



## ABSTRACT

Medical Education – Mahatma Gandhi Memorial Government Hospital attached to KAP Viswanatham Government Medical College at Thiruchirapalli – Administrative and Financial Sanction for the purchase of equipment – Orders – Issued.

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### HEALTH AND FAMILY WELFARE (J1) DEPARTMENT

G.O.(Ms.) No.412

Dated:17.12.2014  
Thiruvalluvar Aandu 2045,  
Jaya – Margazhi:2

Read:

1. G.O.(Ms)No.41, Health and Family Welfare (J1) Department, dated:24.01.2012.
2. G.O.(Ms)No.200, Health and Family Welfare (J1) Department, dated:18.06.2012.
3. From Director of Medical Education letter Ref.No.47340/P&DII(1)/2013, dated.20.11.2013 and 04.02.2014

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### ORDER:

In the Government Order first read above, among others things, the Government have accorded administrative and financial sanction for a sum of Rs.53.97 crore under 13<sup>th</sup> Finance Commission Grant after obtaining approval of High Level Monitoring Committee for the construction of Trauma Care with Super Specialty Block at Annal Gandhi Memorial Government Hospital and it has been ordered therein that the remaining amount of Rs. 1.03 crore shall be sanctioned from the state fund for the construction of Trauma Care with Super Specialty Block at Annal Gandhi Memorial Government Hospital. In the Government Order second read above, orders have been issued sanctioning a sum of Rs.1.03 crore for construction of Trauma Care with Super Speciality Block at Mahatma Gandhi Memorial Government Hospital, Trichy.

2. The Director of Medical Education has requested to accord necessary administrative and financial sanction for a sum of Rs. 45,00,13,265/- for the purchase of equipment to Mahatma Gandhi Memorial Hospital, Thiruchirapalli so as to provide better treatment to the public in a full fledged manner.

3. The Government have examined the request of the Director of Medical Education and accord administrative and financial sanction for a sum of Rs.21,78,66,400/-(Rupees Twenty One Crore Seventy Eight Lakhs Sixty Six Thousand and Four Hundred only) towards purchase of equipment for Mahatma Gandhi Memorial Government Hospital attached to KAP Viswanatham Government Medical College at Thiruchirapalli as detailed in the annexure to this order.

4. The expenditure sanctioned in para 3 above shall be debited to the following head of account:-

“2210 – Medical and Public Health – 01 Urban Health Services  
Allopathy 110 – Hospitals and Dispensaries - Schemes in the  
Twelfth Five Year Plan- II State Plan – JJ Improvements to Teaching  
Hospitals – 19 Machinery and Equipments 01 Purchase.  
(DPC 2210 – 01 – 110 – JJ – 1911)”.

5. The expenditure sanctioned in para 3 above shall constitute an item of “New Instrument of Service” and the approval of Legislature will be obtained in due course. Pending approval of Legislature, the expenditure will be initially met by an advance from the Contingency Fund. Orders for sanction of an advance from the contingency fund will be issued by the Finance (BG-I) Department separately. The Director of Medical Education shall apply for sanction of advance from Contingency Fund for the required amount in the prescribed format along with a copy of this order to Finance (BG-I) Department. The Director of Medical Education shall also send necessary explanatory notes to include the above expenditure in Supplementary Estimate for the year 2014-2015 to Finance Department at the appropriate time without fail.

6. The Director of Medical Education is authorised to draw and deposit the amount sanctioned in para 3 above to the Personal Deposit Account of the Tamil Nadu Medical Services Corporation Limited, Chennai by means of Cheque/ Demand Draft in favour of Personal Deposit Account of the Managing Director, Tamil Nadu Medical Services Corporation Limited.

7. The Director of Medical Education is directed that the amount shall not be paid in cash but credited to the following Personal Deposit Account of Tamil Nadu Medical Services Corporation Limited:-

“K Deposits and Advances (b) Deposits not bearing interest – 8443 00 –  
Civil Deposits – 800 Other Deposits – CE Deposits of Tamil Nadu Medical  
Services Corporation Limited (TNMSC)  
(DPC 8443 – 00 – 800 – CE – 00 OH (Receipts)”.

8. This order issues with the concurrence of Finance Department vide its U.O.No.65217/Health-II/2014, dated 15.12.2014 and ASL No.1741 (One Thousand Seven Hundred and Forty One).

