



ABSTRACT



Tamil Nadu Health System Reform Program – Implementation of second year activities of Tamil Nadu Health System Reform Program for Upgradation and Strengthening of Trauma Care Centers at a cost of Rs.27.84,91,800/- (Rupees Twenty Seven Crore Eighty Four Lakhs Ninety One Thousand and Eight Hundred only) - Sanctioned - Orders- Issued.

HEALTH AND FAMILY WELFARE (EAPI-1) DEPARTMENT

5547

G.O.(Ms).No.443

**Dated: 02.11.2020
Sarvari, Iyppasi – 17
Thiruvalluvar Aandu – 2051**

Read

1. G.O.(Ms) No.231, Health and Family Welfare (EAPII-2) Department, dated 22.06.2017
2. G.O.(Ms) No.273, Health and Family Welfare (EAPII-2) Department, dated 03.08.2017
3. G.O.(Ms) No.214, Health and Family Welfare (EAPII-1) Department, dated 05.06.2018.
4. G.O.(2D) No.141, Health and Family Welfare (EAP1-1) Department, dated 05.09.2019.
5. G.O.(Ms) No.266, Health and Family Welfare (EAPII-2) Department, dated 10.06.2019.
6. G.O.(2D) No.19, Health and Family Welfare (EAP1-1) Department, dated 04.02.2020.
7. Minutes of the Second State Empowered Committee Meeting on 03.08.2020.

Read also:

8. From the Project Director, Tamil Nadu Health System Reform Program, Letter Ref:No.2881/TNHSRP/PMU/2020, Dated: 28.08.2020.

ORDER:

In Government Order first read above, orders have been issued according permission to implement the Trauma care network in the name of 'Tamil Nadu Accident and Emergency Care Initiative (TAEI) and the Mission Director, National Health Mission is designated as ex-officio Commissioner of Trauma care. In Government Order second read above, permission has been accorded to start the baseline survey in the following four Hospitals:

- a) Rajiv Gandhi Government General Hospital attached to Madras Medical College.

- b) Villupuram Medical College Hospital
- c) District Headquarters Hospital, Cuddalore
- d) District Headquarters Hospital, Perambalur

2. In Government Order third read above, orders have been issued to establish 'Tamil Nadu Accident and Emergency Care Initiative (TAEI) Steering Committee under the Chairmanship of the Principal Secretary to Government and 'Tamil Nadu Accident and Emergency Care Initiative (TAEI) administrative structure. In Government Order fifth read above, orders have been issued approving the Tamil Nadu Accident and Emergency Care Policy.

3. The Project Director, Tamil Nadu Health System Reform Program has informed that Tamil Nadu Health System Reform Program is a World Bank supported project implemented by Department of Health and Family Welfare (DoH&FW) of Tamil Nadu Government on Program for Results (P for R) basis. The program claims at achieving SDG 3 target by ensuring health lives and promising wellbeing for all at all ages in Tamil Nadu. The total budget of the program is 287 million US\$ over a period of 5 years which will supplement the overall budget of Government of Tamil Nadu in health department of 4,990 million US\$ in next 5 years to achieve the results. The loan agreement was signed on 04.06.2019 and the effectiveness date is declared as 29.07.2019. In the Government Order fourth read above, the Administrative Sanction of the project was accorded. The Goal of the Project is to improve quality of care, strengthen management of non-communicable diseases and injuries, and reduce inequities in reproductive and child health services in Tamil Nadu. The project is being implemented and the first-year activity carried out from July 2019 to March 2020. In first year, all the disbursement linked results were achieved and disbursement claimed to the World Bank of USD 5,20,23,500 and the budget allotted for the first year activity was sanctioned in the Government Order sixth read above.

4. The Project Director, Tamil Nadu Health System Reform Program has forwarded the proposal approved by the State Empowered Committee headed by the Chief Secretary to sanction an amount of Rs.27.84 Crores (Rupees Twenty seven crore and eighty four lakh only) towards implementation of second year activities of Tamil Nadu Health System Reform Program for Upgradation and Strengthening of Trauma Care Centers as detailed below:

The Government of Tamil Nadu is committed to reduce the avoidable morbidity and mortality due to trauma including Road traffic accidents (RTA) and other emergencies. In trauma care, definitive management at the appropriate level of institution at the earliest possible time (Golden Hour) is essential to reduce mortality and morbidity. Towards this, the 'Tamil Nadu Accident and Emergency Care Initiative (TAEI) program of the Department of Health and Family Welfare, Government of Tamil Nadu has brought about considerable improvement in trauma care services. As a further impetus to the ongoing process of upgradation of our trauma care services, World Bank funded Tamil Nadu Health System Reform Program (TNHSRP) is working on Disbursement Linked Indicator (DLI) on

- Improved provision of quality trauma care services
 - Establishment of Trauma registry
 - Facilitating early surgeries among the emergency admissions
 - Reduction in the Inter-Facility Transfers (IFTs)

- Improved Capacity of trauma care providers.

