyur	Moolanur	Dharapuram	Thirupur	119.86.5	-
2	Sundakkampalayam Anicut	Sundakkampalayam	Moolanur	Dharapuram	Thirupur	118.21.0	-
3	Chinnadharapuram Anicut	Gudalur Bit-2	K.paramathi	Aravakuruchi	Karur	760.11.5	-
4	Nanjaikalakurichi Anicut	Punjaikalakurichi	K.paramathi	Aravakuruchi	Karur	160.30.0	-

List of Supply Channel

Sl.No.	Name of Supply Channel	Off take point	Length in Km	Village	Block	Taluk	District	Direct Ayacut in Ha
1	Nanjaithalaiyur Channel	Nanjaithalaiyur Anicut	9.957	Nanjaithalaiyur Punjaithalaiyur Senapathipalayam	Moolanur	Dharapuram	Thirupur	199.86.5
2	Sundakkampalayam Channel	Sundakkampalayam Anicut	7.638	Sundakkampalayam Arikkaranvalasu Velanpoondi	Moolanur	Dharapuram	Thirupur	118.21.0

3	Chinnadharapura m Channel	Chinnadharapura m Anicut	21.122	Gudalur Bit-2 Chinnadharapuram Thokkuppatti Rajapuram	K.paramathi	Aravakuruchi	Karur	760.11.5
4	Nanjaikalakurich i Channel	Nanjaikalakurichi Anicut	10.177	Punjaikalakurichi Nanjaikalakuruchi	K.paramathi	Aravakuruchi	Karur	160.30.0
		TOTAL	48.894					**1238.49.0**

LIST OF TANKS (Separate statement for System and Non System tanks)- Non System Tank

Package No 10/ASB/NCB/2011-12

Sl. No	Tank	Village	Block	Taluk	District	Ayacut Area in Ha	Capacity in Mcft
1	Udayarkulam Tank	Alampalayam	Dharapuram	Dharapuram	Tirupur	35.36	6.85
2	Kongur Edachakulam Tank	Kongur	Dharapuram	Dharapuram	Tiruppur	48.55	24.61
3	Kattasamy Palayam Tank	Punjathalaiyur	Moolanur	Dharapuram	Tiruppur	63.54	13.06
	Total					147.43	

Package 10 /ASB /NCB /2011-12

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	4	40.75	1238.49.0	-	-	-	3	42.00	147.43	-	-	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	4	9.24	-	-	-	-	-	-	-	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	-	31.515	1238.49.0	-	-	-	3	38.00	147.43	-	-	-

Package No 11/ASB/NCB /2011-12

LIST OF ANICUTS

Sl. No	Anicuts	Village	Block	Taluk	District	Direct Ayacut Area in Ha	Capacity in Mcft
1	Pallapalayam Anicut	P.Anaippalayam	K.paramathi	Aravakuruchi	Karur	2103.74.0	-

List of Supply Channel

Sl.No.	Name of Supply Channel	Off take point	Length in Km	Village	Block	Taluk	District	Direct Ayacut in Ha
1	Left Bank canal	Pallapalayam Anicut	37.615	Visvanathapuri	K.paramathi	Aravakuruchi	Karur	2103.74.0
				LN Samuthiram Balambalpuram Panchamadevi Somur Achamapuram	Karur	Karur		
				Pallapalayam Andankovil Koyyampalli	Thanthoni	Karur		
				Karur	Karur			
				Renganathapuram Manavasi Mayanur	Krishnarayapuram	Krishnarayapuram		
		TOTAL	37.615					**2103.74.0**

Package 11 /ASB /NCB /2011-12

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	1	39.09	2292	-	-	-	-	-	-	-	-	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	4	-	-	-	-	-	-	-	-	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	-	29.70	2292	-	-	-	-	-	-	-	-	-

Package No 12ASB/NCB /2011-12

LIST OF ANICUTS

Sl. No	Anicuts	Village	Block	Taluk	District	Direct Ayacut Area in Ha	Capacity in Mcft
1.	Chettipalayam Anicut	Appipalayam	Thantoni	Karur	Karur	2310.00.0	-

List of Supply Channel

Sl.No.	Name of Supply Channel	Off take point	Length in Km	Village	Block	Taluk	District	Direct Ayacut in Ha
1	Right Bank Canal	Chettipalayam Anicut	27.650	Appipalayam Karuppampalayam Thirumanilaiyur Thanthoni Sanaperatti Melappalayam Puliyur	Thanthoni	Karur	Karur	2310.00.0
				Karur	Karur			
				Renganathapuram Manavasi Mayanur	Krishnarayapuram	Krishnarayapuram		
		TOTAL	27.650					**2310.00.0**

Package 12ASB /NCB /2011-12

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	1	27.65	2259.87	-	-	-	-	-	-	-	-	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	1	-	-	-	-	-	-	-	-	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	-	14.66	2259.87	-	-	-	-	-	-	-	-	-

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.

AMARAVATHI SUB BASIN - PACKAGE No.9-to 12ASB/NCB/2011-12

List of tanks/Anicuts executed under various schemes (Viz, Part II Scheme, NABARD, WRCP I etc.,) since 2003.

SI.No.	Name of Anicut / Tank	Ayacut in Ha	Scheme in which executed	Amount	Details of components executed	Remarks
1	**NIL**					

Package No 13 & 14ASB/NCB /2011-12

LIST OF ANICUTS

Sl. No	Anicuts	Village	Block	Taluk	District	Direct Ayacut Area in Ha	Capacity in Mcft
1.	NIL						

List of Supply Channel

Sl.No.	Name of Supply Channel	Off take point	Length in Km	Village	Block	Taluk	District	Direct Ayacut in Ha
1	Palar-Porundalar Left Main canal	Palar-Porundalar Dam	40.520	Perriyammapatti, Eravimangalam, Neikarappatti, Citrakulam, Thalayuthu, Manur, Korikadavu,Kolumakondan, Melkaraipatti	Palani, Thopampatti	Palani	Dindugul	3885
		TOTAL	40.520					**3885**

Package 13 & 14ASB /NCB /2011-12

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	1	-	-	-	-	-	-	-	-	40.520	3885	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	1	-	-	-	-	-	-	-	-	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	-	-	-	-	-	-	-	-	-	40.520	3885	-

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.

AMARAVATHI SUB BASIN - PACKAGE No.13 & 14ASB/NCB/2011-12

List of tanks

SI.No.	Name of Anicut / Tank	Ayacut in Ha	Scheme in which executed	Amount	Details of components executed	Remarks
1	**NIL**					

PACKAGE NO:15

1.5.1 List of Anicuts(system) -PALAR PORUNDALAR SYSTEM

Sl. No	Anicuts	Village	Block	Taluk	District	Direct Ayacut Area in Ha	Capacity
1	ThamaraiKulam Anicut	ThamaraiKulam	Palani	Palani	Dindigul	Nil	Nil
2	Kalayamputhur Anicut	A.Kalayamputhur	Palani	Palani	Dindigul	Nil	Nil
3	Manur Anicut	Manur	Palani	Palani	Dindigul	Nil	Nil
4	Korikkadavu Anicut	Korikkadavu	Palani	Palani	Dindigul	Nil	Nil
5	Keeranur Anicut	Keeranur	Palani	Palani	Dindigul	Nil	Nil

1.5.2.List of system tank PALAR PORUNDALAR SYSTEM

Sl.No	Name of Tank	Village	Block	Taluk	District	Direct Ayacut Area in 'Ha'	Capacity in m.Cft
1	PorundanKulam	Periammapatty	Palani	Palani	Dindigul	51.84	10.98
2	PanchanthangiKulam	Periammapatty	Palani	Palani	Dindigul	110.90	16.49
3	NaduKulam	Periammapatty	Palani	Palani	Dindigul	49.35	2.61
4	AlanKulam	Periammapatty	Palani	Palani	Dindigul	62.89	0.53
5	Ammapattykulam	Periammapatty	Palani	Palani	Dindigul	383.00	27.56
6	Kumarasamudram	Periammapatty	Palani	Palani	Dindigul		
7	ThamaraiKulam	ThamaraiKulam	Palani	Palani	Dindigul	331.85	54.03
8	SembaKulam	Thumbalapatty	Palani	Palani	Dindigul	64.16	13.92
9	SenKulam	Korrikudavu	Thoppampatti	Palani	Dindigul	109.78	6.11
10	AlanKulam	Keeranur	Thoppampatti	Palani	Dindigul	358.60	30.65

List of Supply Channel (system) PALAR PORUNDALAR SYSTEM

SI.No	Name of Supply Channel	Village	Block	Taluk	District	Ayacut in Ha	Capacity in cusecs
1	Zamin Anicut Channel	Periammapatty	Palani	Palani	Dindigul	32.39	110
2	Tadakulam Channel	Balasamudram	Palani	Palani	Dindigul	341.70	70
3	ThamaraiKulam Anicut Channel	ThamaraiKulam	Palani	Palani	Dindigul	10.84	196
4	Kalayamputhur Anicut Channel	A.Kalayamputhur	Neikarapatti	Palani	Dindigul	223.40	111
5	Manur Anicut Channel	Manur	Palani	Palani	Dindigul	394.93	194
6	Korikkadavu Anicut Channel	Korikkadavu	Thoppampatti	Palani	Dindigul	183.45	77
7	Manur Extension Channel	Thumbalapatty	Thoppampatti	Palani	Dindigul	202.00	20

Package 15/ASB /NCB /2011-12

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	8	35.435	435.88	10	-	1522.37	-	-	-	-	-	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	5	15.255	212.48	-	-	-	-	-	-	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	3	20.15	223.4o	10	-	1522.37	-	-	-	-	-	-

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.

PACKAGE NO:16

1.5.1 List of Anicuts(Non system) -PALAR PORUNDALAR SYSTEM

Sl. No	Anicuts	Village	Block	Taluk	District	Direct Ayacut Area in Ha	Capacity
1	Pudukulam Anicut	Neikkarapatti	Neikkarapatti	Palani	Dindigul	Nil	Nil
2	Odayakulam Anicut	A.Kalayamputhur	Neikkarapatti	Palani	Dindigul	Nil	Nil

1.5.2.List of Non system tank PALAR PORUNDALAR SYSTEM

Sl.No	Name of Tank	Village	Block	Taluk	District	Direct Ayacut Area in 'Ha'	Capacity in m.Cft
1	Kullappanaickenkulam	Balasamudram	Palani	Palani	Dindigul	68.95	3.37
2	Bangarusamudram	Balasamudram	Palani	Palani	Dindigul	41.13	3.54
3	ChinnaKulam	Balasamudram	Palani	Palani	Dindigul	77.69	3.64
4	ManthaiKulam	Ayyampulli	Palani	Palani	Dindigul	92.45	6.76
5	PuduKulam	Neikkarapatti	Neikkarapatti	Palani	Dindigul	89.56	15.40
6	Eravimangalamtank	Eravimangalam	Neikkarapatti	Palani	Dindigul	244.20	29.53
7	SenKulam	A.Kalayamputhur	Neikarapatti	Palani	Dindigul	164.20	7.10
8	OdayaKulam	A.Kalayamputhur	Neikarapatti	Palani	Dindigul	119.07	25.57

9	AthikaraiKulam	A.Kalayamputhur	Neikarapatti	Palani	Dindigul	64.66	15.19
10	Sakkarai kavundanKulam	A.Kalayamputhur	Neikarapatti	Palani	Dindigul	60.49	19.85

1:5:2 LIST OF NON - SYSTEM TANK(Varadhamanathi System)

Sl. No.	Name of Tank	Village	Block	Taluk	District	Ayacut (in Ha)	Capacity in m.Cft
1	Kannadi Perumal kulam	Ayyampulli	Palani	Palani	Dindigul	47.65	4.45
2	Periya Ayyampulli kulam	Ayyampulli	Palani	Palani	Dindigul	346.25	39.90
3	Chinna Ayyampulli kulam	Ayyampulli	Palani	Palani	Dindigul	50.00	4.73
4	Periya Ottukulam	Ayyampulli	Palani	Palani	Dindigul	61.77	1.49
5	Chinna Ottukulam	Ayyampulli	Palani	Palani	Dindigul	62.50	3.30
6	Ayyankulam	East Ayakudi	Ayakudi	Palani	Dindigul	65.16	6.921
7	Karisalkulam Senkulam	Amarapoondi	Oddanchatram	Oddanchatram	Dindigul	161.30	19.53
					TOTAL =	794.63	

List of Supply Channel (Non system) PALAR PORUNDALAR SYSTEM

SI.No	Name of Supply Channel	Village	Block	Taluk	District	Ayacut in Ha	Capacity in cusecs
1	Pudukulam Anicut Channel	Neikkarapatti	Neikarapatti	Palani	Dindigul	0	198
2	Odayakulam Anicut channel	A.Kalayamputhur	Neikarapatti	Palani	Dindigul	0	75

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	-	-	-		-	-	19	-	1982.52	-	-	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	-	-	-	-	-	-	-	-	-	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	2	-	-	-	-	-	19	2.215	1982.52	-	-	-

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.

PACKAGE NO:17

PACKAGE NO:17 / ASB / NSB / 2011-12

1.5.1 LIST OF ANICUTS(Varadhamanathi System)

Sl. No.	Anicuts	Village	Block	Taluk	District	Direct Ayacut Area in Ha	Capacity
1	Sakkilian Anicut	East Ayakudi	Palani	Palani	Dindigul	Nil	Nil
2	Kothai Anicut	Ayyampulli	Palani	Palani	Dindigul	Nil	Nil
3	Kallakadu Anicut	Palani	Palani	Palani	Dindigul	Nil	Nil
4	Uppuchetti Anicut	Palani	Palani	Palani	Dindigul	Nil	Nil
5	Palar Anicut	Ayyam pulli			Dindigul	305.78	
6	Karungulam Anicut	Parithiur	Palani	Palani	Dindigul	183.99	55.33
7	Karisalkulam Anicut	Porulur	Palani	Palani	Dindigul	65.95	126.3
8	Karisalkulam Sengulam Anicut	Amarapoondi	Palani	Palani	Dindigul	398.41	9.61
9	Sengulam	Manjanayackanur	Palani	Palani	Dindigul	78.15	12
10	Karungulam Anicut	Chatrapatty	Palani	Palani	Dindigul	213.41	163.9
11	Ayyankulam Anicut	EastAyakudi	Palani	Palani	Dindigul	160.95	209.8

1.5.2 LIST OF SYSTEM TANK(Varadhamanathi System)

Sl. No.	Name of Tank	Village	Block	Taluk	District	Direct Ayacut Area in Ha	Capacity in m.Cft
	CLUSTER I						
1	Periyakulam	West Ayakudi	Ayakudi	Palani	Dindigul	368.39	30.087
2	Veerakulam	West Ayakudi	Ayakudi	Palani	Dindigul	83.77	9.358
3	Oomaikumaraservaikaran kulam	West Ayakudi	Ayakudi	Palani	Dindigul	17.25	3.248
4	Sodappanaickenkulam	West Ayakudi	Ayakudi	Palani	Dindigul	21.49	2.313
5	Idumbankulam	Palani	Palani	Palani	Dindigul	34.99	39.763
6	Kumaranaicken kulam	East Ayakudi	Ayakudi	Palani	Dindigul	44.41	8.122
7	Mappillainaickenkulam	East Ayakudi	Ayakudi	Palani	Dindigul	16.87	3.743
8	Pappankulam	East Ayakudi	Ayakudi	Palani	Dindigul	126.48	21.082
	CLUSTER II						
9	Thattankulam	Thattankulam	Ayakudi	Palani	Dindigul	35.36	13.984
10	Kurumbapattikulam	Kothaimangalam	Palani	Palani	Dindigul	28.51	7.839
11	Devanaickenkulam	East Ayakudi	Ayakudi	Palani	Dindigul	58.09	8.38
12	Kallikkanaickenpatti kulam	Kallikkanaickenpatti	Palani	Palani	Dindigul	42.10	14.478
13	Pattikulam	Earamanaickenpatti	Ayakudi	Palani	Dindigul	49.21	25.673
	CLUSTER III						
14	Palanipappankulam	Palani	Palani	Palani	Dindigul	86.40	25.577
15	Vaiyapurikulam	Palani	Palani	Palani	Dindigul	312.40	53.536
16	Sirunaickenkulam	Palani	Palani	Palani	Dindigul	54.45	8.000
17	Pudukulam	Kothaimangalam	Palani	Palani	Dindigul	150.26	53.571

18	Sinnakulam	Kothaimangalam	Palani	Palani	Dindigul	combined	1.515
					TOTAL =	1530.43	

1.5.3 LIST OF SUPPLY CHANNELS(Varadhamanathi System)

Sl. No.	Channal	Village	Block	Taluk	District	Ayacut in Ha	Capacity in Cusecs
1	Pappan channel	East Ayakudi	Palani	Palani	Dindigul	274.60	1940.21
2	Periya voikkal channel	East Ayakudi	Palani	Palani	Dindigul	195.28	315.00
3	Kothai Anicut channel	Palani	Palani	Palani	Dindigul	155.94	1244.50
4	Palani Pappan channel	Palani	Palani	Palani	Dindigul		—

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	11	37.905	707.36	18	-	1530.44	-	-	-	-	-	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	11	19.675	-	3	-	908.25	-	-	-	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	-	18.23	707.36	15	-	622.19	-	-	-	-	-	-

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.

PACKAGE NO:18

1.5.1 List of Anicuts

Sl. No	Anicuts	Village	Block	Taluk	District	Direct Ayacut Area in Ha	Capacity
1	Naganvalasu	Andipatty	Palani	Palani	Dindigul	98.767	Nil
2	Panchathangi	Reddiampadi	Palani	Palani	Dindigul	176.354	Nil
3	Sembakulam	Reddiampadi	Palani	Palani	Dindigul	183.700	Nil
4	Muthukulam	Sangararamanallur	Madathukulam	Madathukulam	Tripur	9.070	Nil
5	Kothaiamman Kulam	Kolumam	Madathukulam	Madathukulam	Tripur	13.190	Nil
6	Sangaramanallur	Sangararamanallur	Madathukulam	Madathukulam	Tripur	51.40	Nil

PACKAGE NO:18

1.5.2.List of system tank

Sl.No	Name of Tank	Village	Block	Taluk	District	Direct Ayacut Area in 'Ha'	Capacity in m.Cft
1	Pudukulam	Antipatti	Palani	Palani	Dindigul	115.363	15.22
2	Ammakulam	Antipatti	Palani	Palani	Dindigul	29.283	2.4
3	Rayakulam	Pappampatti	Palani	Palani	Dindigul	40.1	7.59
4	Panchanthangi	Pappampatti	Palani	Palani	Dindigul	136.836	16.5
5	Sembakulam	Ayampalayam	Palani	Palani	Dindigul	18.72	3.00
6	Muthukulam	Sangaramanallur	Madathukulam	Madathukulam	Tripur	112.02	6.89
7	Ottu Kulam	Sangaramanallur	Madathukulam	Madathukulam	Tripur		1.48
8	Kuyavankuttai	Sangaramanallur	Madathukulam	Madathukulam	Tripur	13.91	3.1
9	Kothaiamman Kulam	Kolumam	Madathukulam	Madathukulam	Tripur	155.96	40
					Total	**622.192**	

List of Supply Channel

Sl.No	Name of Supply Channel	Village	Block	Taluk	District	Direct Ayacut in Ha	Capacity in cusecs
1	Nagavalasu Supply channel	Antdipatti	Palani	Palani	Dindigul	98.767	26
2	Panchanthangi Anicut supply channel	Reddiampadi	Palani	Palani	Dindigul	176.354	120
3	Sembakulam Anicut Supply channel	Pappanpatti	Palani	Palani	Dindigul	183.7	135l
4	Muthukulam Anicut supply channel	Sangramanellore	Madathukulam	Madathukulam	Tripur	9.07	388
5	Kothaiammankulam Anicut supply channel	Kolumam	Madathukulam	Madathukulam	Tripur	13.19	319
6	Sangaramanallur Anicut supply channel	Sangramanellore	Madathukulam	Madathukulam	Tripur	51.4	36

Package 18/ASB /NCB /2011-12

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	6	23.80	532.48	9	-	622.19	-	-	-	-	-	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	4	6.87	304.73	-	-	-	-	-	-	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	2	16.93	227.75	9	-	622.19	-	-	-	-	-	-

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.

AMARAVATHI SUB BASIN PACKAGE No.19 / ASB / NCB / 2011-12

1.5.1 LIST OF ANICUTS

Sl. No	Anicuts	Village	Block	Taluk	District	Direct Ayacut Area in Ha	Remarks
1	Perumalkulam anicut	Virupatchi	Oddanchatram	Oddanchatram	Dindigul	51.93	
2	Sadayakulam anicut	Thangachiammapatti	Oddanchatram	Oddanchatram	Dindigul	Nil	
3	Ramasamudram anicut	Veriyapur	Oddanchatram	Oddanchatram	Dindigul	9.35	
4	Javathupatti anicut	Javathupatti	Oddanchatram	Oddanchatram	Dindigul	117.41	
5	Appasamudram anicut	Edayakottai	Oddanchatram	Oddanchatram	Dindigul	7.81	
6	Koraiyuthu anicut	Koraiyuthu	Aravakurichi	Aravakurichi	Karur	107.29	
7	Ottanai anicut	Pallapatti	Aravakurichi	Aravakurichi	Karur	53.80	
8	Aravakkurichi anicut	Aravakurichi	Aravakurichi	Aravakurichi	Karur	38.66	

1.5.2.List of system tank

Sl.No	Name of Tank	Village	Block	Taluk	District	Direct Ayacut Area in 'Ha'	Capacity in m.Cft
1	Perumalkulam	Virupatchi	Oddanchatram	Oddanchatram	Dindigul	102.12	15.29
2	Sengulam	Odaipatti	Oddanchatram			40.02	15.08
3	Ramasamudram	Veriyapur	Oddanchatram			40.97	20.05
4	Muthu Boobal samudram	Dhasaripatti	Oddanchatram			44.52	10.17
5	Sadayakulam	Thangachiammapatti	Oddanchatram			219.40	52.05
6	Javadhupatty Periyakulam	Javadhupatty	Oddanchatram			46.29	20.11
7	Appasamudram	Idayakottai	Oddanchatram			7.810	8.30
						501.13	**141.05**

AMARAVATHI SUB BASIN PACKAGE No.19 / ASB / NCB / 2011-12

1.5.3.List of Non--system tank

Sl.No	Name of Tank	Village	Block	Taluk	District	Ayacut(in Ha)	Capacity in M.Cft
1	Kaveriamma patty Periakulam	Kaveriammapatty	Oddanchatram	Oddanchatram	Dindigul	43.21	15.19
2	Kollapatty Tank	Kollapatty	Oddanchatram			87.04	8.228
3	Navakani Tank	Navakani	Oddanchatram			111.74	23.00
4	Udayakulam Tank (Ex-zamin Tank)	Dhasaripatti	Oddanchatram			63.92	10.78
					Total	305.91	**57.19**

AMARAVATHI SUB BASIN - PACKAGE No.19 / ASB / NCB / 2011-12

List of Supply Channel

Sl. No	Name of Supply Channel	Village	Block	Taluk	District	Ayacut in Ha	Remarks
1	Muthu Boobal samudram Tank Supply Channel	Dhasaripatti	Oddanchatram	Oddanchatram	Dindigul	51.93	
2	Perumalkulam Tank Supply Channel	Virupatchi	Oddanchatram			0	
3	Sadayakulam Tank Supply Channel	Thangachiamma patti	Oddanchatram			0	
4	Ramasamudram Tank Supply Channel	Veriyapur	Oddanchatram			9.36	
5	Javadhupatty Periyakulam Tank Supply Channel	Veriyapur	Veriyapur			101.21	
6	Javadhupatty Anicut	Javadhupatty	Oddanchatram			117.41	
7	Varadhagan Anicut Channel	Idayakottai				20.24	
8	Koraiyuthu Anicut Channel	Koraiyuthu	Aravakurichi	Aravakurichi	Karur	107.29	
9	Ottanai Anicut Channel	Pallapatti	Aravakurichi			5.53	
10	Aravakurichi Anicut Channel	Aravakurichi	Aravakurichi			38.66	
						451.63	

AMARAVATHI SUB BASIN PACKAGE No.19 / ASB / NCB / 2011-12

List of tanks/Anicuts executed under various schemes (Viz, Part II Scheme, NABARD, WRCP I etc.,) since 2003.

Sl.No.	Name of Anicut / Tank	Ayacut in Ha	Scheme in which executed	Amount in Lakhs	Details of components executed	Remarks
1						
2						
3			-------- NIL ---------			
4						
5						
6						

Work taken up under NABARD but also taken up in IAMWARM Project

Sl No	Name of tank	Work done under NABARD Programme	Work Now proposed in IAMWARM	Remarks
	NIL			

Package 19/ASB /NCB /2011-12

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	8	10.643	386.25	7	15.565	507.13	4	1.75	307.90	35.96	3642.24	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	5	10.643	259.49	1	5.66	7.81	1	1.75	65.92	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	3	-	126.76	6	9.905	499.32	3	-	241.98	0.297	-	Gross Masonry Works Of Rmc Of Kodaganar Dam

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.

AMARAVATHI SUB BASIN - PACKAGE No.19 / ASB / NCB / 2011-12

Annexure – 2

Details of "Awareness Creation Activities and Walk-through Surveys".

Sl. No	Date of Visit	Names of the Villages Visited	Awareness Programme (No. of farmers attended)	Walk-Through Survey (No. of farmers Participated)	Remarks
1.	21.10.11	Virupatchi	40	30	
2.	21.10.11	Odaipatti	60	45	
3.	21.10.11	Veriyapur	50	30	
4.	22.10.11	Dhasaripatti	55	35	
5.	22.10.11	Thangachiammapatti	60	45	
6.	22.10.11	Javadhupatty	40	30	
7	23.10.11	Idayakottai	58	45	
8	23.10.11	Kaveriammapatty	55	45	
9	23.10.11	Kollapatty	45	35	
10	24.10.11	Navakani	50	25	
11	24.10.11	Dhasaripatti	55	35	

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	0.9x 0.75	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	1.00x 0.90	290.500	58.70	580	1.50	0.40	1 in 200		
8.	Uppukulam	Vembar patti	15.280	35	315.200				60.15	0	1.00x 0.90	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	0.75x 0.90	284.500	60.50	650	1.30	0.60	10in 200		
11.	Ragalapuram	Ragalapuram	36.153	42	215.500			1.250	70.50	0	1.50x 0.90	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		

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	
13.	Kavetti Rengappa Naickenkulam	Rajakka patti	0.32	45	260.460		1.650	1.650	60.70	0	1.50x 0.90	261.880	60.70	1150	2.00	0.50	1 in 300		
14.	Koolengaiyar	Mania karan patti	38.014	60	250.150		1.400	1.400	75.80	0	1.50x 0.90	251.550	75.80	1350	2.00	0.60	10in 200		
15.	Emakkalapuram	Eamakkal apuram	36.777	40	310.610		1.780	1.780	80.80	0	1.50x 0.90	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	1.50x 0.90	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	Anjukuli patti	65.283	15.00	265.560		1.700	1.700	50.50	0	1.50x 0.90	266.700	45.50	1500	2.00	0.40	1 in 100		
19.	Lingammal kulam	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	Thethupati	62.951	30	302.990		8.32	33.220	77.50	-	0.30x 0.45	296.850	2.945	2550	3.50	0.60	1 in 2500	7	
22.	Mangararai	Mangarai	48.975	15.50	273.920		15.25	15.25	260	-	0.30x 0.45	272.450	3.01	1265	2.00	1.00	1 in 1330	--	
			743.527	590.5										29935					

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																		
2																			
3				---------- NIL----------															
4																			
5																			
6																			
7																			
			Total																

b) 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	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.			**A.Vellodu Periyakulam**	41.95	0.239	2.5	17.20	17.20	38.86	288.850	289.450	5	1	57.00	1765.75	1050	-		
5.			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.		Dindigul	**Kottur Avarampatti, Thamarikulam**	87.65	0.400	3	2.58	11.071	43.07	238.790	239.090	2	2	12.20 & 13.77	1227.65	1300	-		
7.			**Brammasamudram, Anaipatti**	67.76	0.381	1	9.066	37.213	39.10	247.160	247.960	2	1	69.40	3.066	1005	-		
8.			**Sindalakundu Thamaraikulam**	213.40	0.890	3.5	2.48	5.05	78.68	254.880	255.480	5	1	22.70	745.45	2370	-		
9.			**Muthanampatti tank, Kuttathupatti**	59.55	0.543	1.67	6.54	20.44	59.29	255.850	256.450		1	23.55	2050.74	840	-		

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					
10.			**Mangarai Tank, Mangarai**	48.975	0.495	1.5	1.525	1.525	41.93	272.560	273.110		1	19.10	422.36	1700	1265		
11.		Dindigul	**Kadhir Narasinga perumalkulam , Kothapuli**	95.905	0.433	1	6.21	6.21	39.20	266.700	267.350		1	30.20	1021.31	1200	-		
12.			**Pudhukulam Kobaiyar tank, Chatrapatti**	118.660	0.552	3	5.05	5.05	1.153	312.200	313.100	1	1	28.65	2000	610	-	--	Mangarai river
13.			**Kathirayankulam, Palaya Kannivadi**	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.			**Thethupatti Tank, Thethupatti**	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.			**Chinnakobaiyar Tank, Kodalvavi**	83.770	0.488	2	4.78	4.78	0.20	388.700	339.300	1	1	36.00	1800	1100	-	--	Mangarai river
16.			**Periyakobaiyar Tank, Kodalvavi**	566.770	1.039	3	4.57	4.57	5.08	343.550	344.450	2	1	42.70	2450	480	-	--	Mangarai river
17.			**Nayodai tank, Sirangadu**	185.330	19.266	2	--	3.62	29.36	328.500	329.500	2	1	30.00	2300	600	-	--	Mangarai river

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					
18.		Dindigul	**Ramakkal Odai and Anaivilundan odai tank, A. Vellodu, and Keelakottai**	107.690	0.268	2	--	5.63	4.76	325.670	326.670	1	1	30	2050	1510	-	--	Mangarai river
19.		Authoor	**Neelamalaikottai tank, Kariagoundan patti**	72.850	15	1.75	64.50	64.50	2.48	332.000	332.600	1	1	63	2393	310	-	-	Mangarai river
20.			**Nagasamudram, Pallapatti**	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	-		
				2310.6								16	22			12905			

C) SUPPLY CHANNELS HAVING DIRECT AYACUT

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							
				NIL								

Package 20/ASB /NCB /2011-12

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	22	29.935	743.53	-	-	-	20	26.130	2462.41	-	-	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	22	29.935	-	-	-	-	4	19.365	419.42	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	-	-	-	-	-	-	16	6.765	2042.99	-	-	-

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.

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)	Bed width (M)	FSD (M)	Bed slope	Sluice (No.)	
1.	Anaikulam Anicut	Periyakottai	62.40	143.00	283.100		-	-	-	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	1.30x 0.90	264.05	1.577	1410	3.00	0.50	1 in 416 and 1 in 664	2	
3.	Manthai Periyakulam Anicut	Thamaraipa di	45.22	80.00	262.665		5.00	8.502	34.286	Left	1.30x 0.90	261.865	34.286	420	2.20	0.80	1 in 1050	3	
4.	Padiyur Periyakulam	Padiyur	88.619	143.75	253.300		2.910	4.890	241.30	Right	1.80x 1.30	252.30	241.30	1220	5.00	1.00	1 in 550	2	
5.	Kulathur Periya samudram	Kulathur	128.392	122.50	252.945		-	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	237.850		-	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	275.280		-	-	-	Right	1.20 x 0.90	274.280	-	2250	3.00	0.60	1 in 1000	2	

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)	Bed width (M)	FSD (M)	Bed slope	Sluice (No.)	
8.	Pilathu manthai kulam anicut	Pilathu	50.999	30.00	291.410	-	-	-	-	Left	Open off take	-	-	-	3.00	1.00	-	-	
9.	Thennampatti manthai kulam	Thennampatti	73.058	20.00	275.980	-	-	-	-	Left	Open off take	274.980	-	600	3.00	1.00	1 in 1000	-	
10.	Vallakondan samudram anicut	Nallamanarkttai	101.644	40.00	264.930	-	-	-	-	Left	1.20 x 0.60	263.930	-	2050	3.00	1.00	1 in 1000	2	

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 in m					
							---------- NIL ----------												

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	-	Kuppinayakkan 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			**Manthai Periyakulam**	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	**Padiyur Periyakulam**	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			**Kulathur Periyasamudram**	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			**Marambadi Periyakulam**	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	Thavasi ulam
8			**Velvarkottai Periyakulam**	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			**Pilathu Manthai kulam**	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	**Thenampatty Manthai kulam**	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	Gurundanmalai	Karunkulam
11			**Vellakondan samudram**	101.644	1.009	2	2.721	79.31	0.9057	261.830	262.730	3	3	53.95, 15.00, 60.00	107.24	1740	2050	Alankulam	Aruppanpatti kulam
12			**Ramagri tank**	78.760	0.229	2	0	0	0.83234	285.000	286.000	1	1	48.00	1580.00	760	0	-	-
13			**Uthangaraiar tank**	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	**Sangaliankovil odai tank**	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		

c) SUPPLY CHANNELS HAVING DIRECT AYACUT

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							
				NIL								

Package 21/ASB /NCB /2011-12

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	10	14.965	730.72	-	-	-	14	15.365	1057.99	-	-	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	10	14.965	730.72	-	-	-	3	-	281.52	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	-	-	-	-	-	-	11	15.365	776.47	-	-	-

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.

