

REPORT ACCOMPANY WITH DETAILED PROJECT
FOR REHABILITATION OF WATER BODIES LEFT OUT IN
IAMWARM (I – PHASE)PROJECT IN MANIMUTHAR SUB-BASIN

PROJECT COST 1397.00 LAKHS

The Manimuthar Sub-basin is unable to meet their water needs due to scarcity. Because of successive droughts and lack of guidance, cultivation was not done in substantial areas and juliflora has involved these lands. About 18000 hectare of area is covered by juliflora in Sub Basin area. These plants consume an average of 3000 m³ of water per hectare per year and total annual loss of water is more than 54Mm³. After these tanks go dry in summer the ground water depletion is high due to the combined effect of juliflora consumption and domestic extraction. No technical attention of water to the fields and Farmers are not aware of modern techniques of irrigation and hybrid varieties of crops. Some components of Irrigation infrastructures are to be rehabilitated.

Considering all above factors the State of Tamil Nadu has adopted a multi-disciplinary approach in Manimuthar Sub-basin. This approach fostered Engineer – Extentionist – Farmer linkages and helped agencies to work together. A Detailed Project report prepared for rehabilitation of water bodies in the Manimuthar Sub Basin area and the same was approved by the World Bank. Based on the DPR a project estimate for a sum of Rs 5695.00 Lakhs (for WRD components) sanctioned by the Government in eight packages during 2007-2008 (under TN IAMWARM Phase I) and for which a revised administrative sanction for a sum of Rs 6635.30 Lakhs accorded and the work executed and completed now.

Total Amount of Original Administrative	}	Rs 5695.00 Lakhs
Sanction for Manimuthar Sub Basin (For WRD Components)		
Actual Expenditure done	-	Rs 6296.20 Lakhs

Based on the agreed action of World Bank Implementation support mission in the wrap up meeting chaired by the Finance Secretary on 17-09-2012 it was decided to rehabilitate left out infrastructures and components in infrastructures in TN IAMWARM project in the selected sub basins, which was communicated in Engineer in Chief WRD Letter No Tech Cell/57252/WB Mission/ 2009 dated 05.10.2012.

By utilizing the savings amount rehabilitation works proposed for left out infrastructures and components in infrastructures in Manimuthar Sub Basin area, based on the block level Water Users Association meetings conducted during November 2010 and feedback obtained regarding the success of the IAMWARM project. In above the meetings a

questionnaire (Department wise) given to the WUA representatives and obtain the feed back. With reference their feedback a walk through survey conducted and gathered particulars on left out infrastructures and components were ascertained. A detailed Estimate prepared for those identified left out components and infrastructures, proposal made as follows

(A) Tanks

In this Sub basin totally **378 Nos** of tanks rehabilitated under IAMWARM project – Phase I out of **480 Nos** of tanks available in the Sub Basin area. In those 378 tanks many of the infrastructures renewed and brought to farmers use successfully.

Now the Left out tanks identified and for those tanks rehabilitation works proposed after preparing detailed Estimate. Out of **Left out 102 Tanks**, now proposal made for **21 tanks** on necessity and priority basis. And also for the **14 Nos** of Tanks in which work done in Phase I, left out components now proposed.

Details of Components Proposed

Sl No	Component	Already Taken in Phase I	Now Proposed
1	Raising and Strengthening of Tank Bund	486.786 km	60.944 Km
2	Reconstruction of sluice	554 Nos	55 Nos
3	Repair to sluice	206 Nos	13 Nos
4	Reconstruction of Weir	0	14 Nos
5	Weir Repair	41 Nos	6 Nos
6	Shutters Renewal	22 Nos	54 Nos
7	Retaining Wall	5946 RM	85 Rm
8	Irrigation Channel Lining	11668 Rm (Approved in Addl DPR)	1420 Rm
9	Flow Measuring Device	473 Nos (Approved in Addl DPR)	52 Nos

(B) ANICUTS

In this Sub basin totally **31 Nos** of Anicuts rehabilitated under IAMWARM project – Phase I out of **35 Nos** of Anicuts available in the Sub Basin area. +

In those 31 Aincuts many of the infrastructures renewed and brought to farmers use successfully.

Now the Left out anicts identified and for those anicuts rehabilitation works proposed after preparing detailed Estimate. Out of **Left out 4 Aicuts**, now proposal made for **4 Anicuts** on necessity and priority basis. And also for the **4 Nos** of Anicuts in which work done in Phase I, left out components now proposed

Details of Components Proposed

For the Left out Anicuts and for components left out in Anicuts rehabilitated in IAMWARM Phase I, the following components are made.

- Repairs to Anicut for 7 Anicuts
- Renewal of Shutters for 1 Anicut
- Strengthening Flood Bank to a length of 600 mts for 1 Anicut
- Construction of Protection Wall to a length of 200 mts in 1 Anicut

(C) SUPPLY CHANNELS

Under IAMWARM Phase I 49.880 Km of Supply Channel rehabilitated out of 186.540 Km Supply Channel available in the Sub basin area. For the left out of 136.66 Kms Supply channel only 0.60 Km is taken up for desilting work. Beside this the following components are included in this proposal after detailed analysis.

Details of Components Proposed

- Desilting of Supply Channel for a length of 0.600 Kms
- Repairs to Inlets for 6 Nos
- Repairs to Culverts for 6 Nos
- Repairs to Drop for 3 Nos
- Repairs to Dividing Arrangements for 1 No

The above proposal prepared after careful consideration of feedback obtained from WUA representatives on completion of IAMWARM Phase I and walk through survey conducted along with WUA representatives. This Detailed Project report prepared based on the detailed estimate for the current schedule of rates for the year 2012-2013.