

TN - IAMWARM

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

PROJECT COST 196.30 LAKHS

Water is a prime natural resource, a basic human need and a precious national asset, which is one of the most critical elements in Development Planning according to Indian National Water Policy. Planning and Development of Water Resources and their Use need to be governed by National Interest.

It has been estimated that out of the total precipitation around 4000 billion cubic metre in the country, Surface water availability is about 1780 billion cubic metres. Out of this, only about 50 % can be put to beneficial use because of topographical and other constraints. In addition, there is a Ground Water Potential of about 420 billion cubic metre. The availability of water is highly uneven in space and time. Precipitation is confined to only about 3 to 4 months with 20 – 40 significant Rainy days within a year. Hence, there is an imperative need for effective collection of Rain Water for storing in appropriate places like Reservoir, Lakes, Tanks, Ponds and Aquifers etc., in order to use the stored water efficiently for economical and social purpose.

Agriculture is the dominant section in Indian Economy. Tamil Nadu has poor ground water potential, depends mainly on the Surface Water Irrigation, as well as Ground Water Irrigation. The Surface Water Potential largely depends on the storage of water in Reservoirs, Dams and Tanks. The State has used the Surface water and Ground Water Potential to maximum limit and hence the future development and expansion depends only on the efficient and economical use of Water Potential and Resources.

To achieve the Water Use Efficiency, it is necessary to improve and upgrade the exiting conveyance and Storage System and also to introduce Modern Irrigation methods.

Considering all these, The World Bank during the Mission in October 2005 indicated that the irrigated Modernisation Project should be taken as Irrigated Agriculture Modernization and Water Resources Management Project (**IAMWARM**). This Project has advocated Basin wise Multidisciplinary Approach in its functioning which not only favours Productivity in Agricultural and allied sectors but also expects to increase Benefits to the Farming Community.

Considering all above factors the State of Tamil Nadu has adopted a multi-disciplinary approach in Manimuthar Sub-basin. This approach fostered Engineer – Extensionist – Farmer linkages and helped agencies to work together. A Detailed Project report prepared for rehabilitation of water bodies in the Pambar Sub Basin area and the same was approved by the World Bank. Based on the DPR a project estimate .Rehabilitation of infrastructures in pambar sub basin (part)(ie) Package no: P-06 and P-07 was taken up under IAMWARM Project phase I for an estimated cost of **Rs 1299.00 Lakhs** vide G.o M.S NO:43/PW WR(1) dept/dated 26.02.2007.

The work was taken up with two packages and all the works have been completed.The total expenditure up to 31.03.2010 was **Rs 1292.12 lakhs**. The revised estimate was sanctioned for both the 2 Packages to a total amount of Rs. **1491.50 Lakhs** vide G.O.Ms No 271 / PW (WR.1) dept / dated 23.112009.

By using the over all savings amount available in the project additional rehabilitation works proposed in this Sub Basin area, based on the agreed actions in the wrap up meeting chaired by the Finance secretary on 17.09.2012, which was communicated in Engineer in Chief WRD Letter No Tech Cell/57252/WB Mission/ 2009 Dated 05.10.2012.

The Block Level Water Users Association meetings conducted during November 2010 and feed back obtained regarding the success of the IAMWARM project. In the above meetings, a questionnaire (Department wise) given to the WUA representatives and obtain the feed back.

By analyzing the feed backs given by them it is found that some essential works were left out in the IAMWARM project. Based on their feed back again a walk through survey conducted along with the WUA President and TC Members, left out essential components identified and the particulars gathered accordingly

(A) Tanks

In this Part of this Sub basin (Madurai) totally **69 Nos of tanks** rehabilitated under IAMWARM project out of **82 Nos of tanks** available in the Sub Basin (Part) area. In those 69 tanks all the infrastructures renewed and brought to farmers use successfully. But, some of tanks were left out due to various reasons. Now the Left out tanks identified and for those tanks rehabilitation works proposed after preparing detailed Estimate. Out of **Left out 13 Tanks**, now proposal made for **3 tanks** on necessity and priority basis. And also for the 6 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	139.262 km	9.441 Km
2	Reconstruction of sluice	120 Nos	8 Nos
3	Repair to sluice	45 Nos	--
4	Reconstruction of Weir	5 Nos	5 Nos
5	Weir Repair	10 Nos	2 Nos
6	Shutters Renewal	7 Nos	--
7	Retaining Wall	917 RM	--
8	Irrigation Channel Lining	5895 Rm (Approved in Addl DPR)	183 Rm
9	Flow Measuring Device	192 Nos (Approved in Addl DPR)	7 Nos

(B) Supply Channels

No Supply Channels in this Sub Basin (Madurai Part) were not rehabilitated under IAMWARM Phase I. Out of total **14.670 Kms** available Supply Channels, for **2,890 Kms** proposed for desilting in this proposal. Also some improvements such as Strengthening Flood bank, repairs to inlets and repairs to dividing arrangements are found essential to fulfillment of rehabilitation. Such left outs are identified with consultation of WUA representatives and those items are included in this proposal as follows.

Details of Components Proposed

- Desilting of Supply Channel for a length of 2.890 Kms
- Repairs to Inlets for 5 Nos
- Repairs to Dividing Arrangements for 4 Nos
- Strengthening Flood bank for 630 Rm

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.

**Excutive Engineer, PWD., WRO.,
Manimuthar Basin Division,
Devakottai.**

**Superintending Engineer, PWD., WRO.,
Lower Vaigai Basin Circle, Sivagangai.**

**Chief Engineer, PWD., WRO.,
Madurai Region, Madurai.**