



ABSTRACT

Equipments –Maintenance of equipments in all Government Medical Institutions -
Policy approved - Orders issued.

HEALTH AND FAMILY WELFARE (H2) DEPARTMENT

G.O.(Ms) No. 23

Dated: 24.01.2011
Thiruvalluvar Aandu 2042
Thai 10

Read

From the Project Director, Tamil Nadu Health Systems Project, DO. Letter.
No. PC.3/HSP/2011 dated 18.01.2011

ORDER:

As decided in the review meeting of Chief Secretary, Government of Tamil Nadu held on 12.11.2010. A meeting on the Medical equipments maintenance and their condemnation and replacement was conducted on 14.01.2011 by the Principal Secretary to Government, Health and Family Welfare Department.

2. At present , the maintenance of both medical and non medical equipments of the Government Hospitals lies with Tamil Nadu Medical Service Corporation as per the orders issued in G.O. (Ms) No.8, H&FW (H2) Department, dated 13.01.2006. The Managing Director, Tamil Nadu Medical Service Corporation Ltd., Chennai expressed in the meeting that the TNMSC does not have the required manpower and infrastructure to look after the maintenance of both medical and non medical equipments and therefore suggested to entrust the responsibility of maintenance of the equipments to the concerned department except certain high value equipments. A detailed discussion was held on the following items:

- i. Online Inventory of equipments
- ii. Establishing a central Help Desk for Equipment Maintenance
- iii. Responsibility for maintenance of Medical and Non Medical Equipments
- iv. Funds for maintenance
- v. Personnel for maintenance
- vi. Equipment Replacement Policy
- vii. Condemnation and Disposal of equipments.

3. Based on the decisions taken in the meeting, the Project Director, Tamil Nadu Health Systems Project in his letter read above has sent the proposal to the Government for issue of necessary orders.

4. The Government, after careful consideration of the above proposal, issue the following orders:

I. Online Inventory of Equipments

- a. It is mandatory that there should be a uniform electronic inventory of equipments available in the hospitals under all Directorates.
- b. All Medical Equipments should be categorized into A, B & C based on the value & essentiality for smooth function of the hospitals as indicated below:

'A' Category – Equipments of high value that can be maintained and serviced by the manufacturer only

'B' Category – Equipments of moderate value that can be serviced by manufacturer and authorized agencies. Equipments with lesser value, but in the breakdown will affect the smooth healthcare delivery to the public should be included under this category. (eg.) ECG Machine of lesser value should be included in the category 'B'

'C' Category – Equipments of low value which can be serviced by any local agency.

- c. There shall be a separate category for non-medical equipments.
- d. The Inventory should have complete details including supply details, warranty/AMC details, location, working status etc.
- e. The electronic inventory status of equipments for all hospitals should

be completed before 15.02.2011. The responsibility of this up-dation will be as follows:-

- (i) for DM&RHS side institutions – TNHSP
 - (ii) for DME side institutions – TNMSC
 - (iii) for DPH side institutions - DPH
- f. This inventory status should be updated regularly as and when new supplies are made.

II. Establishing a central Help Desk for Equipment Maintenance

In order to monitor the maintenance of medical equipments in various medical institutions and to co-ordinate with various stakeholders such as hospitals, TNMSC, equipment suppliers/service providers etc., it was decided to create a central help desk for equipment maintenance. This will initially be established by TNHSP and once the system stabilizes, it will be handed over to TNMSC after a period of one year. Subsequently it should be managed by TNMSC. The expenditure towards necessary infrastructure and capacity building for this purpose shall be met out from the World Bank funds provided for that purpose.

Further it is noted that:

- i. Phone lines for Central Help Desk has already been established to provide access for the healthcare institutions – (Mob Nos. 94450 30801 & 802), E-mail Id for help desk: eghelpdesk@gmail.com.
- ii. Servers & Modems have been installed to generate auto SMS and E-Mails to warranty / AMC agencies.
- iii. Sensitization of hospital personals, Directorate and other stakeholders to be done before 28.02.2011.
- iv. Protocols for maintenance should be fixed. The Protocols now under use for Secondary Care Hospitals under DM&RHS, using help desk and online maintenance system, shall be utilised for DME & DPH side institutions.
- v. The TNMSC should sensitize all vendors to effectively respond to breakdown alerts. This activity should be completed before 28.02.2011.