A detailed gap analysis of the existing trauma care services was done and the following were the observations,

- a) Shortage of specialists (Neurosurgeons, Anesthetists, etc) in some institutions were noted
- b) Some institutions need augmentation of Emergency Operation Theatres services with provision of additional OT suites for taking up of clean cases (Neuros and Orthopaedic emergency surgeries)
- c) As part of capacity building there is need for continuous Trauma Care and Emergency management training to all personnel involved in Trauma and emergency care services including First Responders
- d) The Inter Facility Transfer (IFT) calls percentage stands at 43% which is quite high, in this trauma related cases form a sizeable proportion (30%). Taking the right patient to the right centre at the right time reduces the avoidable interfacility transfers and also the mortality and morbidity

To achieve the indicators mentioned in the Disbursement Linked Indicator (DLI), the trauma and emergency care system in the state needs to be strengthened, so that the timely and assured care are provided to critical and emergent patients at the assured level of trauma care centers.

PROPOSAL

- i) Strengthen and Upgrade 13 institutions as Level-1 and 29 institutions as Level-2 with additional HR, Civil modifications and equipment (The list of institutions and components are in annexure annexed to this Government Order)
- ii) Establishment of State apical trauma surveillance center at the headquarters with real-time monitoring of trauma related activities in 13 level-I institutions.
- iii) Establishment of Training centres at 13 Level-1 institutions to provide Level-3 (BTLS), Level-4 (ATLS), other emergencies related training including First Responders.

Total Cost

Recurring cost (Rs.)	Non-Recurring Cost (Rs.)	Total (Rs.)
16,52,91,800	11,32,00,000	27,84,91,800

This proposal had been duly approved by the state Empowered committee in its meeting held on 03.08.2020 and the Project Director, Tamil Nadu Health System Reform Program has therefore requested the Government to issue necessary orders for upgradation of trauma centers by sanctioning the required posts for HR upgradation and to perform the civil modification as mentioned above.

5. 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) The Director of Medical Education is permitted to Strengthen and Upgrade 13 institutions as Level-1 with additional HR, Civil modifications and equipment as detailed in the annexure annexed to this Government Order.

- ii) The Director of Medical Education and Director of Medical and Rural Health Services are permitted to strengthen and Upgrade 29 institutions as Level-2 with additional HR, Civil modifications and equipment as detailed in annexure II annexed to this Government Order.
- iii) The Project Director, Tamil Nadu Health System Reform Program is permitted to Establish State apical trauma surveillance center at the headquarters with real-time monitoring of trauma related activities in 13 level-I institutions detailed in annexure annexed to this Government Order and sanction is accorded to utilize Rs.3,25,000/- (Rupees Three lakh twenty five thousand only) as detailed in annexure III annexed to this Government Order.
- iv) The Director of Medical Education is permitted to establish trauma and emergency surveillance centre to monitor trauma related activities at 13 level 1 centres and sanction is accorded for an amount of Rs.0.23 crores (Rupees twenty three lakh only) to the Directorate of Medical Education towards the Establishment of Trauma and Emergency Surveillance center in 13 Level-1 centres.
- v) The Director of Medical Education is permitted to Establish Training centres at 13 Level-1 institutions to provide Level-3 (BTLS), Level-4 (ATLS), other emergencies related training including First Responders as detailed in annexure III annexed to this Government order.
- vi) Sanction is accorded for an amount of Rs.13,28,90,040 (Rupees Thirteen crore twenty eight lakh ninety thousand and fourty only) and Rs.70,01,760 (Rupees Seventy lakh one thousand seven hundred and sixty only) to the Directorate of Medical Education and Directorate of Medical and Rural Health Services respectively towards the salary component as detailed in annexure III annexed to this Government Order.
- vii) Sanction is accorded for an amount of Rs.2.5 crores (Rupees two crore and fifty lakh only) and Rs.0.4 crores (Rupees fourty lakh) to the Directorate of Medical Education and Directorate of Medical and Rural Health Services respectively towards the civil modifications for emergency operational theatre through Public Works Department (PWD) detailed in annexure annexed to this Government Order.
- viii) Sanction is accorded for an amount of Rs. 3.1 crores (Rupees three crore ten lakh) to the Directorate of Medical Education towards the procurement of equipment through Tamil Nadu Medical Services Corporation (TNMSC) as detailed in annexure annexed to this Government Order.
- ix) Sanction is accorded for an amount of Rs.4.70 crores (Rupees four crore seventy lakh only) and Rs.0.3 crores (Rupees thirty lakh only) to the Directorate of Medical Education and Directorate of Medical and Rural Health Services respectively towards the operational cost (including item No.7.14 providing alteplase vials to 41 institutions detailed in annexure annexed to this Government order.
- x) Sanction is accorded for an amount of Rs. 2.06 crore (Rupees two crores six lakh only) to the Directorate of Medical Education towards the establishment of the training centers in 13 level-1 centers through Tamil Nadu Medical Services Corporation (TNMSC) detailed in annexure annexed to this Government order.

