



11/8/2022

Abstract

Announcement 2021-2022- sanction for implementation of "Tamil Nadu Water Resources Information and Management System (TNWRIMS)" at an estimated cost of Rs.30.00 crore under loan assistance of NABARD- Accorded- Orders- Issued.

Water Resources (W1) Department

G.O.(D) No.46

Dated: 10.3.2022

பிலவ, மாசி 26

திருவள்ளூர் ஆண்டு 2053

Read:-

1. From the Engineer-in-Chief and Chief Engineer (General), Water Resources Department, Chennai Note Dated 8.10.2021.
2. Techno- Financial Proposal for preparation of TNWRIMS submitted by NABCONS (P) Ltd.,

ORDER:-

During the Budget Speech for Revised BE 2021-2022 delivered on 13.8.2021, Hon`ble Minister (Finance and Human Resources Management) has announced that Tamil Nadu Water Resources Information and Management System will be implemented at a cost of Rs.30 crore.

2. Based on the above announcement the Engineer-in-Chief and Chief Engineer (General), Water Resources Department has stated that it is proposed to create a system integrating data from State Government departments and serve as one Authoritative System for all water related data supply, demand, operational, environmental factors etc with near real time visibility of all available water as Ground Water and Surface Water components such as Reservoirs, Canals Minor Irrigation tanks for assessment, monitoring, planning, operation and integrated water resources management.

3. He has also stated that based on the detailed discussions M/s NABCONS limited submitted Request For Proposal (RFP) for implementation "Tamil Nadu Water Resources Information and Management System". The key Modules given in the RFP are as below:-

- i. Development of Digital Platform ad Unified Database, Satellite processing and admin module
 - Data Collation, Digitization, Cleaning and Integration Work
 - Integration of existing water resources data

- Data sanitization and processing
- Satellite Data Integration
- GIS and MIS Dashboard
- Geospatial analytics capabilities
- Machine Learning
- User Specific Views
- Data Entry Workflow
- Mobile Application
- System Specifications and Components
 - Usage Analytics
 - My view (User Defined Dashboard)
 - GIS Technology and Features
 - API Architecture
 - Data Administration and Management
 - Data Entry validation
 - Addressing Data Gaps
- Data Availability and Sources

4. The NABCONS Limited has requested to accord sanction for implementation of "Tamil Nadu Water Resources Information and Management System (TNWRIMS)" at an estimated cost of Rs.30.00 crore under loan assistance of NABARD.

5. The Government after careful examination, have accorded sanction

for "Implementation of Tamil Nadu Water Resource Information and Management System (TNWRIMS)" at an estimated cost of Rs.30.00 crore with the following conditions :-

- i. Integration of existing database is very critical. Currently various stakeholder departments have their own database customized for their purpose. Many cases their data is accurate and useful, in other there are critical gaps and inaccuracies. Lot of data is also very old and has not been updated. Hence, the developer should collect and collate all the existing data from various stakeholders.
- ii. Each stakeholder will use their data for different purpose. Each may require different data point. Hence the data point required by each agency should be identified by the developer and a comprehensive data collection exercise should be planned involving relevant department.
- iii. Based on the existing database and new requirement of departments stakeholders a detailed data organization plan should be developed customized for ease of access to the stakeholders and even for common public.

- iv. Once formed, this portal should serve as single source of truth for water related database and all future proposal from any stakeholder department should be based on this database. Policy should flow from this data.
- v. As the information is very critical and would form the basis of future policy making, independent audit mechanism should be established with help of reputed external agencies for periodic information audit.
- vi. NABCONS can assist and handhold the departments and the stakeholders. However, the project development involves large component of advanced software and other technology. Hence developer should be identified through open tender with detailed qualification requirement for an exhaustive scope of work.