LIST OF ANICUTS- (Package 22/ASB/NCB/2011-12)

Sl. No	Anicuts	Village	Block	Taluk	District	Direct Ayacut Area in Ha	Capacity in Mcft
1	NIL						

LIST OF TANKS
Package No 22/ASB/NCB/2011-12

Sl. No	Tank	Village	Block	Taluk	District	Ayacut Area in Ha	Capacity in Mcft
1	NIL						

List of Supply Channel
Package No 22/ASB/NCB/2011-12

Sl.No.	Name of Supply Channel	Off take point	Length in Km	Village	Block	Taluk	District	Direct Ayacut in Ha
1	uppar Right Flank canal	Uppar Dam	12.47	Kethalrev, Thoppampatti, Varapalayam, Madathupalayam, Puthur, Nanjiyampalayam	Dharapuram	Dharapuram	Thirupur	1015.78
2	uppar Left Flank canal	Uppar Dam	17.29	Velayuthapalayam, Kethalrev, Suryanalur, Kannankovil, Sankarandampalayam, Thoppampatti, Varapalayam	Dharapuram, Kundadam	Dharapuram	Thirupur	1436.66
		TOTAL	29.76					2452.44

Package 22/ASB /NCB /2011-12

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

SL.NO	DETAILS	ANICUT			SYSTEM TANK			NON- SYSTEM TANK			ANY OTHER SUPPLY CHANNEL		REMARKS
		NOS	SUPPLY CHANNEL IN KM	DIRECT AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	NOS	SUPPLY CHANNEL IN KM	AYACUT	LENGTH	DIRECT AYACUT	
1	Available Infrastructure in sub basin	-	-	-	-	-	-	-	-	-	29.76	2452.44	-
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2003	-	-	-	-	-	-	-	-	-	-		-
3	Infrastructures that does not require any rehabilitation works	-	-	-	-	-	-	-	-	-	-	-	-
4	a)Work executed under NABARD But also proposed in IAMWARM	-	-	-	-	-	-	-	-	-	-	-	-
	b)Work proposed in IAMWARM alone	-			-	-	-	-	-	-	29.76	2452.44	-

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 earthern channels. The channel banks are heavily eroded in many places and are below the required standards.

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

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

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

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

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

In order to improve the conveyance and operational efficiency, it is now proposed 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 **7937.74Ha**. is to be converted as a fully irrigated area
3. Increase in additional cultivational area during second crop season for about **6000** ha.

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	Udaiyur kulam tank	4.83 M	1.22 M	1.50M	915M
2	Kongur Idaichikulam tank	6.00M	2.44M	1.50M	1600M
3	Kathasamypalayam tank	4.90M	1.90M	1.50M	1050M

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 PROVIDED PACKAGE 17					
VARADHAMAVADHI SYSTEM- AMARAVATHI SUB BASIN					
Sl No.	Tank Name	Maximum Height of Bund	Free Board		Length of bund (m)
			Provided Previously	Provided Now	
1	Periyakulam	6.195	1.25	1.50	1619
2	Veerakulam	5.02	1.25	1.50	747
3	Oomaikumaraservaikarankulam	4.46	1.00	1.50	1100
4	Sodappanaickenkulam	4.8	1.25	1.50	482
5	Idumbankulam	6.42	1.25	1.50	1321
6	Kumaranaickenkulam	3.44	1.25	1.50	605
7	Mappillainaickenkulam	3.83	1.00	1.50	990
8	Pappankulam	5.63	1.25	1.50	1975
9	Thattankulam	Measuring Device only proposed		Work not taken up by WRD	
10	Kurumbapattikulam	Measuring Device only proposed		Work not taken up by WRD	
11	Devanaickenkulam	5.39	1.25	1.50	652
12	Kallikkanaickenpattikulam	5.67	1.25	1.50	1260
13	Pattikulam	Measuring Device only proposed		Work not taken up by WRD	
14	Palanipappankulam	5.43	1.25	1.50	1980
15	Vaiyapurikulam	6.98	1.50	1.50	2380
16	Sirunaickenkulam	5.55	1.25	1.50	1005
17	Pudukulam	7.71	2.00	1.50	1910
18	Sinnakulam	4.47	1.00	1.50	400
19	Kannadi Perumal kulam	4.82	1.00	1.50	1333
20	Periya Ayyampullikulam	9.08	2.00	1.50	1950
21	Chinna Ayyampullikulam	4.83	1.00	1.50	1115
22	Periya Ottukulam	4.13	1.00	1.50	793
23	Chinna Ottukulam	4.67	1.00	1.50	768
24	Ayyankulam	6.73	1.25	1.50	710
25	Karisalkulam Senkulam	4.91	1.25	1.50	2850
26	Karungulam (chatrapatti)	6	1.5	1.50	2081
27	Karungulam (parithiyur)	6.45	1.5	1.50	1395

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 PROVIDED PACKAGE 15					
PALAR PORUNDALAR SYSTEM- AMARAVATHI SUB BASIN					
Sl. No.	Tank Name	Maximum Height of Bund	Free Board		Length of bund (m)
			Provided Previously	Provided Now	
1	PorundanKulam	5.00	0.90	1.50	1260
2	PanchanthangiKulam	5.00	0.90	1.50	1215
3	NaduKulam	5.00	0.90	1.50	637
4	AlanKulam	5.00	0.90	1.50	568
5	Ammapattykulam	5.65	1.25	1.50	1916
6	Kumarasamudram	4.19	1.25	1.50	1625
7	ThamaraiKulam	7.66	1.50	1.50	2654
8	SembaKulam	4.80	1.25	1.50	1087
9	SenKulam	4.14	1.00	1.50	803
10	AlanKulam(Keera)	6.80	1.50	1.50	1825
11	Kullappanaickenkulam	4.94	1.25	1.50	1050
12	BangaruSamudram	3.22	1.50	1.50	565
13	ChinnaKulam	3.37	1.00	1.50	1125
14	ManthaiKulam	3.90	1.00	1.50	1090
15	PuduKulam	4.50	1.25	1.50	1470
16	Ervimangalamkulam	6.89	1.50	1.50	1550
17	SenKulam(A.Kaliam)	4.96	1.25	1.50	1047
18	OdayaKulam	5.44	1.25	1.50	1461
19	AthikaraiKulam	5.98	1.25	1.50	1503
20	Sakkarai KavundanKulam	6.52	1.50	1.50	1466

TANK DETAILS WITH FREE BOARD PROVIDED PACKAGE 18

KUTHIRAIYAR SYSTEM - AMARAVATHI– SUB BASIN					
sl no	Name of the Tank	Maximum Height of Bund	Free Board		Length of Bund (m)
			Provided previously	Provided now	
1	Pudukulam Tank	5.83	1.50	1.50	1400
2	Ammakulam Tank	4.16	1.00	1.50	710
3	Rayakulam Tank	5.20	1.25	1.50	784
4	Panchathangi Tank	4.50	1.25	1.50	1240
5	Sembakulam	4.00	1.25	1.50	636
6	Muthukulam	4.00	1.00	1.50	1575
7	Ottukulam	3.87	1.00	1.50	396
8	Kuyavankttai	5.50	1.00	1.50	420
9	Kothaiyamman tank	6.00	1.50	1.5	1990

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 PROVIDED
PACKAGE :19/ASB/NCB/2011-12

KUTHIRAIYAR SYSTEM - AMARAVATHI– SUB BASIN					
sl no	Name of the Tank	Maximum Height of Bund	Free Board		Length of Bund (m)
			Provided previously	Provided now	
1	Perumalkulam	5.00	0.46	1.50	1547
2	Sengulam	4.715	0.75	1.50	1461
3	Ramasamudram	4.47	0.90	1.50	757
4	Muthu Boobala samudram	5.34	0.61	1.50	1225
5	Sadayakulam	5.725	0.75	1.50	2012
6	Javadhupatty Periyakulam	5.33	0.75	1.50	1730
7	Appasamudram	Measuring Device only proposed		Work not taken up by WRD	
8	Kaveriammapatty Periyakulam	6.16	0.76	1.50	253
9	Kollapatty Tank	3.600	0.60	1.50	1200
10	Navakani Tank	5.99	0.60	1.50	2000
11	Udayakulam Tank (Ex-Zamin Tank)	Measuring Device only proposed		Work not taken up by WRD	

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 PROVIDED
PACKAGE :20/ASB/NCB/2011-12

sl no	Name of the Tank	Maximum Height of Bund	Free Board		Length of Bund (m)
			Provided previously	Provided now	
1	Pagadikulam	6.095	1.25	1.50	1230
2	Pilvettikulam	7.161	1.50	1.50	1590
3	Aranmanai Odaikulam	6.56	1.52	1.50	1073
4	A.Vellodu Periyakulam	5.255	1.25	1.50	1050
5	Pillaiyarnatham Rengasamudram	4.655	1.00	1.50	1330
6	Kottur Avarampatti Thamarikulam	5.63	1.25	1.50	1300
7	Brammasamudram	4.149	0.999	1.50	1005
8	Sindalakundu Thamaraikulam	5.245	1.25	1.50	2370
9	Muthanampatti tank	2.98	1.00	1.25	840
10	Mangarai Tank	6.445	1.30	1.50	1700
11	Kadhir Narasinga perumalkulam	5.215	1.25	1.50	1200
12	Pudhukulam Kobaiyar tank	11.00	0.90	1.50	610
13	Kathirayankulam	4.445	1.00	1.50	840
14	Thethupatti Tank	5.85	1.15	1.50	1450
15	Chinnakobaiyar Tank	8.30	1.00	1.50	1100
16	Periyakobaiyar Tank	11.23	1.80	1.50	480
17	Nayodai tank	Measuring Device only proposed		Work not taken up by WRD	
18	Ramakkal Odai and Anaivilundan odai tank	Measuring Device only proposed		Work not taken up by WRD	
19	Neelamalaikottai tank	Measuring Device only proposed		Work not taken up by WRD	
20	Nagasamudram	Measuring Device only proposed		Work not taken up by WRD	

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 PROVIDED
PACKAGE :21/ASB/NCB/2011-12

sl no	Name of the Tank	Maximum Height of Bund	Free Board		Length of Bund (m)
			Provided previously	Provided now	
1	Pothakanmoi	6.60	2.00	1.50	445
2	Annaikulam	4.56	1.00	1.50	2012
3	Mullipadi Periyakulam	5.77	1.26	1.50	1950
4	Manthai Periyakulam	4.98	1.00	1.50	1470
5	Padiyur Periyakulam	5.19	1.25	1.50	2577
6	Kulathu Periyasamudram	6.67	1.25	1.50	2216
7	Marambadi periyakulam	4.91	1.25	1.50	1540
8	Velvarkottai periyakulam	3.46	1.25	1.50	1074
9	Pilathu Mandaikulam	6.17	1.25	1.50	1792
10	Thennapatti Mandaikulam	6.08	1.50	1.50	837
11	Vallakondan Samudram	5.56	1.25	1.50	1740
12	Ramagiri Tank	Measuring Device only proposed		Work not taken up by WRD	
13	Uthangaraiar Tank	Measuring Device only proposed		Work not taken up by WRD	
14	Sangaliankovil Odai Tank	Measuring Device only proposed		Work not taken up by WRD	

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

Pakage. No.	Name of work	Est.Amount (in lakhs)
1	Rehabilitation of Amaravathi Main Canal from LS. 0/0 km to 12/50 km	1093
2	Rehabilitation of Amaravathi Main Canal from LS. 12/50 km to 46/50 km	464
3	Rehabilitation of Amaravathi Main Canal LS 46/500 km to 63/200 km and distributaries from 46/500 km to 53/500 Km of Amaravathi Main canal.	590
4	Rehabilitation of Distributories from L.S 0/0 km to 26/55 km of Amaravathi Main Canal.	398
5	Rehabilitation of Distributories from L.S 26/55 km to 46/20 km of Amaravathi Main Canal.	411
6	Rehabilitation of Distributory at LS 49/880 and Distributories from L.S 53/500 km to 63/200 km of Amaravathi Main Canal.	602
7	Rehabilitation and Restoration of Ramakulam old channel, Kallapuram old Channel, Komaralingam old channel and SarkarKannadi pudur old channel in Amaravathi river system of Tiruppur District.	601
8	Rehabilitation and Restoration of Solamadevi old channel, Kaniyur old channel, Kadathur old channel and karatholuvu old channel in Amaravathi river system of Tiruppur District.	400
9	Rehablitation and restoration of Alangium channel, Dhalavaipattanam channel, Dharapuram channel and Kolinjivadi channel of Amaravathi river system in Tirupur District.	595
10	Rehablitation and restoration of Najaithalaiyur channel, Sundakkampalayam channel, Chinna Dharapuram channel , Nanjaikalakurichi channel and Non-System tanks and Vattamalai Karai Odai Dam supply channel under Amaravathi river system in Karur and Tirupur District.	465

11	Rehabilitation and restoration of Left bank channel taking off from Pallapalayam anicut in Amaravathi river system in Karur District.	500
12	Rehabilitation and restoration of Right bank channel taking off from Chettipalayam anicut in Amaravathi river system in Karur District.	300
13	Rehabilitation of Left Main canal from LS. 0 – 8100M of Palar Porundalar system of Amaravathi Sub Basin in Palani Taluk of Dindigul District.	1719
14	Rehabilitation of Left Main canal from LS. 8100M to 40520M of Palar Porundalar system of Amaravathi Sub Basin in Palani Taluk of Dindigul District.	522
15	Rehabilitation of system tanks, Anicuts and supply channels of Palar Porundalar system of Amaravathi Sub Basin in Palani Taluk of Dindigul District.	653
16	Rehabilitation of Non-system tanks, Anicuts and supply channels of Palar Porundalar and Varadhamanadhy systems of Amaravathi Sub Basin in Palani Taluk of Dindigul District.	590
17	Rehabilitation ofsystem tanks, Anicuts and supply channels of Varadhamanathi system of Amaravathi Sub Basin in Palani Taluk of Dindigul District.	500
18	Rehabilitation of system tanks, Anicuts and supply channels of Kudhuraiyar system of Amaravathi Sub Basin in Palani and Madathukulam Taluks of Dindigul and Tirupur Districts.	500
19	Rehabilitation of Tanks, Anicuts and supply channels in Parappalar and Kodaganur systems of Amaravathi Sub Basin in Oddanchatram and Aravakurichi Taluk of Dindigul and Karur Districts.	556

20	Rehabilitation of Tanks, Anicuts and supply channels in Upper Kodaganar of Amaravathi Sub Basin in Oddanchatram, Dindigul and Vedasandur Taluk of Dindigul District.	599
21	Rehabilitation of Tanks, Anicuts and supply channels in Varattar River , Right and Left main canals of Kodaganar Reservoir @ Alagapuri village of Vedasandur Taluk in Dindigul District and Aravakurichi Taluk of Karur District.	540
22	Rehablitation of leftout reaches in right Flank Canal from LS 4.660 KM to 12.470 KM and Left Flank Canal from Ls 6.500 KM to 17.290 KM of Uppar Dam	198
23	Environmental activities in the Amaravathy Sub Basin	35
	Total	**12831**

Details of Proposals in each infrastructure

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. 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)					
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**

A. Details of propasals in each Infrastructure of the sub basin Package 13 & 14

Cost analysis to be carried out in PWD Tanks in Shanmuganathi minor basin (Palar Porundalar system) LMC

Sl no	Name of tank/Anicut/Reservoir/ CANAL	canal Bund		sluice		Lining		Trough section		Expansion joint		Measuring Devices		Amt in Lakhs
		Length	Amt	Reconst	Amt	length m	Amt	RM	Amt	RM	Amt	No	Amt	
1	LMC 0 to 3100 m	8100	2.41	1	12.00	0	0	3100	731.47	1141	4.56	1	0.035	746.48
2	LMC 3100 to 8100 m		29.22	0	0	0	0	5000	894.44	0	0	1	0.035	923.70
	Package 13	***8100***	***31.63***	***1***	***12.00***	***0***	***0.00***	***8100***	***1625.91***	***1141***	***4.56***	***2***	***0.07***	***1670.17***
1	LMC 8100 to 40520M	32420	33.38	62	15.83	18000	458.47	0	0	0	0	1	0.1	507.78
	Package 14	***32420***	***33.38***	***62***	***15.83***	***18000***	***458.47***	***0***	***0***	***0***	***0***	***1***	***0.10***	***507.78***
	Total (Pack 13& 14)	***40520***	***65.01***	***63***	***27.83***	***18000***	***458.47***	***8100***	***1625.9***	***1141***	***4.56***	***3***	***0.2***	***2177.29***

Package 15 /ASB /NCB /2011-12

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

Cost analysis to be carried out in PWD Tanks in Shanmuganathi minor basin (palar porundalar system)

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	Recons t	Amt	Repairs	Amt	Reco nst	Amt	No	Amt	length RW	Amt	No	Amt	
1	PorundanKulam	1260	13.80	1	1	5.35	0	0	0	0	0	0	0	0	0	0	1	0.22	19.37
2	Panchanthangi-Kulam	1215	15.34	1	1	0.83	0	0	0	0	0	0	0	0	0	0	1	0.22	16.39
3	NaduKulam	637	7.79	1	1	4.85	0	0	0	0	0	0	0	0	0	0	1	0.22	12.86
4	AlanKulam	568	7.24	1	1	5.72	0	0	0	0	0	0	0	0	0	0	1	0.22	13.19
5	Ammapattykulam	1900	31.37	2	1	2.41	1	6.92	1	5.37	0	0	0	0	0	0	2	0.44	46.51
6	Kumarasamudra m	1625	21.49	2	1	0.53	1	7.47	1	7.18	0	0	0	0	0	0	2	0.44	37.12
7	ThamaraiKulam	2654	33.37	5	0	0	3	37.35	0	0.00	1	8.42	0	0	0	0	5	0.88	80.03
8	SembaKulam	1087	16.58	2	0	0	1	7.86	1	1.47	0	0	1	30.11	4450	26.72	2	0.44	83.19
9	SenKulam	803	11.10	1	1	1.14	0	0	1	1.97	0	0	0	0	7800	8.01	1	0.22	22.45
10	AlanKulam(Keera)	1825	25.47	1	1	7.19	0	0	1	3.07	0	0	1	28.12	7900	20.58	1	0.23	84.64
11	kalayamputhur anicut	0	0	0	0	0	0	0	0	0	0	0	1	219.25	0	0	1	0.23	219.48
	Package 15	***13574***	***183.55***	***17***	***8***	***28.02***	***6***	***59.60***	***5***	***19.06***	***1***	***8.42***	***3***	***277.47***	***20150***	***55.31***	***18***	***3.76***	***635.21***

PACKAGE 16 /ASB /NCB /2011-12

A. DETAILS OF PROPOSALS IN EACH INFRASTRUCTURE OF THE SUB BASIN

Cost Analysis to be carried out in PWD Non System tanks in Shanmuganathi sun basin (Palar Porundalar & Varadhamanathi system)

Sl. No.	Name of the Tank / Anicut / Reservoir	Bund		Sluice					Weir				Repairs to Anicut		Supply Channel		Measuring Devices		Amount in Lakhs
		Length	Amt	Total Nos	Re pair	Amt	Recon	Amt	Re pair	Amt	Recon	Amt	No	Amt	RW	Amt	Nos	Amt	
1	Kannadi Perumal kulam	1333	17.55	3	1	6.13	0	0	0	0	0	0	0	0	0	0	3	0.36	24.04
2	Periya Ayyampulli kulam	1950	27.25	4	2	31.20	2	37.00	0	0	0	0	0	0	0	0	4	0.48	95.93
3	Chinna Ayyampulli kulam	1115	15.12	2	2	12.26	0	0	0	0	0	0	0	0	0	0	2	0.24	27.62
4	Periya Ottukulam	793	9.48	2	2	9.20	0	0	0	0	0	0	0	0	0	0	2	0.24	18.92
5	Chinna Ottukulam	768	10.08	2	2	12.53	0	0	0	0	0	0	0	0	0	0	2	0.24	22.85
6	Ayyankulam	710	9.96	2	1	9.47	0	0	0	0	0	0	0	0	0	0	2	0.24	19.67
7	Karunkulam	1395	0	1	0	0.75	0	0	0	0	0	0	0	0	0	0	1	0.12	0.87
8	Karisalkulam Senkulam	2800	33.35	0	0	0.76	0	0	0	0	0	0	0	0	0	0	1	0.12	34.23
9	Karunkulam	2081		1		0.75											1	0.12	0.87
10	Kullappanaicken kulam	1050	14.69	1	1	1.09	0	0	1	1.54	0	0	0	0	0	0	1	0.20	17.52
11	BangaruSamudram	565	9.44	3	0	0	3	12.28	0	0	0	0	0	0	0	0	1	0.2	21.93
12	ChinnaKulam	1125	14.36	2	0	0	2	0.07	0	0	0	0	0	0	0	0	1	0.2	14.63
13	ManthaiKulam	1090	15.95	2	2	4.91	0	0	1	5.00	0	0	0	0	75	6.31	1	0.2	32.37
14	PuduKulam	1470	17.20	2	0	0	2	11.47	1	1.81	0	0	1	46.81	0	0	1	0.2	77.50
15	Ervimangalamkulam	1550	20.14	3	3	1.92	0	0	0	0	0	0	0	0	0	0	1	0.2	22.26
16	SenKulam(A.Kaliam)	1047	12.35	2	2	1.74	0	0	0	0	0	0	0	0	2140	8.31	1	0.2	22.60
17	OdayaKulam	1461	20.14	2	2	2.21	0	0	0	0	0	0	1	23.37	0	0	1	0.2	45.92
18	AthikaraiKulam	1503	22.51	4	0	0	1	11.74	1	1.57	0	0	0	0	0	0	1	0.2	36.02
19	Sakkarai KavundanKulam	1466	20.33	4	4	4.58	0	0	0	0	1	13.07	0	0	0	0	1	0.2	38.17
	Package 16	**25272**	**289.91**	**42**	**24**	**99.50**	**10**	**72.57**	**4**	**9.92**	**1**	**13.07**	**2**	**70.18**	**2215**	**14.62**	**28**	**4.16**	**573.93**

A. DETAILS OF PROPOSALS IN EACH INFRASTRUCTURE OF THE SUB BASIN PACKAGE 17 /ASB /NCB /2011-12																			
Cost Analysis to be carried out in PWD System tanks in Shanmuganathi sun basin (Varadhamanathi system)																			
Sl. No.	Name of the Tank / Anicut / Reservoir	Bund		Sluice					Weir				Repairs to Anicut		Supply Channel		Measuring Devices		Amount in Lakhs
		Length	Amt	Total Nos	Re pair	Amt	Recon	Amt	Recon	Amt	Re pair	Amt	No	Amt	RW	Amt	Nos	Amt	
1	Periyakulam	1619	21.96	6	2	18.64		–	–	–	–	–	–	–	4490	11.00	6	0.73	52.33
2	Veerakulam	747	10.36	2	–	–	–	–	–	–	–		–	–	–	–	2	0.24	10.60
3	Oomaikumara servaikaran kulam	1100	15.25	2	1	6.88	–	–	–	–	–		–	–	–	–	2	0.24	22.37
4	Sodappanaicken kulam	482	7.16	1	–	–	–	–	–	–	–		–	–	–	–	1	0.12	7.28
5	Idumbankulam	1321	19.54	2	1	8.96	–	–	–	–	–		–	–	–	–	2	0.24	28.74
6	Kumaranaicken kulam	605	8.31	4	2	11.24	–	–	–	–	–		–	–	–	–	4	0.48	20.03
7	Mappillainaicken kulam	990	13.35	3	2	12.01	–	–	–	–	–		–	–	–	–	3	0.36	25.72
8	Pappankulam	1975	29.00	3	3	25.73	–	–	–	–	–		–	–	6970	34.08	3	0.36	89.17
9	Thattankulam	791	–	3	–	–	–	–	–	–	–		–	–	–	–	2	0.22	0.22
10	Kurumbapatti kulam	803	–	2	–	–		–	–	–			–	–	–	–	1	0.12	0.12
11	Devanaicken kulam	652	9.46	1	1	7.45	–	–	–	–	–	–	–	–	–	–	1	0.12	17.03
12	Kallikkanaicken pattikulam	1260	19.46	4	1	8.48	–	–	–	–	–	–	–	–	–	–	4	0.24	28.18
13	Pattikulam	1343	–	2	–	–	–	–	–	–	–	–	–	–	–	–	1	0.12	0.12
14	Palanipappan kulam	1980	28.11	5	2	16.99	–	–	–	–	–	–	–	–	–	–	5	0.60	45.70
15	Vaiyapurikulam	2380	36.34	4	1	8.86	1	15.78	–	–	–	–	–	–	6773	25.53	4	0.48	86.99
16	Sirunaickenkulam	1005	14.83	3	1	7.64	–	–	–	–	–	–	–	–	–	–	1	0.12	22.59
17	Pudukulam	1910	28.95	5	–	–	–	–	–	–	–	–	–	–	–	–		0.12	29.07
18	Sinnakulam	400	–	1	–	–	–	–	–	–	–	–	–	–	–	–	1	0.12	0.12
	Package 17	**21363**	**262.08**	**53**	**17**	**132.88**	**1**	**15.78**							**18230**	**70.61**	**43**	**5.03**	**486.38**

A. Details of proposals in each Infrastructure of the sub basin Package 18

Cost analysis to be carried out in PWD tanks in Kuthiraiyar system in Amaravathi sub Basin

Sl. No	Name of tank/ Anicut/ Reservoir	Bund		Sluice					Weir				Repairs to Anicut		Supply Channel		Measuring Devices		Amount in lakhs
		Length	Amt	Total nos	Repair	Amt	Recon	Amt	Recon	Amt	Repair	Amt	No	Amt	RW	Amt	Nos	Amt	
1	Pudukulam Tank	1400	24.06	3	0	0	0	0	0	0	1	3.99	0	0	0	0	1	0.15	28.20
2	Ammakulam Tank	710	12.51	4	1	40.44	2	10.58	-	-	-	0	-	0	-	0	1	0.15	63.68
3	Rayakulam Tank	784	13.31	2		0	0	0	-	-	1	1.98	-	0	-	0	1	0.15	15.44
4	Panchanthangi tank	1240	36.94	3	0	0	3	21.36	-	-	1	4.16	1	38.22	1510	14.17	1	0.15	115
5	Sembakulam Tank	636	10.97	1	1	3.5		0	-	-	1	4.51	-	0	4220	21.32	1	0.15	40.45
6	Muthukulam Tank	1575	24.12	2	0	0	1	10.93	-	-	1	4.16	-	0	1000	25.3	1	0.15	64.66
7	Ottu Kulam Tank	396	6.95	1	1	3.5		0	-	-	1	3.27	-	0	-	0	1	0.14	13.86
8	Kuyavankuttai Tank	420	7.35	1	1	3.5		0	-	-	1	1.97	-	0	-	0	1	0.14	12.96
9	Kothaiammankulam Tank	1990	31.5	3	0	0	3	25.61	-	-	1	3.27	-	0	2100	14.18	1	0.14	74.70
10	**Left main canal**	**1500**	**5.84**						-	-					**1500**	**19.24**	1	**0.14**	**25.22**
11	**Sangaramanallur Anicut**												1	9.68	**6600**	**22.37**	1	0.14	**32.19**
	Total	**10651**	**173.55**	**20**	**4**	**50.94**	**9**	**68.48**			**8**	**27.31**	**2**	**47.9**	**16930**	116.60	11	1.60	**486.38**

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

Cost analysis to be carried out in PWD tanks in AMARAVATHI SUB BASIN - PACKAGE No.19 / ASB / NCB / 2011-12

Sl. No.	Name of the Tank / Anicut	Village	Tank bund			Supply channels			Measuring device			Repairs to Sluices			Model section			Repairs to Weir			Grant Total
			Length	Qty.	Amount (In Lakh)	Length	Qty.	Amount (In Lakh)	No.	Qty.	Amount (In Lakh)	No.	Lining of Field Chl	Amount (In Lakh)	No.	Qty.	Amount (In Lakh)	No.	Qty.	Amount (In Lakh)	
1	Perumalkulam	Viruppachi	1547	23642	14.33	4400	10270	2.86	1		0.12	1	1x30	7.77	2		1.35	1		6.63	33.06
2	Sengulam	Veriapur	1461	20850	12.28	0	0	0.00	2		0.24	2	2x30	15.76	2		1.35	1		4.33	33.96
3	Ramasamudram	Veriapur	757	10897	6.55	835	1985	0.56	2		0.24	2	2x30	15.47	2		1.35	1		5.49	29.66
4	Muthuboobalsamudram	Dhasaripatti	1225	18310	10.94	0	0	0.00	3		0.36	3	3x30	23.20	2		1.35	1		3.58	39.43
5	Sadayakulam	Thangachiammapatti	2012	30371	18.27	2850	6910	1.95	3		0.36	3	3x30	23.20	2		1.35	2		12.53	57.66
6	Javadhupatty Periyakulam	Javathupatti	1730	26820	15.80	1820	3830	1.09	2		0.24	2	2x30	15.39	2		1.32	1		2.68	36.52
7	Appasamudram	Edayakottai	0	0	0.00	0	0	0.00	2		0.24	0	0	0.00	0		0.00	0		0.00	0.24
8	Kaveriamma patty Periakulam	Kaveriammapatti	253	3484	2.26	0	0	0.00	1		0.12	1	1x30	7.71	2		1.33	1		2.75	14.17
9	Kollapatty Tank	Kollapatti	1200	17251	10.15	0	0	0.00	2		0.24	2	2x30	15.39	2		0.89	1		5.56	32.23
10	Navakani Tank	Navagani	2000	29163	17.03	0	0	0.00	2		0.24	2	2x30	15.38	2		0.89	1		3.53	37.07
11	Udayakulam Tank	Dhasaripatti	0	0	0.00	0	0	0.00	1		0.12	0	0	0.00	0		0.00	0		0.00	0.12
12	Ramasamudram Anicut	Veriapur	0	0	0.00			0.00	0	0	0.00	0	0	0.00	0	0	0.00	1		20.00	20.00
13	Sadayakulam Anicut	Thangachiammapatti	0	0	0.00			0.00	0	0	0.00	0	0	0.00	0	0	0.00	1		80.00	80.00
14	Javadhupatti Anicut	Javathupatti	0	0	0.00			0.00	0	0	0.00	0	0	0.00	0	0	0.00	1		10.00	10.00
15	Kodaganar Dam	Alagapuri	0	0	0.00	0	0	0.00	0	0	0.00	6	0	4.59	0	0	0.00	5	0	114.38	118.97
	TOTAL		**12185**	**180788**	**107.61**	**9905**	**22995**	**6.46**	**21**	**0**	**2.52**	**24**	**0**	**143.86**	**18**	**0**	**11.18**	**18**	**0**	**271.46**	**543.09**

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

Cost analysis to be carried out in PWD tanks in AMARAVATHI SUB BASIN – PACKAGE No:20 / ASB / NCB / 2011-12 **(Rs. In Lakhs)**

Sl. No.	Name of the Tank / Anicut	Village	Tank bund			Supply channels			Measuring device			Repairs to Sluices			Model section			Repairs to Weir			Grant Total Rs.in Lakhs
			Length	Qty. (m3)	Amount (In Lakh)	Length	Qty.	Amount (In Lakh)	No.	Qty.	Amount (In Lakh)	No.	Lining of Field Chl	Amount (In Lakh)	No.	Qty.	Amount (In Lakh)	No.	Qty.	Amount (In Lakh)	
1	Pagadikulam	Authoor	1230	17545.43	10.57	-	-	0	2	-	0.12	2	2x30	9.37	1	-	1.36	1	-	0.27	21.69
2	Pilvettikulam	Authoor	1590	22721.44	20.36	-	-	0	2	-	0.24	2	2x30	18.74	2	-	2.68	1	-	0.79	42.81
3	Aranmanai Odaikulam	Thoppampatti	1073	15048.52	8.71	-	-	0	3	-	0.36	3	3x30	20.16	3	-	4.04	1		0.58	33.85
4	A.Vellodu Periyakulam	A.Vellodu	1050	15308	16.15	-	-	0	5	-	0.6	5	5x30	33.58	5	-	6.69	1		6.09	63.11
5	Pillaiyarnatham Rengasamudram	Pillayar Natham	1330	18893.4	11.34	-	-	0	2	-	0.24	2	2x30	13.45	2	-	2.68	2	-	0.81	28.52
6	Kottur Avarampatti Thamarikulam	Agaram	1300	18481.69	11.03	2950	11655	3.23	2	-	0.24	2	2x30	13.21	2	-	2.60	2	-	0.61	30.92
7	Brammasamudram	Anaipatti	1005	13948	8.32	-	-	0	2	-	0.24	2	2x30	15.43	2	-	1.32	1	-	5.09	30.4
8	Sindalakundu Thamaraikulam		2370	34660	21.16	-	-	0	5	-	0.61	5	5x30	38.5	2	-	1.31	1	-	4.81	66.39
9	Muthanampatti tank	Kuttathu patti	840	13131	7.81	-	-	0	4	-	0.49	4	4x30	30.83	2	-	1.31	1	-	4.45	44.89
10	Mangarai Tank	Mangarai	1700	25315	15.13	1265	2316	0.65	2	-	0.24	2	2x30	15.43	2	-	1.31	1	-	1.69	34.45
11	Kadhir Narasinga perumalkulam	Kothapulli	1200	17680	10.49	-	-	0	3	-	0.36	3	3x30	21.89	2	-	1.31	1	-	5.15	39.2
12	Pudhukulam Kobaiyar tank	Dhannathu patti	610	8315	4.94	-	-	0	1	-	0.12	1	1x30	7.79	2	-	1.34	1	-	2.57	16.76
13	Kathirayankulam	Palaya Kannivadi	840	11747	7.02	-	-	0	3	-	0.37	3	3x30	23.31	2	-	1.34	1	-	5.89	37.93
14	Thethupatti Tank	Thoppampatti	1450	20962	12.3	2550	5845	1.63	3		0.37	3	3x30	23.31	2		1.34	1		3.82	42.77
15	Chinnakobaiyar Tank	Kodalvavi	1100	16176	9.59	-	-	0	2	-	0.24	2	2x30	15.55	2	-	1.34	1	-	7.01	33.73
16	Periyakobaiyar Tank	Kodalvavi	480	6843	4.16	-	-	0	1	-	0.12	1	1x30	7.79	2	-	1.34	1	-	3.62	17.03
17	Nayodai tank		-	-	0	-	-	0	2	-	0.24	-	-	0	-	-	0.00	-	-	0.00	0.24
18	Ramakkal Odai and Anaivilundan odai tank		-	-	0	-	-	0	2	-	0.24	-	-	0	-	-	0.00	-	-	0.00	0.24
19	Neelamalaikottai tank		-	-	0	-	-	0	1	-	0.24	-	-	0	-	-	0.00	-	-	0.00	0.24
20	Nagasamudram		-	-	0	-	-	0	3	-	0.36	-	-	0	-	-	0.00	-	-	0.00	0.36
	TOTAL		**19168**	**276775.48**	**179.08**	**6765**	**19816**	**5.51**	**50**	**0**	**6.04**	**42**	**0**	**308.34**	**35**	**0**	**33.31**	**18**	**0**	**53.25**	**585.53**