6. The expenditure sanctioned in para 5 above, shall be debited to the following heads of account:-

HOD	Head of Account
TNHSP	2210 – Medical and Public Health – 01 Urban Health Services – Allopathy – 110 Hospitals and Dispensaries – Externally Aided Project – PG – Tamil Nadu Health Systems Reforms Project – 309 Grants in Aid -03 Grants for Specific Schemes (DPC 2210 01 110 PG 0930) IFHRMS 2210 01 110 PG 30903
DME	2210 - Medical and Public Health – 01 Urban Health Services – Allopathy – 110 Hospitals and Dispensaries - Externally Aided Project PE, Tamil Nadu Health Systems Reforms Project – Administrated by Director of Medical Education – 309 Grants in Aid – 03 Grants for specific schemes (2210 01 110 PE 30903)
DMS	2210 - Medical and Public Health – 01 Urban Health Services – Allopathy – 110 Hospitals and Dispensaries - Externally Aided Project –Project Director, Tamil Nadu Health Systems Reforms Project – Administrated by Director of Medical and Rural Health Services – 309 Grants in Aid - 03 Grants for Specific Schemes (2210 01 110 PD 30903)

7. This order issues with the concurrence of the Finance Department vide its U.O.No.33933/Health-II/2020, Dated: 28.10.2020.

(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

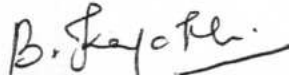
The Commissioner of Treasuries and Accounts, Nandhanam, Chennai-35.

Copy to

The Special Personal Assistant to Hon'ble Chief Minister, Chennai-9

The Special Personal Assistant to Hon'ble Deputy Chief Minister, Chennai-9
The Special Personal Assistant to Hon'ble Minister (Health and Family Welfare), Chennai-9.
The Principal 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 Finance (Health-II) Department, Chennai-9.
Health and Family Welfare Department, (Data cell) Chennai-9
SF/SC

//FORWARDED BY ORDER //


SECTION OFFICER


Annexure - I

Annexure to G.O.(Ms)No.443, Health and Family Welfare (EAPI-1) Department, dated: 02.11.2020.

List of institution with component of strengthening- level I institution											
		HR component					Equipment	Civil works	Operational cost	Establishment of training centre	Medicine cost (Alteplase 20 vials per year)
S. No.	Colleges	Neurosurgeons	Plastic surgeons	Anaesthetist	Vascular surgeons	Cardiothoracic surgeon					
1	Rajiv Gandhi Govt. General Hospital, Madras Medical College, Chennai	NIL	NIL	NIL	NIL	NIL	1000000	1000000	1000000	2000000	600000
2	Govt. Stanley Medical College Hospital, Chennai	NIL	NIL	NIL	NIL	NIL	1000000	0	1000000	2000000	600000
3	Govt. Thanjavur Medical College & Hospital	NIL	NIL	2	NIL	NIL	nil	0	1000000	2000000	600000
4	Govt. Rajaji Hospital Madurai Medical College	NIL	NIL	NIL	NIL	NIL	1000000	1000000	1000000	2000000	600000
5	Govt. Tirunelveli medical College Hospital	NIL	NIL	2	NIL	NIL	nil	0	1000000	2000000	600000
6	Govt. Kilpauk Medical College Hospital & Royapettah	4	NIL	NIL	NIL	2	1000000	0	1000000	2000000	600000
7	Govt. Mohan Kumaramangalam Medical College Hospital, Salem	NIL	NIL	NIL	1	NIL	1000000	1000000	1000000	2000000	600000
8	Govt. Coimbatore Medical College Hospital	NIL	NIL	4	1	NIL	1000000	1000000	1000000	2000000	600000

