



## ABSTRACT

Tamil Nadu Health System Reform Program – Supported by World Bank – Strengthened content, quality, accessibility and use of data for decision making (HMIS) - Development of detailed data model and detailed design specification - Orders-Issued.

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

G.O.(Ms)No.14

Dated: 07.01.2022  
Thiruvalluvar Aandu – 2052  
Pilava, Margazhi – 23

#### Read :

From the Project Director, Tamil Nadu Health System Reform Program, Chennai Letter Ref.No. 4174/ TNHSRP/HMIS/2020, dated: 17.09.2021.

#### ORDER:

In the letter read above, the Project Director, Tamil Nadu Health System Reform Program has stated that 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 pre-eminent 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 care facilities. To achieve this, the key levers include building a robust and reliable HMIS system, universal healthcare platform and e-Health Record. Meanwhile, the GoTN has signed a Memorandum of Understanding (MoU) with the World Bank in Feb'2019 and launched the Tamil Nadu Health System Reform Program (TNHSRP) from July 29, 2019 which also encompasses better data through stronger HMIS and electronic medical records in the state as its objectives. Disbursement Linked Indicators (DLI #6) – Strengthened content, quality, accessibility and use of data for decision making. The year wise activities to achieve the outcome of DLI #6 is provided below to achieve the following Program Development Objectives, the activities are planned for five-year period from 2019 to 2024.

The Disbursement linked Indicators (DLI) for the year wise activity:

Disbursement - Linked Indicators (DLIs)	Disbursement- Linked Results (DLRs)				
	Results Achieved in	Results to be Achieved in			
	FY2019/20 (Year 1)	FY2020/21 (Year2)	FY2021/22 (Year 3)	FY2021/23 (Year 4)	FY2023/24 (Year 5)

Strengthened content, quality, Accessibility, and use of data for decision making	Detailed Conceptual Model and Operational Plan developed for a strengthened HMIS	Detailed data model and detailed design specification for integrated HMIS yet to be Completed	Contract awarded for development of integrated HMIS to be piloted in 1 PHC, 1 DHQ /TH, and 1MCH	Integrated HMIS implemented in all the health facilities of at least one district	Integrated HMIS implemented in all the health facilities in 9 districts
Claims assured by World bank	INR. 41,80,98,000	INR. 45,29,39,500	INR. 55,74,64,000	INR. 55,74,64,000	INR. 55,74,64,000
<b>Grand Total: INR 254,34,29,500</b>					
Receipt status	Received	To be claimed	To be claimed	To be claimed	To be claimed
<b>Total</b>	<b>INR. 41,80,98,000</b>				

2. The Project Director, Tamil Nadu Health System Reform Program has stated that as per the SEC meeting held on 03.08.2020, instructions were given to use the HMIS 2.0 which is being developed by NHM for achieving the 2<sup>nd</sup> year disbursement linked indicator. In this regard, a gap analysis between the HMIS 2.0 and Conceptual Note of TNHSRP was done and a feedback report was prepared and submitted by NHM.

The Gap analysis between HMIS (NHM) and the conceptual note by HMIS (TNHSRP)

I.

S.No	Modules already in development by NHM (HMIS) – 25 Nos
1	Patient Registration
2	Patient Charting module
3	Prescription module
4	Pharmacy module
5	Bed management
6	Case sheet module
7	Operation theatre module
8	Discharge summary module
9	Blood bank module
10	Registries module
11	Inventory modules
12	Identity access management
13	Reporting (Sift query based)
14	Help desk module
15	Laboratory module
16	Mortuary module
17	Asset management module
18	Business intelligence and dashboards
19	Appointment scheduling
20	Death summary module
21	Queue management
22	Billing
23	PACS (Picture archiving and Communication System)
24	Facility management
25	Clinical decision support system

II.

S.No	Modules to be developed exclusively as per the world bank requirement -9 Nos
1	My Health Portal
2	Feedback module
3	Health promotion and prevention
4	e-learning
5	Emergency epidemic management system
6	Smart policy decision making
7	Health care bots
8	VR enabled health care
9	Personalized mobile apps with integration to wearables

III.

S No	Modules to be integrated (existing modules) – 39 Nos
1	Dial 108
2	PICME
3	Crime and criminal tracking network system
4	TAEI
5	RBSK
6	Civil Registration system (CRS)
7	TANSACS
8	CMCHIS
9	TN PDS
10	National HMIS
11	HMIS 1 TN
12	Ayushman Bharat
13	MMU/HoWP
14	UHC IT App 9Universal Health Care
15	THAIMAI
16	CEmONC
17	PMSMA (Pradhan Mantri SurakshitMatritva Abhiyan)
18	TRANSTAN APP
19	Organ donor App
20	TN Tele Ophthalmology Network
21	Blood bank system
22	Biometric Attendance
23	MCCD (Medical Certification of Cause of Death)
24	NHRR (National Health Resource Repository)
25	TNMSC
26	DVDMS (Drugs and vaccines Distribution System)
27	TN NACO
28	NIKSHAY
29	TN CDSP (Communicable diseases)
30	IDSP/ IHIP
31	National Stroke Registry Programme
32	Oral Cancer
33	HWC hub
34	Tele-mentoring ECHO