**(BY ORDER OF THE GOVERNOR)**

**J.RADHAKRISHNAN  
SECRETARY TO GOVERNMENT**

**To**

The Director of Medical Education, Chennai-10.  
The Financial Adviser and Chief Accounts Officer,  
Office of the Director of Medical Education, Chennai – 10.  
The Managing Director,  
Tamil Nadu Medical Services Corporation Limited, Chennai – 600 008.

The Dean/ Medical Superintendent,  
*Mahatma Gandhi Memorial Government* Hospital, Thiruchirapalli  
The Accountant General, Chennai – 600 018/35.  
The Pay and Accounts Officer (North/East/South), Chennai – 1/8/35.  
The District Treasury Officer, Thiruchirapalli.

**Copy to:**

The Finance (Health-II/BG-I/BG-II) Department, Chennai- 600 009.  
The Special Personal Assistant to Hon'ble Chief Minister, Chennai – 600 009.  
The Special Personal Assistant to Minister (Health), Chennai – 600 009.  
The Private Secretary to Secretary to Government,  
Health and Family Welfare Department, Chennai -9.  
~~Health and Family Welfare (Data cell/E) Department, Chennai - 9.~~  
SF/SCs.

**//FORWARDED BY ORDER//**

  
**SECTION OFFICER**  


**Annexure to G.O. (Ms) No. 412, Health and Family Welfare Department, dated 17.12.2014**

**ABSTRACT**

<b>S.No.</b>	<b>DEPARTMENT</b>	<b>TOTAL COST Rs.</b>
1	NEURO SURGERY	1,69,50,000
2	NEUROLOGY	96,00,000
3	CARDIOLOGY	27,45,000
4	CARDIO THORACIC SURGERY	1,39,12,500
5	MEDICAL GASTRO ENTROLOGY	46,26,000
6	SURGICAL GASTRO ENTROLOGY	62,00,000
7	PAEDIATRIC SURGERY	93,50,000
8	PLASTIC SURGERY	85,46,000
9	UROLOGY	2,89,00,000
10	NEPHROLOGY	1,41,02,100
11	MEDICAL ONCOLOGY	23,03,000
12	SURGICAL ONCOLOGY	1,10,10,000
13	ANAESTHESIA	3,97,75,800
14	RADIOLOGY	69,90,000
15	PATHOLOGY	71,66,000
16	BLOOD BANK	74,35,000
17	BIOCHEMISTRY	58,75,000
18	MICROBIOLOGY	16,30,000
19	STEAM LAUNDRY	34,25,000
20	TELEMEDICINE DEPARTMENT	21,00,000
21	MEDICAL EDUCATION UNIT	2,25,000
22	MODULAR O.T. (TRAUMA BLOCK)	1,50,00,000
	<b>TOTAL</b>	<b>21,78,66,400</b>

**List of Equipment for Mahatma Gandhi Memorial Government Hospital attached to  
KAP Viswanatham Government Medical College at Thiruchirapalli.**

Sl.No.	Name of the Department	NO. REQUIRED	UNIT COST Rs.	TOTAL COST Rs.
<b>NEURO SURGERY</b>				
1	<b>Operating Microscope (MANDATORY)</b>	1	750000	75,00,000
2	Operating table with Neuro Attachments	3	600000	18,00,000
3	Neuro Drill	3	200000	6,00,000
4	Diathermy	3	400000	12,00,000
5	3 Pin Fixator Head rest (Mayo)	2	450000	9,00,000
6	Leyla retractor (Titanium)	2	350000	7,00,000
7	Ventilator	5	800000	40,00,000
8	Pulse Oximeter	5	50000	2,50,000
			<b>TOTAL</b>	<b>1,69,50,000</b>

	<b>NEUROLOGY</b>			
1	32 Channel video EEG system	1	1600000	16,00,000
2	4 channel EMG / NCV / EP System	1	1800000	18,00,000
3	ECG machine - 12 channel with facilities for connecting to computer	1	100000	1,00,000
4	Transcranial Doppler	1	500000	5,00,000
5	Cardiac Monitor with defibrillator with recorder	1	250000	2,50,000
6	EEG – Video cerebral monitors	1	950000	9,50,000
7	EEG with computer and accessories	1	300000	3,00,000
8	ENMG with computer and accessories	1	400000	4,00,000
9	Ventilator[ neuro ICU]	5	600000	30,00,000
10	CSF Pressure monitor	1	200000	2,00,000
11	Digi infusion pump	2	50000	1,00,000
12	Pulse Oximeter	4	50000	2,00,000
13	Cardiac defibrillator with monitor	1	200000	2,00,000
			<b>TOTAL</b>	<b>96,00,000</b>