9	Govt. K.A. P. Vishwanathan Govt. Medical college Hospital, Trichy	2	NIL	4	1	NIL	1000000	0	1000000	2000000	600000
10	Govt. Villupuram Medical College Hospital	4	2	4	NIL	2	1000000	0	1000000	2000000	600000
11	Govt. Chengalpattu Medical College Hospital	4	NIL	2	1	2	1000000	1000000	1000000	2000000	600000
12	Govt. Dharmapuri Medical College Hospital	4	1	4	1	2	1000000	1000000	1000000	2000000	600000
13	Govt. Vellore Medical College Hospital	3	2	4	1	2	1000000	1000000	1000000	2000000	600000
Total		21	5	26	6	10	11000000	70,00,000	13000000	26000000	7800000

J.RADHAKRISHNAN
PRINCIPAL SECRETARY TO GOVERNMENT

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B. Jayaraj
SECTION OFFICER

Annexure - II

Annexure to G.O.(Ms)No.443, Health and Family Welfare (EAPI-1 Department, dated: 02.11.2020.

List of institution with component of strengthening- level 2 institution

S.No.	Institution	Anesthetists	Equipments	Civil modification	Operational cost	Medicine cost (Alteplase20 vials per year)
1	Government Kanniyakumari Medical College & Hospital, Kanniyakumari	1	1000000	0	500000	600000
2	Government Sivagangai Medical College, Sivagangai	1	1000000	1000000	500000	600000
3	Government Theni Medical College, Theni	1	1000000	0	500000	600000
4	Government Thoothukudi Medical College & Hospital, Thoothukudi	1	1000000	0	500000	600000
5	Government Thiruvannamalai Medical College & Hospital, Thiruvannamalai	1	1000000	0	500000	600000
6	Government Thiruvannamalai Medical College, Thiruvannamalai	1	0	0	500000	600000
7	Government Pudukottai Medical College & Hospital, Pudukottai	1	0	1000000	500000	600000
8	Government Medical College & Hospital at Block B, Omandurar	1	1000000	1000000	500000	600000
9	IRT, Perundurai Medical College	1	1000000	1000000	500000	600000
10	Government Medical College, Karur	1	1000000	1000000	500000	600000
11	Government Medical College and ESIC Hospital, Coimbatore	1	1000000	1000000	500000	600000
12	Government Cuddalore Medical College, Chidambaram (Raja Muthiah Medical College Hospital, Chidambaram)	1	1000000	1000000	500000	600000
13	Government Kallakurichi Medical college Hospital, Kallakurichi	1	1000000	1000000	500000	600000
14	Government Ariyalur Medical college Hospital, Ariyalur	1	0	1000000	150000	600000

15	Government Dindigul Medical College Hospital, Dindigul	1	1000000	1000000	500000	600000
16	Government Krishnagiri Medical College Hospital, Krishnagiri	1	1000000	1000000	500000	600000
17	Government Tiruppur Medical College Hospital, Tiruppur	1	1000000	1000000	500000	600000
18	Government Nilgris Medical College Hospital, the Nilgris	1	1000000	1000000	500000	600000
19	Government Ramanathapuram Medical College Hospital, Ramanathapuram	1	1000000	1000000	500000	600000
20	Government Viruthunagar Medical College Hospital, Viruthunagar	1	0	1000000	500000	600000
21	Government Nagapattinam Medical College Hospital, Nagapattinam	1	0	1000000	500000	600000
22	Government Namakkal Medical College Hospital, Namakkal	1	1000000	1000000	150000	600000
23	Government Tiruvallur Medical College Hospital, Tiruvallur	1	1000000	0	500000	600000
24	Government District Head Quarters Hospital, Erode	1	0	1000000	150000	600000
25	Government District Head Quarters Hospital, Kancheepuram	1	0	1000000	150000	600000
26	Government District Head Quarters Hospital, Cuddalore	1	0	1000000	150000	600000
27	Government District Head Quarters Hospital, Perambalur	1	0	1000000	150000	600000
28	Government Hospital, Royapettah	NIL	1000000	0	500000	600000
29	Institute of Child Health, Egmore	NIL	1000000	1000000	500000	0
Total		27	20000000	22000000	12400000	16800000

J.RADHAKRISHNAN
PRINCIPAL SECRETARY TO GOVERNMENT

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B. Jayalalitha
SECTION OFFICER

Annexure -III

Annexure to G.O.(Ms)No.443, Health and Family Welfare (EAPI-1 Department, dated: 02.11.2020.