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

Cost analysis to be carried out in PWD tanks in AMARAVATHI SUB BASIN PACKAGE No:21 / ASB / NCB / 2011-12

Sl. No.	Name of the Tank / Anicut	Village	Tank bund				Supply channels			Measuring device			Repairs to Sluices			Model section			Repairs to Weir			Grant Total
			Length	Qty.		Amount (In Lakh)	Length	Qty.	Amount (In Lakh)	No.	Qty.	Amount (In Lakh)	No.	Lining of Field Chl	Amount (In Lakh)	No.	Qty.	Amount (In Lakh)	No.	Qty.	Amount (In Lakh)	
1	Pothakanmoi	Markampatti	445	15554	m3	3.97	-	-	0	1	-	0.12	1	1x30	6.74	3	-	0.82	1	-	0.61	12.26
2	Annaikulam	Periyakottai	2012	76395	m3	18.57	1500	3462	0.99	4	-	0.49	4	4x30	26.15	1	-	5.55	1	-	0.56	52.31
3	Mullipadi periyakulam	Mullipadi	1950	41313	m3	14.49	1410	3284	0.94	4	-	0.49	4	4x30	31.04	4	-	5.55	1	-	0.45	52.96
4	Manthai periyakulam	Thamaraipadi	1470	52986	m3	12.38	420	1056	0.31	4	-	0.49	4	4x30	29.45	4	-	5.39	1	-	0.72	48.74
5	Marambadi periyakulam	Marambadi	1540	26702	m3	12.68	2515	12775	50.52	1	-	0.11	1	1x30	16.29	2	-	1.36	1	-	6.2	87.16
6	Padiyur periyakulam	Padiyur	2577	45674	m3	22.16	1620	5078	1.45	3	-	0.33	3	3x30	22.22	2	-	1.36	1	-	0.3	47.82
7	Kulathur periyasamdram	Kulathur	2216	41601	m3	20.00	3000	8324	2.36	4	-	0.44	4	4x30	29.58	2	-	1.36	1	-	0.5	54.24
8	Velvarkottai periyakulam	Velvarkotti	1074	19119	m3	9.05	2250	5723	17.96	2	-	0.22	2	2x30	14.62	2	-	1.36	1	-	0.34	43.55
9	Pilathu mandai kulam	Pilathu	1792	32831	m3	15.52	-	-	0	3	-	0.32	3	3x30	23.31	2	-	1.34	1	-	0.48	40.97
10	Thennampatti mandai kulam	Thennampatti	837	15856	m3	7.5	600	1411	0.41	4	-	0.43	4	4x30	31.06	2	-	1.34	1	-	0.71	41.45
11	Vallakondan Samuidram	Nallamanarkottai	1740	33610	m3	15.59	2050	5082	1.43	3	-	0.32	3	3x30	23.31	2	-	1.34	1	-	1.08	43.07
12	Ramagiri tank	R.Kombai	..	..	..	..	..	..	..	1	..	0.12	..	..	..	..	..	..	..	..	..	0.12
13	Uthangaraiyar tank	Velayuthampalayam	..	..	..	..	..	..	..	2	..	0.24	..	..	..	..	..	..	..	..	..	0.24
14	SangilianKoil Odai	Anjukulipatti	..	..	..	..	..	..	..	1	..	0.12	..	..	..	..	..	..	..	..	..	0.12
	TOTAL		**17653**	**401641**		**151.91**	**15365**	**46195**	**76.37**	**37**		**4.24**	**33**		**253.77**	**26**		**26.77**	**11**		**11.95**	**525.01**

CONSOLIDATED COST TABLE

S.No	Package No	Cost of work in lakhs	LS Provisions in lakhs	Total Amount in lakhs
1	1 ASB/NCB/2011-12	1063.54	29.46	1093
2	2 ASB/NCB/2011-12	451.49	12.51	464
3	3 ASB/NCB/2011-12	573.62	16.38	590
4	4 ASB/NCB/2011-12	387.16	10.84	398
5	5 ASB/NCB/2011-12	399.82	11.18	411
6	6 ASB/NCB/2011-12	585.61	16.39	602
7	7 ASB/NCB/2011-12	584.72	16.28	601
8	8 ASB/NCB/2011-12	389	11	400
9	9 ASB/NCB/2011-12	578.79	16.21	595
10	10 ASB/NCB/2011-12	452.26	12.74	465
11	11 ASB/NCB/2011-12	486.52	13.48	500
12	12 ASB/NCB/2011-12	291.9	8.1	300
13	13 ASB/NCB/2011-12	1669.57	49.43	1719
14	14 ASB/NCB/2011-12	507.78	14.22	522
15	15 ASB/NCB/2011-12	635.21	17.79	653
16	16 ASB/NCB/2011-12	573.93	16.07	590
17	17 ASB/NCB/2011-12	486.38	13.62	500
18	18 ASB/NCB/2011-12	486.38	13.62	500
19	19 ASB/NCB/2011-12	543.09	12.91	556
20	20 ASB/NCB/2011-12	585.53	13.47	599
21	21 ASB/NCB/2011-12	525.01	14.99	540
22	22 ASB/NCB/2011-12	193.45	4.55	198
23	Environmental Activities			35
	Total			**12831**

WRD COST TABLE

NAME OF THE SUB BASIN: AMARAVATHI

S.No	Description of work	Quantity		Amount in lakhs	Remarks
I. Tank Component					
1	Standardisation of tank bund	930064	m	1347.69	
2	Reconstruction of sluice	21	Nos	198.89	
3	Repairs to sluice	157	Nos	1034.85	
4	Reconstruction of weir	2	Nos	21.49	
5	Repairs to weir	65	Nos	402.20	
6	Construction of Model section	61	Nos	60.08	
7	Supply channel improvements	146531	Nos	356.66	
8	Providing measuring device	208	Nos	27.37	
	Environmental Activities			9.50	
	LS provision			102.47	
	SUB TOTAL			**3561.20**	
II. Non tank Component					
1	Improvement to bund	475416	m	751.75	
2	Repairs to sluice	1323	Nos	821.87	
3	Repairs to cross masonry works	597	Nos	352.20	
4	Lining of canal	732883	m	3126.12	
5	Supply channel improvements	208585	m	98.05	
6	Construction of Retaining wall	23360	m	3345.99	
7	Anicut Repair	10	Nos	505.55	
	Environmental Activities			25.50	
	LS Provisions			242.77	
	SUB TOTAL			**9269.80**	
	GRAND TOTAL			**12831**	

A. WRO COST TABLE

(Package -1)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements	95760 M^3	108.00	
b.	Cross masonry repairs	14 Nos	29.97	
c.	Sluice Repairs/ Reconstructions	14 Nos	13.17	
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	1223447M^2	912.40	
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		1063.54	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		29.46	
	Total		**1093**	

A.(PHYSICAL AND FINANCIAL PROGRAM)

Package- 1 /ASB/NCB/2011-12

Sl. No.		Description	I Year		II Year				
			Qty	Amt in Lakhs	Qty	Amt in Lakhs	Qty		Amt in Lakhs
I		Canal bank Improvements							
	1	Earthwork for Bund	20000	23.00	57360	85.00	95750		108.00
II		Improvement of sluices							
	1	Repair	--	--	600	13.17	600		13.17
III		C.R. Works							
	1	Repair	--	--	702	29.97	702		29.97
IV		Lining Channel	10000	47.75	173485	864.65	191093		912.40
V		Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges		4.46		25.00			29.46
		Total		75.21		1017.79			1093

PACKAGE- 1
Construction methodology

Sl No	Description of Item	Working Months			Working Months						IRRIGATION SEASON						Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	Earth work excavation																
1	Bund	--	--	20000	20000	15000	15000	10000	10000	5760	--	--	--	--	--	-	95760
2	Channel	--	--		10000	5000	5300	-	--	--	--	--	--	--	--		20300
3	Foundation	--	--	300	300	200	220		--	--	--	--	--	--	--		1020
	Concrete								--	--	--	--	--	--	--		
4	M 7.5 grade	--	--	--	-	-	100	145	--	--	--	--	--	--	--		245
5	M 15 bed sleeper 20mm	--	--	--	250	250	240	-	-	-	--	--	--	--	--		740
6	M.15 using 20mm lining	--	--	--	-	15000	20000	20000	25000	24893	--	--	--	--	--	-	104893
7	M. 15 grade P.C.C Slab.	--	--	10000	10000	15000	15000	15000	15000	6200	--	--	--	--	--	-	86200
8	M. 20 grade R.C.C.	--	--	--	-	-	250	250	250	270	--	--	--	--	--		1020
9	R.R.	--	--	--	150	150	300	300	250	152	--	--	--	--	--	-	1302

7 Nos	Hydraulic excavator (± 0.90Cum)	1	AMARAVATHI SUB BASIN PAKCAGE NO.1 Requirement of Construction Equipments and Materials
1No	Concrete paver	2	
40 Nos	Tippers/Lorries(8 to 10 Tonne)	3	
1 No	Batching plant	4	
3Nos	Transit mixer	5	
2Nos	Generator set 45 Kva	6	
6 Nos.	Power Rollers/Vibratory Power Roller	7	
6 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	8	
3Nos.	Pneumatic Tampers/Earth Rammers	9	
1 No.	Air Compressors (±300cfm)	10	
2 Nos.	Plate Vibrators	11	
1 Nos.	Dozer (D6 or equivalent)	12	
9 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	13	
1 No.	Concrete vibrators	14	
4068 MT	Cement	15	
6328 Cum	Sand	16	
21 Qtl	Steel	17	
221 Cum	Metal 40mm	18	
5856 Cum	Metal 20mm	19	
1302 Cum	Rough Stone Masonry	20	

A. WRO COST TABLE

(Package -2)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements	101450 M^3	114.52	
b.	Cross masonry repairs	15 Nos	14.49	
c.	Sluice Repairs/ Reconstructions	36 Nos	15.15	
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	191093M^2	307.33	
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		451.49	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		12.51	
	Total		**464**	

A.(PHYSICAL AND FINANCIAL PROGRAM)

Package – 2 ASB/NCB/2011-12

Sl. No.		Description	I Year		II Year				
			Qty	Amt in Lakhs	Qty	Amt in Lakhs	Qty		Amt in Lakhs
I		**Canal bank Improvements**							
	1	Earthwork for Bund	**20000**	**22.58**	**81450**	**91.94**	**101450**		**114.52**
II		**Improvement of sluices**							
	1	Repair	**--**	**--**	**1000**	**15.15**	**1000**		**15.15**
III		**C.R. Works**							
	1	Repair	**--**	**--**	**906**	**14.49**	**906**		**14.49**
IV		**Lining Channel**	**--**	**--**	**37347**	**307.33**	**37347**		**307.33**
V		**Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges**		**2.51**		**10**			**12.51**
		Total		**25.09**		**438.91**			**464**

PACKAGE- 2
Construction methodology

Sl No	Description of Item	Working Months									IRRIGATION SEASON						Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	Earth work excavation																
1	Bund	--	--	20000	20000	15000	15000	10000	10000	6050	--	--	--	--	--	5400	101450
2	Channel	--	--	20000	20000	10000	6700	--	--	--	--	--	--	--	--	--	156700
3	Foundation	--	--	100	150	180	--	--	--	--	--	--	--	--	--	--	430
	Concrete								--	--	--	--	--	--	--	--	
4	M 7.5 grade	--	--	--	10	15	20	30	--	--	--	--	--	--	--	--	75
6	M.15 using 20mm lining	--	--	--	--	--	1000	2000	1950	--	--	--	--	--	--	1000	5950
7	M. 15 grade P.C.C.Slab	--	--	--	5000	10000	10000	6397	--		--	--	--	--	--	---	31397
8	M. 20 grade R.C.C.	--	--	--	--	125	125	125	165	--	--	--	--	--	--	--	540
9	R.R.	--	--	--	--	250	300	300	300	216	--	--	--	--	--	--	1366

--

5 Nos	Hydraulic excavator (± 0.90Cum)	1	PAKCAGE NO.2 Requirement of Construction Equipments and Materials
Nil	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	
22 Nos	Tippers/Lorries(8 to 10 Tonne)	3	
3 Nos.	Power Rollers/Vibratory Power Roller	4	
3 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	
2 Nos.	Pneumatic Tampers/Earth Rammers	6	
1 No.	Air Compressors (±300cfm)	7	
1 No.	Plate Vibrators	8	
2 Nos.	Dozer (D6 or equivalent)	9	
6 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	
1 No.	Concrete vibrators	11	
1557 MT	Cement	12	
2330 Cum	Sand	13	
36 Qtl	Steel	14	
144 Cum	Metal 40mm	15	
2597 Cum	Metal 20mm	16	
953 Cum	Rough Stone Masonry	17	

A. WRO COST TABLE

(Package -3)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements	95760 M^3	56.56	
b.	Cross masonry repairs	244 Nos	98.83	
c.	Sluice Repairs/ Reconstructions	158 Nos	33.67	
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	125066M^2	384.56	
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		573.93	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		14.07	
	Total		**590**	

A.(PHYSICAL AND FINANCIAL PROGRAM)

Package – 3 ASB/NCB/2011-12

Sl. No.		Description	I Year		II Year				
			Qty	Amt in Lakhs	Qty	Amt in Lakhs	Qty		Amt in Lakhs
I		**Canal bank Improvements**							
	1	Earthwork for Bund	**50052**	**56.56**	**--**	**--**	**50052**		**56.56**
II		**Improvement of sluices**							
	1	Repair	**144**	**20.16**	**14**	**2.24**	**158**		**33.67**
III		**C.R. Works**							
	1	Repair	**211**	**45.29**	**33**	**6.87**	**244**		**98.83**
IV		**Lining Channel**	**125066**	**384.56**	**--**	**--**	**125066**		**384.56**
V		**Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges**		**15**		**1.38**			**16.38**
		Total							**590**

PACKAGE- 3
Construction methodology

Sl No	Description of Item	Working Months									IRRIGATION SEASON						Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	Earth work excavation																
1	Bund	--	--	--	10700	10700	10700	10700	10700	10700	--	--	--	--	--	11280	75480
2	Channel	--	--	--	1300	1300	1300	1300	1200	1200	--	--	--	--	--	1400	9000
3	Foundation	--	--	--	100	100	100	100	80	40	--	--	--	--	--	50	570
	Concrete																
4	M 7.5 grade	--	--	--	50	50	50	50	60	50						53	363
5	M 15 bed sleeper 20mm	--	--	--	25	25	25	25	25	25	--	--	--	--	--	20	170
6	M.15 using 20mm lining	--	--	--	12300	14300	14300	12300	12300	12100						8947	86547
7	M. 20 grade P.C.C.	--	--	--	5	5	5	5	5	6						4	35
8	M. 20 grade R.C.C.	--	--	--	--	10.9	10.9	5.45	5.45	10.9							43.6
9	R.R.	--	--	--	200	250	250	245	250	250						200	1645

AMARAVATHI SUB BASIN
PAKCAGE NO.3

Requirement of Construction Equipments and Materials

5 Nos	**Hydraulic excavator (± 0.90Cum)**	**1**
3 Nos	**Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)**	**2**
26 Nos	**Tippers/Lorries(8 to 10 Tonne)**	**3**
2Nos.	**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**
1 No.	**Acrow slip form gantry**	**11**
3 Nos.	**Concrete vibrators**	**12**
2068 MT	**Cement**	**13**
2394Cum	**Sand**	**14**
45 Qtl	**Steel**	**15**
162 Cum	**Metal 40mm**	**16**
5606 Cum	**Metal 20mm**	**17**
1022 Cum	**Rough Stone Masonry**	**18**

A. WRO COST TABLE

(Package -4)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements	74940 M^3	19.10	
b.	Cross masonry repairs	99 Nos	156.51	
c.	Sluice Repairs/ Reconstructions	122 Nos	2.43	
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	86287M^2	209.12	
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		387.16	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		10.84	
	Total		**398**	

A.(PHYSICAL AND FINANCIAL PROGRAM)

Package – 4 ASB/NCB/2011-12

Sl. No.		Description	I Year		II Year				
			Qty	Amt in Lakhs	Qty	Amt in Lakhs	Qty		Amt in Lakhs
I		**Canal bank Improvements**							
	1	Earthwork for Bund	**15282**	**17.19**	**1698**	**1.91**	**14980**		**19.10**
II		**Improvement of sluices**							
	1	Repair	**109**	**2.19**	**13**	**0.24**	**122**		**2.43**
III		**C.R. Works**							
	1	Repair	**89**	**140.86**	**10**	**15.65**	**99**		**156.51**
IV		**Lining Channel**	**77600M^2**	**188.07**	**8687**	**21.05**	**86287**		**209.12**
V		**Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges**		**9.64**		**1.2**			**10.84**
		Total							**398**

PACKAGE- 4
Construction methodology

Sl No	Description of Item	Working Months								IRRIGATION SEASON							Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	Earth work excavation																
1	Bund	--	--	10000	25000	20000	14300	8852	--	--	--	--	--	--	--	---	78152
2	Channel	--	--	3000	8000	8000	12500	1685	--	--	--	--	--	--	--	--	33185
3	Foundation	--	--	400	350	350	395	44	--	--	--	--	--	--	--	--	1539
	Concrete																
4	M 7.5 grade	--	--	--	110	160	160	315	--	--	--	--	--	--	--	--	745
5	M 13.6 bed sleeper 20mm	--	--	--	23	50	50	20	--	--	--	--	--	--	--	--	143
6	M.13.6 using 20mm lining	--	--	--	10000	20000	20000	25000	17906	---	--	--	--	--	--	--	92906
7	M. 15 grade P.C.C.Slab	--	--	--	7000	5000	8000	5000	7160	--	--	--	--	--	--	---	32160
8	M. 20 grade R.C.C.	--	--	--		--	8	8	--	--	--	--	--	--	--	--	16
9	R.R.	--	--	--	200	600	900	500	100	--	--	--	--	--	--	--	2290

AMARAVATHI SUB BASIN
PAKCAGE NO.4

Requirement of Construction Equipments and Materials

3 Nos	**Dydraulic excavator (± 0.90Cum)**	**1**
2 Nos.	**Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)**	**2**
19 Nos	**Tippers/Lorries(8 to 10 Tonne)**	**3**
	Power Rollers/Vibratory Power Roller	**4**
4 Nos	**Water Tankers(Truck Mounted of ± 10000 Liters)**	**5**
2 Nos	**Pneumatic Tampers/Earth Rammers**	**6**
2 Nos	**Air Compressors (±300cfm)**	**7**
4 Nos	**Plate Vibrators**	**8**
2 Nos	**Dozer (D6 or equivalent)**	**9**
4 Nos	**Mechanical Concrete mixers 14/10 cft, 10/7 cft**	**10**
1 No.	**Acrow slip form gantry**	**11**
1 No.	**Concrete vibrators**	**12**
2176 MT	**Cement**	**13**
3290Cum	**Sand**	**14**
65 Qtl	**Steel**	**15**
327Cum	**Metal 40mm**	**16**
5134Cum	**Metal 20mm**	**17**
1810Cum	**Rough Stone Masonry**	**18**

A. WRO COST TABLE

(Package -5)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements	54090 M^3	13.69	
b.	Cross masonry repairs	9 3Nos	24.12	
c.	Sluice Repairs/ Reconstructions	140 Nos	48.03	
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	99400M^2	313.98	
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		399.88	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		11.20	
	Total		**411**	

A.(PHYSICAL AND FINANCIAL PROGRAM)

Package – 5 ASB/NCB/2011-12

Sl. No.		Description	I Year		II Year				
			Qty	Amt in Lakhs	Qty	Amt in Lakhs	Qty		Amt in Lakhs
I		Canal bank Improvements							
	1	Earthwork for Bund	6000	4.68	11515	9.01	17515		13.69
II		Improvement of sluices							
	1	Repair	--	--	140	48.03	140		48.03
III		C.R. Works							
	1	Repair	3	1.10	90	23.0	93		24.12
IV		Lining Channel	400 m2	1.25	99000	312.73	99400		313.98
V		Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges		10		1.18			11.18
		Total							411

PACKAGE- 5
Construction methodology

Sl No	Description of Item	Working Months									IRRIGATION SEASON						Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	Earth work excavation																
1	Bund	--	--	6000	1500	1500	1500	1500	2000	2000	--	--	--	--	--	1515	17515
2	Channel	--	--	500	1000	1000	1000	500	250	250	--	--	--	--	--	350	4850
3	Foundation	--	--	--	125	125	125	125	250	250	--	--	--	--	--	77	875
	Concrete																
4	M 7.5 grade	--	--	--	20	11	100	100	100	100	--	--	--	--	--	--	431
5	M 15 bed sleeper 20mm	--	--	--	30	50	50	50	23	--	--	--	--	--	--	--	185
6	M.15 using 20mm lining	--	--	400	13000	20000	20000	20000	20000	9600	--	--	--	--	--	1690	104690
7	M. 20 grade P.C.C.	--	--	--	--	--	--	--	20	17	--	--	--	--	--	-	37
8	M. 20 grade R.C.C.	--	--	--	--	--	--	--	20	29	--	--	--	--	--	-	49
9	R.R.	--	--	--	--	150	400	200	400	400	--	--	--	--	--	407	1937

AMARAVATHI SUB BASIN
PAKCAGE NO.5

Requirement of Construction Equipments and Materials

4 Nos	**Dydraulic excavator (± 0.90Cum)**	**1**
2 Nos.	**Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)**	**2**
22 Nos	**Tippers/Lorries(8 to 10 Tonne)**	**3**
	Power Rollers/Vibratory Power Roller	**4**
4 Nos	**Water Tankers(Truck Mounted of ± 10000 Liters)**	**5**
2 Nos	**Pneumatic Tampers/Earth Rammers**	**6**
2 Nos	**Air Compressors (±300cfm)**	**7**
4 Nos	**Plate Vibrators**	**8**
2 Nos	**Dozer (D6 or equivalent)**	**9**
4 Nos	**Mechanical Concrete mixers 14/10 cft, 10/7 cft**	**10**
1 No	**Acrow slip form gantry**	**11**
2 Nos	**Concrete vibrators**	**12**
2604 MT	**Cement**	**13**
4044Cum	**Sand**	**14**
73 Qtl	**Steel**	**15**
388 Cum	**Metal 40mm**	**16**
6384Cum	**Metal 20mm**	**17**
2131Cum	**Rough Stone Masonry**	**18**

A. WRO COST TABLE

(Package -6)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements	34475 M^3	43.36	
b.	Cross masonry repairs	354Nos	119.96	
c.	Sluice Repairs/ Reconstructions	121 Nos	16.94	
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	135900M^2	405.35	
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		585.61	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		16.39	
	Total		**602**	

A.(PHYSICAL AND FINANCIAL PROGRAM)

Package – 6 ASB/NCB/2011-12

Sl. No.		Description	I Year		II Year				
			Qty	Amt in Lakhs	Qty	Amt in Lakhs	Qty		Amt in Lakhs
I		**Canal Bank Improvements**							
	1	Earthwork for Bund	30000	37.73	4475	5.63	34475		43.36
II		**Repairs to sluices**							
	1	Repair	100	14	21	2.94	121		16.94
III		**Repairs to C.R. works.**							
	1	Repair	314	106.41	40	13.55	354		119.96
IV		**Channel Improvement**							
	1	Lining Channel	121000	343.58	14900	61.77	135900		405.35
V		**Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges**		14.43		1.94			16.39
		Total							602

PACKAGE- 6
Construction methodology

Sl No	Description of Item	Working Months									IRRIGATION SEASON						Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	Earth work excavation																
1	Bund	--	--	--	5000	10000	15000	15000	15000	5850	--	--	--	--	--	5000	70850
2	Channel	--	--	2000	2500	2500	2000	1800	1500	600	--	--	--	--	--	1500	14400
3	Foundation	--	--	--	50	250	200	200	200	200	--	--	--	--	--	81	1181
	Concrete																
4	M 7.5 grade	--	--	--	50	200	150	100	100	100	--	--	--	--	--	100	800
5	M 15 bed sleeper 20mm	--	--	--	50	50	50	45	30	20	--	--	--	--	--	16	261
6	M.15 using 20mm lining	--	--	--	5000	20000	20000	30000	30000	16000	--	--	--	--	--	14000	135000
7	M. 20 grade P.C.C.	--	--	--	--	25	30	30	15	10	--	--	--	--	--	10	120
8	M. 20 grade R.C.C.	--	--	--	--	--	7	7	7	7	--	--	--	--	--	10.10	38.10
9	R.R.	--	--	--	50	300	600	600	600	500	--	--	--	--	--	310	2960

AMARAVATHI SUB BASIN
PAKCAGE NO.6

Requirement of Construction Equipments and Materials

4 Nos	**Dydraulic excavator (± 0.90Cum)**	**1**
4 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**
	Power Rollers/Vibratory Power Roller	**4**
6 Nos	**Water Tankers(Truck Mounted of ± 10000 Liters)**	**5**
2 Nos	**Pneumatic Tampers/Earth Rammers**	**6**
2 Nos	**Air Compressors (±300cfm)**	**7**
6 Nos	**Plate Vibrators**	**8**
3 Nos	**Dozer (D6 or equivalent)**	**9**
6 Nos	**Mechanical Concrete mixers 14/10 cft, 10/7 cft**	**10**
2 Nos.	**Concrete vibrators**	**11**
1 No.	**Acrow Slip form gantry**	**12**
3042 MT	**Cement**	**13**
5386 Cum	**Sand**	**14**
58 Qtl	**Steel**	**15**
720 Cum	**Metal 40mm**	**16**
8039 Cum	**Metal 20mm**	**17**
3856Cum	**Rough Stone Masonry**	**18**

A. WRO COST TABLE

(Package -7)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements	49340 M^3	61.22	
b.	Cross masonry repairs			
c.	Sluice Repairs/ Reconstructions	199 Nos	159.20	
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anaicut Repairs			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall	2480M	364.30	
j.	Supply cannel improvements			
k.	Lining of irrigation channels			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		584.72	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		16.28	
	Total		**601**	

A.(PHYSICAL AND FINANCIAL PROGRAM)

Package -7. ASB/NCB/2011-12

Sl. No.		Description	I Year		II Year				
			Qty	Amt in Lakhs	Qty	Amt in Lakhs	Qty		Amt in Lakhs
I		**Canal Bank Improvements**							
	1	Earthwork for Bund	**5460**	**8.24**	**54600**	**52.98**	**49340**		**61.22**
II		**Repairs to sluices**							
	1	Repair	**20**	**16.00**	**174**	**143.20**	**199**		**159.20**
III		**Repairs to C.R. works.**							
	1	Repair							
IV		**Retaining wall**							
	1	Retaining wall	**500m**	**73.47**	**1980**	**290.93**	**2480**		**364.30**
V		**Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges**		**12.68**		**3.60**			**16.28**
		Total							**601**

PACKAGE- 7
Construction methodology

Sl No	Description of Item	Working Months															Total
									IRRIGATION SEASON								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	Earth work excavation																
1	Bund	--	--	--	15000	13000	13000	10000	10000	5000	--	--	--	--	--	7565	73565
2	Channel	--	--	5000	15000	12000	10000	10000	10000	10000	--	--	--	--	--	1565	10400
3	Foundation	--	--	--	150	150	150	100	60	60	--	--	--	--	--	75	745
	Concrete																
4	M 7.5 grade	--	--	--	100	100	100	75	75	50	--	--	--	--	--	41	541
5	M 13.6 bed sleeper 20mm	--	--	--	25	40	40	30	20	10	--	--	--	--	--	15	180
6	M.13.6 using 20mm lining	--	--	--	10000	15000	15000	15000	15000	10000	--	--	--	--	--	9850	89850
7	M. 20 grade P.C.C.	--	--	--	5	8	8	7	7	3	--	--	--	--	--	2.75	40.75
8	M. 20 grade R.C.C.	--	--	--	--	--	--	11	5.5	5.5	--	--	--	--	--	5.5	27.5
9	R.R.	--	--	--	200	400	400	300	300	200	--	--	--	--	--	142	1942

AMARAVATHI SUB BASIN
PAKCAGE NO.7

Requirement of Construction Equipments and Materials

4 Nos	**Dydraulic excavator (± 0.90Cum)**	**1**
	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	**2**
30 Nos	**Tippers/Lorries(8 to 10 Tonne)**	**3**
	Power Rollers/Vibratory Power Roller	**4**
12 Nos	**Water Tankers(Truck Mounted of ± 10000 Liters)**	**5**
3 Nos	**Pneumatic Tampers/Earth Rammers**	**6**
3 Nos	**Air Compressors (±300cfm)**	**7**
	Plate Vibrators	**8**
3 Nos	**Dozer (D6 or equivalent)**	**9**
10 Nos	**Mechanical Concrete mixers 14/10 cft, 10/7 cft**	**10**
10 Nos.	**Concrete vibrators**	**11**
2549 MT	**Cement**	**12**
5766 Cum	**Sand**	**13**
84 Qtl	**Steel**	**14**
7564 Cum	**Metal 40mm**	**15**
3301Cum	**Metal 20mm**	**16**
1165 Cum	**Rough Stone Masonry**	**17**

A. WRO COST TABLE

(Package -8)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements	56025 M^3	55.74	
b.	Cross masonry repairs			
c.	Sluice Repairs/ Reconstructions	212 Nos	169.60	
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anaicut Repairs			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall	1316 M	163.66	
j.	Supply cannel improvements			
k.	Lining of irrigation channels			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		389.00	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		11.00	
	Total		**400.00**	

A.(PHYSICAL AND FINANCIAL PROGRAM)

Package - 8. ASB/NCB/2011-12

Sl. No.		Description	I Year		II Year				
			Qty	Amt in Lakhs	Qty	Amt in Lakhs	Qty		Amt in Lakhs
I		**Canal Bank Improvements**							
	1	Earthwork for Bund	54525	54.25	1500	1.49	56025		55.74
II		**Repairs to sluices**							
	1	Repair	212	169.60	--	--	212		169.60
III		**Repairs to C.R. works.**							
	1	Repair							
IV		**Retaining wall**							
	1	Retaining wall	1316	140.13	235	23.53	1635		163.66
V		**Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges**		9		2			11.00
		Total							400

PACKAGE- 8
Construction methodology

Sl No	Description of Item	Working Months															Total
									IRRIGATION SEASON								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	Earth work excavation																
1	Bund	--	--	--	6500	7000	10000	10000	--	--	--	--	--	--	--	1300	34300
2	Channel	--	--	--	5000	6000	5000	5000	--	---	--	--	--	--	--	3375	26375
3	Foundation	--	--	--	10000	6000	6000	8000	--	--	--	--	--	--	--	690	30690
	Concrete																
4	M 7.5 grade	--	--	--	500	500	500	500	--	--	--	--	--	--	--	390	2390
5	M 10 , 40mm & 20mm	--	--	--	1000	1200	2000	3115	--	--	--	--	--	--	--	185	7500
6	M. 20 grade R.C.C.	--	--	--	--	--	40	43	--	--	--	--	--	--	--	--	83
7	R.R.masonry.	--	--	--	50	50	100	65	--	--	--	--	--	--	--	--	265

AMARAVATHI SUB BASIN
PAKCAGE NO.8

Requirement of Construction Equipments and Materials

2 Nos	**Dydraulic excavator (± 0.90Cum)**	**1**
	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	**2**
18 Nos	**Tippers/Lorries(8 to 10 Tonne)**	**3**
	Power Rollers/Vibratory Power Roller	**4**
8 Nos	**Water Tankers(Truck Mounted of ± 10000 Liters)**	**5**
	Pneumatic Tampers/Earth Rammers	**6**
	Air Compressors (±300cfm)	**7**
	Plate Vibrators	**8**
2 Nos	**Dozer (D6 or equivalent)**	**9**
8 Nos	**Mechanical Concrete mixers 14/10 cft, 10/7 cft**	**10**
8 Nos.	**Concrete vibrators**	**11**
2075 MT	**Cement**	**12**
4578Cum	**Sand**	**13**
125 Qtl	**Steel**	**14**
6201Cum	**Metal 40mm**	**15**
2774 Cum	**Metal 20mm**	**16**
292 Cum	**Rough Stone Masonry**	**17**