	<b>CARDIOLOGY</b>			
1	Temporary Pacemaker with accessories	2	65000	1,30,000
2	ECG-Computerized 12 channel	2	75000	1,50,000
3	Color Central Monitor System	1	85000	85,000
4	Multipara Patient Monitor	2	140000	2,80,000
5	Defibrillator with External Pacemaker Pulse Oximeter & Recorder	1	150000	1,50,000
6	Digital Holter Monitor System	1	200000	2,00,000
7	Tread Mill System	1	1200000	12,00,000
8	ECG Machine	3	150000	4,50,000
9	Digi infusion	2	50000	1,00,000
			<b>TOTAL</b>	<b>27,45,000</b>

**CARDIO THORACIC SURGERY  
HIGH END EQUIPMENTS**

Sl.No.	Name of the Department	NO. REQUIRED	UNIT COST Rs.	TOTAL COST Rs.
1	Intra aortic ballon pump	1	1800000	18,00,000
2	Video fibro optic bronchoscope	1	700000	7,00,000
3	Ventilator	1	800000	8,00,000
4	Video assistated thoroscopy	1	800000	8,00,000
5	Invasic pressure monitor	2	300000	6,00,000
6	Monitor defibrillator with external paddles	2	300000	6,00,000
7	Diatheremy	1	300000	3,00,000
8	Blood gas analysis with electrolytes	1	500000	5,00,000
9	Special CV instruments	2	375000	7,50,000
10	Fibrillator with paddle	1	12500	12,500
11	Matress warmer	1	50000	50,000
12	ECHO Machine	1	500000	5,00,000
13	Heart Lung Machine with Hypothermia machine	1	4500000	45,00,000
14	CABG Instruments	1	2000000	20,00,000
			<b>TOTAL</b>	<b>1,39,12,500</b>

**MEDICAL GASTRO ENTROLOGY  
HIGH END EQUIPMENTS**

1	Video Gastroscopy	1	450000	4,50,000
2	Video colonoscopy	1	500000	5,00,000
3	Video duodeno scope	1	700000	7,00,000
4	Video processor & Monitor	1	450000	4,50,000
5	Rigiflex Dilator	2	28000	56,000
6	TTS Balloon Dilator	5	14000	70,000
7	Foreign body removal forceps	2	50000	1,00,000
8	Electro cautry unit	1	350000	3,50,000
9	C – Arm (ERCP compatable)	1	350000	3,50,000
10	Ventilator	1	600000	6,00,000
11	Highend diathermy	1	500000	5,00,000
12	Argon plasma cogulator	1	500000	5,00,000
			<b>TOTAL</b>	<b>46,26,000</b>

<b>SURGICAL GASTRO ENTROLOGY HIGH END EQUIPMENTS</b>				
1	Operation laproscope with 3chip camera	1	1600000	16,00,000
2	Harmonic scalpel	1	1200000	12,00,000
3	Cavitron ultrasonic surgical aspirator	1	1800000	18,00,000
4	Radio frequency ablation	1	800000	8,00,000
5	Intra operative ultrasound	1	800000	8,00,000
			<b>TOTAL</b>	<b>62,00,000</b>

**PAEDIATRIC SURGERY  
HIGH END EQUIPMENTS**

Sl.No.	Name of the Department	NO. REQUIRED	UNIT COST Rs.	TOTAL COST Rs.
1	Pediatric Upper GI scope with accessories	1	2100000	21,00,000
2	Vessel sealing system	1	1200000	12,00,000
3	Ped. laproscope with all 5/3 mm accessories and 10mm port	1	1400000	14,00,000
4	Fiberoptic miniature cystoscopy with complete set 7 mm size	1	600000	6,00,000
5	Newborn Ventilator < 10 Kg	1	600000	6,00,000
6	Newborn Ventilator > 10 Kg	1	600000	6,00,000
7	Neonatal radiant warmer	4	100000	4,00,000
8	Phototherapy Unit	6	50000	3,00,000
9	Transport incubator	1	150000	1,50,000
10	Oesophagoscopy with dialtor	2	250000	5,00,000
11	Under water cutting diathermy	2	300000	6,00,000
12	Cystoscopy	1	500000	5,00,000
13	Martin Diathermy	2	200000	4,00,000
			<b>TOTAL</b>	<b>93,50,000</b>