DETAILED BUDGET OF ALL ACTIVITIES

Upgradation & Strengthening of Trauma Care Centres																	
PDO Indicators	Activities	Description S.No.	Description	Budget for per unit or per month	Total Nos.	Budget/ Month (Rs.)	Budget per annum (Rs.)	Commitment from NHM (Rs.)	Recurrent/ Non Recurrent	Recurrent	Non Recurrent	Additional comments	DPH	DMS	DME	NHM	TNHSP
DLI 4.2. Early surgeries & DLI 4.3 Reduction of IFT percentage	Establishing Trauma & Emergency Surveillance System	7.1. A	Establishment of State apical Trauma & Emergency Surveillance center with real time monitoring of trauma-related activities at 13 Level-1 centres.	325000	1		325000	-	Non Recurring		325000	State level Trauma & Emergency Surveillance center is an objective of TAEI, as mentioned in GO (Ms) No. 214 of Health and Family Welfare (EAPII-1) Department dated 05.06.2018. Components: A) 1 Big sized LCD TV at state level centre and connectivity charges for connecting with all 13 regional centres B) 4 CCTV cameras and one TV in each TAEI centre with connections and connectivity charges			2275000		325000
		7.1. B	Establishment of Trauma & Emergency Surveillance center in 13 level-1 centres in phase I	175000	13		2275000	-	Non Recurring		2275000						

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7.5	Vascular Surgeons in Level I centres Chengalppet, Dharmapuri, Vellore, Salem, Coimbatore, Trichy (1 in each)	90870	6	545220	6542640	-	Recurring	6542640			6542640		
7.6	Cardio Thoracic Surgeons in 5 level I Centers Chengalppet, Dharmapuri, KMC, Vellore, Villupuram MCHs	90870	10	908700	10904400	-	Recurring	10904400			10904400		
7.7	Additional OT Staff Nurses in 13 Level 1 Centers (2 Nos.) & 1 Nos. in 27 Level 2 centres, GRH and ICH	40000	55	2200000	26400000	-	Recurring	26400000			1920000	24480000	
7.8	2 OT Technician per Level 1 centres & 1 OT Technician per Level 2 centres, GRH and ICH	15,000	55	825000	9900000	-	Recurring	9900000			720000	9180000	
										The expenditure towards the salary for the posts shall be temporarily borne from the Project fund during the period of project and further continuation may be borne by the NHM & State Govt.			

Establishment of Training centres	7.9	Establishment of Training Centers @ 13 Level 1 centers Furnitures and audio visual appliances, etc.,.	2000000	13		26000000	Non Recurring		26000000	26000000	Activities like 1. Identification of Specific space for the establishment of Training centre 2. Requirements of Audio-visual equipment and /or Functional Mannequins, etc.,.		26000000		
	7.10	Civil modifications for Emergency Operation Theatre in all level-1 & 2 centres, GRH and ICH (42 Nos.)	1000000	29		29000000	Non Recurring	53770000*		2,90,00,000	Creation /Equation of EOT to two suites, 1 for regular emergency and another for clean cases- Neurosurgery / Orthopedics	4000000	25000000		
	7.11	Equipment for Emergency dept. OT-In all level-1 & 2 centres, GRH and ICH (42 Nos.)	1000000	31		31000000	Non Recurring	91212000*		31000000	List of equipment for level-1 & level-2 centres is added later in the Annexure	0	31000000		
	7.12	Operational cost for 13 level-1 centres	1000000	13		13000000	Recurring	-	13000000		For the procurement of Consumables like Prosthesis, etc.,.		13000000		
	7.13	Operational cost for 27 level-2 centres, GRH and ICH	500000	29		12400000*	Recurring	2100000*	12400000		For the procurement of Consumables like Prosthesis, etc.,.	600000	11800000		

		Alteplase Vials (5 vials per centre for every 3 months for 13 Level 1 & 27 Level 2 centres and GRH)	30000	820		24600000	Non Recurring	165291800	113200000	0	14001760	264165040	0	3250000
	7. 14													
Total						278491800	147082000							

Commitment from National Health Mission towards Upgradation and Strengthening of Trauma care centres as approved per RoP 2020-21.

The budget for Civil modifications and Equipment provided to all the Level-1 & 2 centres, except the centres for which the budget fund is approved from the RoP of National Health Mission for the Year 2020-21. The details of the commitment from NHM with the list of centres with their respective approved budgets is given below.

The budget for Operational cost of Rs.10,00,000 and Rs. 5,00,000 is provided to all the Level-1 & 2 centres. The details of the contribution from NHM as per the RoP 2020-21 is given below (6 of the level-2 centres are approved for a budget of Rs.3,50,000, the remaining budget of Rs. 1,50,000 of these centers is met by the TNHSRP fund).

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