



## ABSTRACT

Water Resources Department – World Bank - TNIAMP- Administrative Sanction for Development of Decision Support System to improve Water Management, enhance Agricultural Productivity, Profitability and Resilience to Climate Variability in selected Sub Basins of Tamil Nadu, Track Work Progress and Impact Assessment in the TN IAM Project Area (GIS enabled Web Portal with Mobile Application) at a cost of Rs. 550.02 Lakhs under Component C - Project Management Support of TN IAM—Accorded-Orders –Issued.

### Water Resources (WR 1) Department

G.O(D) No.23

Dated 27.01.2023

சுபகிருது, தை 13  
திருவள்ளூர் ஆண்டு 2054

#### Read:-

1. G.O. (Ms) No. 140, Public Works (WR1) Department, dated 22.5.2018.
2. From the Project Director(FAC), TNIAM Project, MDPU Office, Chepauk, Chennai Letter No. MDPU / F300 / Project / 2022, dated: 23.12.2022

#### ORDER:

In the G.O. first read above, block administrative sanction was accorded for a sum of Rs.2962 Crore for TN IAMP with a project period of 7 years from 2017 to 2024 (455.80 Million US Dollar including the fund assistance of 318 million US Dollar from the World Bank at the exchange rate of Rs.64.98 per US Dollar).

2. In the letter second read above, the Project Director, TN IAM Project, MDPU, Chennai has stated that,

- This Project comprises of the following three main components:-

- A. Irrigation and Water Management.
- B. Agriculture Productivity Enhancement.
- C. Project Management Support.

- The Project has implementing project interventions with an uniqueness of integrating water and allied departments and universities in a single deck. The success and impact due to Project interventions has been realized by the farmers / beneficiaries. In order to upscale the Project intervention among the other farmers/public and for ensuring sustainability of project interventions

even after the closure of Project, it is necessary to disseminate the success / impact / learning from the project to the other farmers/public.

- During World Bank 7<sup>th</sup> Implementation Support Mission, the World Bank Team has emphasized to give exclusive focus to integrate all line departmental activities at the grass-root level, so as to attain the project objective in an effective manner.
- Accordingly the Government have directed to develop GIS enabled Web portal with Mobile App for TN IAM Project with an objective to disseminate success / learning / Shortcomings realized by the beneficiaries, to provide knowledge sharing platform for both officials and beneficiaries, to support officials / beneficiaries to receive appropriate decision and advices at shorter interval, project progress monitoring, effective irrigation management, impact assessment, etc.
- Facilities are also to be provided for World Bank officials to track the project implementation status along with the implementing agencies and to offer the valuable comments and advice without any time lapse for an effective implementation. This will bridge the gap in convergence not only with the line departments and also with experts available in World Bank Team to utilize their service for the project.
- Hence, it is essential to "Develop Decision Support System to improve Water Management, enhance Agricultural Productivity, Profitability and Resilience to Climate Variability in selected Sub Basins of Tamil Nadu, Track Work Progress and Impact Assessment in the TN IAM Project Area (GIS enabled Web Portal with Mobile Application) under Component C ie., Project Management Support of TNIAM Project.

3. The Project Director, TNIAMP, MDPU has also stated that as directed the Chief Engineer & Director, Institute of Water Studies, Hydrology & Quality Control has prepared the proposal with the following highlights, based on the suggestions specified by the Head of implementing line departments:-

Project Progress Tracking System: Mobile enabled Web Based GIS and MIS system proposed to develop to monitor the interventions performed at project level by partner Department

- Unified Mobile Application
- MIS Reporting Dashboard
- GIS Dashboard
- User & Workflow Management

- Project Indicator Monitoring Module: TNIAMP web Portal is proposed to provide Department level Project Indicators Monitoring screens input screens and output screens to track all the component wise activities of line Departments.

- Climate Resilient Tank Irrigation and Agriculture Management System: A Comprehensive Decision Support system solution is proposed to bring together weather, water availability, agriculture, Irrigation, and beneficiary onto a unified digital platform with specific decision support modules that help the farmers, water user associations and department to plan and manage water resources for climate resilient agriculture.
  - Creation of Data Repository
  - Tank and Cascade Level Water Budget
  - Agro-Climatic Zone (ACZ) Crop planning
  - Catchment Area Treatment Plan
  - Climate Smart Agriculture Advisory Services
  - Fish culture Management
- Extension Services Dashboard (Market Access, Linkage with suppliers, Production estimates, etc.): This module is proposed with flexibility to integrate with market linkages and to provide user specific information and features to access the marketplace with ease. This module should be able to integrate with other Government applications and should be able to collate information from various departments through Application programming interface (API's).
  - Market Access
  - Linkage with Suppliers
  - Production Estimates
  - MSP, Procurement and Storage
  - Price Information
- Success Stories: Success stories Module has proposed to develop where Department users and WUA's association should be able upload various success stories of the project during and after implementation.
- Ranking Dashboard: Ranking Metrics Dashboard shall be developed which will track progress status works with respect to various indicators of project and should provide ranking for the entire project area to track the status of top performing and underperforming regions/assets and groups like Sub-basins, Village water bodies, WUA.
- Model Villages: The dashboard is proposed to develop to track the activity status of all model villages of the project area.

- Module for do-it-yourself: Do-it -yourself module is proposed to develop to provide Support to PMU in both technical and functional training to users on all parts of the system with focus on the operations & functionalities of the system.