<b>PLASTIC SURGERY - TOP PRIORITY INSTRUMENTS</b>				
1	Cleft lip set	2	15000	30,000
2	Cleft palate set	1	28000	28,000
3	Rhinoplasty set	1	100000	1,00,000
4	Skin graft mesher	1	200000	2,00,000
5	Dermatome[nouvag]	1	400000	4,00,000
6	Electrical dermatome	1	100000	1,00,000
7	Cold light source fibre optic connection	1	200000	2,00,000
8	Nerves stimulator	1	40000	40,000
9	Pressure garments grippon arm leg	25	10000	2,50,000
10	Vaccum assisted wound closer	1	37000	37,000
11	Operating microscope Zeiss	1	400000	4,00,000
12	Light weight fiberoptic 6x xenon light source with adjustable head set	2	400000	8,00,000
13	Micro motor with accessories	5	70000	3,50,000
14	Apex cathelist	1	1000	1,000
15	Hand Surgery set	1	50000	50,000
16	Humbi knife	2	5000	10,000
17	Alpha beds	10	6000	60,000
18	Microsurgical equipments with soft clamps	2	400000	8,00,000
19	Miniplates with screws	2	1300000	26,00,000
20	Tissue expands silicon prosthesis	1	200000	2,00,000
21	Cranio face instruments	1	90000	90,000
22	Ventilators	3	600000	18,00,000
			<b>TOTAL</b>	<b>85,46,000</b>

**UROLOGY**

Sl.No	Name of the Department	NO. REQUIRED	UNIT COST Rs.	TOTAL COST Rs.
1	Cold light source-xenon	1	200000	2,00,000
2	Uretro-renoscope (urs) 6-7 f long	1	300000	3,00,000
3	Uretro-renoscope (urs) 8-9 f long	1	300000	3,00,000
4	Diathermy - under water cutting	1	400000	4,00,000
5	Flexible Nephroscopy	1	500000	5,00,000
6	Uro dynamic machine	1	100000	1,00,000
7	U.S.G.Machine for PCNL with doppler	1	2000000	20,00,000
8	U.S.G. machine	1	1000000	10,00,000
9	C-Arm	1	2000000	20,00,000
10.	Flexible ureteroscope with laser	1	3000000	30,00,000
11	Semirigid ureteroscope 7.8	2	250000	5,00,000
12	Semirigid ureteroscope 9.8	2	250000	5,00,000
13	Lithoclock Machine (stone burster)	1	500000	5,00,000
14	Cystoscopic urological equipments (TURP, IU, Stone Bunch	2	400000	8,00,000
15	PCNL set	2	400000	8,00,000
16	ESWL (lithotripsy)	1	10000000	1,00,00,000
17	Basic Urological Set	2	500000	10,00,000
18	Stone Breaking Machine	2	250000	5,00,000
19	Laprosopy set with HD Camera	1	2000000	20,00,000
20	Vessel ceiling system	1	2000000	20,00,000
21	Transplant Instruments	1	500000	5,00,000
			<b>TOTAL</b>	<b>2,89,00,000</b>

**NEPHROLOGY  
HIGH END EQUIPMENTS**

1	Hemodialysis Unit	10	700000	70,00,000
2	CVVHD Unit	1	800000	8,00,000
3	Reverse osmosis Unit	2	20000	40,000
4	Dialysis reprocessive Unit	1	300000	3,00,000
5	Bed electronic weighing Machine	1	100000	1,00,000
6	Ventilator	4	600000	24,00,000
7	Peritoneal dialysis Unit	1	1000000	10,00,000
8	CAPD Cyler	1	600000	6,00,000
9	Pulse oximeter	5	40,000	2,00,000
10	Multi paramonitor	5	120000	6,00,000
11	Infusion Syringe Pump	5	40000	2,00,000
12	X-Ray Lobby	2	1800	3,600
13	ECG Machine	2	30000	60,000
14	Nebulizer	5	3000	15,000
15	Cardiac Defibrillator	1	94500	94,500
16	Suction Apparatus	4	25000	1,00,000
17	Defibrillator	2	94500	1,89,000
18	Water treatment plant (RO)	2	200000	4,00,000
			<b>TOTAL</b>	<b>1,41,02,100</b>



