



## ABSTRACT

Tamil Nadu Health System Reform Program – Conceptual Note and Operational Plan of HMIS – Approved and Adopted – orders - Issued.

### HEALTH AND FAMILY WELFARE (EAPI-1) DEPARTMENT

G.O.(Ms).No. 159

Dated: 24.03.2020  
Thiruvalluvar Aandu – 2051  
Vihari, Panguni – 11

#### Read :

From the Project Director, Tamil Nadu Health System Reform Program, letter No.2881/TNHSRP/2018, dated: 20.03.2020.

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#### ORDER:

In the reference read above, the Project Director, Tamil Nadu Health System Reform Program has stated that Tamil Nadu Health System Reform Program is being implemented by Government of Tamil Nadu with funding support from World Bank. As per the loan agreement the project will be funded under Program for Results mode, that is, the funds will be disbursed based on the achievement of pre-defined Disbursement Linked Indicators (DLI) in respect of the project activities. The following are the activities which are linked to disbursement for year one of the Project.

- i. To carryout Gap Analysis and to work out the Facility Improvement Plan for 300 Primary Health Centres, 75 Secondary care Health facilities and 7 Medical College Hospitals for obtaining NQAS/NABH accreditation.  
(Disbursement eligible US\$ 7,125,000)
- ii. To develop and adopt a "TN State Health Policy/ Strategy for Vision 2030" Document  
(Disbursement eligible US\$ 4,000,000)
- iii. To develop a "Quality of Care Strategy" for Government Primary, Secondary and Tertiary Care institutions.  
(Disbursement eligible US\$ 4,000,000)
- iv. "TN Non-Communicable Diseases Strategy" - to be developed and adopted.  
(Disbursement eligible US\$ 4,000,000)
- v. Tamil Nadu - Quality Enhancing Structured Training (TAN-QuEST)  
(Disbursement eligible US\$ 3,000,000)
- vi. To develop a conceptual Note and Operational plan for Strengthened HMIS  
(Disbursement eligible US\$ 6,000,000)

vii. Conceptual Model and operational plan for strengthened HMIS  
(Disbursement eligible US\$ 6,000,000)

2. The Project Director, Tamil Nadu Health System Reform Program has stated that Strengthened content, quality, accessibility and use of data for decision making. To develop a conceptual Model and Operational plan for a Strengthened HMIS covering all data sources, data channels including integration with electronic medical records and patient tracking for NCD.

**Background:**

Tamil Nadu has been one of the best performing states in India with reference to providing health care facilities to its citizens through its health care model particularly in the areas of maternal and child mortality rates. The State, through its Vision 2023 strategy, envisions not only to become the numero uno State in the country in terms of social indicators, but also reach the levels attained by developed countries in human development by ensuring universal access to health facilities. To achieve this, the key levers include building a robust and reliable HMIS system, universal healthcare platform and e-Health Record.

The Conceptual model and Operational plan for a strengthened HMIS covering all data sources, data channels including integration with electronic medical records and patient tracking for NCDs has been developed as a part of first year activity.

**Vision and Objectives**

The core tenets of the HMIS 2.0 envisioned by the State of Tamil Nadu are improved access, equity ensuring personalized healthcare, efficiency of healthcare system and quality of care. In order to achieve India's aspirations for Universal Health Coverage and the Government of Tamil Nadu's Sustainable Development Goals in the area of Health, the HMIS 2.0 would be designed to cater to all levels of healthcare facilities (Health Sub-Centers, Primary Health Care, Secondary Health Care and Tertiary Health Care), healthcare seekers and healthcare service providers. It would enable everyone in the health value chain right from the patients, doctors, institutions and the administrators to be linked digitally, thereby aiding in streamlining operations and access to patient information at the right time for the right purpose with defined levels of privacy and confidentiality.

**Guiding Principles for TN Health in building HMIS 2.0**

The guiding principles for TN Health in building HMIS 2.0 are discussed as follows

• **Crafting Vision and Mission Statements**

The HMIS 2.0 should be built on the underlying principle of providing inclusive access to the citizens of the State and to health providers to allow them to provide better case to citizens. The vision and mission statements in turn form the crux of the system to be built.'

• **Establishing Governance Structure**

Governance structure to be established for decision making and aligning on priorities and actions.

- **Reusability of existing systems**

Before building new systems, the current system will have to be analysed in a detailed manner to ascertain the potential reuse or re-engineering to allow the system to function with interoperability with the new structures. Only if the systems are incapable of capturing the envisaged functionality shall a new system be proposed.

- **Adherence to regulatory provisions**

The system shall be designed to adhere to the applicable regulatory provisions of the Government of India and ensure that the rights of the data principal (citizen) are protected always.

- **Adherence to standards**

Adherence to applicable standards for storage and transfer of clinical and administrative software between the applications.

- **Multichannel Delivery**

Relevant modules shall be rendered through multiple channels including desktop PCs/laptops, smart phones and tablets.

- **Digital by default**

Every effort must be taken by the data collector/recorder to ensure that the data points are directly captured through the system and not in paper or through any other modes to be later digitized. Conceptual Model & Operational Plan for HMIS 2.0

- **Adaptive User Experience**

Should embed UI and UX principles for providing unambiguous and seamless experience for the end user to use the application for the purpose intended.

- **Real-time monitoring**

Role-based access to dashboards shall be provided to the concerned stakeholders adhering to differential privacy requirements.

### **The Future IT Landscape of TN Health**

The future IT landscape of the Tamil Nadu Health Department shall have the HMIS 2.0 system at its core which shall integrate and be interoperable with the external State, Central Government systems and third parties, thereby facilitating bi-directional data sharing between these systems. All systems in the IT landscape shall be modular in nature with plug and play capabilities to build new features/functionalities in the systems for extended user and location bases and adopt emerging technologies. Further, with the health data being sensitive data, the landscape shall emphasize on data and cyber security to protect health data of the people of the State in lines with health standards and State and Central Government data protection policies.

3. The Project Director, Tamil Nadu Health System Reform Program has therefore requested the Government to issue orders for approving and adopting the draft Conceptual Note and Operational Plan of HMIS.

4. The Government after careful examination have decided to approve and adopt the Conceptual Note and Operational Plan of HMIS as annexed to this Government Order.

**(BY ORDER OF THE GOVERNOR)**

**BEELA RAJESH  
SECRETARY TO GOVERNMENT**

To

The Project Director, Tamil Nadu Health System Reform Program, Chennai-6.

The Mission Director, State Health Society, Chennai-6.

The Managing Director, Tamil Nadu Medical Services Corporation Ltd,  
Egmore, Chennai-8.

The Project Director, Tamil Nadu Urban Health Project, Chennai-6.

The Director of Medical Education, Chennai-10.

The Director of Medical and Rural Health Services, Chennai-6

The Director of Public Health and Preventive Medicine, Chennai-6

The Private Secretary to Chief Secretary, Chennai-9.

The Private Secretary to Additional Chief Secretary, Finance Department Chennai-9.

The Private Secretary to Secretary (Expenditure), Finance Department Chennai-9.

The Accountant General (A&E), Chennai- 18.

The Pay and Accounts Officer (south), Chennai-35

The Commissioner of Treasuries and Accounts, Nandhanam, Chennai-35.

Copy to

The Special Personal Assistant to Hon'ble Minister (Health and Family Welfare), Chennai-9.

The Finance (Health-II/ PWD-I/BG I&II/) Department, Chennai-9

The Health and Family Welfare (Data Cell) Department, Chennai-9.

SF/SC.

**//FORWARDED BY ORDER //**

*B. Rajesh*  
**SECTION OFFICER**

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