A. WRO COST TABLE

(Package -9)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements	35290 M^3	43.87	
b.	Sluice Reconstructions			
c.	Sluice Repairs	325 Nos	276.25	
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anaicut Repairs			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall	2550 m	252.54	
j.	Supply cannel improvements	21215 m	6.13	
k.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		**578.79**	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		16.21	
	Total		**595.00**	

A. (PHYSICAL AND FINANCIAL PROGRAM)

(Package 9)

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	**5290**	**3.87**	**30000**	**40.00**	**35290**	**M³**	**43.87**
II		**Improvement of sluices**							
	1	Reconstruction							
	2	Repair	**20**	**17.00**	**305**	**259.25**	**325**	**Nos**	**276.25**
III		**Improvement of Weir**							
	1	Reconstruction							
	2	Repair							
V		**Supply Channel Improvement**							
	1	Earthwork			**22700**	**6.13**	**22700**	**M³**	**6.13**
		Head Sluice							
		Outlet							
VI		**Anicut improvement**							
	1	Repair							
	2	Grade Wall							
	3	Irrigation Channel	**200**	**20.00**	**2350**	**232.54**	**2550**	**M**	**252.54**
VII		**Environmental cell**							
VIII		**Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges**	**-**	**9.00**	**-**	**7.21**	**-**	**-**	**16.21**
IX		**Measuring Devices**							
		Total							**595.00**

Sl No	Description of Item	Construction Methodology (Package. 9)															Total
		Working Months							IRRIGATION SEASON								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
		Jan 2012	Feb 2012	Mar 2012	April 2012	May 2012	June 2012	July 2012	Aug 2012	Seb 2012	Oct 2012	Nov 2012	Dec 2012	Jan 2013	Feb 2013	Mar 2013	
	Earth work excavation																
1	Bund		3000	12000	8000	5000	5000	2290									35290
2	Channel					10700	12000										22700
3	Foundation			1000	2500	2500	2500	1500								400	10400
	Concrete																
4	M 7.5 grade			400	800	900	500	400								405	3405
5	M 10 grade using 40 to 20mm			1000	2500	3000	3000	1500								585	11585
6	**R.CC M20 Using 20 mm metal**					5	6										11
7	M 15 grade using 20mm			1	1	1	1										4

AMARAVATHI SUB BASIN
PAKCAGE NO.9

Requirement of Construction Equipments and Materials

-	Dydraulic excavator (± 0.90Cum)	1
-	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2
25 Nos	Tippers/Lorries(8 to 10 Tonne)	3
	Power Rollers/Vibratory Power Roller	4
4 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
3 Nos	Dozer (D6 or equivalent)	9
9 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10
9 Nos	Concrete vibrators	11
3061 MT	Cement	12
7333 Cum	Sand	13
8.25	Steel	14
9319 Cum	Metal 40mm	15
4184 Cum	Metal 20mm	16
	Rough Stone Masonry	17

A. WRO COST TABLE

(Package 10)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements	42060 M^3	29.01	
b.	Jeep Track Improvements	41921 M^3	46.21	
c.	Sluice Reconstructions			
d.	Sluice Repairs	25 Nos	20.80	
e.	Weir Reconstructions			
f.	Weir Repairs	1 No	4.87	
g.	Anaicut Repairs			
h.	Head Sluice	2 nos	13.71	
i.	Outlet			
j.	Construction of Retaining wall	2415 m	255.13	
k.	Supply cannel improvements	67100 m	82.43	
l.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)	3No	0.30	
	Sub Total		**452.46**	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		12.54	
	Total		**465.00**	

B. (PHYSICAL AND FINANCIAL PROGRAM)
(Package 10)

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	**30000**	**25.00**	**53981**	**50.22**	**83981**	**M³**	**75.22**
II		**Improvement of sluices**							
	1	Reconstruction							
	2	Repair	**4**	**4.00**	**21**	**16.80**	**25**	**Nos**	**20.80**
III		**Improvement of Weir**							
	1	Reconstruction			**1**	**4.87**	**1**	**No**	**4.87**
	2	Repair							
V		**Supply Channel Improvement**							
	1	Earthwork	**50000**	**28.27**	**74985**	**54.16**	**144985**	**M³**	**82.43**
		Head Sluice			**2**	**13.71**	**2**	**no**	**13.71**
		Outlet							
VI		**Anicut improvement**							
	1	Repair							
	2	Grade Wall							
	3	Irrigation Channel	**300**	**38.94**	**2000**	**230.00**	**2415**	**M**	**255.13**
VII		**Environmental cell**							
VIII		**Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges**	**-**	**7.00**	**-**	**5.74**	**-**	**-**	**12.54**
IX		**Measuring Devices**	**3**	**0.30**					**0.30**
		Total							**465.00**

PACKAGE-10
Construction methodology

Sl No	Description of Item	Working Months							IRRIGATION SEASON								Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
		Jan	Feb	Mar	April	May	June	July	Aug	Seb	Oct	Nov	Dec	Jan	Feb	Mar	
		2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	2013	2013	2013	
	Earth work excavation																
1	Bund		2700	28000	23500	10000	8000	6781									78981
2	Channel																144935
3	Foundation			3000	3000	2500	2000	1500								700	12700
	Concrete																
4	M 7.5 grade			300	300	300	300	250								170	1620
5	M 10 grade using 40 to 20mm			800	800	800	1200	900								685	5185
6	M.10 using 40mm																
7	M 15 grade using 20mm			1	1	1	1										4

AMARAVATHI SUB BASIN
PAKCAGE NO.10

Requirement of Construction Equipments and Materials

3 Nos	**Dydraulic excavator (± 0.90Cum)**	**1**
	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	**2**
22 Nos	**Tippers/Lorries(8 to 10 Tonne)**	**3**
	Power Rollers/Vibratory Power Roller	**4**
4 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**
3 Nos	**Dozer (D6 or equivalent)**	**9**
9 Nos	**Mechanical Concrete mixers 14/10 cft, 10/7 cft**	**10**
9 Nos	**Concrete vibrators**	**11**
1384 MT	**Cement**	**12**
3064 Cum	**Sand**	**13**
	Steel	**14**
4257 Cum	**Metal 40mm**	**15**
1870 Cum	**Metal 20mm**	**16**
	Rough Stone Masonry	**17**
83981Cum	**Earth**	**18**

A. WRO COST TABLE

Package 11

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements	25500 M^3	33.00	
b.	Sluice Reconstructions			
c.	Sluice Repairs	21 Nos	16.10	
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anaicut Repairs			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall	4050 m	434.01	
j.	Supply cannel improvements	14700 M^3	3.41	
k.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		**486.42**	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		**13.58**	
	Total		**500.00**	

C. (PHYSICAL AND FINANCIAL PROGRAM)
(Package 11)

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	**5500**	**6.50**	**20000**	**26.50**	**25500**	**M³**	**33.00**
II		**Improvement of sluices**							
	1	Reconstruction							
	2	Repair	**3**	**2.40**	**18**	**13.70**	**21**	**Nos**	**16.10**
III		**Improvement of Weir**							
	1	Reconstruction							
	2	Repair							
V		**Supply Channel Improvement**							
	1	Earthwork			**14700**	**3.41**	**14700**	**M³**	**3.41**
		Head Sluice							
		Outlet							
VI		**Anicut improvement**							
	1	Repair							
	2	Grade Wall	**250**	**25.00**	**3800**	**409.01**	**4050**	**M**	**434.01**
	3	Irrigation Channel							
VII		**Environmental cell**							
VIII		**Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges**	**-**	**4.62**	**-**	**9.00**	**-**	**-**	**13.58**
IX		**Measuring Devices**							
		Total							**500.00**

PACKAGE-11
Construction methodology

		Working Months							IRRIGATION SEASON								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
		Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
		2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	2013	2013	2013	
	Earth work excavation																
1	Bund		2000	8000	6000	6000	8000	4720									25500
2	Channel																
3	Foundation			5000	5500	5000	5000	3500								2705	26705
	Concrete																
4	M 7.5 grade			500	500	500	500	400								455	2855
5	M 10 grade using 40 to 20mm			2000	2000	2000	2000	2000								1820	11820
6	M.10 using 40mm																
7	M 15 grade using 20mm						1										1

4 Nos	Dydraulic excavator (± 0.90Cum)	1	Amaravathi SUB BASIN PAKCAGE NO.11 Requirement of Construction Equipments and Materials
	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	
30 Nos	Tippers/Lorries(8 to 10 Tonne)	3	
	Power Rollers/Vibratory Power Roller	4	
4 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	
3 Nos	Dozer (D6 or equivalent)	9	
16 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	
16 Nos	Concrete vibrators	11	
3014 MT	Cement	12	
6606Cum	Sand	13	
	Steel	14	
8953Cum	Metal 40mm	15	
4257Cum	Metal 20mm	16	
	Rough Stone Masonry	17	
25500Cum	Earth	18	

WRO COST TABLE

Package 12

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements	29830 M^3	42.82	
b.	Sluice Reconstructions			
c.	Sluice Repairs	8 Nos	6.40	
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anaicut Repairs			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall	2130 m	236.60	
j.	Supply cannel improvements	26200 M3	6.08	
k.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		**291.90**	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		8.10	
	Total		**300.00**	

D. (PHYSICAL AND FINANCIAL PROGRAM)
(Package 12)

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	**5000**	**7.00**	**24830**	**33.45**	**29830**	**M³**	**42.82**
II		**Improvement of sluices**							
	1	Reconstruction							
	2	Repair	**2**	**1.50**	**6**	**22.24**	**8**	**Nos**	**6.40**
III		**Improvement of Weir**							
	1	Reconstruction							
	2	Repair							
V		**Supply Channel Improvement**							
	1	Earthwork			**26200**	**6.08**	**26200**	**M³**	**6.08**
		Head Sluice							
		Outlet							
VI		**Anicut improvement**							
	1	Repair							
	2	Grade Wall							
	3	Irrigation Channel	**130**	**2.00**	**3000**	**240.68**	**2130**	**M**	**236.60**
VII		**Environmental cell**							
VIII		**Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges**	**-**	**5.00**	**-**	**3.10**	**-**	**-**	**8.10**
IX		**Measuring Devices**							
		Total							**300.00**

3 Sl No	Description of Item	Construction Methodology Package no 12															Total
		Working Months							IRRIGATION SEASON								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
		Jan	Feb	Mar	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	
		2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	2012	2013	2013	2013	
	Earth work excavation																
1	Bund		2000	8000	6000	6000	8000	4720									29350
2	Channel																
3	Foundation			2000	2000	2000	2500	2500								1400	12400
	Concrete																
4	M 7.5 grade			200	300	300	300	200								140	1540
5	M 10 grade using 40 to 20mm			1000	1000	1500	1500	1000								500	6500
6	M.10 using 40mm																
7	M 15 grade using 20mm						1										1

Amaravathi SUB BASIN
PAKCAGE NO.12

Requirement of Construction Equipments and Materials

4 Nos	**Dydraulic excavator (± 0.90Cum)**	**1**
	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	**2**
30 Nos	**Tippers/Lorries(8 to 10 Tonne)**	**3**
	Power Rollers/Vibratory Power Roller	**4**
4 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**
3 Nos	**Dozer (D6 or equivalent)**	**9**
16 Nos	**Mechanical Concrete mixers 14/10 cft, 10/7 cft**	**10**
16 Nos	**Concrete vibrators**	**11**
1655 MT	**Cement**	**12**
3619Cum	**Sand**	**13**
	Steel	**14**
4896Cum	**Metal 40mm**	**15**
2341Cum	**Metal 20mm**	**16**
	Rough Stone Masonry	**17**
29350Cum	**Earth**	**18**

COST TABLE

CANAL COMPONENT (palar porundalar system) package 13

Slno		Component	Qty		Amount in Lakhs
I		**Bund Improvement**			
		Earthwork for bund	8100	M	31.63
II		**Improvement to Sluices**			
1		**Reconstruction**			
	a	Tower Head	0	Nos	0
	b	Wing Wall	0	Nos	0
2		**Repair**			
	a	Tower Head	0	Nos	0
	b	Wing Wall	0	Nos	0
3		Well syphon	0		0
III		**Lining canal**			
1		Lining	0	Nos	0
2		Repair	0	Nos	0
IV		**Shutter Arrangement**			
1		**Sluice**			
	a	SG Plug	0	Nos	0
	b	Head sluice shutter	1	Nos	12.00
2		**Cross masonry**			
	a	Repair	0	Nos	0
		Reconstruction			
3		**Anicut**			
		Anicut shutter	0	Nos	0
		Head sluice shutter	0	Nos	0
V		**Canal Improvement**			
2	a	Retaining Wall or Trough section	8100	m	1625.94
VI		**others**			
		Measuring Devices	0	Nos	0
		Total cost of Civil Works			**1669.57**
VIII	a	Labour welfare fund @,0.30%			5.16
	b	Add Provisions for Contingencies, labour benefit fund, advertisement charges, documentation charges, photographs etc.,2.50%			44.26
		Total Amount			***1719.00***

A. WRO COST TABLE

Package 13

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements	8100 M	31.63	
b.	Sluice Reconstructions			
c.	Head sluice shutter	1 No	12.00	
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anaicut Repairs			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall or Trough Section	8100 M	1625.94	
j.	Supply cannel improvements			
k.	Lining of irrigation channels (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		1669.57	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		49.42	
	Total		1719	

Package-13

C. (PHYSICAL AND FINANCIAL PROGRAM)

(Palar Porundalar LMC)

SL. NO	Description	I Six Months		II Six Months		Total	
		Quantity	Amount in Lakhs	Quantity	Amount in Lakhs	Quantity	Amount in Lakhs
1	Lining of Main Canal	0	0.00	0	0.00	0	0
2	Canal Bund Improvements	5670	22.14	2430	9.49	8100	31.63
3	Repairs to Shutters	0	0.00	1	12.00	1	12
4	Retaining Wall or Trough Section	5670	1138.16	2430	487.78	8100	1625.94
5	Measuring Devices	--	--	0	0	0	0
	Total		**1160.30**		**509.27**		**1669.57**

PACKAGE 13

Construction Methodology (PPS LMC 0 to 8.1)

Sl No	Description of Item	Working Months															Rainy season			Total
		1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**5**	**6**	**7**	**10**	**11**	**12**	
	Earth work excavation																			
1	Bund				6000	6000	6000	6000	6000	6000				3000	1000					40000
2	Silt				5000	5000	6110	5000												21110
3	Foundation				1010	4000	4000	4000	4000	1000										18010
4	sand filling				500	600	600	481	400	100										2681
5	Trimming																			0
																				0
	Concrete																			
6	centering				10000	10000	10000	10000	10000	6986										56986
7	paver conrete				1000	3000	4000	5000	5000	4000				1000	1000					24000
8	M 15 grade				2000	4000	4000	4000	4000	4000				2600	29					24629
9	M 25 grade				1000	1000	1000	1500	1500	1000				500	80					7580
10	steel				1000	1000	1000	1500	1500	1000				500	80					7580
11	Prepration of sub grade					1000	1000	1000	1000	1000										5000

Package No 13 ASB/NCB/2011-12

Requirement Of Equipments And Materials

Package No 13	Concrete Vibrator														Materials Required						
	Hydraulic Excavator	Batching Plant	Gen Set	Concrete Paver	Transit Mixer	Tipper/Lorry	Power Roller	Water lorry	Tampers/Earth Rammers	Air Compresser	Plate Vibrator	Dozer	Mechanical Concrete Mixer	Concrete Vibrator	Cement-MT	Sand-CUM	Steel-MT	Metal 40 mm-CUM	Metal 20 mm-CUM	Rough Stone Masonry-CUM	Earth-CUM
13	2	1	1	1	3	20	2	4	1	1	2	1	5	4	10100	40948	758	51287	30608		40000

COST TABLE

CANAL COMPONENT (palar porundalar system) package 14

Slno		Component	Qty		Amount in Lakhs
I		**Bund Improvement**			
		Earthwork for bund	32420	M	33.38
II		**Improvement to Sluices**			
1		**Reconstruction**			
	a	Tower Head	0	Nos	0
	b	Wing Wall	0	Nos	0
2		**Repair**			
	a	Tower Head	0	Nos	0
	b	Wing Wall	0	Nos	0
3		Well syphon	0		0
III		**Lining canal**			
1		Lining	18000	Nos	458.57
2		Repair	0	Nos	0
IV		**Shutter Arrangement**			
1		**Sluice**			
	a	SG Plug	0	Nos	0
	b	SG Shutter	62	Nos	15.83
2		**Cross masonry**			
	a	Repair	0	Nos	0
		Reconstruction			
3		**Anicut**			
		Anicut shutter	0	Nos	0
		Head sluice shutter	0	Nos	0
V		**Canal Improvement**			
2	a	Retaining Wall	0	m	0
VI		**River Training**			
1		**Anicut**			
	a	Repair	0	Nos	0
VII		In Tank Bed			
		Measuring Devices	0	Nos	0
		Total cost of Civil Works			**507.78**
VIII	a	Labour welfare fund @,0.30%			1.52
	b	Add Provisions for Contingencies, labour benefit fund, advertisement charges, documentation charges, photographs etc.,2.50%			12.70
		Total for provisions			14.20
		Total Amount			***522.00***

A. WRO COST TABLE

Package 14

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements	32420 M	33.38	
b.	Sluice Reconstructions			
c.	sluice shutter	62 No	15.83	
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anaicut Repairs			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall or Trough Section			
j.	Supply cannel improvements			
k.	Lining of irrigation canals (29x30w+15%)	18000 M	458.57	
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		507.78	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		14.22	
	Total		522	

Package-14

C. (PHYSICAL AND FINANCIAL PROGRAM)

(Palar Porundalar LMC)

SL. NO	Description	I Six Months		II Six Months		Total	
		Quantity	Amount in Lakhs	Quantity	Amount in Lakhs	Quantity	Amount in Lakhs
1	Lining of Main Canal	12600	321.00	5400	137.57	18000	458.57
2	Canal Bund Improvements	22694	23.37	9726	10.01	32420	33.38
3	Repairs to Shutters	43	11.08	19	4.75	62	15.83
4	Retaining Wall or Trough Section	0	0.00	0	0.00	0	0
5	Measuring Devices	--	--	0	0	0	0
	Total		**355.45**		**152.33**		**507.78**

PACKAGE 14

Construction Methodology (PPS LMC 8.10 to 40.52 km)

Sl No	Description of Item	Working Months															Rainy season			Total
		1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**5**	**6**	**7**	**10**	**11**	**12**	
	Earth work excavation																			
1	Bund				2300	3000	3000	3000	3000											14300
2	Silt				19000	20000	20000	18555												77555
3	Foundation					0	0													0
4	sand filling																			0
5	Gravel																			
6	Trimming				5000	5000	5000	5000	5000	5000				520						30520
	Concrete																			
7	paver conrete				3000	4000	5000	5000	5000	5000				2420						29420
8	PCC slab manufact				5000	5000	5000	5000	5000	5000				4840						34840
9	Prepration of sub grade manuls				9000	10000	10000	10000	10000	10000				2042						61042
10	Prepration of sub grade & Laying PCC slab				3000	5000	5000	6840	5000	5000				5000						34840

Package No 14 ASB/NCB/2011-12
Requirement Of Equipments And Materials

Package No 14	Concrete Vibrator														Materials Required						
	Hydraulic Excavator	Batching Plant	Gen Set	Concrete Paver	Transit Mixer	Tipper/Lorry	Power Roller	Water lorry	Pneumatic Tampers/Earth Rammers	Air Compresser	Plate Vibrator	Dozer	Mechanical Concrete Mixer	Concrete Vibrator	Cement-MT	Sand-CUM	Steel-MT	Metal 40 mm-CUM	Metal 20 mm-CUM	Rough Stone Masonry-CUM	Earth-CUM
14	2	1	1	1	3	24	3	5	1	1	4	1	5	5	344	2420			64083		91855

COST TABLE

I -- TANK COMPONENT (palar porundalar system) package 15

Slno		Component	Qty		Amount in Lakhs
I		**Tank Bund Improvement**			
		Earthwork for bund, Retaining wall, Model Section, Steps	13574	M	183.55
II		**Improvement to Sluices**			
1		**Reconstruction**			
	a	Tower Head	0	Nos	0
	b	Wing Wall	6	Nos	59.60
2		**Repair**			
	a	Tower Head	0	Nos	0
	b	Wing Wall	8	Nos	28.02
3		Well syphon	0		0
III		**Improvements to Weir**			
1		Reconstruction	1	Nos	8.42
2		Repair	5	Nos	19.06
IV		**Shutter Arrangement**			
1		**Sluice**			
	a	SG Plug			
	b	SG Shutter			
2		**Weir**			
	a	SG Shutter in scour vents			
3		**Anicut**			
		Anicut shutter			
		Head sluice shutter			
V		**Supply Channel Improvement**			
1	a	Earthwork	20150	m	55.31
2	b	Retaining Wall		m	
VI		**River Training**			
1		**Anicut**			
	a	Repair	3	Nos	277.47
VII		In Tank Bed			
		Measuring Devices	11	Nos	3.76
		Total cost of Civil Works			**635.21**
VIII	a	Labour welfare fund @,0.30%			1.91
	b	Add Provisions for Contingencies, labour benefit fund, advertisement charges, documentation charges, photographs etc.,2.50%			15.88
		Total for provisions			17.79
		Total Amount			***653.00***

A. WRO COST TABLE

Package 15

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Tank Bund Improvements	13574 M	183.55	
b.	Sluice Reconstructions	6 Nos	59.6	
c.	Sluice Repairs	8 Nos	28.02	
d.	Weir Reconstructions	1 No	8.42	
e.	Weir Repairs	5 Nos	19.06	
f.	Anaicut Repairs	3 Nos	277.47	
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall or Trough Section			
j.	Supply cannel improvements	20150 M	55.31	
k.	Lining of irrigation canals (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)	18 Nos	3.78	
	Sub Total		635.21	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		17.79	
	Total		653	

Package-15

C. (PHYSICAL AND FINANCIAL PROGRAM)

(Palar Porundalar 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	9502	128.49	4072	55.07	13574	183.55
2	Repairs to sluices	10	61.33	4	26.29	14	87.62
3	Repairs to Weir	4	19.24	2	8.24	6	27.48
4	Repairs to Anicut	2	194.23	1	83.24	3	277.47
5	Rehabilitation of Supply channels	14105	38.72	6045	16.59	20150	55.31
6	Measuring Devices	--	--	18	3.78	18	3.78
	Total		**442.00**		**193.21**		**635.21**

PACKAGE 15
Construction Methodology (PPS Sys tank)

Sl 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				15000	15000	15000	15000	15000	14100										89100
2	Bund				35000	35000	35000	35000	35000	35000	0	0	0	35000	35000	25981				305981
3	sand filling				70	100	150	100	100	29										549
4	Gravel				50	50	75	50	75	34										334
5	Foundation				614	1481	1440	1000	1000	0										5535
	Turfing						15000	15000	15000	15000	0	0	0	15000	15000	3813				93813
6	cut open & Ordinary EW				1977	2500	2500													6977
	Concrete																			
7	M 7.5 40mm				365	300	300	250	75	19										1309
8	M 10 grade 20mm and 40mm				300	400	450	466	350	409				100	100					2575
9	M 15, 20mm				800	900	900	900	1000	900				176	100					5676
10	M 20, 20 mm				100	200	250	250	200	200				128	150					1478
11	RR masonry				14	100	200	300	200	100										814
12	Rough stone				13	50	100	50	50	50										313
13	Plastering					252	500	500	500	300				100	100					2252
14	Pointing					50	50	50	50	50				50	50					350

PACKAGE NO 15 (PPS Sys tank)																
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
15	3	2	2	20	2	2	2	3361	5082	427	2506	7324	896	388	_

COST TABLE (PACKAGE NO: 16)
I - TANK COMPONENT

Sl No		Component	Qty		Amount in Lakhs
I		**Tank Bund Improvement**			
		Earthwork for bund,Retaining wall,Model Section,Steps	25272		289.91
II		**Improvement to Sluices**			
1		**Reconstruction**			
	a	Tower Head			
	b	Wing Wall	10		72.57
2		**Repair**			
	a	Tower Head			
	b	Wing Wall	24		99.50
3		Well syphon			
III		**Improvements to Weir**			
1		Reconstruction	4		9.92
2		Repair	1		13.07
IV		**Shutter Arrangement**			
1		**Sluice**			
	a	SG Plug			
	b	SG Shutter			
2		**Weir**			
	a	Weir reconstruction			
3		**Anicut**			
		Anicut shutter			
		Head sluice shutter			
V		**Supply Channel Improvement**			
1	a	Earthwork for bund	2215		14.62
2	b	Retaining Wall			
VI		**River Training**			
1		**Anicut**			
	a	Repair	2		70.18
VII		In Tank Bed			
VIII	a	Add Provisions for Measuring devices such as V.notches (27nos)	28		4.16
		Total cost of Cilvil Works			**573.93**
IX	a	Labour welfare fund @ 0.30%			**1.72**
	b	Add Provisions for Contingencies, advertisement charges, documentation charges, photographs etc.,2.50%			**14.35**
		Total Provision			**16.07**
		Total Amount			**590.00**

A. WRO COST TABLE

Package 16

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Tank Bund Improvements	25272 M	289.91	
b.	Sluice Reconstructions	10 Nos	72.57	
c.	Sluice Repairs	24 Nos	99.50	
d.	Weir Reconstructions	1 No	13.07	
e.	Weir Repairs	4 Nos	9.92	
f.	Anaicut Repairs	2 Nos	70.18	
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall or Trough Section			
j.	Supply cannel improvements	2215 M	14.62	
k.	Lining of irrigation canals (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)	28 No	4.16	
	Sub Total		573.93	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		16.07	
	Total		590	

Package-16

C. (PHYSICAL AND FINANCIAL PROGRAM)

(Palar Porundalar & Varadhamanathi 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	17690	202.94	7582	86.97	25272	289.91
2	Repairs to sluices	24	120.45	10	51.62	34	172.07
3	Repairs to Weir	3	16.09	2	6.90	5	22.99
4	Repairs to Anicut	1	49.13	1	21.05	2	70.18
5	Rehabilitation of Supply channels	1551	10.23	665	4.39	2215	14.62
6	Measuring Devices	--	--	28	4.16	28	4.16
	Total		**398.84**		**175.09**		**573.93**

PACKAGE 16
Construction Methodology (PPS and VRS Non System Tank)

Sl No	Description of Item	Working Months												Rainy season			Total
		1	2	3	4	5	6	7	8	9	1	2	3	10	11	12	
	Earth work																
1	Channel	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Bund	-			41096	41096	41096	41096	41096	41096	41097	41097	41097	-	-	-	369868
3	Gravel	-	-	-					100	100	100	101	101	-	-	-	502
4	Foundation	-	-	-	1129	1129	1129	1129	1129	1129	1130	-		-	-	-	7904
5	Cut open and ordinary soil	-	-	-	1948	1948	1948	1948	1947		-	-	-	-	-	-	9739
	Concrete	-	-	-	-								-				
6	M 7.5, 40mm	-	-	-	-	291	291	291	291	291	291	290	-	-	-	-	2036
7	M 10, 20mm & 40mm	-	-	-	-	724	724	724	724	724	723	723	-	-	-	-	5066
8	M 15, 20mm & 40mm	-	-	-	-	94	94	94	94	94	93	93	-	-	-	-	656
9	M 15, 20mm	-	-	-	-	-	-	-		9	9	10	-				28
10	M 20, 20mm			-	-	-		129	129	129	129	128		-	-	-	643.5
11	RR masonry	-	-	-	-	-	203.2	203.2	203.2	203.2	203.2	203.2	203.2	-	-	-	1423
12	Rough stone	-	-	-	-	-	39	39	39	39	39	39	38	-	-	-	271
13	Plastering	-	-	-		-	-	818	818	818	818	818	818	-			4908
14	Pointing	-	-	-	-	-	-	89.4	89.4	89.4	89.4	89.4	-	-	-	-	447
15	Trimming	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AMARAVATHI RIVER SUB BASIN - PACKAGE 16

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 m3	STEEL IN M.T.	METAL 40MM IN m3	METAL 20MM IN m3	RR IN m3	GRAVEL IN m3	FUEL
16	8	6	6	29	6	7	7	2571	4027	17.7	4481	2204	1649	297	

COST TABLE (PACKAGE NO : 17)

I – TANK COMPONENT

Sl No		Component	Qty		Amount in Lakhs
I		**Tank Bund Improvement**			
		Earthwork for bund, Retaining wall, Model Section, Steps	21363	m	262.08
II		**Improvement to Sluices**			
1		**Reconstruction**			
	a	Tower Head			
	b	Wing Wall	1	No	15.78
2		**Repair**			
	a	Tower Head			
	b	Wing Wall	17	Nos	132.88
3		Well syphon			
III		**Improvements to Weir**			
1		Reconstruction			
2		Repair			
IV		**Shutter Arrangement**			
1		**Sluice**			
	a	SG Plug			
	b	SG Shutter			
2		**Weir**			
	a	SG Shutter in scour vents			
3		**Anicut**			
		Anicut shutter			
		Head sluice shutter			
V		**Supply Channel Improvement**			
1	a	Earthwork for bund			
2	b	Repair in sluice	17	Nos	70.61
VI		**River Training**			
1		**Anicut**			
	a	Repair			
VII		In Tank Bed			
		Measuring Devices	49	Nos	5.03
		Total cost of Civil Works			**486.38**
VIII	a	Labour welfare fund @ 0.30%			1.46
	b	Add Provisions for Contingencies, advertisement charges, documentation charges, photographs etc.,2.50%			12.16
		Total for provisions			**13.62**
		Total Amount			**500.00**

A. WRO COST TABLE

Package 17

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Tank Bund Improvements	21363 M	262.08	
b.	Sluice Reconstructions	1 No	15.78	
c.	Sluice Repairs	17 Nos	132.88	
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anaicut Repairs			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall or Trough Section			
j.	Supply cannel improvements	18230 M	70.61	
k.	Lining of irrigation canals (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)	43 No	5.03	
	Sub Total		486.38	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		13.62	
	Total		500	

Package-17

C. (PHYSICAL AND FINANCIAL PROGRAM)

(Varadhamanathi 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	14952	183.46	6408	78.62	21360	262.08
2	Repairs to sluices	13	104.06	5	44.60	18	148.66
3	Repairs to Weir	0	0.00	0	0.00	0	0
4	Repairs to Anicut	0	0.00	0	0.00	0	0
5	Rehabilitation of Supply channels	12761	49.43	5469	21.18	18230	70.61
6	Measuring Devices	--	--	43	5.03	43	5.03
	Total		**336.95**		**149.44**		**486.38**

PACKAGE 17
Construction Methodology (VRS System tank)

Sl No	Description of Item	Working Months												Rainy season			Total
		1	2	3	4	5	6	7	8	9	1	2	3	10	11	12	
	Earth work excavation																
1	Channel	-	-	-	4944	4944	4944	4944	4944	4944	4944	4945	4945	-	-	-	44500
2	Bund	-			41511	41511	41511	41511	41511	41511	41510	41511	41510	-	-	-	377229
3	Gravel	-	-	-	-	-	90	90	90	90	90	92		-	-	-	542
4	Foundation	-	-	-	933	933	933	933	933	933	932	-	-	-	-	-	6530
5	Cut open and ordinary soil				561	561	561	561	562								2806
	Concrete											-	-				
6	M 7.5, 40mm	-	-	-	-	193	193	193	193	194	193	-	-	-	-	-	1159
7	M 10, 20mm & 40mm	-	-	-	-	407.5	407.5	407.5	407.5	407.5	407.5	407.5	407.5	-	-	-	3260
8	M 15, 20mm & 40mm	-	-	-	-	41	41	41	41	41	41	41	40	-	-	-	327
9	M 15, 20mm	-	-	-	-	-	-	7	7	7	7	7	8	-	-	-	43
10	M 20, 20mm	-	-	-	-	7	7	7	7	7	7			-	-	-	42
11	RR masonry	-	-	-	-	-	-	314	314	314	314	313		-	-	-	1569
12	Rough stone	-	-	-	-	-	-	63	63	63	63	64		-	-	-	316
13	Plastering	-	-	-					1042	1042	1042	1042	1045	-		-	5213
14	Pointing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Trimming	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

AMARAVATHI RIVER SUB BASIN - PACKAGE 17

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 m3	STEEL IN M.T.	METAL 40MM IN m3	METAL 20MM IN m3	RR IN m3	GRAVEL IN m3	FUEL
17	4	14	14	50	14	4	6	1263	2530	4.2	2804	1544	2042	542	

Package 18

COST TABLE

I – TANK COMPONENT

Sl No		Component	Qty		Amount in Lakhs
I		**Tank Bund Improvement**			
		Earthwork for bund, Retaining wall, Model Section, Steps	10651	m	173.55
II		**Improvement to Sluices**			
1		**Reconstruction**			
	a	Tower Head			
	b	Wing Wall	9	nos	68.48
2		**Repair**			
	a	Tower Head			
	b	Wing Wall	5	nos	50.94
3		Well syphon			
III		**Improvements to Weir**			
1		Reconstruction			
2		Repair	8	nos	27.31
IV		**Shutter Arrangement**			
1		**Sluice**			
	a	SG Plug			
	b	SG Shutter			
2		**Weir**			
	a	SG Shutter in scour vents			
3		**Anicut**			
		Anicut shutter			
		Head sluice shutter			
V		**Supply Channel Improvement**			
1	a	Earthwork & Retaining wall	16930	m	116.60
VI		**River Training**			
1		**Anicut**			
	a	Repair	2	nos	47.9
VII		In Tank Bed			
		Measuring Devices	11	Nos	1.60
		Total cost of Civil Works			**486.38**
VIII	a	Labour Welfare Fund @0.3%			1.46
	b	Add Provisions for Contingencies, advertisement charges, documentation charges, photographs etc.,2.5%			12.16
		Total for provisions			**13.62**
		Total Amount			**500.00**