**MEDICAL ONCOLOGY  
HIGH END EQUIPMENTS**

Sl.No	Name of the Department	NO. REQUIRED	UNIT COST Rs.	TOTAL COST Rs.
1	Venous Access Kits (Various Sizes)			
	a. Peripherally introduced Lateral Catheter (PICL)			
	b. Implantable chemotherapy ports			
	c. Lateral Venous catheters	20	5000	1,00,000
2	Auto analyser for cell counter	1	1200000	12,00,000
3	Bone marrow trephine Biopsy needle (11 G)	5	500	2,500
4	Bone marrow aspiration needle	5	100	500
5	Digi infusion pump	6	50000	3,00,000
6	Multi para monitor	5	140000	7,00,000
			<b>Total</b>	<b>23,03,000</b>

**SURGICAL ONCOLOGY**

1	Bronchoscope with intubating facilities	1	400000	4,00,000
2	Vessel Sealing Machine	1	450000	4,50,000
3	Operation laprascope with 3chip camera	1	1600000	16,00,000
4	Harmonic scalpel	1	1200000	12,00,000
5	Cavitron ultrasonic surgical aspirator	1	1800000	18,00,000
6	Radio frequency ablation	1	800000	8,00,000
7	Intra operative ultrasound	1	800000	8,00,000
8	Ventilator	2	600000	12,00,000
9	Pulse Oximeter	4	50,000	2,00,000
10	Multipara monitor	4	140000	5,60,000
11	USG Machine Doppler	1	2000000	20,00,000
			<b>TOTAL</b>	<b>1,10,10,000</b>

**ANAESTHESIA  
TOP PRIORITY INSTRUMENTS**

Sl.No	Name of the Department	NO. REQUIRED	UNIT COST Rs.	TOTAL COST Rs.
1	Anaesthesia Workstation (Dragger Apparatus / Datex ohmeda) TEC VII Main – 6. Trauma-2	4	400000	16,00,000
2	Boylesmachine (basic model with circle absorber, ventilator and selectatec vaporizer – Isoflurance -2 Sevoflurance – 4, Halothane -2	6	300000	18,00,000
3	Multi Parameter Monitor (5 lead ECG. SPO2, NIBP, ETCO2, RR, Temp, Multi gas Analyzer 2IBP, CVP, Cardiac output) datex ohmedia.	2	800000	16,00,000
4	Multi parameter Monitor (Larsen & Tourbo) with 2IBP ETCO2/NIBP/SPO2/Temp/Rcsp iration. With ECG OT complex -5 PACU-5	5	400000	20,00,000
	Multi parameter Monitor (Larsen & Tourbo) SPO2/ECG/NIBP/ Temp OT complex (induction room)-2	10	140000	14,00,000
5	Arterial Blood gas analyzer PACU-1, CT-1	2	400000	8,00,000
6	Bispectral index monitor with multipara (CTVS-1, Neuro – 1)	2	350000	7,00,000
7	Operation Table stainless steel top, 4 pcs –ASCO Electrical / Electronically controlled with facilitate to take spot film (SST) – 10 total Ortho (fracture table) -2 c-ARM Compatible -10	10	400000	40,00,000
8	Horse shoe for Neuro cases – 2 Without C-arm compatability -6	3	250000	7,50,000
9	Stryker frame cot	1	200000	2,00,000
10	Cardiac Defibrillator –biphasic with TCP facility OT-4 ortho-2, PACU-4	5	250000	12,50,000
11	Shadow less Lamp Ceiling (Xeron) (Anginex) OT-6. , Trauma-4, CT-1, OT-1	6	400000	24,00,000
12	Portable Ultrasound machine with nerve mapper	1	1500000	15,00,000
13	ICU ventilators (Puritan Bennet, Hamilton)	5	535000	26,75,000
14	BIPAP – non invasive pressure ventilator	2	200000	4,00,000
15	Transport ventilator (Datex Ohmeda)	2	450000	9,00,000
16	Integrated central monitoring station	1	300000	3,00,000
17	Liquid Medical Oxygen plant 10 KL capacity	1	1000000	10,00,000
18	Transport cot (with O2 cylinder) ot-4, ortho -4, cot-1	5	15000	75,000
19	Portable X-ray unit	1	300000	3,00,000

