





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, lyppasi – 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.)
1	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.

- 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.
- 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.
- 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 //

ECTION OFFICER

Annexure - I

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

		List of	institut	List of institution with compo	ompone	nent of strengthening- level I institution	thening-	level I ins	stitution		
			I	HR component				Civil	Operational	Establishment	Medicine
s. No.	Colleges	Neurosurgeons	Plastic surgeons	Anaesthetist		Vascular Cardiothoracic surgeon	Equipment	works	cost	of training centre	(Alteplase 20 vials per year)
	Rajiv Gandhi Govt. General Hospital, Madras Medical College, Chennai	NIL	NIL	NIL	NIL	NIL	1000000	1000000	1000000	2000000	000009
2	Govt. Stanley Medical College Hospital, Chennai	NIL	NIL	NIL	NIL	NIL	1000000	0	1000000	2000000	600000
К	Govt. Thanjavur Medical College & Hospital	NIL	NIL	2	NIL	NIL	lin	0	1000000	2000000	000009
4	Govt. Rajaji Hospital Madurai Medical College	NIL	NIL	NIL	NIL	NIL	1000000	1000000	1000000	2000000	600000
2	Govt. Tirunelveli medical College Hospital	NIL	NIL	2	NIL	NIL	liu	0	1000000	2000000	000009
9	Govt. Kilpauk Medical College Hospital &Rovapettah	4	NIL	NIL	NIL	2	1000000	0	1000000	2000000	000009
7	Govt. Mohan Kumaramangalam Medical College Hospital, Salem	NIF	NIL	NIL	1	NIL	1000000	1000000	1000000	2000000	000009
ω	Govt. Coimbatore Medical College Hospital	NIL	NIL	4	1	NIL	1000000	1000000	1000000	2000000	000009

000009	000009	000009	000009	000009	7800000
2000000	2000000	2000000	2000000	2000000	26000000
1000000	1000000	1000000	1000000	1000000	13000000
0	0	1000000	1000000	1000000	70,00,000
1000000	1000000	1000000	1000000	1000000	11000000
NIL	2	2	2	2	10
н	NIL	1	1	1	9
4	4	2	4	4	26
NIL	2	NIL	1	2	2
2	4	4	4	n	21
Govt. K.A. P. Vishwanathan Govt. Medical college	Govt. Villupuram Medical College	Govt. Chengalpattu Medical College Hospital	Govt. Dharmapuri Medical College Hospital	Govt. Vellore Medical College Hospital	Total
o .	10	11	12	13	-

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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	200000	.600000
2	Government Sivagangai Medical College, Sivagangai	1	1000000	1000000	200000	600000
m	Government Theni Medical College, Theni	1	1000000	0	200000	000009
4	Government Thoothukudi Medical College & Hospital, Thoothukudi	1	1000000	0	200000	000009
2	Government Thiruvannamalai Medical College & Hospital, Thiruvannamalai	1	1000000	0	200000	000009
9	Government Thiruvarur Medical College, Thiruvarur	1	0	0	200000	000009
7	Government Pudukottai Medical College & Hospital, Pudukottai	1	0	1000000	200000	000009
∞	Government Medical College & Hospital at Block B, Omandurar	Ţ	1000000	1000000	200000	000009
6	IRT, Perundurai Medical College	1	1000000	1000000	200000	000009
10	Government Medical College, Karur	1	1000000	1000000	200000	000009
11	Government Medical College and ESIC Hospital, Coimbatore	1	1000000	1000000	200000	000009
12	Government Cuddalore Medical College, Chidambaram (Raja Muthiah Medical College Hospital, Chidambaram)		1000000	1000000	500000	000009
13	Government Kallakurichi Medical college Hospital, Kallakurichi	1	1000000	1000000	200000	000009
14	Government Ariyalur Medical college Hospital, Ariyalur	1	0	1000000	150000	000009

PRINCIPAL SECRETARY TO GOVERNMENT J. KADHAKKISHNAN

SECTION OFFICER

Government District Head Quarters

Hospital, Cuddalore

Government District Head Quarters

Hospital, Kancheepuram

Government District Head Quarters

Hospital, Perambalur

Government Hospital, Royapettah Institute of Child Health, Egmore

Government Krishnagiri Medical College

Hospital, Krishnagiri

Government Dindigul Medical College

Hospital, Dindigul

Government Tiruppur Medical College

Hospital, Tiruppur

Government Nilgris Medical College

Hospital, the Nilgris

Government Viruthunagar Medical College

Government Ramanathapuram Medical

College Hospital, Ramanathapuram

Government Namakkal Medical College

Hospital, Namakkal

Government Nagapattinam Medical

Hospital, Viruthunagar

College Hospital, Nagapattinam

Government Tiruvallur Medical College

Government District Head Quarters

Hospital, Erode

Hospital, Tiruvallur

ZIZ NIL

Total	27	20000000	22000000	12400000	16800000	
			-	DADUAKDICUNAN	NA	

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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