III. Responsibility for maintenance of Equipments

Medical Equipments:

1. All A & B category medical equipments should be brought under AMC/CAMC. Further, all 'B' Category equipments shall be classified into B1 and B2 categories. The equipments coming under B1 & B2 categories will be periodically decided by a committee under the Chairmanship of Managing Director, Tamil Nadu Medical Corporation Limited with representation from NRHM, TNHSP, DM&RHS, DME and DPH.
2. The equipments shall be maintained as follows:
 - i. **'A' Category:** These equipments will be maintained by Tamil Nadu Medical Services Corporation. AMC/CAMC contract for the equipments under this category will be executed and monitored by TNMSC.
 - ii. **'B' Category:**
 - B1 Category** – These equipments will be maintained by Tamil Nadu Medical Service Corporation. AMC/CAMC contract for the equipment under this category will be executed and monitored by TNMSC.
 - B2 Category** – It would be the responsibility of the concerned Department/hospitals to maintain these equipments. However, TNMSC will facilitate in finalizing the AMC/CAMC contract. AMC/CAMC contract for the equipments under this category will be executed and monitored by the concerned Department / hospitals. The TNMSC will also facilitate for a solution, in case of any problem with relevance to warranty / AMC/ CAMC of these equipments, which could not be sorted out by the Department/hospital.
 - iii. **'C' Category:** All equipments under this category will be maintained locally by the concerned department/hospital authorities through the bio-medical engineers.
3. The TNMSC will conduct a meeting of all vendors and ensure that AMC/CAMC is entered for all existing A and B category equipments and this

task should be completed before 31.03.2011, wherever the rates are already finalized while procuring the equipment. In case of the remaining equipments, where the rates are not available, action should be initiated to finalize the AMC/CAMC rates.

Non-medical Equipments:

All non-medical equipments will be maintained locally by the concerned department/hospital authorities. However, all the major non-medical equipments like generators, Xerox machines etc. which are centrally procured by TNMSC should be brought under AMC/CAMC. TNMSC will facilitate in finalizing the AMC/CAMC contract for these major non-medical equipments. AMC/CAMC contract for the equipment under this category will be executed and monitored by the concerned Department / hospitals. The TNMSC will also facilitate for a solution, in case of any problem with relevance to warranty / AMC/ CAMC of these non-medical equipments, which could not be sorted out by the Department/hospital.

IV. Funds for maintenance:

- i) Necessary funds for the maintenance of the equipments should be provided to the concerned directorates and the TNMSC depending on the value and number of equipments maintained by them.
- ii) The unutilized funds for equipment maintenance available with TNMSC now will be pooled together and utilized for maintenance of the equipments for various hospitals across the Directorates by issuing suitable Government Order after necessary concurrence from the Finance Department.
- iii) From the next financial year (FY 2011-12) onwards funds for maintenance of equipments should be allotted to the Directorates. The respective Directorates will place the funds to TNMSC based on the number and value of the equipments to be maintained by them. The balance funds will be allocated to the hospitals for the equipments maintained by them by the Directorates based on their equipments.

- iv) The payment towards CAMC/AMC/repairs shall be made by the concerned department / hospital authorities for the equipments maintained by them and by TNMSC for the equipment maintained by it.

Proposals for obtaining funds for maintenance of equipments will be sent to the Government by the respective directorates namely, DPH, DMS & DME for the financial year 2011-2012 and Orders will be issued for the proposals with finance department concurrence.

V. Personnel for maintenance:

- i) One Bio Medical Engineer with Two Bio Medical Technicians shall be provided to each district to take care of the equipments at Secondary Care Hospitals (DM&RHS) and Primary Health Centres.
- ii) All the Medical College Hospitals shall be provided with one Bio Medical Engineer and two Bio Medical Technicians.
- iii) Other independent major hospitals like Government Royapettah Hospital, Institute of Obstetrics and Gynaecology, Egmore, Chennai, Institute of Child Health and Hospital for Children, Chennai, K.G. Hospital for Women and Children, Chennai, etc., shall be provided with one Bio Medical Technician each, under the supervision of the Bio Medical Engineer of the Medical College Hospitals to which the institution is attached.
- iv) The BMEs provided so shall be made responsible to attend to the maintenance and breakdown / rectification of equipments in Co-ordination with AMC & warranty agencies for A, B & C categories equipments and to attend to other C category equipments in coordination with local agencies thereby facilitating the medical and paramedical professionals to exclusively attend to the Health Care delivery to the patients.
- v) All these Bio Medical Engineers and technicians so provided shall be placed under the administrative control of the respective Directorates/hospital authorities and will work in close co-ordination

with TNMSC.