A. WRO COST TABLE

Package 18

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Tank Bund Improvements	10651 M	173.55	
b.	Sluice Reconstructions	4 Nos	50.94	
c.	Sluice Repairs	9 Nos	68.48	
d.	Weir Reconstructions			
e.	Weir Repairs	8 Nos	27.31	
f.	Anaicut Repairs	2 Nos	47.90	
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall or Trough Section			
j.	Supply cannel improvements	16930 M	116.60	
k.	Lining of irrigation canals (29x30w+15%)			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)	11 No	1.60	
	Sub Total		486.38	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		13.62	
	Total		500	

Package-18

C. (PHYSICAL AND FINANCIAL PROGRAM)

(Kudhiraiyar 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	7455	121.49	3195	52.07	10650	173.55
2	Repairs to sluices	9	83.59	4	35.83	13	119.42
3	Repairs to Weir	6	19.12	2	8.19	8	27.31
4	Repairs to Anicut	1	33.53	1	14.37	2	47.9
5	Rehabilitation of Supply channels	11851	81.62	5079	34.98	16930	116.6
6	Measuring Devices	--	--	11	1.6	11	1.6
	Total		**339.35**		**147.03**		**486.38**

PACKAGE 18
Construction Methodology (KRS System tank

Sl No	Description of Item	Working Months												Rainy season			Total
		1	2	3	4	5	6	7	8	9	1	2	3	10	11	12	
	Earth work excavation																
1	Channel	--	--	--	5000	10000	10000	15000	1510	--	--	--	--	--	--	--	41510
2	Bund	--	--	--	21179	21179	21179	21179	21179	21179	21179	21180	--	--	--	--	190612
3	Gravel	--	--	--		81.5	81.5	81.5	81.5	81.5	81.5	82	--	--	--	--	571
4	Foundation	--	--	--	1442	1442	1442	1442	1442	1443	1444	--	--	--	--	--	10097
	Concrete																
5	M 7.5 grade	--	--	--	--	266	266	266	266	268	269	--	--	--	--	--	1601
6	M 10 grade	--	--	--	--	858	858	858	858	858	858	859	--	--	--	--	6007
7	M 15 grade	--	--	--	--	35	35	35	35	35	36	37	--	--	--	--	248
8	M 20 grade	--	--	--	--	44	44	44	45	45	--	--	--	--	--	--	222
9	RR masonry	--	--	--	--	86	86	86	86	86	86	86	--	--	--	--	602
10	Rough stone	--	--	--	--	115	115	115	115	115	115	116	--	--	--	--	806
11	Plastering	--	--	--	--	--	180	180	180	180	180	181	181	--	--	--	1262
12	Pointing	--	--	--	--	--	193	193	193	193	193	195	--	--	--	--	1160

REQUIREMENT OF EQUIPMENTS AND MATERIALS Package 18

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 m3	STEEL IN M.T.	METAL 40MM IN m3	METAL 20MM IN m3	RR IN m3	GRAVEL IN m3	FUEL
18	7	7	6	40	4	7	6	847	4767	222	1974	1223	586	573	

AMARAVATHI SUB BASIN - PACKAGE No.19 / ASB / NCB / 2011-12

COST TABLE

I – TANK COMPONENT

Sl No		Component	Qty		Amount in Lakhs
I		**Tank Bund Improvement**			
		Earthwork for bund, Retaining wall, Model Section, Steps	180788	M3	107.61
		Model Section	18	Nos	11.18
II		**Improvement to Sluices**			0
1		**Reconstruction**			0
	a	Tower Head		nos	0
	b	Wing Wall		nos	0
2		**Repair**			0
	a	Tower Head		nos	0
	b	Wing Wall	24	nos	143.86
3		Well siphon			0
III		**Improvements to Weir**			0
1		Reconstruction		no	0
2		Repair	13	Nos	47.08
IV		**Shutter Arrangement**			0
1		**Sluice**			0
	a	SG Plug		nos	0
	b	SG Shutter		nos	0
2		**Weir**			0
	a	SG Shutter in scour vents		Nos	0
3		**Anicut**			0
		Anicut shutte			0
		Head sluice shutter		Nos	0
V		**Supply Channel Improvement**			0
1	a	Earthwork for bund			6.46
2	b	Retaining Wall (Cross Masonry Works)	5	Nos	114.38
VI		**River Training**			0
1		**Anicut**			0
	a	Repair	3	nos	110.00
VII		In Tank Bed			0
		Measuring Devices	21	Nos	2.52
		Total cost of Civil Works			**543.09**
VIII	a	Provisions for Contingencies, labour benefit fund, advertisement charges, documentation charges, photographs etc.@ 2.80%	2.80%		12.91
		Total for provisions			**12.91**
		Total Amount			**556.00**
IX		**Environmental Cell Activities**			0
		Total Amount			**556.00**

II – NON TANK COMPONENT ….. NIL

B. WRO COST TABLE

Sl.No	Description of Work	Quantity	Amount in Lakhs	Remarks
1. Tank Component				
1	Strengthening Tank bund	180788 (12.185 km)	107.61	
2	Repairs to sluices	24	143.86	
3	Repairs to Weir	18	161.46	Weir -13 Cross masonry - 5
4	Repairs to Anicut	3	110.00	
5	Rehabilitation of Supply channels (Returning wall)	22995 (9.905 Km)	6.46	
6	Model Section	18	11.18	
7	Measuring Device	21	2.52	
	Sub total		**543.09**	
8	Provisions for Contingencies, labour benefit fund, advertisement charges, documentation charges, photographs etc., 2.80%		12.91	
	Total for Lumpsum Provision		**12.91**	
	Total		**556.00**	
2.Non Tank Component				
	Environment cell		0	
	Ground water		0	
	Total		**556.00**	

C. (PHYSICAL AND FINANCIAL PROGRAM)

Sl. No	Description	I Year		II Year		Total	
		Quantity	Amount in Lakhs	Quantity	Amount in Lakhs	Quantity	Amount in Lakhs
1	Strengthening Tank bund	90394	50.00	90394	57.61	180788	107.61
2	Repairs to sluices	15	69.59	9	74.57	24	144.16
3	Repairs to Weir	8	42.48	10	118.98	18	161.16
4	Repairs to Anicut	2	30.00	1	80.00	3	110.00
5	Rehabilitation of Supply channels	11000	3.00	11995	3.46	22995	6.46
6	Measuring Device	11	1.24	10	1.28	18	2.52
7	Model Section	9	5.50	9	5.68	18	11.18
	Total		201.81		339.8		**543.09**

AMARAVATHI SUB BASIN – PACKAGE No.19 / ASB / NCB / 2011-12
Construction Methodology

Sl No	Description of Item	Working Months									Rainy season			Total
		1	2	3	4	5	6	7	8	9	10	11	12	
	Earth work excavation													
1	Channel													
2	Bund	10000	30000	30000	30000	30000	30000	20788	--	--	--	--	--	180788
3	Gravel	--	--	134	--	--	--	--	--	--	--	--	--	134
4	Foundation	--	1200	--	--	--	--	--	--	--	--	--	--	1200
	Concrete													
5	M 7.5 grade	--	100	150	150	150	113	--	--	--	--	--	--	663
6	M 10 grade	--	200	1000	1000	1000	1000	1000	1000	356	--	--	--	6586
7	M 15 grade	--	--	--	68.30	--	--	--	--	--	--	--	--	68.30
8	M 20 grade	--	--	--	100	112.60	--	--	--	--	--	--	--	212.60
9	RR masonry	--	--	100	100	59	--	--	--	--	--	--	--	259
10	Rough stone	--	--	100	109	--	--	--	--	--	--	--	--	209
11	Plastering	--	--	--	--	--	--	--	525	--	--	--	--	525
12	Pointing	--	--	--	--	--	--	--	--	--	--	--	--	--
13	Trimming	--	--	--	--	--	--	--	--	--	--	--	--	--

AMARAVATHI SUB BASIN – PACKAGE No.19 / ASB / NCB / 2011-12

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 m3	STEEL IN M.T.	METAL 40MM IN m3	METAL 20MM IN m3	RR IN m3	GRAVEL IN m3	FUEL
AMARAVATHI SUB BASIN – PACKAGE No. 19 / ASB / NCB / 2011-12	4	4	4	781	4	7	7	1656	3488	1.44	4480	2298	515	134	

AMARAVATHI SUB BASIN PACKAGE No:20 / ASB / NCB / 2011-12

COST TABLE

I – TANK COMPONENT

Sl No		Component	Qty		Amount in Lakhs
I		**Tank Bund Improvement**			
		Earthwork for bund, Retaining wall, Model Section, Steps	276775.48	M3	179.08
		Model Section	35	Nos	33.31
II		**Improvement to Sluices**			0
1		**Reconstruction**			0
	a	Tower Head		nos	0
	b	Wing Wall		nos	0
2		**Repair**			0
	a	Tower Head		nos	0
	b	Wing Wall	42	nos	308.34
3		Well syphon			0
III		**Improvements to Weir**			0
1		Reconstruction		no	0
2		Repair	18	nos	53.25
IV		**Shutter Arrangement**			0
1		**Sluice**			0
	a	SG Plug		nos	0
	b	SG Shutter		nos	0
2		**Weir**			0
	a	SG Shutter in scour vents		Nos	0
3		**Anicut**			0
		Anicut shutter			0
		Head sluice shutter		Nos	0
V		**Supply Channel Improvement**			0
1	a	Earthwork for bund	19816	M3	5.51
2	b	Retaining Wall		m	0
VI		**River Training**			0
1		**Anicut**			0
	a	Repair		nos	0
VII		In Tank Bed			0
		Measuring Devices	50	Nos	6.04
		Total cost of Civil Works			**585.53**
VIII	a	Provisions for Contingencies, labour benefit fund, advertisement charges, documentation charges, photographs etc.,@ 2.80 %			
		Total for provisions			**13.47**
		Total Amount			**599.00**
IX		**Environmental Cell Activities**			0
		Total Amount			**599.00**

II – NON TANK COMPONENT ….. **NIL**

B. WRO COST TABLE

Sl.No	Description of Work	Quantity	Amount in Lakhs	Remarks
1. Tank Component				
1	Strengthening Tank bund	276775.48 m3 (19.168 Km)	179.08	
2	Repairs to sluices	42Nos.	308.34	
3	Repairs to Weir	18 Nos.	53.25	
4	Repairs to Anicut	-	0	
5	Rehabilitation of Supply channels	19816 m3 (6.765 Km)	5.51	
6	**Measuring device**	50os.	6.04	
7	**Model Section**	35 Nos.	33.31	
	Sub total		**585.53**	
8	Provisions for Contingencies, labour benefit fund, advertisement charges, documentation charges, photographsetc.,@2.80 %		13.47	
	Total for Lumpsum Provision		**13.47**	
	Total		**599.00**	
2.Non Tank Component				
	Environment cell		0	
	Ground water		0	
	Total		**599.00**	

C. (PHYSICAL AND FINANCIAL PROGRAM)

Sl. No	Description	I Year		II Year		Total	
		Quantity	Amount in Lakhs	Quantity	Amount in Lakhs	Quantity	Amount in Lakhs
1	Strengthening Tank bund	138387	90.00	138388.48	89.08	276775.48	179.08
2	Repairs to sluices	21	150.00	21	158.34	42	308.34
3	Repairs to Weir	9	25.00	9	28.25	18	53.25
4	Repairs to Anicut	0	0	0	0	0	0
5	Rehabilitation of Supply channels	9908	2.75	9908	2.76	19816	5.51
6	Measuring device	25	3.02	25	3.02	42	6.04
7	Model Section	17	16.00	18	17.31	35	33.31
	Total		**286.23**		**298.76**		**585.53**

AMARAVATHI SUB BASIN – PACKAGE No: 20 / ASB / NCB / 2011-12

Construction Methodology

Sl No	Description of Item	Working Months									Rainy season			Total
		1	2	3	4	5	6	7	8	9	10	11	12	
	Earth work excavation													
1	Channel													
2	Bund	30752	30752	30752	30752	30752	30752	30752	30752	30752	--	--	--	276776
3	Gravel	44	44	44	44	44	44	44	44	48	--	--	--	400
4	Foundation										--	--	--	
	Concrete										--	--	--	
5	M 7.5 grade	214	214	214	214	214	214	214	214	220	--	--	--	1932
6	M 10 grade	75	75	75	75	75	75	75	75	76	--	--	--	676
7	M 15 grade	20	20	20	20	20	20	20	20	23	--	--	--	183
8	M 20 grade	35	35	35	35	35	35	35	35	37	--	--	--	317
9	RR masonry	150	150	150	150	150	150	150	150	157	--	--	--	1357
10	Rough stone	68	68	68	68	68	68	68	68	74	--	--	--	618
11	Plastering	193	193	193	193	193	193	193	193	195	--	--	--	1739
12	Pointing	--	--	--	--	--	--	--	--	--	--	--	--	--
13	Trimming	--	--	--	--	--	--	--	--	--	--	--	--	--

AMARAVATHI SUB BASIN – PACKAGE No:20 / ASB / NCB / 2011-12

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 m3	STEEL IN M.T.	METAL 40MM IN m3	METAL 20MM IN m3	RR IN m3	GRAVEL IN m3	FUEL
PACKAGE No: 20 / ASB / NCB / 2011-12	4	4	4	16 26	4	7	7	209 7	4591	2.56	6023	2155	8291	400	

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

COST TABLE

I – TANK COMPONENT

Sl No		Component	Qty		Amount in Lakhs
I		**Tank Bund Improvement**			
		Earthwork for bund, Retaining wall, Model Section, Steps	401641 (17.6537 Km)	M3	151.91
II		**Improvement to Sluices**			0
1		**Reconstruction**			0
	a	Tower Head	-	nos	0
	b	Wing Wall	-	nos	0
2		**Repair**			0
	a	Tower Head	35	nos	254.50
	b	Wing Wall	-	nos	0
3		Well syphon			0
III		**Improvements to Weir**			0
1		Reconstruction	-	no	0
2		Repair	11	nos	11.95
IV		**Model section arrangements**	26	Nos.	26.77
1		**Sluice**			0
	a	SG Plug	-	nos	0
	b	SG Shutter	-	nos	0
2		**Weir**			0
	a	SG Shutter in scour vents	-	Nos	0
3		**Anicut**			0
		Anicut shutter	-		0
		Head sluice shutter	-	Nos	0
V		**Supply Channel Improvement**			0
1	a	Earthwork for bund			0
2	b	Retaining Wall	46195	m	76.37
VI		**River Training**			0
1		**Anicut**			0
	a	Repair	-	nos	0
VII		In Tank Bed			0
		Measuring Devices	37	Nos	4.24
					0
		Total cost of Civil Works			**525.74**
VIII		Provisions for Contingencies, labour benefit fund, advertisement charges, documentation charges, photographs etc.@ 2.80 %			
		Total for provisions			**14.26**
		Total Amount			**540.00**
IX		**Environmental Cell Activities**			
		Total Amount			**540.00**

II – NON TANK COMPONENT ….. NIL

B. WRO COST TABLE

Sl.No	Description of Work	Quantity	Amount in Lakhs	Remarks
1. Tank Component				
1	Strengthening Tank bund	401641 m3 (17.653 Km)	151.91	
2	Repairs to sluices	33 Nos.	253.77	
3	Repairs to Weir	11 Nos.	11.95	
4	Measaring device	37 Nos.	4.24	
5	Rehabilitation of Supply channels	46195 m3 (15.365 Km)	76.37	
6	Model section	26 Nos.	26.77	
	Sub total		**525.01**	
7	Provisions for Contingencies, labour benefit fund, advertisement charges, documentation charges, photographs etc.,@ 2.80%		**14.99**	
	Total for Lumpsum Provision		**14.99**	
	Total		**540.00**	
2 . Non Tank Component			**-**	
	Environment cell		**-**	
	Ground water		**-**	
	Total		**540.00**	

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

C.(PHYSICAL AND FINANCIAL PROGRAM)

Sl. No.	Description	I Year			II Year			Total		
		Quantity		Amount Rs.	Quantity		Amount Rs.	Quantity		Amount Rs.
1	Strengthening Tank bund	200820.50	m3	75.00	200820.50	m3	76.91	401641.00	m3	151.91
2	Repairs to Sluices	16.50	Nos.	125.00	16.50	Nos.	128.77	33	Nos.	253.77
3	Repairs to Weir	5.50	Nos.	5.50	5.50	Nos.	6.45	11	Nos.	11.95
4	Modal section	13.00	Nos.	13.00	13.00	Nos.	13.77	26	Nos.	26.77
5	Rehabilitation of supply channels	23097.50	m3	35.00	23097.50	m3	41.17	46195	m3	76.37
6	Measuring device	19	Nos.	2.28	18	Nos.	2.16	37	Nos.	4.24
	Total			**255.78**			**269.23**			**525.01**

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

Sl No	Description of Item	Working Months									Rainy season			Total
		1	2	3	4	5	6	7	8	9	10	11	12	13
	Earth work excavation													
1	Channel													
2	Bund	44000	44000	44000	44000	44000	44000	44000	44000	49641	--	--	--	401641
3	Gravel	35	35	35	35	35	35	35	35	39	--	--	--	319
4	Foundation										--	--	--	
	Concrete													
5	M 7.5 grade	120	120	120	120	120	120	120	120	124	--	--	--	1084
6	M 10 grade	450	450	450	450	450	450	450	450	265	--	--	--	3865
7	M 15 grade	20	20	20	20	20	20	20	20	26	--	--	--	186
8	M 20 grade	17	17	17	17	17	17	17	17	18	--	--	--	154
9	RR masonry	66	66	66	66	66	66	66	66	72	--	--	--	600
10	Rough stone	55	55	55	55	55	55	55	55	55	--	--	--	495
11	Plastering	135	135	135	135	135	135	135	135	141	--	--	--	1221
12	Pointing	--	--	--	--	--	--	--	--	--	--	--	--	--
13	Trimming	--	--	--	--	--	--	--	--	--	--	--	--	--

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

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 m3	STEEL IN M.T.	METAL 40MM IN m3	METAL 20MM IN m3	RR IN m3	GRAVEL IN m3	FUEL
AMARAVATHI SUB BASIN – PACKAGE No: 21 / ASB / NCB / 2011-12	4	4	4	1029	4	7	7	1201	2611	33.16	3448	1312	6094	319	

A. WRO COST TABLE

(Package - 22)

Sl. No	Description of work	Quantity	Amount in Lakhs	Remarks
	I. irrigation Channel			
a.	Canal Bund & Jeep Track Improvements	21230 M	13.78	
b.	Cross masonry repairs	7 Nos	20.94	
c.	Sluice Repairs/ Reconstructions	13 Nos	16.30	
d.	Weir Reconstructions			
e.	Weir Repairs			
f.	Anaicut Repairs			
g.	Head Sluice			
h.	Outlet			
i.	Construction of Retaining wall	14390 M	142.43	
j.	Supply cannel improvements			
k.	Lining of irrigation channels			
l.	Measuring Devices (V Notches/ CTF.(cut throat Fluwe)			
	Sub Total		193.45	
	LS Provisions			
	Provisions for labour welfare fund, PS charges, contingencies, Advertisement charges, Documentation Charges, Name board, Photographic charges at 2.80%		4.55	
	Total		**198.00**	

A.(PHYSICAL AND FINANCIAL PROGRAM)

Package – 22 (uppar)

Sl. No.		Description	I Year		II Year				
			Qty	Amt in Lakhs	Qty	Amt in Lakhs	Qty		Amt in Lakhs
I		**Canal bank Improvements**							
	1	Earthwork for Bund	**2000**	**1.84**	**19230**	**11.94**	**21230 M**		**13.78**
II		**Improvement of sluices**							
	1	Repair	**--**	**--**	**13**	**16.30**	**13 Nos.**		**16.30**
III		**C.R. Works**							
	1	Repair	**--**	**--**	**7**	**20.94**	**7 Nos.**		**20.94**
IV		**Lining Channel**	**--**	**--**	**14390**	**142.43**	**14390 M**		**142.43**
V		**Provision for Labour Welfare, unforeseen items, Advertisement charges, Photographic Charges**				**4.55**			**4.55**
		Total		**1.84**		**196.16**			**198.00**

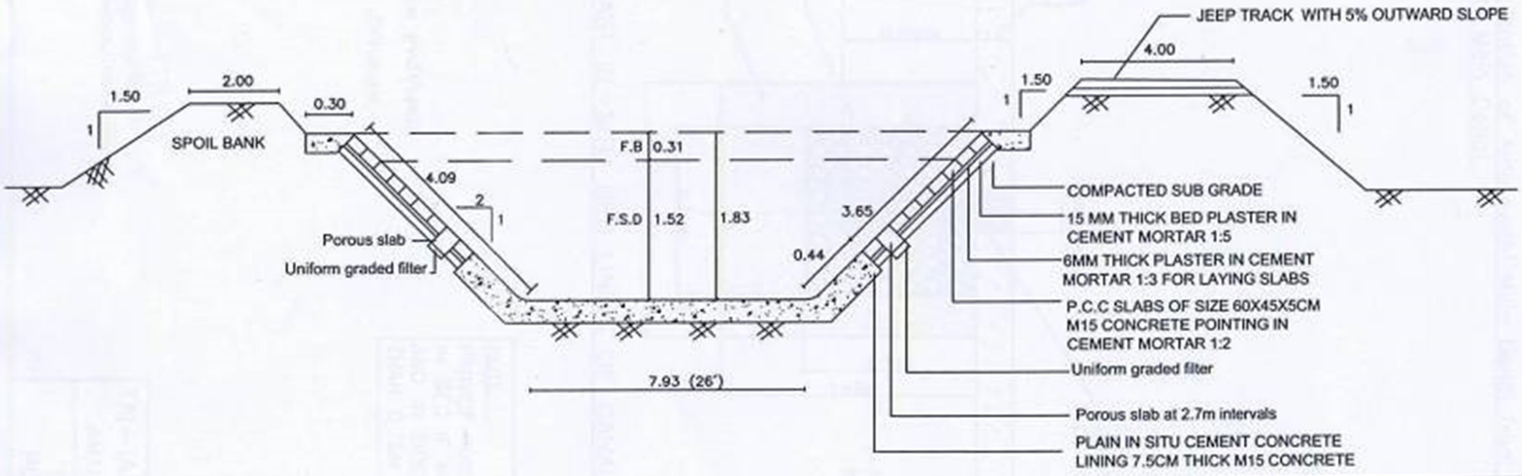
PACKAGE- 22 (uppar)
Construction methodology

Sl No	Description of Item	Working Months															Total
									IRRIGATION SEASON								
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	Earth work excavation																
1	Bund	--	--	2000	1500	2000	4500	3000	3000	1230	--	--	--	--	2000	2000	21230
2	Channel	--	--	--	600	1300	2400	2400	700	770	--	--	--	--	600	600	9370
3	Foundation	--	--	--	100	100	100	100	80	40	--	--	--	--	--	130	650
	Concrete																
4	M 10 grade	--	--	--	30	50	30	30	20	29	--	--	--	--	--	-	189
5	M 15 bed sleeper 20mm	--	--	--	20	20	20	30	20	16	--	--	--	--	--	-	126
6	M15 cast in bed concrete 20mm lining	--	--	--	2000	6000	4000	4000	4000	6000	--	--	--	--	7000	6770	39770
7	R.R.	--	--	--	100	200	250	250	250	150	--	--	--	--		115	1345
8	Precast Slab lining				400	600	1000	1000	1000	800						940	5740

5 Nos	Hydraulic excavator (± 0.90Cum)	1	AMARAVATHI SUB BASIN PAKCAGE NO.22(uppar) Requirement of Construction Equipments and Materials
NIL -	Hydraulic Excavator with steel plate attachment (for compaction of earth fill on slopes of tank bund)	2	
18 Nos	Tippers/Lorries(8 to 10 Tonne)	3	
1 Nos.	Power Rollers/Vibratory Power Roller	4	
4 Nos	Water Tankers(Truck Mounted of ± 10000 Liters)	5	
1 No.	Pneumatic Tampers/Earth Rammers	6	
1 No.	Air Compressors (±300cfm)	7	
1 No.	Plate Vibrators	8	
2 Nos.	Dozer (D6 or equivalent)	9	
8 Nos	Mechanical Concrete mixers 14/10 cft, 10/7 cft	10	
5 No.	Concrete vibrators	11	
2940 MT	Cement	12	
4675Cum	Sand	13	
NIL	Steel	14	
NIL	Metal 40mm	15	
8071Cum	Metal 20mm	16	
1430 Cum	Rough Stone Masonry	17	
NIL	Gravel	18	

DRAWINGS

AMARAVATHI MAIN CANAL
TYPICAL CANAL CROSS SECTION PROPOSED BED & SIDE LINING
REACH 0 - 12.500KM



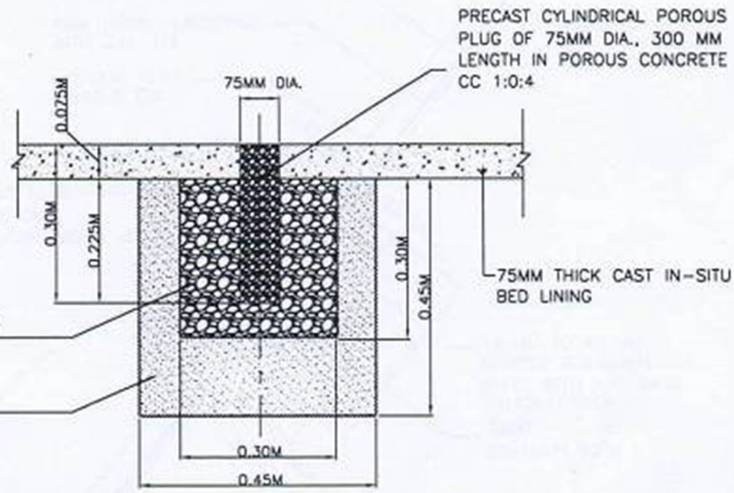
IAMWARM PROJECT
AMARAVATHI SUB BASIN
TYPICAL CANAL CROSS SECTION - PROPOSED BED & SIDE LINING

DIMENSIONS ARE IN METERS

EXECUTIVE ENGINEER PWD/WRD,
AMARAVATHI BASIN DIVISION,
KARUR.

Chief Engineer W.R.D.
Coimbatore Region, Coimbatore-1.

Name of work : Rehabilitation of Amaravathi Main Canal from LS 0 KM to 12.500KM of Amaravathi Main Canal.



POROUS PLUG IN CAST IN-SITU BED LINING OF CANAL

NOTE :
PROVIDE POROUS PLUGS @ 2.70M C/C IN BED IF WIDTH IS MORE THAN 1M AND IN SIDES IF F.S.D. IS MORE THAN 0.75M

04/2/11
EXECUTIVE ENGINEER PWD/WRD,
AMARAVATHI BASIN DIVISION,
KARUR.

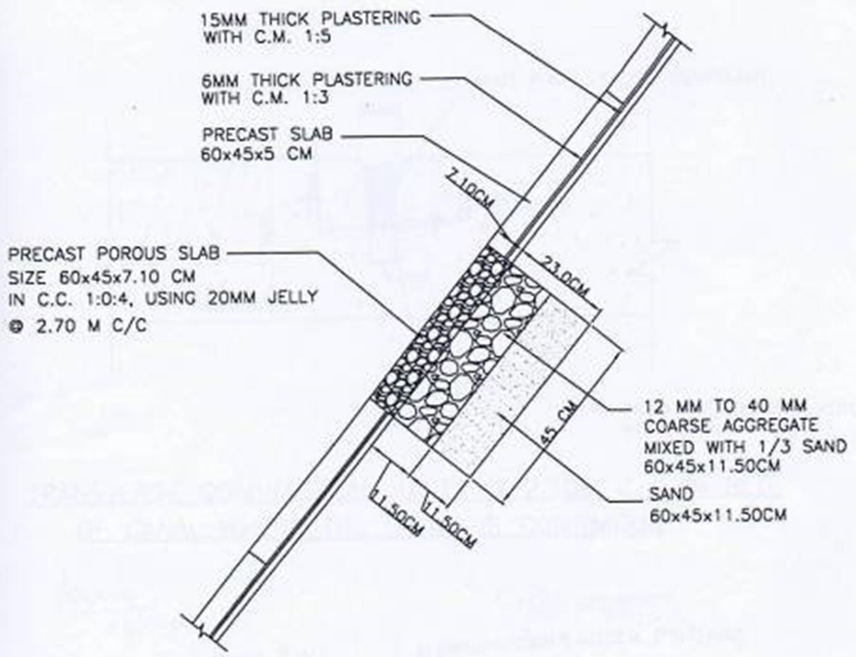
Chief Engineer W.R.D.
Coimbatore Region, Coimbatore-1.

(NTS)

TN-IAMWARM PROJECT
AMARAVATHI SUB BASIN

DETAILS OF POROUS PLUG

Name of work : Rehabilitation of Amaravathi Main Canal from LS 0 KM to 12.500KM of Amaravathi Main Canal.



DRAINAGE RELIEF ARRANGEMENT USING PRECAST POROUS SLAB IN PRECAST SLAB LINING OF CANAL

04/12/11
Asst. Exe. Engineer PWD,
Amaravathi Nagar

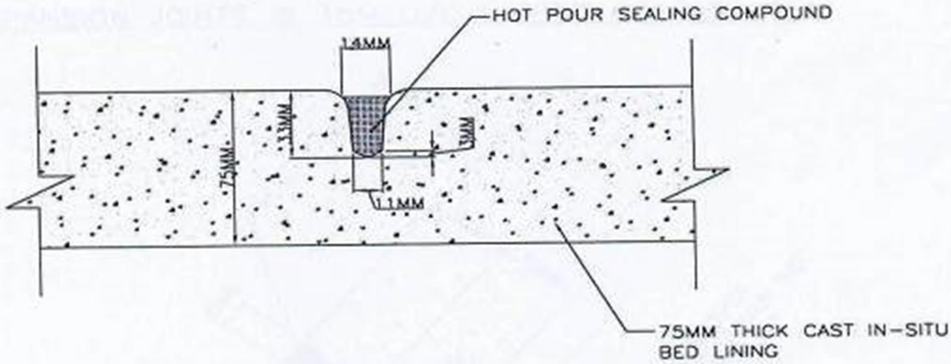
04/12/11.
EXECUTIVE ENGINEER PWD/WRD,
AMARAVATHI BASIN DIVISION,
KARUR.

(NTS)

10/12/11
Chief Engineer W.R.D.
Coimbatore Region, Coimbatore-4.

TN–IAMWARM PROJECT AMARAVATHI SUB BASIN
DETAILS OF POROUS SLAB

Name of work : Rehabilitation Amaravathi Main Canal from LS 0KM to 12/500KM.



TRANSVERSE CONTRACTION JOINTS @ 2.70M C/C IN BED OF CANAL WHERE THE LINING IS CONTINIOUS

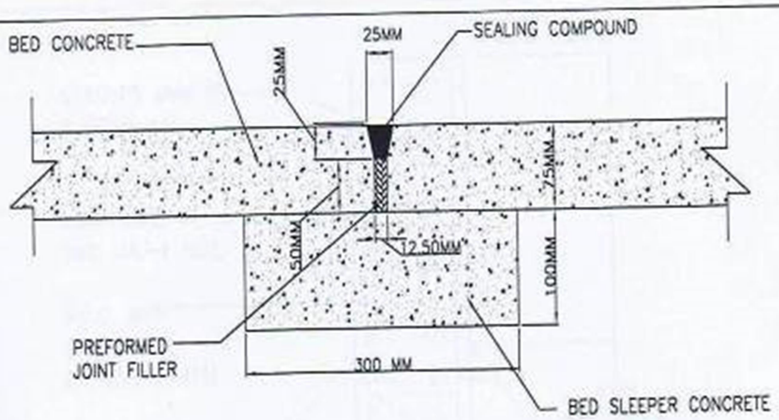
04/12/11
Asst. Ex. Engineer, PWD,
Amaravathi Nagar.

04/12/11.
EXECUTIVE ENGINEER PWD/WRO
AMARAVATHI BASIN DIVISION,
KARUR.

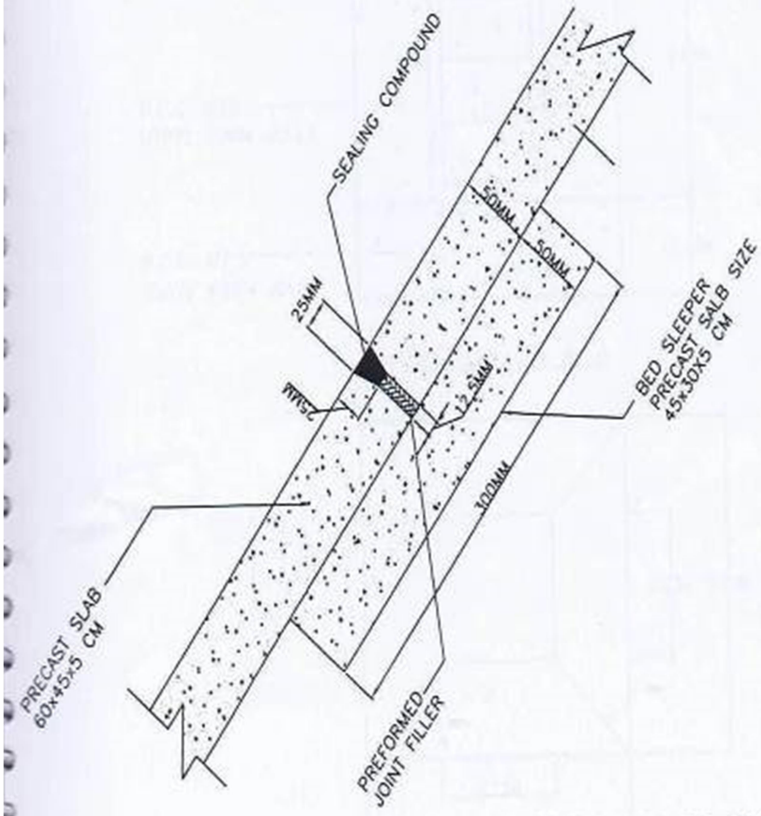
(NTS)

Chief Engineer W.R.D.
Coimbatore Region, Coimbatore-1.