4. The Project Director, TNIAMP, MDPU has also stated that the total cost of proposal is worked out approximately to Rs.5,50,02,750/- including GST at 18% based on the current market price. The World Bank had given clearance for the proposal. The funds for the above proposal will be meet-out from the internal savings of Rs.9.91Crore anticipated under Component C "Project Management Support". The above proposal was circulated to the members of the Empowered Committee and the proposal has been approved by the Empowered Committee chaired by the Chief Secretary on 19.12.2022.

5. In accordance with the approval of the Empowered Committee, the Project Director, TN IAM Project, MDPU, Chennai has requested the Government to accord Administrative Sanction for the Development of Decision Support System to improve Water Management, enhance Agricultural Productivity, Profitability and Resilience to Climate Variability in selected Sub Basins of Tamil Nadu, Track Work Progress and Impact Assessment in the TN IAM Project Area (GIS enabled Web Portal with Mobile Application) at a cost of Rs. 550.02 Lakhs including GST at 18% under Component C - Project Management Support of World Bank funded TN IAMP.

6. Based on the approval of the Empowered Committee, the Government have decided to accept the proposal of the Project Director, TN IAM Project, MDPU, Chennai and hereby accord Administrative Sanction for Development of Decision Support System to improve Water Management, enhance Agricultural Productivity, Profitability and Resilience to Climate Variability in selected Sub Basins of Tamil Nadu, Track Work Progress and Impact Assessment in the TN IAM Project Area (GIS enabled Web Portal with Mobile Application) at a cost of Rs.5,50,02,000/- (Rupees Five crore Fifty Lakh and Two Thousand only) including GST at 18% under Component C - Project Management Support of World Bank funded TN IAMP. Out of which, Rs.1,00,00,000/- (Rupees one crore only) is for the current financial year and the balance will be released during the next financial year based on progress of works.

7. The expenditure sanctioned at para 6 above shall be debited to the following head of account :-

"2701-Medium Irrigation – 80 General -001 Direction and Administration- Externally Aided Project – PD–Multi Disciplinary Project Unit in Tamil Nadu Irrigated Agriculture Modernisation and Water Bodies Restoration and Management Project (IAMWARM) -333 Payment for Professional and Special Service -03 Special Service".

(IFHRMS DPC : 2701-80-001-PD-333-03)

8. The expenditure sanctioned in para 6 above shall constitute an item of "New Instrument of Services" and the approval of the Legislature will be obtained in due course. Pending approval of the legislature, the expenditure will be met by drawal of an advance from the Contingency Fund. Orders regarding which will be issued by Finance (BG-I) Department separately. The Engineer-in-Chief, Water Resources Department

and Chief Engineer (General), Chennai-5 is directed to send necessary proposals to Government in Finance (BG-I) Department directly in Form 'A' appended to the Tamil Nadu Contingency Fund Rules, 1963 along with a copy of this order for sanction of an advance from the Contingency Fund. He is also directed to send necessary explanatory notes for inclusion of the above expenditure in the Supplementary Estimate 2022-2023 to Finance (PW-II / BG-I) Department at an appropriate time.

9. This order issues with the concurrence of Finance Department vide its U.O. No. 949 / PW-II/23, dated: 25.01.2023 and ASL No. 2354 (Two thousand three hundred and fifty four) (IFHRMS ASL No.2023012354)

**(BY ORDER OF THE GOVERNOR)**

**SANDEEP SAXENA  
ADDITIONAL CHIEF SECRETARY TO GOVERNMENT**

To

The Project Director,  
TNIAMP, MDPU Office, Chennai – 5.  
The Engineer-in-Chief and Chief Engineer (General),  
Water Resources Department, Chennai-5.  
The Chief Engineer and Director,  
Institute for Water Studies, Hydrology and Quality Control,  
Water Resources Department, Chennai-113.  
The Chief Engineer,  
Plan Formulation, Water Resources Department, Chennai – 5.  
The Chief Engineer,  
State Ground and Surface Water Resources Data Centre,  
Water Resources Department, Chennai – 113.  
All Regional Chief Engineers, Water Resources Department.  
The Agricultural Production Commissioner and  
Secretary to Government,  
Agriculture and Farmers' Welfare Department, Chennai – 9.  
The Principal Secretary to Government,  
Animal Husbandry, Dairying, Fisheries and  
Fishermen Welfare Department, Chennai – 9.  
The Director of Agriculture,  
Chepauk, Chennai – 5.  
The Director of Agricultural Marketing and Agri Business,  
Guindy, Chennai – 32.  
The Commissioner of Horticulture and Plantation Crops,  
Chepauk, Chennai – 5.  
The Chief Engineer, Agricultural Engineering,  
Nandanam, Chennai – 35.  
The Registrar, Tamil Nadu Agricultural University, Coimbatore.  
The Registrar, Tamil Nadu Veterinary and Animal Sciences University/  
The Tamil Nadu Fisheries University, Chennai / Nagapattinam.  
The Pay and Accounts Officer (East), Egmore, Chennai-8.  
The Pay and Accounts Officer (South), Chennai-35.  
The Principal Accountant General (Accounts and Entitlements/ Audit), Chennai – 18.

Copy to

The Finance (PW-II/BG-I/BG-II/W&M-I) Department, Chennai – 9.  
The Resident Audit Officer, Office of the Principal Accountant General  
(General and Social Sector Audit), Secretariat, Chennai – 9.  
Stock File / Spare Copy.

**//FORWARDED BY ORDER//**

S. Krishna Rao  
27.1.2023  
**SECTION OFFICER**

27.1.23