20	Infusion pumps with warmer	2	50000	1,00,000
21	Manifold -2 bank O2 (20 cylinders in each bank) 2bank N2O (10 Cylinders in each bank) Centralized pipeline supply of OXYGEN, NITROUS OXIDE, AIR, VACUUM to OT, PACU and other areas.	1	4000000	40,00,000
22	Theatre sterilizing equipment (Vicon sprayer) ((Dynafoog)	2	32000	64,000
23	Autoclave flash	3	40000	1,20,000
24	Autoclave horizontal for four bins	3	450000	13,50,000
25	Automatic ultrasonic instrument cleaner	2	50000	1,00,000
26	ETO Sterilisation unit	1	300000	3,00,000
27	Suction apparatus-high pressure – higher end	2	115000	2,30,000
28	Alpha bed for PACU	10	6600	66,000
29	Fiberoptic intubating bronchoscope, Adult - 1, Paediatric - 1	1	500000	5,00,000
30	ACT machine (meditronics)	1	130000	1,30,000
31	O2 cylinder A type with key	30	4500	1,35,000
32	O2 cylinder B type with key	30	5000	1,50,000
33	N2O Cylinder A type with key	20	5000	1,00,000
34	N2O Cylinder B type with key	20	5500	1,10,000
35	Laryngeal mask airway proseal –	2	45000	90,000
36	Intubating LMA Available sizes – 3,4,5 (1 set)	2	42000	84,000
37	Torch light	2	2500	5,000
38	ECG machine (BPL-Cardiart)	2	142250	2,84,500
39	Peak flow meter	2	5000	10,000
40	Pulse oximeter (pain clinic)	2	43000	86,000
41	Peripheral nerve stimulator with nerve locator (TOF Guard)	2	30000	60,000
42	Oxygen analyser	2	50000	1,00,000
43	Liquid oxygen plant	1	100000	1,00,000
44	Online fluid warmer	1	17500	17,500
45	Pediatric ICU ventilator	1	535000	5,35,000
46	Neonatal warmer ( forced air)	2	17000	34,000
47	Saunders' Jet ventilator	2	3000	6,000
48	Mini trach set (Blue rhino)	2	7000	14,000

49	Patient roller	6	2000	12,000
50	CPAP mask (Face / Nasal)	2	2000	4,000
51	Focus lamp (pain clinic, PACU, Induction Room)	4	1000	4,000
52	Laryngeal mask airway (LMA) C-TRACH (Video)	1	450000	4,50,000
53	Percutaneous tracheostomy set (Cook's ) PACU Size : (mm-ID) 7.0	1	6000	6,000
54	Percutaneous tracheostomy set (Cook's ) PACU Size : (mm-ID) 8.0	5	6000	30,000
55	Cricothyrotomy set (Cook's)	4	3000	12,000
56	Double lumen (Carlens) (Bronchocath right – Tyco health care – 4.8,5.1,5.3,5.4 mm ID – two each)	4	2000	8,000
57	Laryngeal Mask (LMA) AirwayS – Reinforced Size: 3,4 (1 set)	4	25000	1,00,000
58	Patient controlled Analgesia Pump	6	50000	3,00,000
59	Computer with printer & Fax	2	50000	1,00,000
60	Defibrillator AED with transcutaneous pacing	6	100000	6,00,000
61	Arterial Blood Gas analyser	2	50000	1,00,000
62	Anaesthesia apparatus with circle absorber with vaporizers	6	119800	7,18,800
63	Ultrasound units high resolution probe for nerve block and CVP cannulation	1	100000	1,00,000
64	Pipeline distribution system	1	2500000	25,00,000
65	Standby manifold room for medical oxygen / Medical air / Nitrous Oxide	1	100000	1,00,000
66	Central suction unit	1	100000	1,00,000
			<b>TOTAL</b>	<b>3,97,75,800</b>