TN–IAMWARM PROJECT AMARAVATHI SUB BASIN
DETAILS OF TRANSVERSE CONTRACTION JOINT



EXPANSION JOINTS @ 15M C/C IN BED OF CANAL



EXPANSION JOINTS @ 15M C/C IN SIDE SLOPE OF CANAL

04/12/11
Asst. Exe. Engineer, PWD,
Amaravathi Nagar.

04/12/11.
EXECUTIVE ENGINEER PWD/WRD
AMARAVATHI BASIN DIVISION,
KARUR.

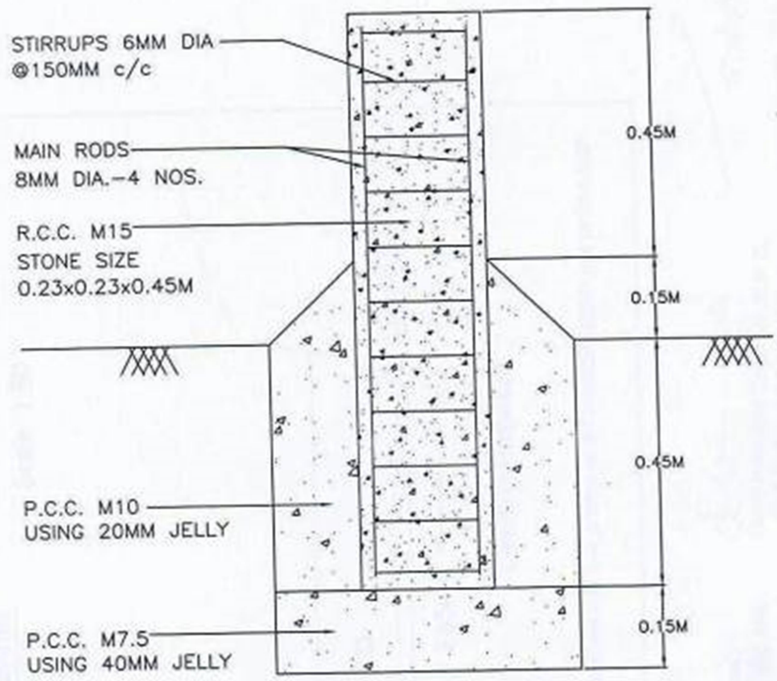
Chief Engineer W.R.D.
Coimbatore Region, Coimbatore.

(NTS)

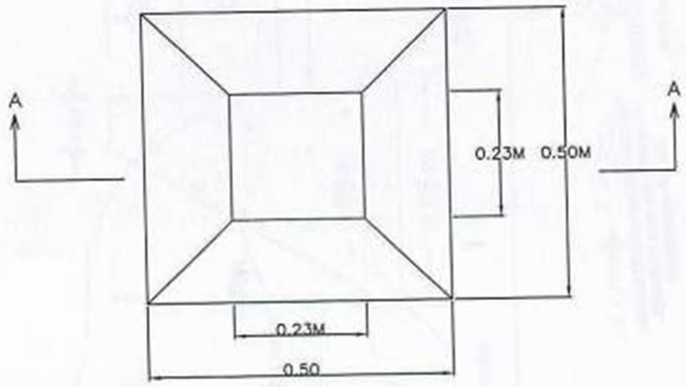
Name of work : Rehabilitation Amaravathi Main Canal from LS 0KM to 12/500KM.

TN-IAMWARM PROJECT
AMARAVATHI SUB BASIN

DETAILS OF EXPANSION JOINTS



SECTION ON A-A



PLAN

04/12/11
AEE Exe. Engineer, PWD,
Amaravathi nagar.

EXECUTIVE ENGINEER PWD/WRD
AMARAVATHI BASIN DIVISION
KARUR.

Chief Engineer W.R.D.
Coimbatore Region, Coimbatore-1.

(NTS)

Name of work : Rehabilitation of Amaravathi Main Canal from LS 0 KM to 12.500 KM of Amaravathi Main Canal.

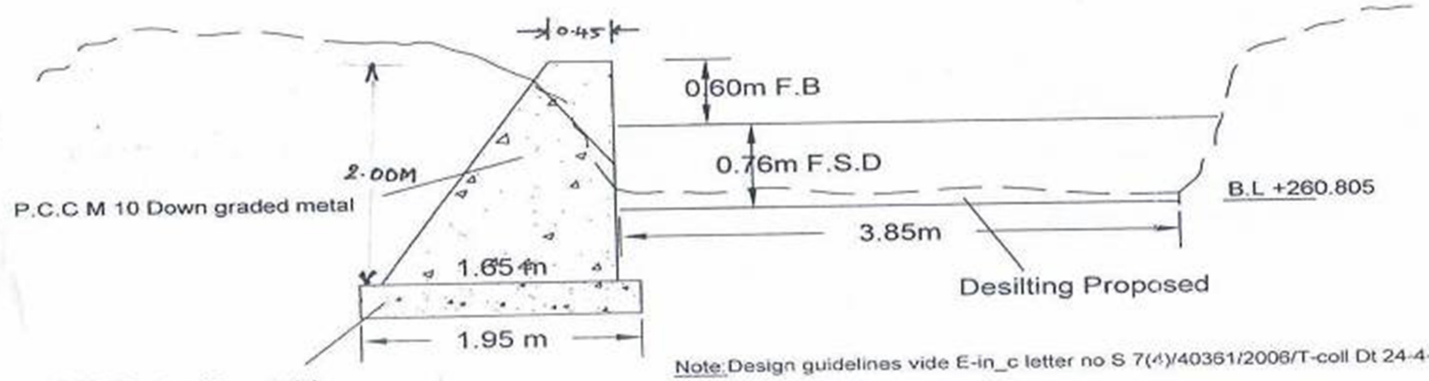
TN-IAMWARM PROJECT
AMARAVATHI SUB BASIN

DETAILS OF
DEMARCATION STONES

Package No 9/ASB/NCB/2011-12

Typical Cross section of Concrete protection wall @L.S. 2.65 KM
In Alangium old Channel

Scale 1:50



Note: Design guidelines vide E-in_c letter no S 7(4)/40361/2006/T-coll Dt 24-4-2007

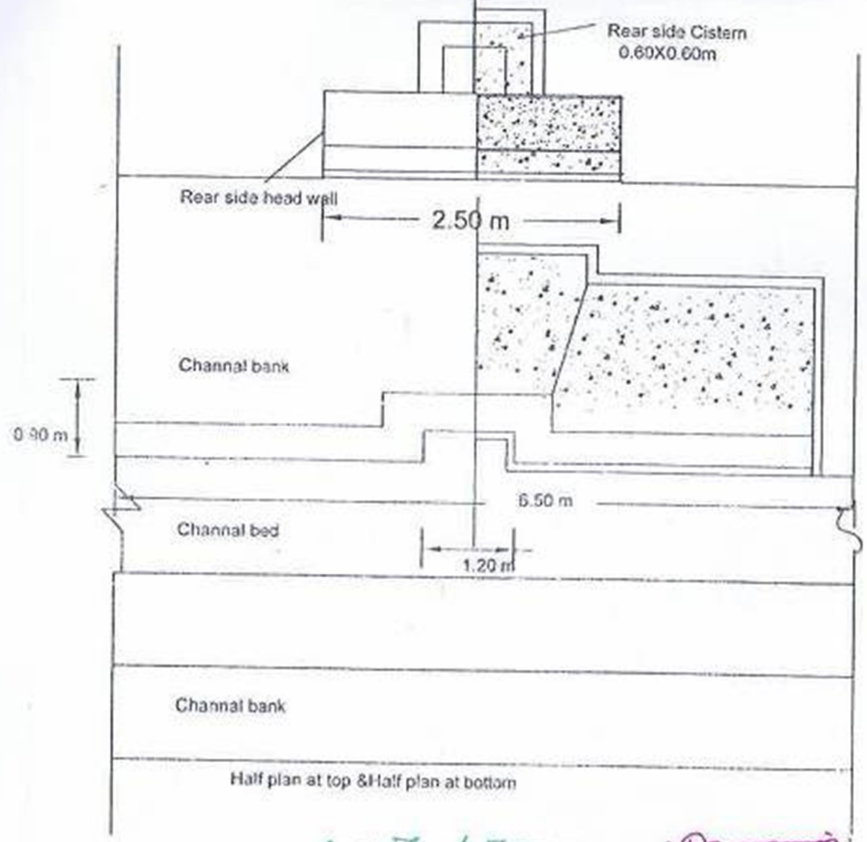
ASSISTANT EXECUTIVE ENGINEER P.W.D. W.R.
AMARAVATHI BASIN SUB DIVISION - IV
DHARAPURAM - 638 656.

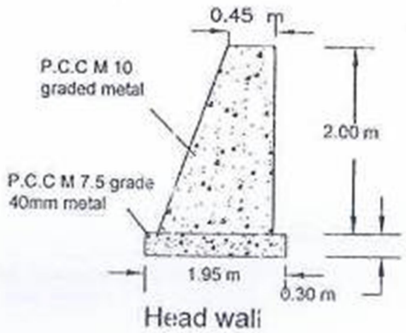
EXECUTIVE ENGINEER PWD. WRD.,
Amaravathi Basin Division,
KARUR.

Superintending Engineer, P.W.D.
W.R.O. Special Project Circle
PALANI - 624 601

Chief Engineer, W.R.O.
Coimbatore Region, P.W.D.
Coimbatore-641 001

Typical cross section for Reconstruction of Irrigation Sluice in Alangium channel @ L.S 4.92Km





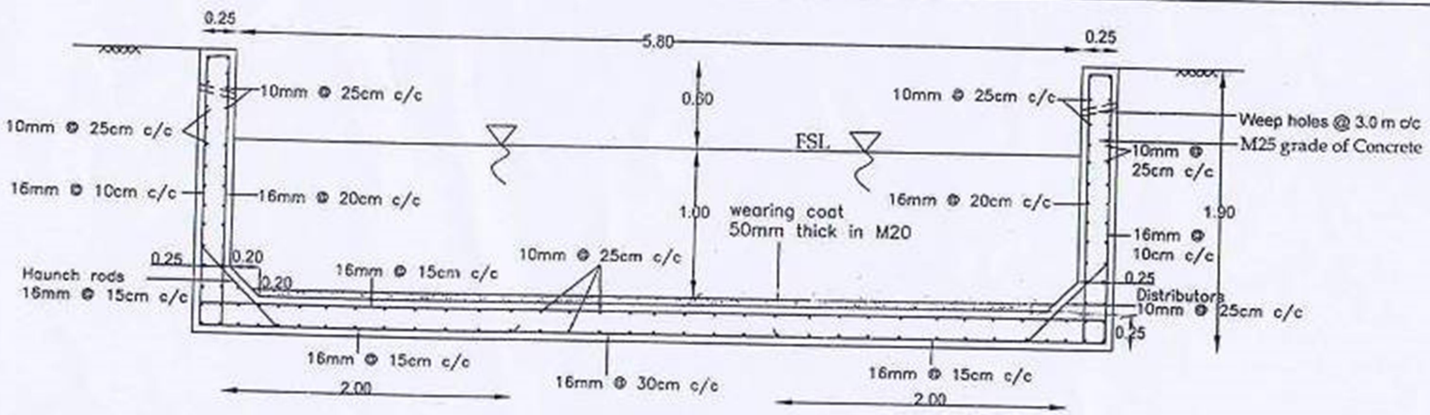
Note : Design Guidelines vide E-in-CE Lr no s7(4)/40361/2006/T-coll Dt 24-4-2007

ASSISTANT EXECUTIVE ENGINEER
AMARAVATHI BASIN SUB DIVISION - IV
DHARAPURAM - 638 656.

EXECUTIVE ENGINEER PWD. WRD.,
Amaravathi Basin Division,
KARUR.

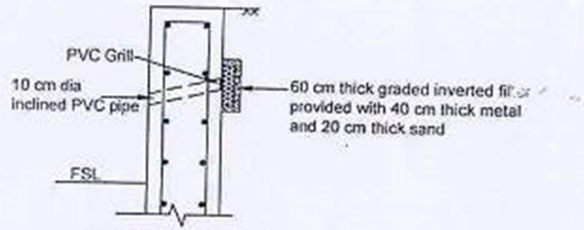
Superintending Engineer, P.W.D,
W.R.O. Special Project Circle
PALANI - 624 601

Chief Engineer. W.R.O.
Coimbatore Region, P.W.D.
Coimbatore-641 001



REACH I (L.S. 0 km to L.S. 3.1 km)

(Scale 1 : 40)



Details of Weep Hole
(Scale 1 : 20)

Sheet No. 1 / 3

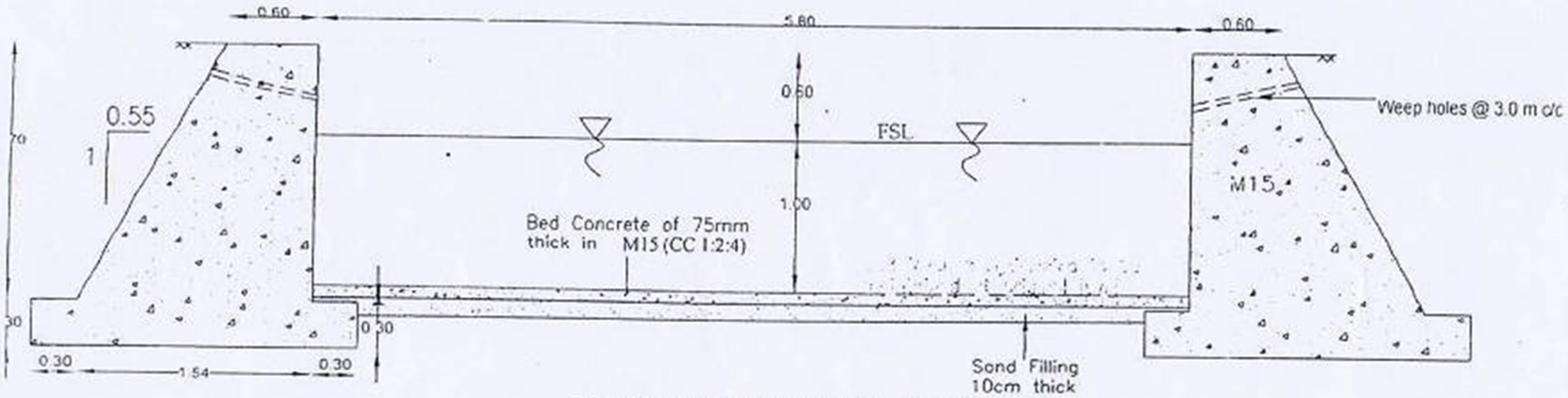
Hydraulic Particulars	
REACH	I
LS in km	0 km - 3.1 km
Discharge	146.2 cusecs
Bed width	5.80 m
Bed Slope	1 in 4065
Full Supply Depth (FSD)	1.0 m
Free board	0.60 m

Notes:

1. All dimensions are in metre unless otherwise specified.
2. This drawing supercedes the T. no. 136 / 2011
3. This drawing shall be read along with the series of T. no. 137 / 2011 to T. no. 139 / 2011

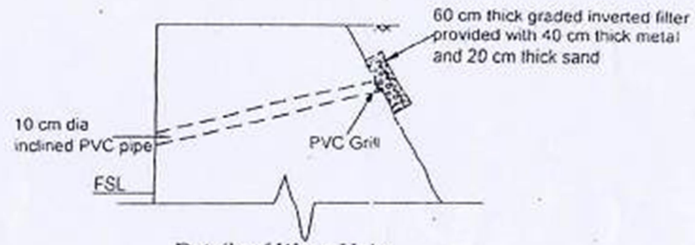
GOVT. OF TAMILNADU
PUBLIC WORKS DEPARTMENT
OFFICE OF THE SUPERINTENDING ENGINEER,
DESIGNS CIRCLE, WRO, CHENNAI – 600 005

Designed by Er. J. John Devakumar, AE		Name of work : Rehabilitation of Left Main Canal from L.S. 0 m to L.S. 8100 m of Palar Porundalar system in Palani taluk of Dindigul district
Drawn by Er. G. Jackulin Carmela, AE		
Checked by Er. S. Muthu parvatha Vardhini, AEE		
Verified by Er. K. Padmanabhan, EE (D) Er. V. Thiyagarajan, Dy SE		Designed drawing of : Cross Section and Reinforcement details of the Trough in Reach I (L.S. 0 km to 3.1 km).
Recommended by Er. D. Arumugam, SE (D)		
Approved by Er. S. Anbazhagan, CE (DR&CS)		Region: Coimbatore / Circle : Spl Project Circle, Palani
T.NO: 137 / 2011	Scale 1 : 40	Approved by CE (DR&CS) in Lr No. 292 / CE (DR&CS) / SE(D) / AEE V / 1722 / 2011 dated 29.11.2011



REACH II & III (L.S. 3.1 km to L.S. 8.1 km)

(Scale 1 : 40)



Details of Weep Hole
(Scale 1 : 20)

Sheet No. 2 / 3

Hydraulic Particulars		
REACH	II	III
LS in km	3.1 km - 6.6 km	6.6 km - 8.1 km
Discharge	146.2 cusecs	128.66 cusecs
Bed width	5.80 m	5.80 m
Bed Slope	1 in 4065	1 in 5280
FSD	1.0 m	1.0 m
Freeboard	0.60 m	0.60 m

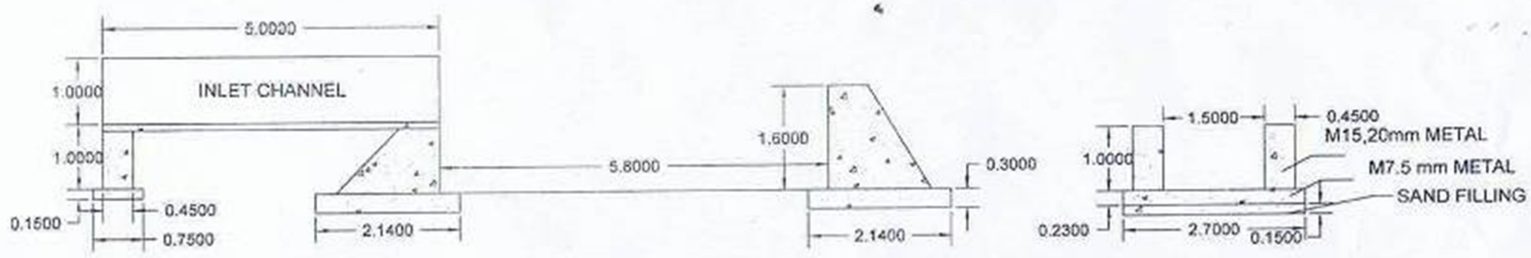
Notes:

1. All dimensions are in metre unless otherwise specified.
2. This drawing supercedes the T. no. 136 / 2011
3. This drawing shall be read along with the series of T. no. 137/ 2011 to T. no. 139/ 2011

GOVT. OF TAMILNADU
PUBLIC WORKS DEPARTMENT
OFFICE OF THE SUPERINTENDING ENGINEER,
DESIGNS CIRCLE, WRO, CHENNAI - 600 005

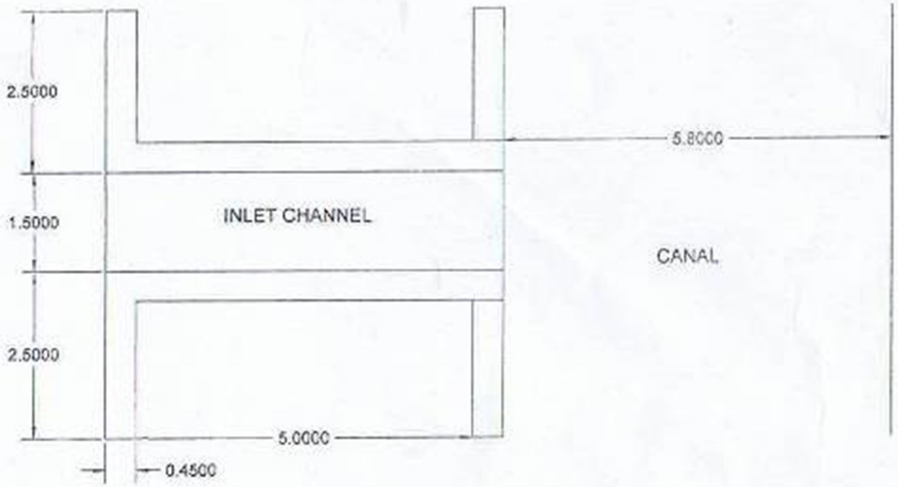
Designed by Er. J. John Devakumar, AE		Name of work: Rehabilitation of Left Main Canal from L.S. 0 m to L.S. 8100 m of Palar Porundalar system in Palani taluk of Dindigul district
Drawn by Er. G. Jackulin Carmela, AE		
Checked by Er. S. Muthu parvatha Vardhini, AEE		
Verified by Er. K. Padmanabhan, EE (D) Er. V. Thivagarajan, Dy SE		Designed drawing of: Cross Section of Retaining wall with bed lining in Reach II and Reach III (L.S. 3.1 km to L.S. 8.1 km)
Recommended by Er. D. Arumugam, SE (D)		
Approved by Er. S. Anbazhagan, CE (D&CS)		Region: Coimbatore; Circle: Spl Project Circle, Palani
T.NO: /2011	Scale 1 : 40	Approved by CE (D&CS) in Lr No. /CE (D&CS)

INLET TO BE PROVIDED AT LS 3500,4020 & 4700 m OF LMC IN PALAR PORUNDALAR SYSTEM



LONGITUDINAL SECTION

CROSS SECTION OF INLET

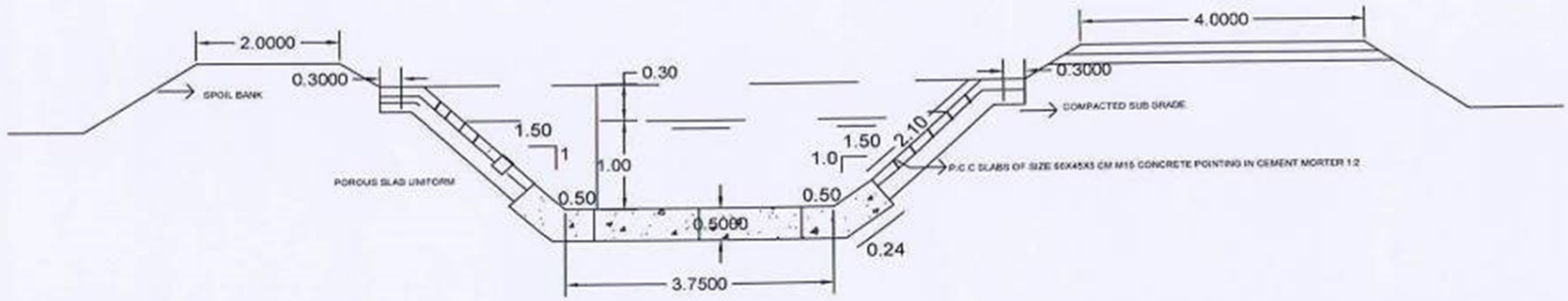


PLAN FOR INLET TO CANAL

041211.
EXECUTIVE ENGINEER PWD/WRD,
AMARAVATHI BASIN DIVISION,
KARUR.

Chief Engineer W.R.D.
Coimbatore Region, Coimbatore-1.

PALAR PORUNDALAR LEFT MAIN CANAL
TYPICAL CANAL CROSS SECTION
REACH 13.000 - 16.380 KM

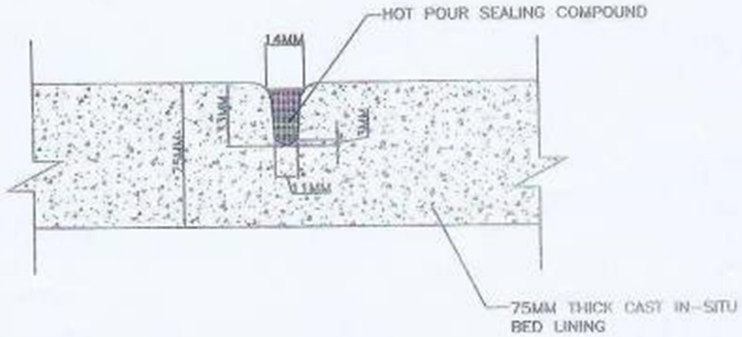


NOT TO SCALE
DIMENSIONS ARE IN METERS

Chief Engineer W.R.D.
Coimbatore Region, Coimbatore-1.

Assistant Executive Engineer, PWD, WRO
Palani Sub Division
Palani

Name of work : Rehabilitation of Left Main Canal from LS 8.100KM to 40.520 KM of Polar Porundalar System



TRANSVERSE CONTRACTION JOINTS @ 2.70M C/C IN BED OF CANAL WHERE THE LINING IS CONTINIOUS

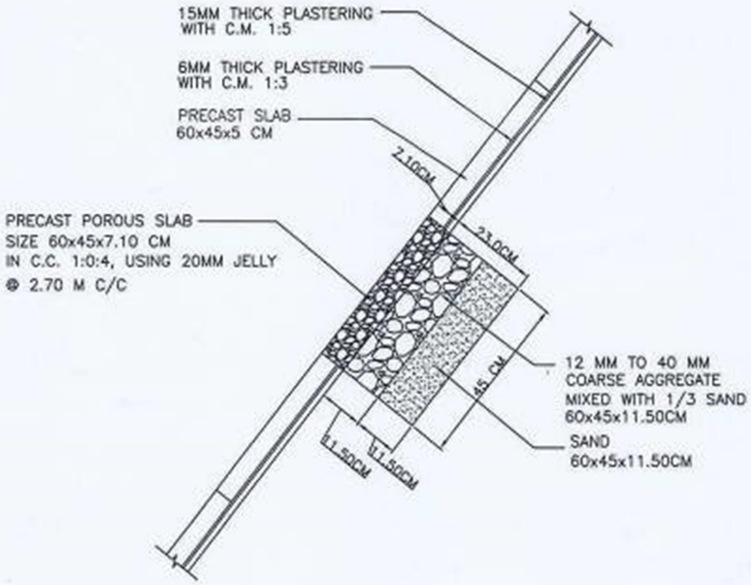
Assistant Executive Engineer, PWD, WRD
Palani Sub Division
Palani

(NTS)

Chief Engineer W.R.D.
Coimbatore Region, Coimbatore-1.

TN–IAMWARM PROJECT AMARAVATHI SUB BASIN
DETAILS OF TRANSVERSE CONTRACTION JOINT

Name of work : Rehabilitation of Left Main Canal from LS 8.100 KM to 40.520KM of Palar Porundalar System



DRAINAGE RELIEF ARRANGEMENT USING
PRECAST POROUS SLAB IN PRECAST SLAB LINING OF CANAL

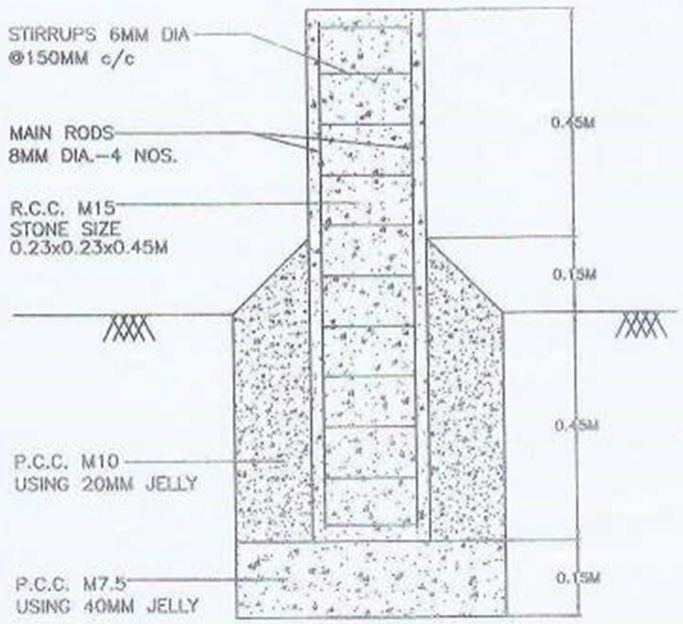
Assistant Executive Engineer, PWD, WRD
Palani Sub Division
Palani

Chief Engineer W.R.D.
Coimbatore Region, Coimbatore-1.

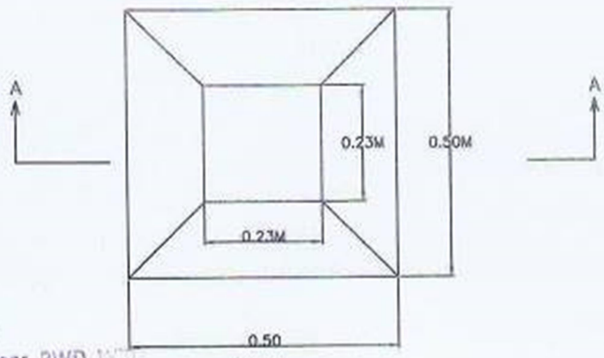
(NTS)

TN–IAMWARM PROJECT
AMARAVATHI SUB BASIN

DETAILS OF
POROUS SLAB



SECTION ON A–A



PLAN

Assistant Executive Engineer, PWD, WRD
Palani Sub Division
Palani

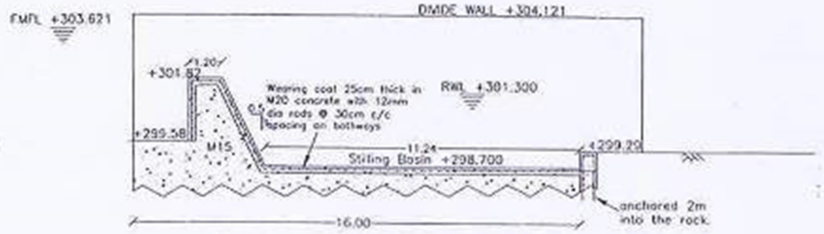
Chief Engineer W.R.D.
Coimbatore Region, Coimbatore-1.

(NTS)

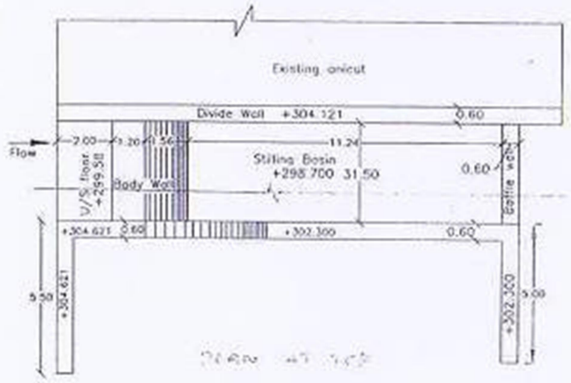
Name of work : Rehabilitation of Left Main Canal from LS 0 KM to 40.520 KM of Palar Porundalar System

TN–IAMWARM PROJECT
AMARAVATHI SUB BASIN

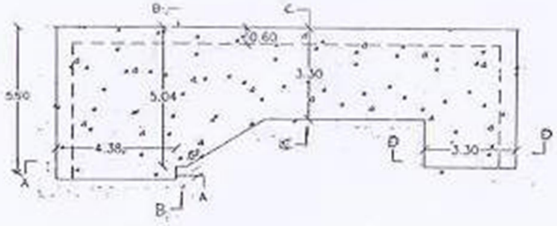
DETAILS OF
DEMARCATION STONES



CROSS SECTION OF ANICUT



PLAN AT TOP



FOUNDATION PLAN FOR RIGHT ABUTMENT WINGS & RETURNS

All dimension are in 'm' unless or otherwise specified.