(B) To constitute an Apex Committee to review the project on quarterly basis, as follows:-

1.	Chief Secretary to Government	Chairman
2.	Additional Chief Secretary to Government, Water Resources Department.	Convenor
3.	Additional Chief Secretary to Government, Municipal Administration and Water Supply Department	Member
4.	Additional Chief Secretary to Government, Finance Department.	Member
5.	Principal Secretary to Government, Information Technology Department.	Member
6.	Principal Secretary to Government, Rural Development and Panchayat Raj Department.	Member
7.	Principal Secretary to Government, Revenue and Disaster Management Department.	Member
8.	Agriculture Production Commissioner and Secretary to Government, Agriculture and Farmers Welfare Department .	Member

(C) To constitute an Executive Committee to make smooth co-ordination between various stake holders as follows:-

1.	Additional Chief Secretary to Government, Water Resources Department .	Chairman
2.	Additional Chief Secretary to Government, Municipal Administration and Water Supply Department .	Member

3.	Principal Secretary to Government, Information Technology Department	Member
4.	Principal Secretary to Government, Rural Development and Panchayat Raj Department.	Member
5.	Principal Secretary to Government, Revenue and Disaster Management Department.	Member
6.	Agriculture Production Commissioner and Secretary to Government, Agriculture and Farmers Welfare Department.	Member
7.	The Engineer-in-Chief and Chief Engineer (General), Water Resources Department	Member – Secretary

- d) To constitute an Expert Committee to guide the process through the implementation, as follows:-

1.	Engineer-in-Chief and Chief Engineer (General), Water Resources Department.	Chairman
2.	Chief Executive Officer, Tamil Nadu e-Governance Agency.	Member
3.	Managing Director, ELCOT	Member
4.	Expert from Indian Institute of Technology	Member
5.	Expert from Anna University	Member
6.	Director, Central Water Commission	Member
7.	Chief Engineer, State Ground and Surface Water Resources Data Centre	Member
8.	Representative - TUFISIL	Member
9.	Commissioner of Land Administration	Member
10.	Agriculture Production Commissioner and Secretary to Government, Agriculture and Farmers Welfare Department	Member
11.	The Engineering Director, Tamil Nadu Water Supply and Drainage Board	Member
12.	The Engineering Director, Chennai Metropolitan Water Supply and Sewerage Board.	Member
13.	Chief Engineer, Institute of Water Studies	Member – Secretary

6. The Engineer-in-Chief and Chief Engineer (General), Water Resources Department, Chennai is directed Coordinate with Chief Engineer, Inter-States Waters Wings to take follow up action to get loan from the NABARD under RIDF – XXVII for the year 2021 – 2022 and execute the work in FY 2022-2023.

7. The expenditure sanctioned at para 5 above shall be debited to the following head of account:- [40-05].

“4702-00 – Capital Outlay on Minor Irrigation 101 Surface Water State Expenditure- BE – Tamil Nadu Water Resources Information System 416 Major Works 01 Major Works.”

(IFHRMS 4702 – 00 -101 –BE- 416 01)

8. The Chief Engineer, Institute of Water Studies, Water Resources Department is the Estimating Reconciling and Controlling authority for the above new head of account.

9. The Pay and Accounts Officer/Treasury Officer concerned are directed to open the above new head of account in their books.

10. This order issues with the concurrence of Finance Department vide its U.O. No.9970/PW-II/2022, Dated 7.3.2022.

(By Order of the Governor)

Sandeep Saxena
Additional Chief Secretary to Government

To

- ✓ The Engineer-in-Chief and Chief Engineer (General),
Water Resources Department, Chennai -5.
- The Chief Engineer, Institute of Water Studies, Water Resources Department,
Chennai.
- The Committee Members,
The NABCONS,
48, Mahatma Gandhi Road, Nungambakkam, Chennai-34.
- The Pay and Accounts Officer (EAST), Chennai-8.
- The Principal Accountant General (Audit / A&E), Chennai-18.

copy to

- The Chief Minister's Office, Secretariat, Chennai-9.
- The Finance Department, Secretariat, Chennai-9.
- The Rural Development and Panchayat Raj Department, Chennai-9.
- The Information Technology Department, Chennai-9.
- The Agriculture and Farmers Welfare Department, Chennai-9.
- The Municipal Administration and Water Supply Department, Chennai-9.
- The Revenue and Disaster Management Department, Chennai-9.
- The Private Secretary to Chief Secretary to Government, Chennai-9.
- Stock File / Spare Copy

//Forwarded by Order//

S. Hejira Samant
10.3.2022
Section Officer

T013/22