**RADIOLOGY  
HIGH END EQUIPMENTS**

Sl.No	Name of t he Department	NO. REQUIRED	UNIT COST Rs.	TOTAL COST Rs.
1	Ultra sound Gray scale 3 Probes (curvilinear, high frequency, trans vaginal)	2	700000	14,00,000
2	Colour Doppler ultrasound with3 probes	1	1500000	15,00,000
3	Portable ultrasound with curvelinear multi frequency probe	1	400000	4,00,000
4	Computer with accessories with printer	1	40000	40,000
5	500 mA X-ray high frequency	1	700000	7,00,000
6	Portable 100 mA X-Ray	10	125000	12,50000
7	Automatic daylight film processor	1	100000	1,00,000
8	<b>1000 mA Digital X-ray Machine with dry processor with Fluroscopy (Must Needed)</b>	1	1000000	10,00,000
9	4D Ultra Sonography Trolley based	2	300000	6,00,000
			<b>TOTAL</b>	<b>69,90,000</b>

Remarks\*\*\*

CT Scan 128 Slice 1 No to be Supplied through TNMSC for Rs.3,00,00,00

**PATHOLOGY  
HIGH END EQUIPMENTS**

Sl.No	Name of t he Department	NO. REQUIRED	UNIT COST Rs.	TOTAL COST Rs.
1	Trinocular Microscope with attached Ced Camera & Computer	1	750000	7,50,000
2	Tissue Embedder And Cold Plate	1	720000	7,20,000
3	Cryostat	1	900000	9,00,000
4	Platelet aggregometer	1	600000	6,00,000
5	Fully automated five part hematology analyzer	1	1000000	10,00,000
6	Automated coagulation analyser	1	750000	7,50,000
7	Crtospin	1	510000	5,10,000
8	Tissue processor with integrated vaccum	1	900000	9,00,000
9	Dep freezer (-40 C)< 450-500 litres	1	100000	1,00,000
10	Centrifuge (Table top) (With rotor 15mlX16)	1	20000	20,000
11	Monocular microscopes	5	12000	60,000
12	Automatic knife sharpner	1	200000	2,00,000
13	Dissection microscope	1	100000	1,00,000
14	Binocular microscope with self	5	30000	1,50,000
15	Trinocular Microscope	1	100000	1,00,000
16	Fully automated ESR Analyser	1	280000	2,80,000
17	Photo electric colori meter	2	10000	20,000
18	Blood sample mixer	3	2000	6,000
			<b>TOTAL</b>	<b>71,66,000</b>

<b>BLOOD BANK</b>				
Sl.No	Name of the Department	NO. REQUIRED	UNIT COST Rs.	TOTAL COST Rs.
1	Blood collecting monitor	6	100000	6,00,000
2	Di – electric Tube sealer	6	100000	6,00,000
3	Self illuminating Microscope	4	10000	40,000
4	Table top centrifuge serofuge	2	20000	40,000
5	Elisa reader	1	600000	6,00,000
6	Elisa Washer	1	600000	6,00,000
7	Plasma thawing bath	2	80000	1,60,000
8	VDRL rotator	2	10000	20,000
9	Hot air oven	2	20000	40,000
10	Incubator (37c)	1	25000	25,000
11	Blood bank refrigerator	3	130000	3,90,000
12	Deep freezer – 80c	1	800000	8,00,000
13	Deep freezer – 40c	1	100000	1,00,000
14	Plasma Expressor	3	100000	3,00,000
15	Platelet agitator with incubator	2	100000	2,00,000
16	Refrigerated centrifuge	1	1000000	10,00,000
17	Cell separator	1	1000000	10,00,000
18	Donor Blood collection couch electronic	6	100000	6,00,000
19	Column aided GEL agglutination tech.apparatus	1	150000	1,50,000
20	Centrifuge with Digital Timer	2	10000	20,000
21	Tube Washer	3	50000	1,50,000
			<b>TOTAL</b>	<b>74,35,000</b>