	qshnt	325000	
	WHN		
	DWE		2275000
	DWS		
	ррн		
	Additional comments	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 connecting with all 13 regional centres B) 4 CCTV cameras and one TV in each TAEI centre with connections and connectivity charges
Strengthening of Trauma Care Centres	Mon Recurrent	325000	2275000
auma Ca	Recurrent		
ng of Tra	Recurrent/ Non Recurrent	Mon Recurring	Non Recurring
engtheni	omtimmoD mont from "(sA) MHN	1	
ition & Str	Budget per annum (Rs.)	325000	2275000
Upgradation &	Budget/ Month (Rs.)		
	.soM lstoT	П	13
	Budget for per unit or per month	325000	175000
	Description	Establishment of State apical Trauma & Emergency Surveillance center with real time monitoring of traumarelated activities at 13 Level-1 centres.	Establishment of Trauma & Emergency Surveillance center in 13 level-1 centres in phase I
	Description S.No.	7.1. A	7.1. B
	Activities		Establishi ng Trauma & Emergenc y Surveilla nce System
×	PDO PDO Fudicators	DLI 4.2.	Early less less less less less less less le

22899240	53431560	5452200
	4361760	
The	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. Detailed work-up follows at the end of this	a contract of the contract of
22899240	57793320	5452200
Recurring	Recurring	Recurring
		1
22899240	57793320	5452200
1908270	4816110	454350
21	53	Ŋ
90870	90,870	90870
Neurosurgeo ns @ Assistant Prof. cadre(level 1 institutions) Details as per the gap analysis enclosed	Additional Anaesthetist s- As per need in 13 level I DME Institutions (26 nos.) & 1 per 27 level II centres (=23 DME + 4 DMS institutions viz Perambalur, Cuddalore, Kancheepur am & Erode Govt. DHQH) {Total- 26+27= 53}	Plastic surgeons in Level- 1 centres minimum 2 per level I centre Vellore, Villipuram - 2 Dharmapuri
7.2	7.3	7.4
	Provision of additional HR Support to increase timely polytrau ma surgeries and to reduce Inter Facility Transfers	1 5

04	00	0	0
6542640	10904400	24480000	9180000
		1920000	720000
		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.
6542640	10904400	26400000	0000066
Recurring	Recurring	Recurring	Recurring
. I	ı	T	I
6542640	10904400	26400000	0000066
545220	908700	2200000	825000
9	10	55	55
90870	90870	40000	15,000
Vascular Surgeons in Level I centres Chengalpet, Dharmapuri, Vellore, Salem, Coimbatore , Trichy (1 in each)	Cardio Thoracic Surgeons in 5 level I Centers Chengalpet, Dharmapuri, KMC, Vellore, Villupuram MCHs	Additional OT Staff Nurses in 13 Level 1 Centers(2 Nos.) &1 Nos. in 27 Level 2 centres, GRH and ICH	2 OT Technician per Level 1 centres& 1 OT Technician per Level 2 centres, GRH and ICH
7.5	7.6	7.7	7.8
	/		

26000000	25000000	31000000	1300000	11800000
	4000000	0		000009
Activities like 1. Identification of Specific space for the establishment of Training centre 2. Requirements of Audio- visual equipment and /or Functional Mannequins, etc.,	Creation /Equation of EOT to two suites, 1 for regular emergency and another for clean cases- Neurosurgery / Orthopedics	List of equipment for level-1 & level-2 centres is added later in the Annexure	For the procurement of Consumable s like Prosthesis, etc.,	For the procurement of Consumable s like Prosthesis, etc.,
26000000	2,90,00,000	31000000		
			13000000	12400000
Non Recurring	Моп Recurring	Non Recurring	Recurring	Recurring
	53770000+	91212000*	1	21000000®
26000000	29000000	31000000	1300000	12400000®
13	59	31	13	53
2000000	1000000	1000000	000000	200000
Establishme nt of Training Centers (a) 13 Level I centers and audio visual appliances, etc,	Civil modification s for Emergency Operation Theatre in all level-1 &2 centres, GRH and ICH (42 Nos.)	Equipment for Emergency dept. OT-In all level-1 82 centres, GRH and ICH (42 Nos.)	Operational cost for 13 level- 1 centres	Operational cost for 27 level-2 centres, GRH and ICH
7.9	7.	7.	7.	7.
Establish ment of Training centres	Civil modifica tions, Equipm	ent & Operati onal cost-In all 13 Level 1 & 27 Level 2 centres	(23 MCH & 4 DMS)	

7.	Alteplase Vials (5 vials per centre for every 3 months for 13 Level 1 & 27 Level 2 centres and GRH	30000	820		24600000		Mon Recurring		24600000		2400000	22200000		
				Total	Total 278491800	147082000		165291800 113200000	113200000	0	14001760	0 14001760 264165040 0 325000	0	325000

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

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

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). 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

J.RADHAKRISHNAN PRINCIPAL SECRETARY TO GOVERNMENT

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