This drawing should be read with the series of drawings T No.140/2011 to T No 141 /2011

HYDRAULIC PARTICULARS

1) M.F.D	764.55 cumecs or 27000 cusecs
2) MFD for Breached Portion	134.08 cumecs or 4735 cusecs
3) Crest level	+301.820 m
4) FWL	+303.621 m
5) RWL	+301.300 m
6) Total length of anicut	186 m
7) Length of breached portion	31.50m
8) U/S bed level	+299.580 m
9) D/S bed level	+299.290 m
10) D/S Basin level	+298.700 m
11) Bed slope	1 in 1000

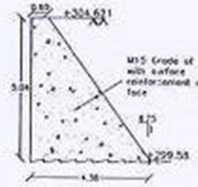
SHEET NO: 1 / 2

GOVT. OF TAMILNADU
PUBLIC WORKS DEPARTMENT
OFFICE OF THE SUPERINTENDING ENGINEER,
DESIGNS CIRCLE, WRO, CHENNAI - 600 005

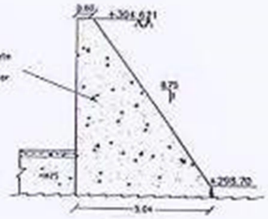
Designed & Drawn by Er. G. Jacklin Carmela, AE		Name of Work: Rehabilitation of the Kalaiamputhur anicut in the breached portion in Palar Porundalar system in Palani taluk of Dindugal District.
Checked by Er. S. Muthu parvatha Vardhini, AEE		Designed drawing of: Cross section and plan of the anicut with foundation details
Verified by Er. K. Padmanabhan, EE (D) Er. V. Thiyagarajan, Dy.SE		
Recommended by Er. D. Arumugam, SE (D)		
Approved by Er. S. Anbazhagan, CE (DR&CS)		
T.NO: 140 /2011	Scale 1 : 150	Approved by CE (DR&CS) in L.Nr. 293 CE (DR&CS) / SE(D) / AEE VI / F 72 / 2011 dated 25.11.2011

GENERAL NOTES:

1. The design has been prepared based on IS 12720-1993, IS 6531-1994, IS 13551-1992.
2. The design has been formulated based on the particulars furnished by the Superintending Engineer, PWD, Special Project Circle, WRO, Palani during inspection of site on 18.11.2011 and subsequently by fax on 23-11-2011.
3. The anicut is proposed to rest on rock.
4. The existing bed slope is in the order of 1 in 50 as per the furnished details and in order to protect the anicut, drops have to be provided for the entire width of the river at suitable locations in the downstream side to negotiate the fall upto the level where the slope is flat with velocity not exceeding the permissible limits of the soil.
5. The slope of the downstream bed is assumed as 1 in 1000. Hence the bed downstream shall be made up to form the slope.
6. The divide wall has been proposed to seperate the flow characteristics of the new anicut portion and old one.
7. The divide wall has been proposed monolithic with the new anicut and shall be seperated by means of the contraction joint with PVC water stop.
8. In order to propose protective measures on a long term basis for the heavy erosion that has occured downstream of the anicut. considering the damages seen in the downstream of the anicut during inspection of the site and considering the steep downstream slope of the river, it is suggested that the anicut will have to be reconstructed for the entire length in order to have effective functioning. In this regard, the sections evolved for the breached portion of the anicut may be extended for the remaining length of the anicut. In case of reconstruction of the entire length of anicut the provision of divide wall is to be dispensed with.
9. The parameters of backfill material for abutment & wings such as saturated unit weight and angle of internal friction have been assumed as 2.0 t/cum and 22° respectively.
10. The abutment, wings and returns have been designed for a levelled backfill (no Surcharge). Hence the banks are to be levelled upto the top of the walls for a distance equal to atleast the base width of the wall and maintained.
11. Weep holes with necessary filter arrangements should be provided at the upstream and downstream wingwalls above the FRWL and RWL respectively.
12. The Abutment, wings and return walls shall be founded on rock. Any minor disturbances occuring during excavation to the required levels shall be well compacted before founding the above structure. If any major changes are encountered, it shall be refferred for redesign.
13. The proposed length of upstream and downstream returns are tentative and may be modified to suit the site conditions.
14. Surface reinforcement at the rate of 2.5kg/m2 shall be provided in the water face of abutment wings, return walls and Pier in each direction. ie. both horizontally and vertically. Spacing of such bars shall not exceed 200mm.
15. Contraction Joints shall be provided at the junction of Abutment and downstream wing wall upto foundation Level.
16. The Divide wall and baffle wall shall be anchored into the rock.
17. The proposed downstream bed should be maintained periodically in order to protect the new anicut portion.
18. Minimum cover to the reinforcement shall be provided as 100mm.
19. Fe 415 grade steel is proposed.



SECTION A-A
U/S RETURN WALL &
U/S WINGWALL

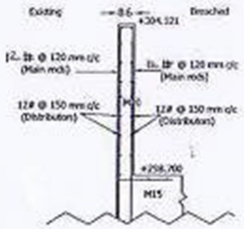


SECTION B-B
ABUTMENT &
D/S WINGWALL AT START

Contraction Joint

SECTION C-C
D/S WINGWALL AT END
& BASIN

SECTION D-D
D/S RETURN WALL



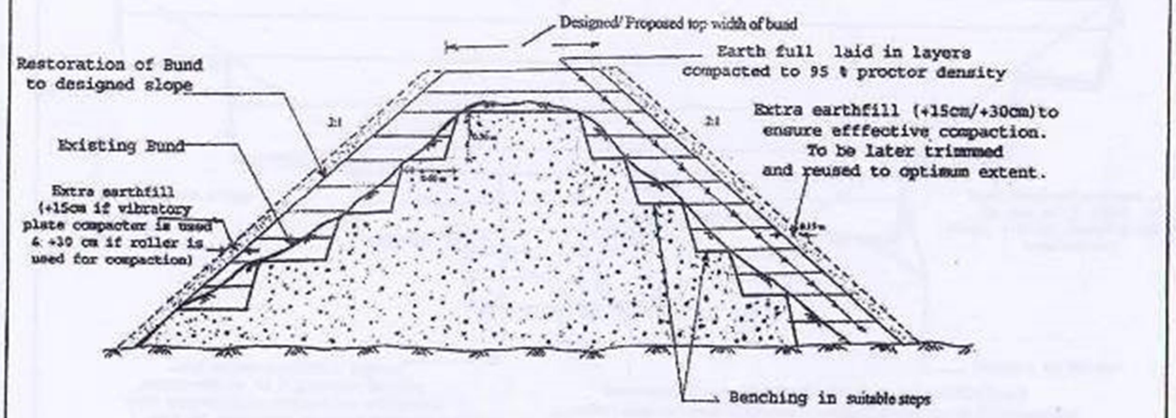
All dimension are in 'm' unless or otherwise specified.

This drawing should be read with the series of drawings T No. 140 /2011 to T No 141 /2011

SHEET NO: 2 / 2

GOVT. OF TAMILNADU PUBLIC WORKS DEPARTMENT OFFICE OF THE SUPERINTENDING ENGINEER, DESIGNS CIRCLE, WRO, CHENNAI - 600 005		
Designed & Drawn by Er. G. Jackulin Carmela, AE		Name of Work: Rehabilitation of the Kalaiampothur anicut in the breached portion in Palar Porundalar system in Palani taluk of Dindugal District.
Checked by Er. S. Muthu parvatha Vardhini, AEE		
Verified by Er. K. Padmanabhan, EE (D) Er. V. Thiyagarajan, Dy.SE		Designed drawing of: Cross section of abutment, u/s and d/s wing wall and return and general note
Recommended by Er. D. Arumugam, SE (D)		
Approved by Er. S. Anbazhagan, CE (DR&CS)		
T.NO: 141 /2011	Scale 1 : 150	Approved by CE (DR&CS) in Lr No. [illegible] CE (DR&CS) / SE(D) / AEE V1 / [illegible] / 2011 dated [illegible] 2011

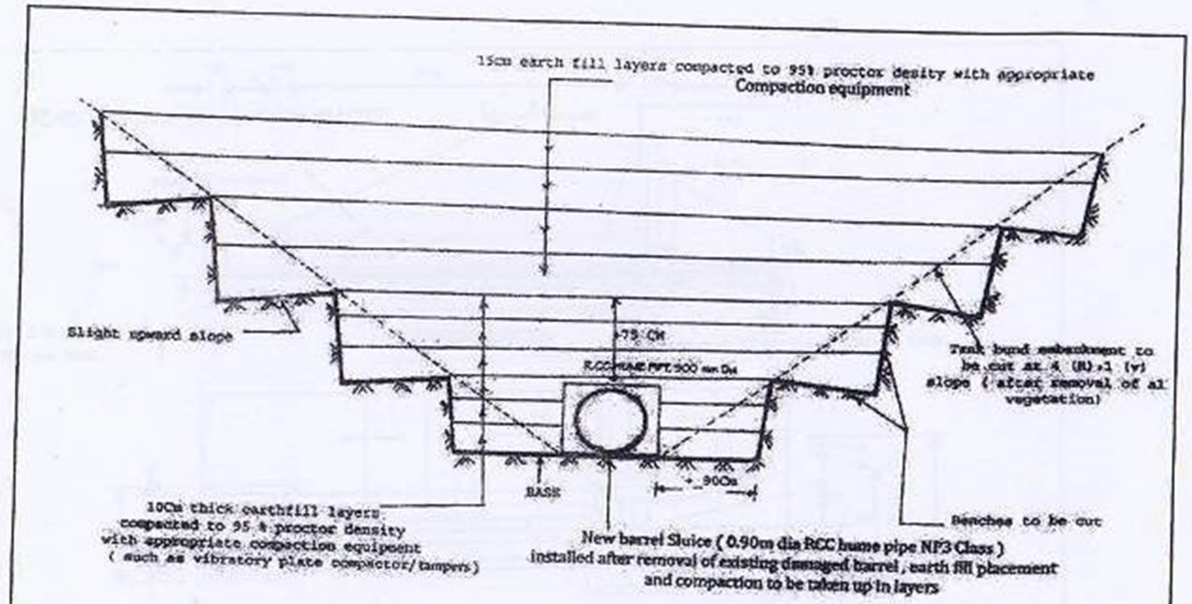
TYPICAL SKETCH FOR RAISING AND STRENGTHENING TANK BUND



TN IAMWARM Project
Amaravathy Sub Basin
Scale – Not to Scale

10/12/11
ASST. EXECUTIVE ENGINEER P.I.
KODAGANAR SUB DIVISION.
VEDASANDUR.

Chief Engineer W.R.D.
Coimbatore Region, Coimbatore-1.



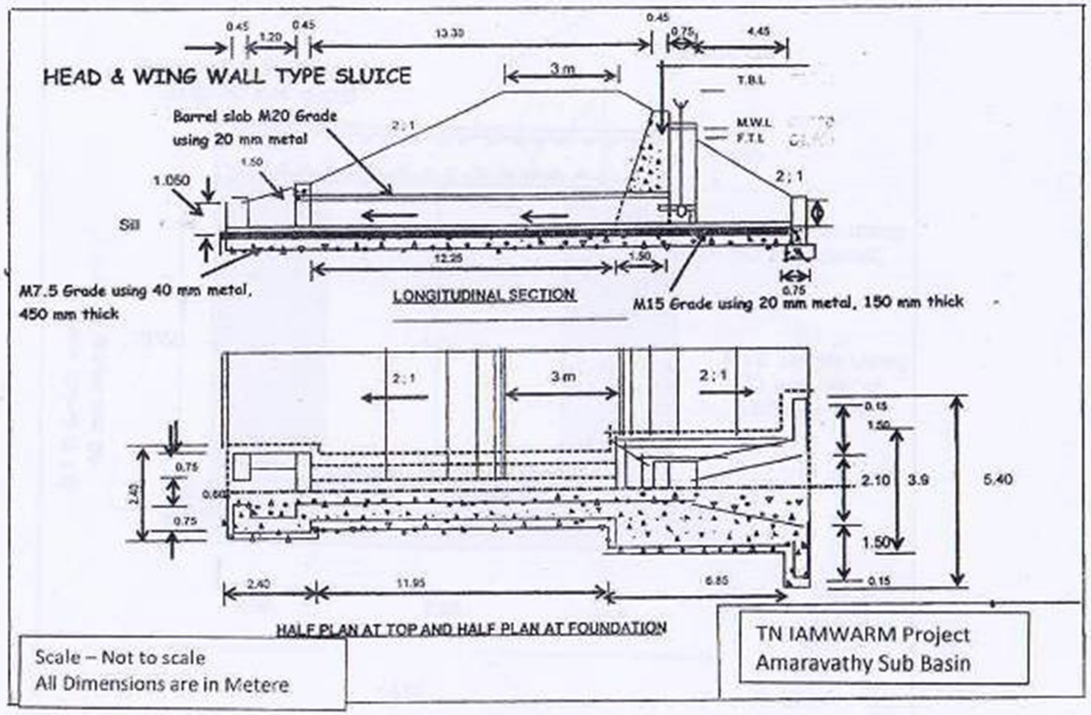
TYPICAL SKETCH FOR CUT OPEN TO TANK BUND FOR RECONSTRUCTION OF SLUICE

Scale – Not to Scale

TN IAMWARM Project
Amaravathy Sub Basin

10/12/11
ASST. EXECUTIVE ENGINEER PWD, WRO.
KODAGANAR SUB DIVISION,
VEDASANDUR.

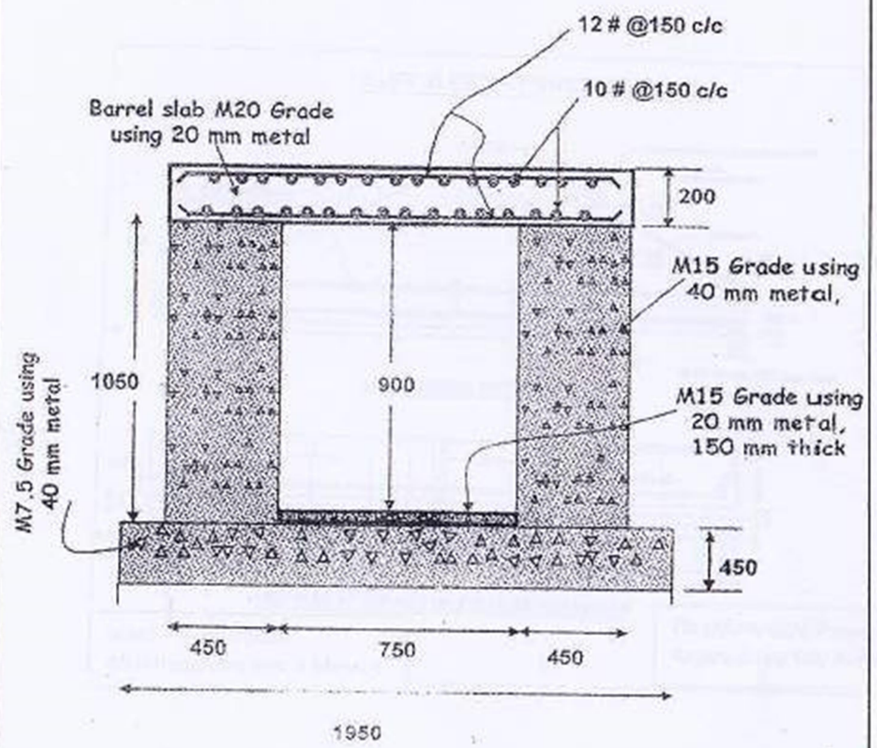
Chief Engineer W.R.D.,
Coimbatore Region, Coimbatore-1.



10/12/14
ASST. EXECUTIVE ENGINEER PWD. WRO
MODAGANAR SUB DIVISION.
VEDASANDUR.

Chief Engineer W.R.D.
Coimbatore Region, Coimbatore

TYPICAL CROSS SECTION OF SLUICE BARREL



Scale – Not to Scale
All dimensions are in MM

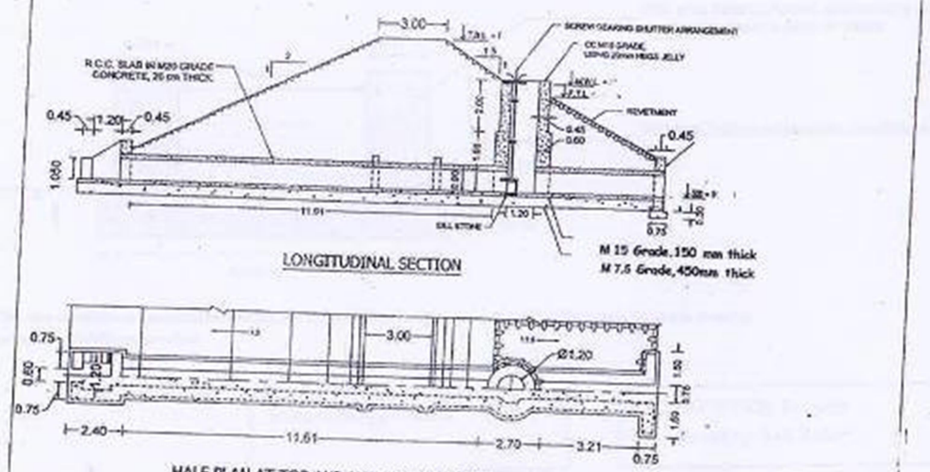
Nominal cover to steel reinforcements = 30 mm

TN IAMWARM Project
Amaravathy Sub Basin

10/12/11
ASST. EXECUTIVE ENGINEER PWD, WRO
KODAGANAR SUB DIVISION.
VEDASANDUR.

Chief Engineer W.R.D.
Coimbatore Region, Coimbatore-11

TANK SLUICE - TOWER HEAD TYPE



LONGITUDINAL SECTION

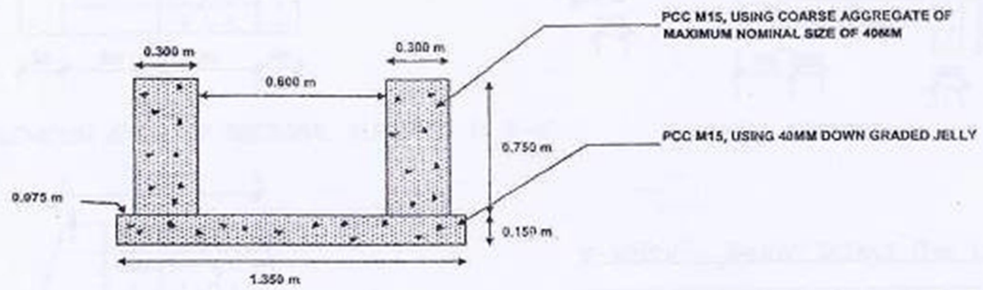
HALF PLAN AT TOP AND HALF PLAN AT FOUNDATION

Scale – Not to scale
All dimensions are in Metere

TN IAMWARM Project
Amaravathy Sub Basin

10/12/11
ASST. EXECUTIVE ENGINEER PWD, W
KODAGANAR SUB DIVISION.
VEDASANDUR.

CROSS SECTION OF LINED IRRIGATION CHANNEL



NOTE: In case the site conditions necessiate increase in the Channel Section, requisite modifications be made there in duly ensuring the stability of section

Scale – Not to Scale	TN IAMWARM Project Amaravathy Sub Basin

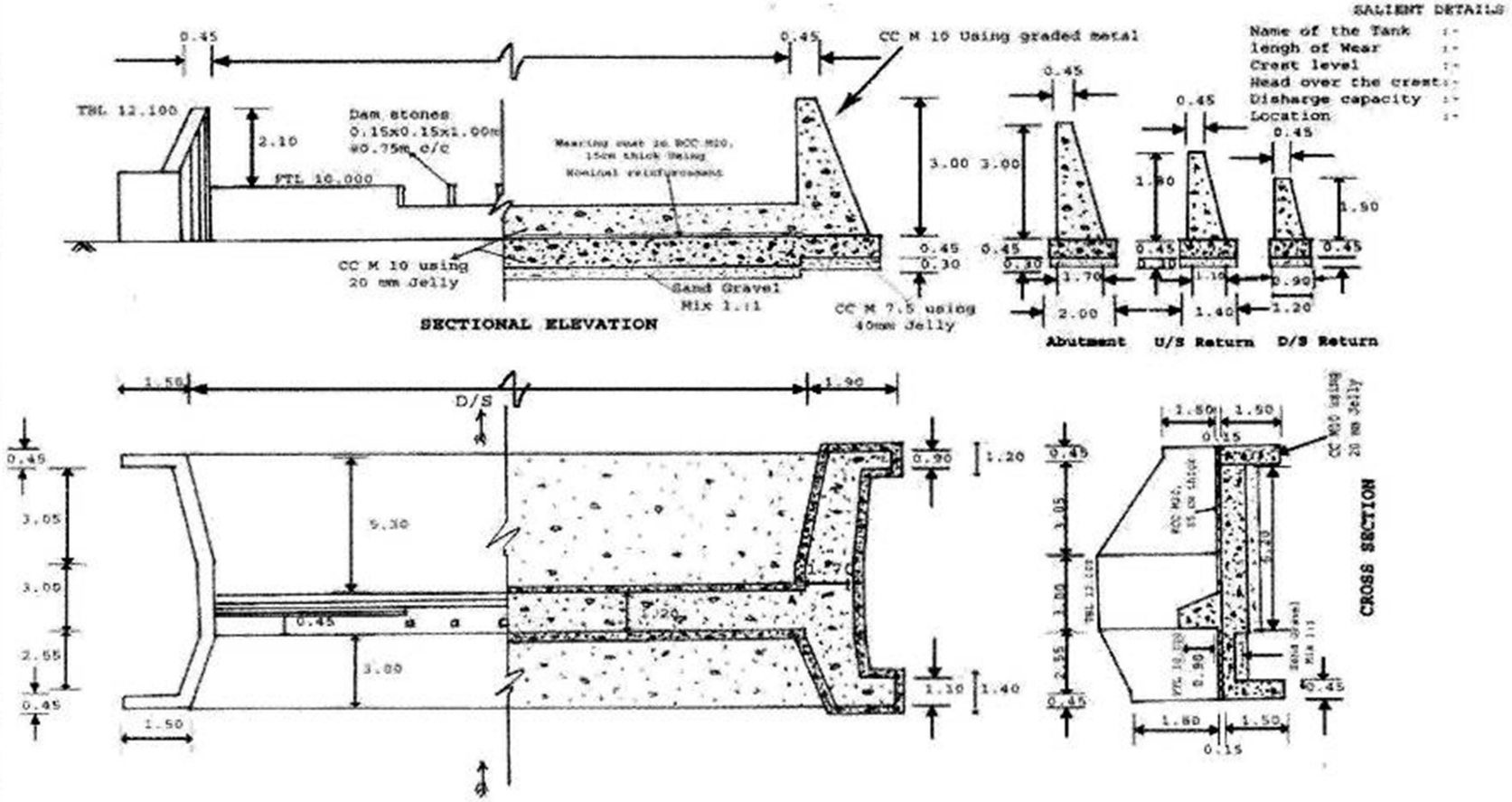
10/12/11

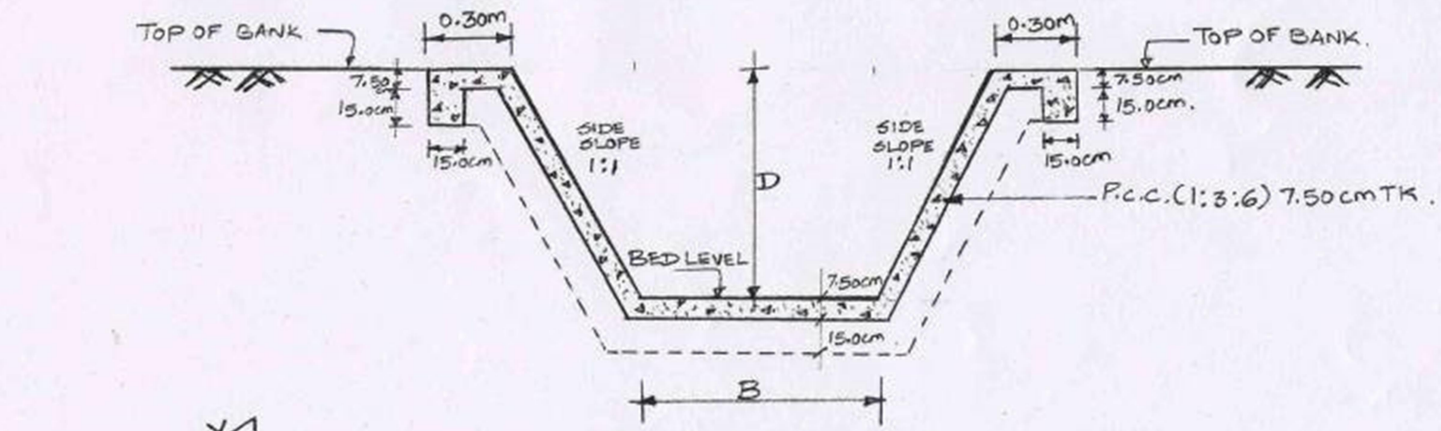
ASST. EXECUTIVE ENGINEER PWD, WRO
KODAGANAR SUB DIVISION
VEDASANDUR.

Chief Engineer W.R.D.
Coimbatore Region, Coimbatore-1.

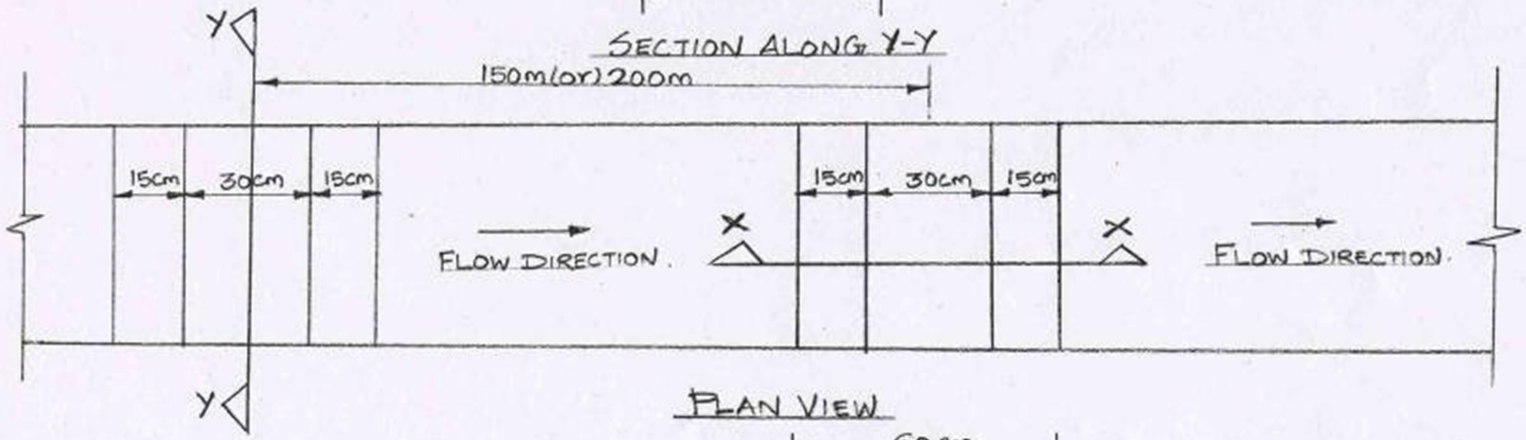
TYPICAL SKETCH FOR RECONSTRUCTION OF WEIR

AMARAVATHI SUB BASIN

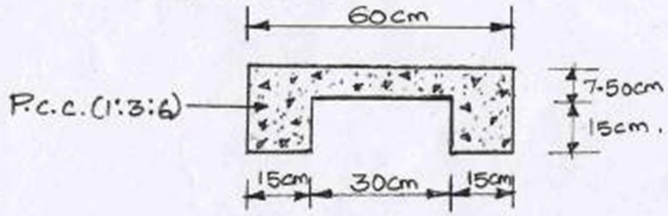




SECTION ALONG Y-Y



PLAN VIEW



SECTION ALONG X-X

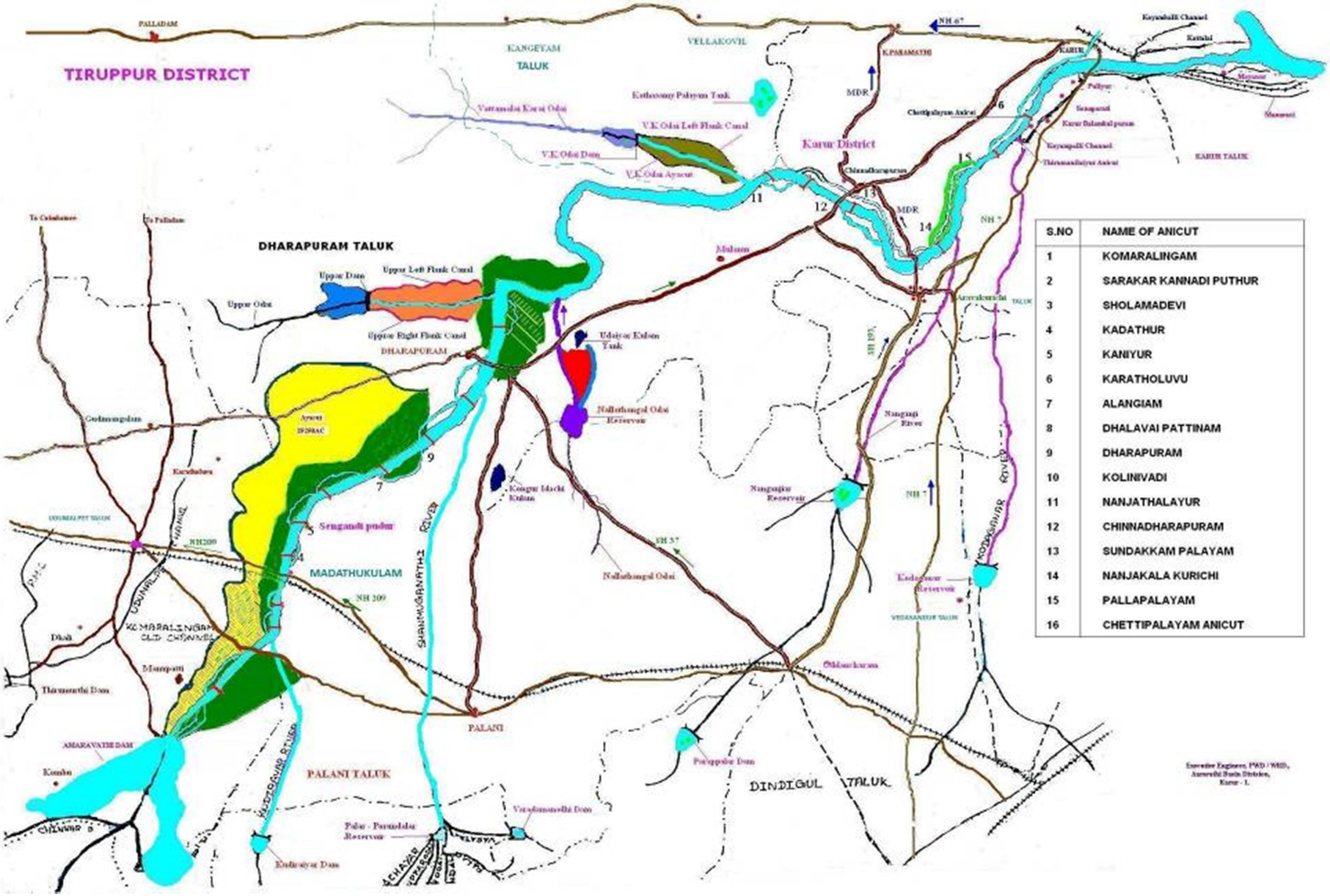
TYPICAL SECTION OF BEDBAR/MODEL SECTION FOR SUPPLY CHANNEL.

DIMENSIONS TO SUIT SITE CONDITION.

DRAWING NOT TO SCALE

.