<b>BIOCHEMISTRY</b>				
1	Centrifuge	5	11000	55,000
2	Heavy duty centrifuge	1	250000	2,50,000
3	Quartz distillation apparatus with automatic low water cut off device	2	20000	40,000
4	Water Purification System	1	400000	4,00,000
5	Electrolyte analyzer ISE	1	300000	3,00,000
6	Semi Auto analyzer	2	200000	4,00,000
7	Automated Eliza Reader	1	200000	2,00,000
8	Automated Elisa Washer	1	150000	1,50,000
9	Deep Freezer Vertical – 20 C	1	90000	90,000
10	Micro Centrifuge	1	50000	50,000
11	Electronic Digital Balance 340 gms	2	45000	90,000
12	Gel Electrophoresis System and densitometer	1	700000	7,00,000
13	Gel Documents Systems	1	500000	5,00,000
14	HPLC	1	1500000	15,00,000
15	Automated enzyme immune assay analyser (Fluorescence Technique)	1	900000	9,00,000
16	Cogulation profile analyzer	1	250000	2,50,000
17			<b>TOTAL</b>	<b>58,75,000</b>

<b>MICROBIOLOGY</b>				
<b>Sl.No</b>	<b>Name of the Department</b>	<b>NO. REQUIRED</b>	<b>UNIT COST Rs.</b>	<b>TOTAL COST Rs.</b>
1	Horizontal Autoclave	1	325000	3,25,000
2	Class 2 Biosafety cabinet	1	130000	1,30,000
3	Laminar flow clean work bench	1	130000	1,30,000
4	BOD incubator	1	45000	45,000
5	Refrigerator digital	2	20000	40,000
6	Deep freezer -80°C	1	150000	1,50,000
7	trinocular microscope ( Labomed or Olympus )with digital camera	1	50000	50,000
8	LED Epifluorescent Fluorescent microscope	1	175000	1,75,000
9	Dark field microscope Carl Zeiss / Olympus / Labo med	1	100000	1,00,000
10	Laboratory centrifuge	1	15000	15,000
11	High speed centrifuge	1	150000	1,50,000
12	Refrigerated high speed centrifuge	1	150000	1,50,000
13	Electrophoresis System Vertical & Horizontal	1	30000	30,000
14	Digital analytic balance.	1	100000	1,00,000
15	Reverse Osmosis with deioniser	1	40000	40,000
			<b>TOTAL</b>	<b>16,30,000</b>

<b>STEAM LAUNDRY</b>				
1	Wheel Barrow	10	5000	50,000
2	Furnace oil tank (15000 Litres capacity rectangular)	1	25000	25,000
3	Linen and bin trolley	4	10000	40,000
4	Diet trolley SS	4	35000	1,40,000
5	Drilling machine	1	20000	20,000
6	Welding machine	1	15000	15,000
7	Grinding machine	1	10000	10,000
8	Gas welding set	1	20000	20,000
9	(Paint) Spray gun with compressor	1	30000	30,000
10	Rectangular Medium sterilizer both electric and steam operated	1	500000	5,00,000
11	Calendaring machine (four Roller)	1	200000	2,00,000
12	Washing machine (50 Kg capacity)	3	200000	6,00,000
13	Drying chamber	2	200000	4,00,000
14	Hydro Extractor (50 kg capacity)	3	150000	4,50,000
15	Drier (50 kg capacity)	2	150000	3,00,000
16	Lathe	1	125000	1,25,000
17	Accessories	1	500000	5,00,000
			<b>TOTAL</b>	<b>34,25,000</b>

## TELEMEDICINE DEPARTMENT

SI.No	Name of the Department	NO. REQUIRED	UNIT COST Rs.	TOTAL COST Rs.
1	Lcd Projector	2	150000	3,00,000
2	Computer with web camera	1	50000	50,000
3	Audio vision system (Home theatre)	1	500000	5,00,000
4	CCTV Monitor System	1	1000000	10,00,000
5	Telephone with intercom	1	250000	2,50,000
			<b>TOTAL</b>	<b>21,00,000</b>

MEDICAL EDUCATION UNIT				
1	Laptop Computer	1	50000	50,000
2	Desktop Computer	3	25000	75,000
3	Photo copier/Scanner/Color Printer	1	100000	1,00,000
			<b>TOTAL</b>	<b>2,25,000</b>

REQUIREMENTS FOR THE TRAUMA BLOCK			
Modular O.T.	3	500000	1,50,00,000

**J.RADHAKRISHNAN**  
SECRETARY TO GOVERNMENT

//True copy//

*(Signature)*  
**SECTION OFFICER**