35	National Health Portal
36	KAVALAN SOS App
37	Free Hearse service
38	JSSK
39	TN GIS (TN Geographical Information System)

## IV.

S.No	Models to be integrated (9 modules)
1.	My Health Portal
2.	Feedback Module
3.	Health Promotion and Prevention
4.	e-Learning
5.	Smart Policy Decision Making System
6.	Emergency Epidemic Management System
7.	Health Care Bots
8.	VR enabled healthcare
9.	Personalized Mobile Apps with integration to wearables

Mapping with existing stand-alone apps / modules that are available in Health and Family Welfare Department

S. No	Modules to be developed exclusively as per the world bank requirement -9 Nos	Mapping with stand-alone apps (completely or a component)
1	My Health Portal	PICME, CEmONC, THAIMAI, KAVALAN SOS App (Health staff and AN Mothers), CRS, National health portal
2	Feedback module	-
3	Health promotion and prevention	-
4	e-learning	Tele mentoring – ECHO, Tamil Nadu Tele Ophthalmology Network
5	Emergency epidemic management system	CDSP, IDSP/IHIP
6	Smart policy decision making	-
7	Health care bots	-
8	VR enabled health care	-
9	Personalized mobile apps with integration to wearables	-

First year activity - Amount sanctioned: FY (2019-2020)

S.No	Activity	Amount sanctioned	Amount spent	Disbursement received from World bank
		INR in Crores		
1	Detailed Conceptual model and operational plan developed for a strengthened HMIS completed	0.17	0.17	42

The second-year activity (FY: 2020-2021) is carried over to Third year (FY: 2021-22)

S. No	Year.	Proposed activity	Justification	Budget proposed	Disbursement expected	New/ ongoing activity
				INR in crores		
1	Year 3 (2021-22)	Detailed data model and detailed design specification for Integrated HMIS	Detailed data model and detailed design specification	1.60	45.50	Ongoing activity
			Drafting RFP for development of integrated HMIS	0.60		
			Bid process management selecting vendor for development of integrated HMIS	0.20		
			Total	2.40		

[Reference: 2<sup>nd</sup> year Rough Estimate prepared by private vendor]

3. The Project Director, Tamil Nadu Health System Reform Program has stated that for the second-year activity, 2021-2022, to carry out all related activities in a time bound manner as suggested by World Bank, these modules to be developed by a vendor identified by TNMSC on behalf of TNHSRP following due codal procedure, following which RFP to be drafted, bid to be raised and managed for their integration activity with the following breakup cost details for the year 2021-2022 and requested to orders in this regard.

**Detailed Budget of all activities under Strengthened Content, Quality, Accessibility and use of data for decision making (HMIS)**

**[2<sup>nd</sup> year Rough Estimate prepared by Private Vendor]**

Deliverable	Total cost in INR
Detailed Data Model and Detailed Design Specifications	1,60,00,000/-
Drafting RFP for development of integrated HMIS and key modules (electronic health record and reporting)	60,00,000/-
Bid Process Management Selecting Vendor for development of integrated HMIS and key modules (electronic health record and reporting) through TNMSC	20,00,000/-
Total	2,40,00,000/-

4. The Government after careful consideration of the proposal of the Project Director, Tamil Nadu Health System Reform Program have decided to accept the same and accordingly issue the following orders:-

- i. Sanction is accorded for an amount of Rs.2,40,00,000/- (Rupees Two Crore and Forty lakh Only) (as non-recurring Expenditure) towards the HMIS activities at mentioned in para 3 above.
- ii. The Project Director, Tamil Nadu Health System Reform Program is authorized to draw and disburse the amount sanctioned above.
- iii. A separate account to be maintained exclusively for TNHSRP funds in Directorates and facilities involved which should be operated by joint signatory.

6. The expenditure sanction in para 5(i) above shall be debited to the following head of account:-

2210 – Medical and Public Health – 01 Urban Health Services – Allopathy – 110 Hospital and Dispensaries – Externally Aided Projects – PG – Tamil Nadu Health System Reform Project – 309 Grants-in-Aid – 03 Grants for Specific Schemes. (2210 01 110 PG 309 03)

9. This order issues with the concurrence of the Finance Department vide its U.O.No.51547/Health-II/2021, Dated: 05.01.2022.

(BY ORDER OF THE GOVERNOR)

J.RADHAKRISHNAN  
PRINCIPAL 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 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) Department, Chennai-9.

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

SF/SC.

//FORWARDED BY ORDER //

*Radhakrishnan*  
10.01.2022

SECTION OFFICER

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