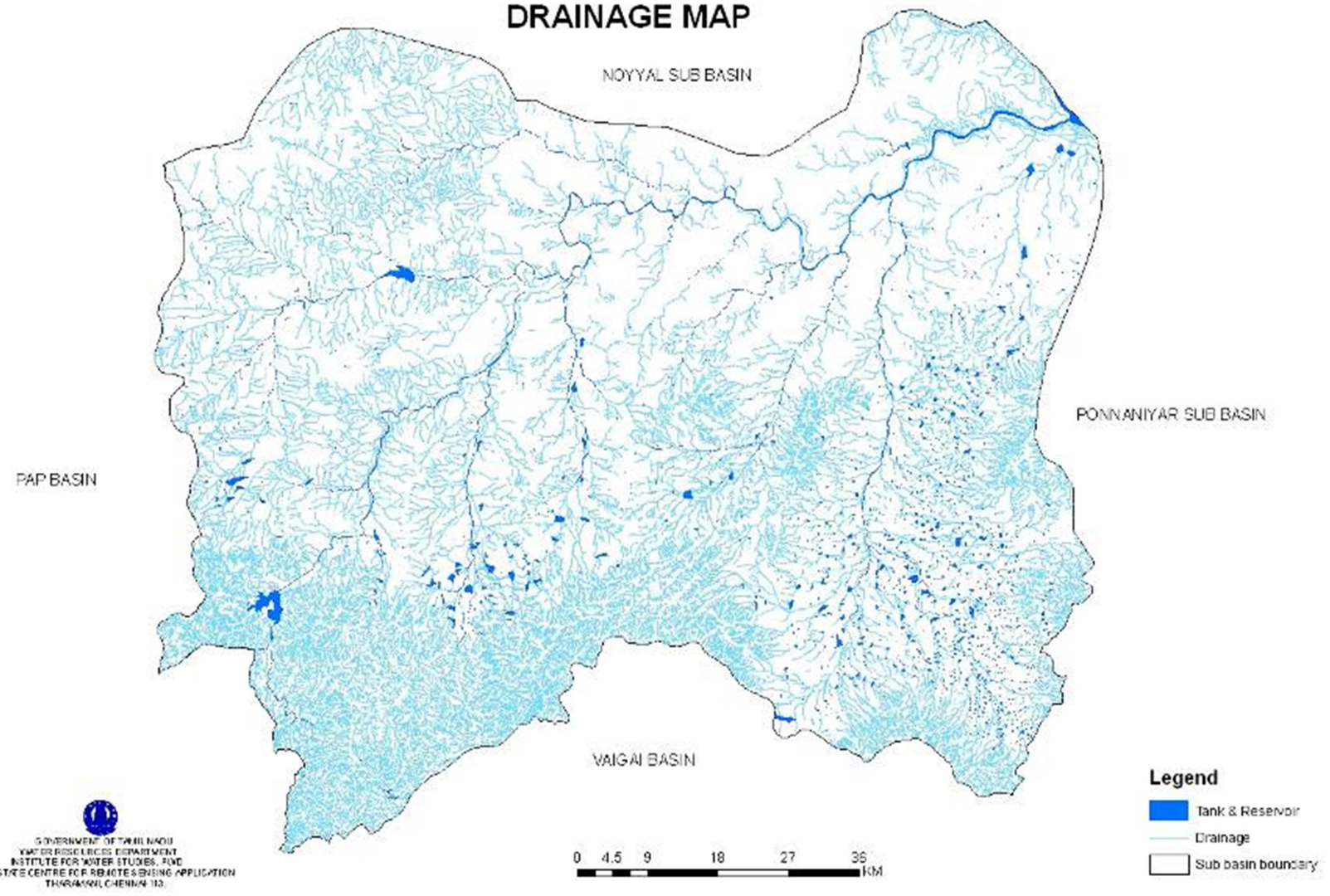
MAPS



S.NO	NAME OF ANICUT
1	KOMARALINGAM
2	SARAKAR KANNADI PUTHUR
3	SHOLAMADEVI
4	KADATHUR
5	KANIYUR
6	KARATHOLUVU
7	ALANGIAM
8	DHALAVAI PATTINAM
9	DHARAPURAM
10	KOLINIVADI
11	NANJATHALAYUR
12	CHINNADHARAPURAM
13	SUNDAKKAM PALAYAM
14	NANJAKALA KURICHI
15	PALLAPALAYAM
16	CHETTIPALAYAM ANICUT

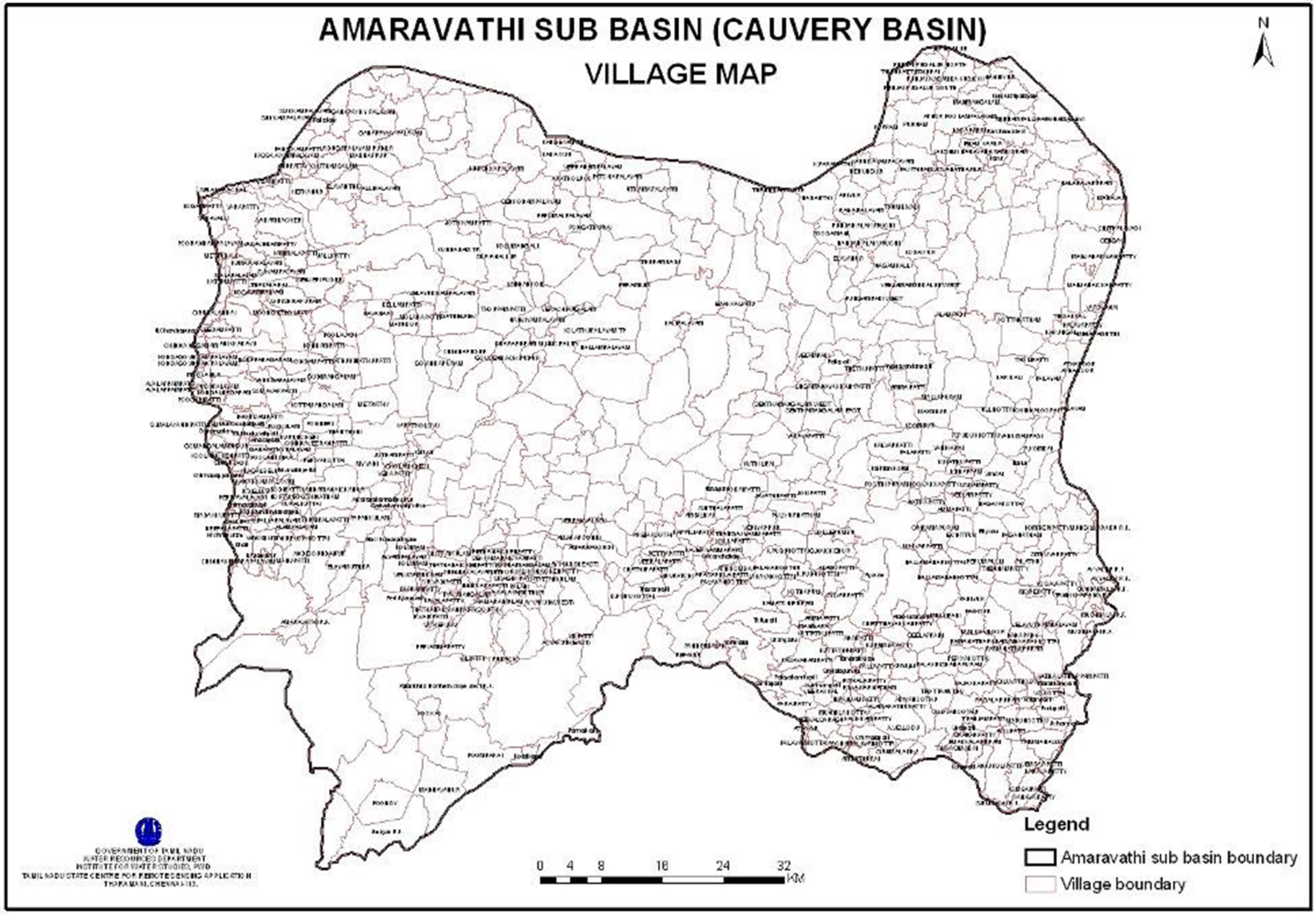
AMARAVATHI SUB BASIN (CAUVERY BASIN)

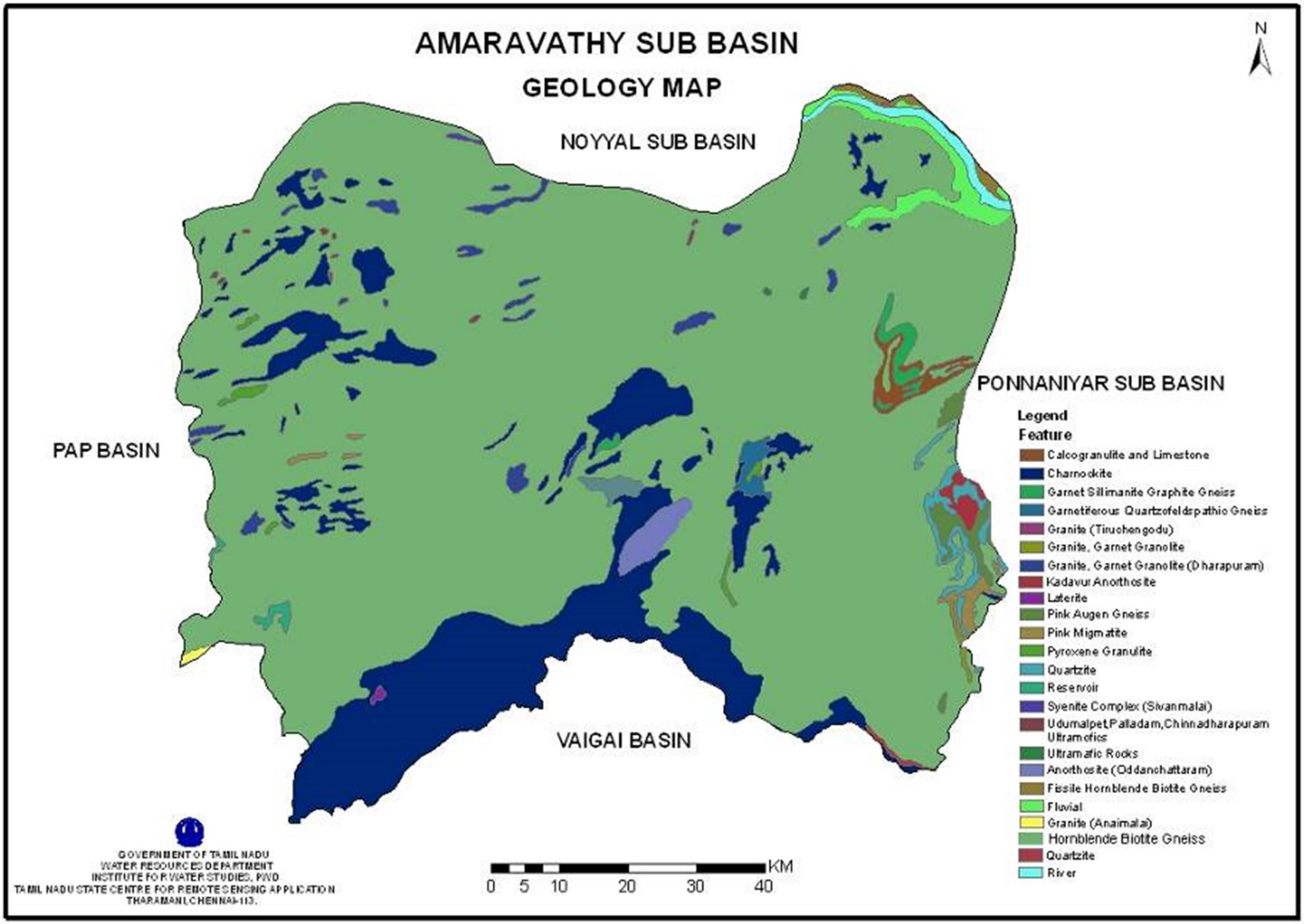
DRAINAGE MAP

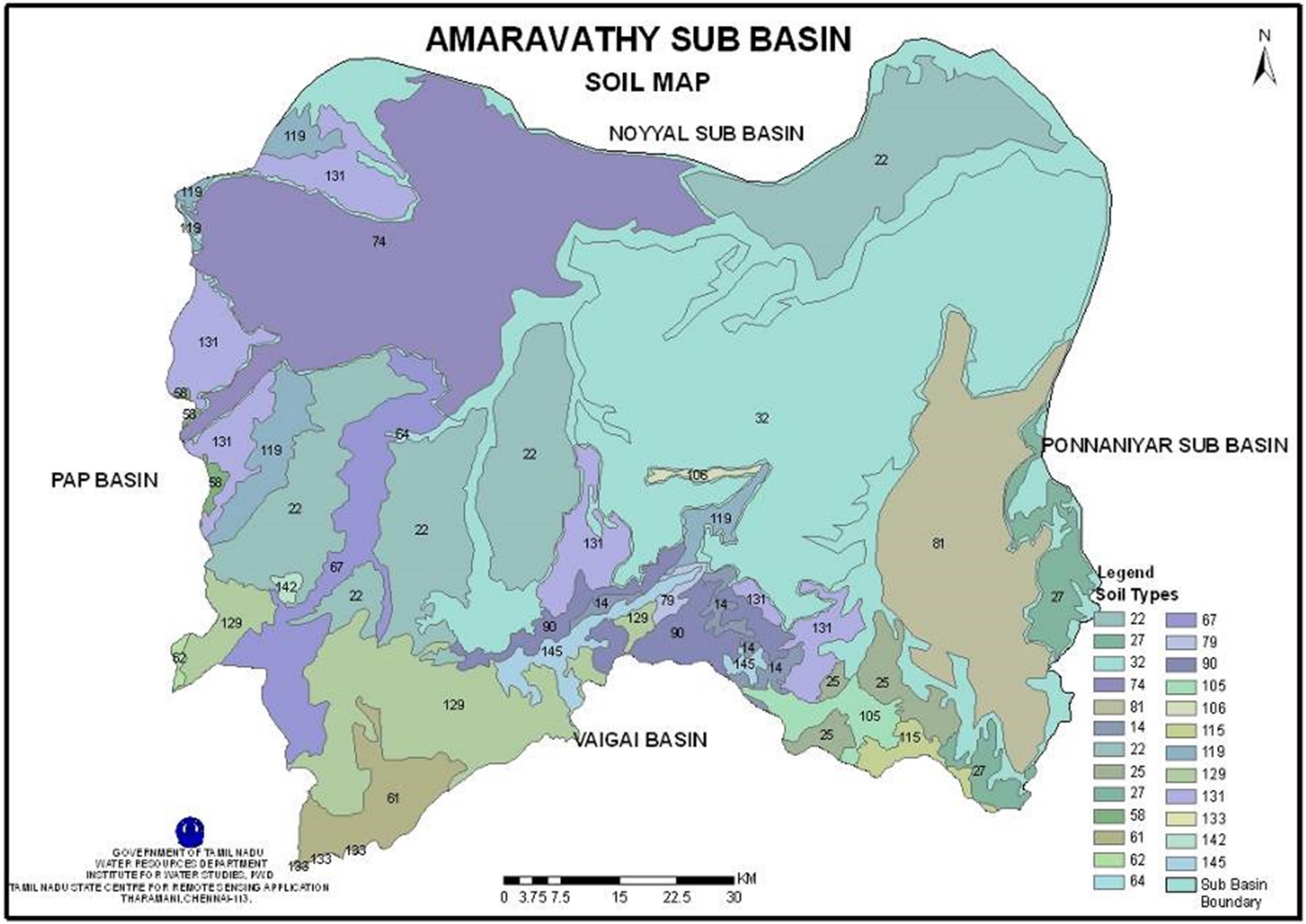


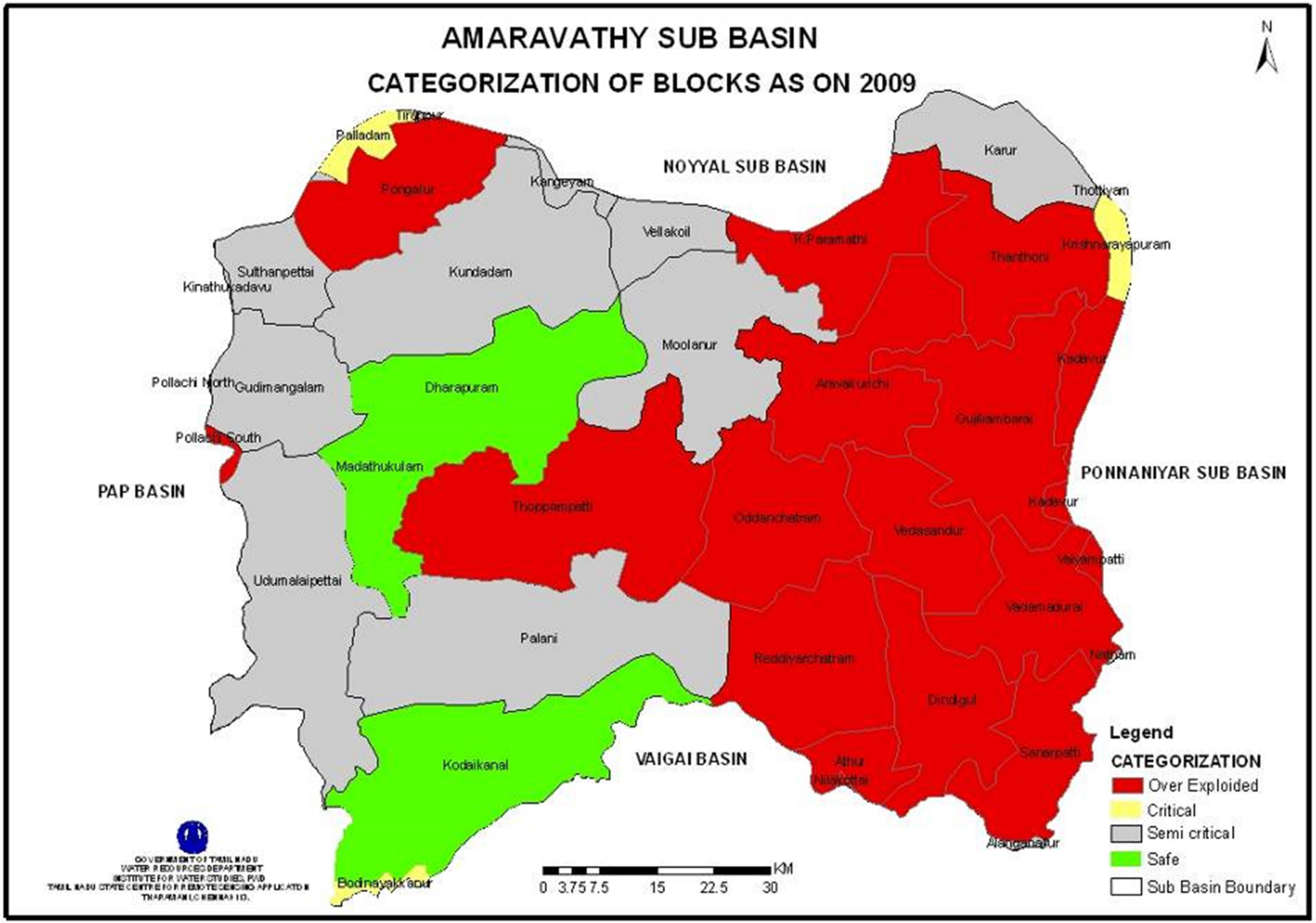
AMARAVATHI SUB BASIN (CAUVERY BASIN)

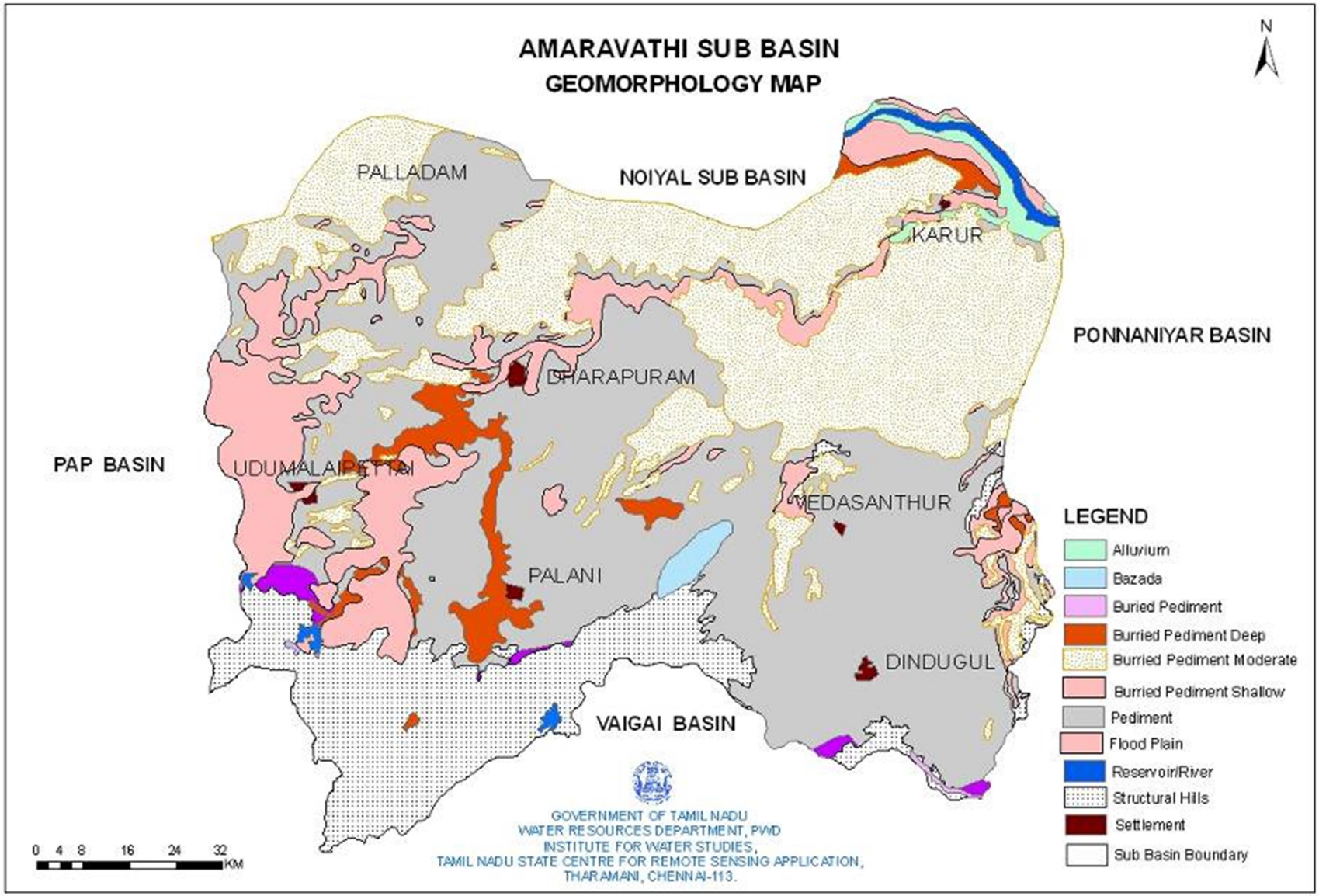
VILLAGE MAP

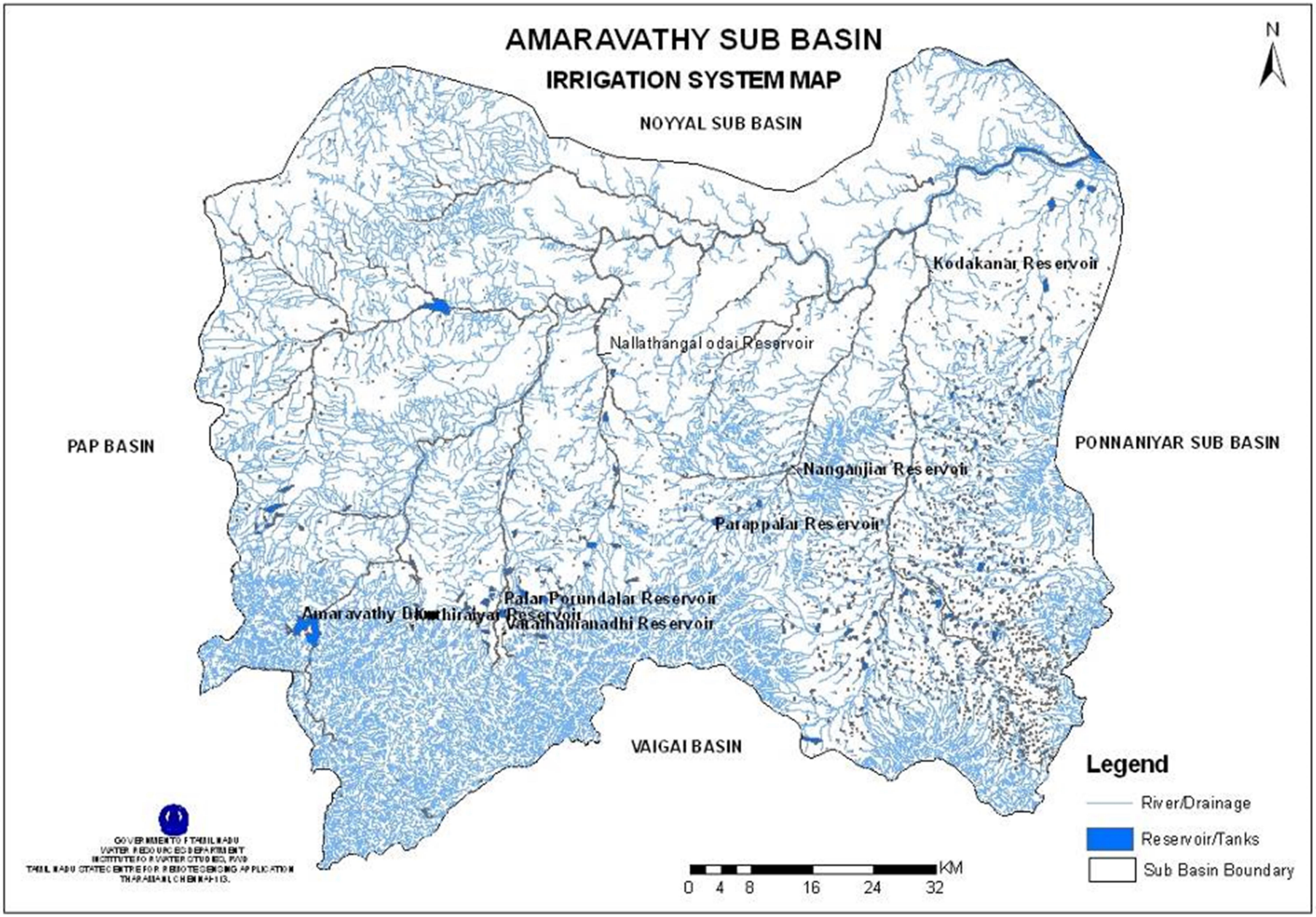


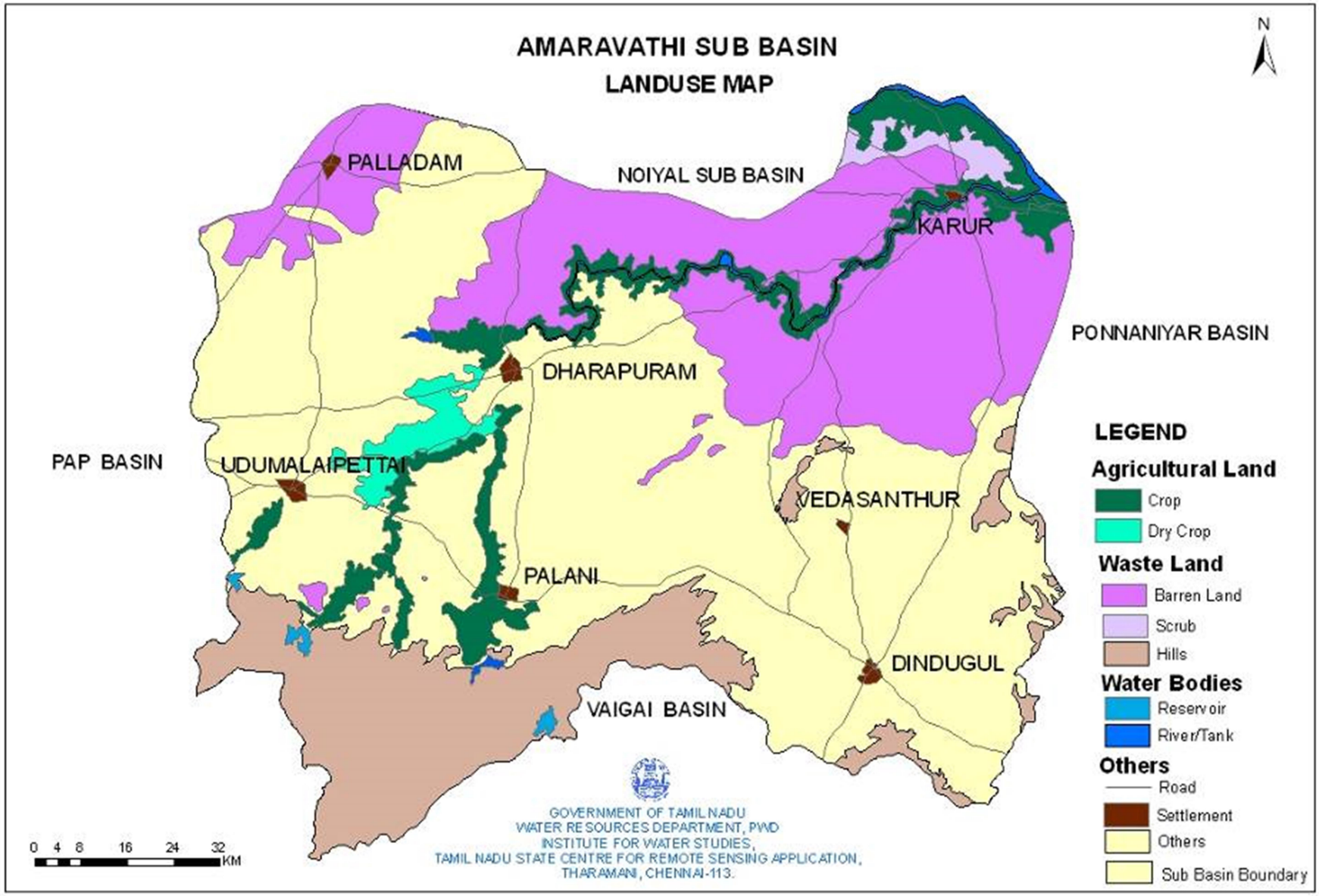

AMARAVATHY SUB BASIN
GEOLOGY MAP
N
NOYYAL SUB BASIN
PONNANIYAR SUB BASIN
PAP BASIN
VAIGAI BASIN
Legend
Feature
Calcogranulite and Limestone
Charnockite
Garnet Sillimanite Graphite Gneiss
Garnetiferous Quartzofeldspathic Gneiss
Granite (Tiruchengodu)
Granite, Garnet Granolite
Granite, Garnet Granolite (Dharapuram)
Kadavur Anorthosite
Laterite
Pink Augen Gneiss
Pink Migmatite
Pyroxene Granulite
Quartzite
Reservoir
Syenite Complex (Sivanmalai)
Udumalpet,Palladam,Chinnadharapuram Ultramafics
Ultramafic Rocks
Anorthosite (Oddanchattaram)
Fissile Hornblende Biotite Gneiss
Fluvial
Granite (Anaimalai)
Hornblende Biotite Gneiss
Quartzite
River
KM
0 5 10 20 30 40
GOVERNMENT OF TAMIL NADU
WATER RESOURCES DEPARTMENT
INSTITUTE FOR WATER STUDIES, PWD
TAMIL NADU STATE CENTRE FOR REMOTE SENSING APPLICATION
THARAMANI, CHENNAI-113.


AMARAVATHY SUB BASIN
SOIL MAP
N
NOYYAL SUB BASIN
PAP BASIN
PONNANIYAR SUB BASIN
VAIGAI BASIN
Legend
Soil Types
22
27
32
74
81
14
22
25
27
58
61
62
64
67
79
90
105
106
115
119
129
131
133
142
145
Sub Basin Boundary
KM
0 3.75 7.5 15 22.5 30
GOVERNMENT OF TAMIL NADU
WATER RESOURCES DEPARTMENT
INSTITUTE FOR WATER STUDIES, WRD
TAMIL NADU STATE CENTRE FOR REMOTE SENSING APPLICATION
THARAMANI, CHENNAI-113.


AMARAVATHY SUB BASIN
CATEGORIZATION OF BLOCKS AS ON 2009
N
NOYYAL SUB BASIN
PAP BASIN
PONNANIYAR SUB BASIN
VAIGAI BASIN
Palladam
Pongalur
Kangeyam
Vellakoil
K.Paramathi
Karur
Thottiyam
Thanthoni
Krishnarayapuram
Sulthanpettai
Kinathukadavu
Kundadam
Moolanur
Pollachi North
Gudimangalam
Dharapuram
Pollachi South
Madathukulam
Thoppampatti
Oddanchatram
Vedasandur
Kadavur
Vaiyampatti
Vadamadurai
Natham
Udumalaipettai
Palani
Reddiyarchatram
Dindigul
Sanarpatti
Athur
Nilakottai
Kodaikanal
Bodinayakkanur
Alangadanur
Legend
CATEGORIZATION
Over Exploided
Critical
Semi critical
Safe
Sub Basin Boundary
KM
0 3.75 7.5 15 22.5 30


AMARAVATHI SUB BASIN
GEOMORPHOLOGY MAP
N
PALLADAM
NOIYAL SUB BASIN
KARUR
PONNANIYAR BASIN
DHARAPURAM
PAP BASIN
UDUMALAIPETTAI
MEDASANTHUR
PALANI
DINDUGUL
VAIGAI BASIN
LEGEND
Alluvium
Bazada
Buried Pediment
Burried Pediment Deep
Burried Pediment Moderate
Burried Pediment Shallow
Pediment
Flood Plain
Reservoir/River
Structural Hills
Settlement
Sub Basin Boundary
0 4 8 16 24 32
KM
GOVERNMENT OF TAMIL NADU
WATER RESOURCES DEPARTMENT, PWD
INSTITUTE FOR WATER STUDIES,
TAMIL NADU STATE CENTRE FOR REMOTE SENSING APPLICATION,
THARAMANI, CHENNAI-113.


AMARAVATHY SUB BASIN
IRRIGATION SYSTEM MAP
N
NOYYAL SUB BASIN
PAP BASIN
PONNANIYAR SUB BASIN
VAIGAI BASIN
Kodakanar Reservoir
Nallathangal odai Reservoir
Nanganjiar Reservoir
Parappalar Reservoir
Palar Porundalar Reservoir
Amaravathy Dam
Vaithiraiyar Reservoir
Vaithamanadhi Reservoir
Legend
River/Drainage
Reservoir/Tanks
Sub Basin Boundary
KM
0 4 8 16 24 32
GOVERNMENT OF TAMIL NADU
WATER RESOURCES DEPARTMENT
INSTITUTE FOR WATER STUDIES, PWD
TAMIL NADU STATE CENTRE FOR REMOTE SENSING APPLICATION
THARAMANI, CHENNAI-113.


AMARAVATHI SUB BASIN
LANDUSE MAP
N
PALLADAM
NOIYAL SUB BASIN
KARUR
PONNANIYAR BASIN
DHARAPURAM
PAP BASIN
UDUMALAIPETTAI
VEDASANTHUR
PALANI
DINDUGUL
VAIGAI BASIN
LEGEND
Agricultural Land
Crop
Dry Crop
Waste Land
Barren Land
Scrub
Hills
Water Bodies
Reservoir
River/Tank
Others
Road
Settlement
Others
Sub Basin Boundary
0 4 8 16 24 32
KM
GOVERNMENT OF TAMIL NADU
WATER RESOURCES DEPARTMENT, PWD
INSTITUTE FOR WATER STUDIES,
TAMIL NADU STATE CENTRE FOR REMOTE SENSING APPLICATION,
THARAMANI, CHENNAI-113.