Proposals would be submitted separately by TNHSP / TNMSC for obtaining Government Orders for positioning of Bio Medical Engineers and Bio Technicians.

VI. Equipment Replacement Policy

There should be a standard equipment replacement policy. This should be done by determining the life of the equipment / usage or utility hours, at the time of procurement and accordingly the timely replacement shall be planned. For the existing equipments the life and time of the replacement shall be arrived utilizing the Bio Medical Engineers. The funds required for the replacement should be included in the yearly regular budget estimate. After the full utilization of the equipments (life and utility hours), these equipments shall either be condemned or considered for "buy back" while procuring the replacement. The detailed equipment replacement policy shall be evolved by TNMSC before 31.03.2011 in consultation with TNHSP, NRHM, DM&RHS, DME and DPH.

VII. Condemnation and Disposal

Regarding condemnation and disposal of hospital equipments orders may be issued separately based on the recommendations of the committee established for the purpose.

(BY ORDER OF THE GOVERNOR)

V.K.SUBBURAJ
PRINCIPAL SECRETARY TO GOVERNMENT.

To
The Project Director, Tamil Nadu Health Systems Project, Chennai – 6.
The Mission Director, National Rural Health Mission, Chennai -6.
The Managing Director, Tamil Nadu Medical Services Corporation,
Egmore, Chennai -8
The Director of Medical and Rural Health Services, Chennai - 6
The Director of Medical Education, Chennai - 10
The Director of Public Health and Preventive Medicine, Chennai -6
All Joint Director of Medical and Rural Health Services .
All Deputy Director of Health Services .

All Deans of Government Medical Colleges .
All Medical Superintendents of Government Medical College Hospitals .

All Medical Superintendent / Chief Medical Officers of Government Secondary Care Hospitals .

The Principal Accountant General (A&E), Chennai – 18.
The Principal Accountant General (Audit I), Chennai -18.
The Pay and Accounts Officer (South), Chennai -35

Copy to:

The PS to Chief Secretary to Government, Chennai – 9.
All District Collectors.
SF/SC.

V.K.SUBBURAJ
PRINCIPAL SECRETARY TO GOVERNMENT.

/ Forwarded by order /

PJm/uy
24/01/1
SECTION OFFICER

**PROPOSED CATEGORY OF COMMON MEDICAL
EQUIPMENTS**

CATEGORY A

(CRITERIA - Value more than Rs. 50 Lakhs)

Sl. No.	Category A
1	Brachy therapy unit
2	Cardiac Cath lab
3	Cobalt Therapy Unit
4	CT scan*
5	CT stimulator
6	Digital Fluoroscopy/Angiography
7	Digital radiography system
8	Flow Cytometer and cell sorter
9	Linear accelerator
10	Lithotripsy machine*
11	MRI scan*
12	Patient Monitoring systems with central station
13	X-Ray Machine 500 mA and Above

CATEGORY B1

(CRITERIA - Value more than Rs. 25 Lakhs and less than Rs. 50 Lakhs)

Sl. No.	Category B1
1	Fully Automatic Elisa Systems
2	Gas Plasma Sterilizer
3	Liver Work Station
4	Operating Microscope/ Operating Neuro Microscope
5	Optical Coherence tomography Machine
6	Ped. Laparoscope
7	Video Endoscope
8	Video Gastroscope, Colonoscope, Duodenoscope, Processor & Monitor
9	Color Doppler system (Value more than Rs. 25 Lakhs)
10	Heart lung machine (Value more than Rs. 25 Lakhs)
11	Echocardiogram Colour Doppler (Value more than Rs. 25 Lakhs)
12	Mammography unit

CATEGORY B2

(CRITERIA - Value less than Rs. 25 Lakhs and which are essential for the day to day functioning of the hospital)

Sl. No.	Category B2
1	Angiography
2	Arthroscope
3	Arthroscopic shaver
4	Blood bank refrigerator
5	Blood collection monitor
6	Blood gas analyzer
7	Bubble CPAP
8	Cardiotocogram Machine
9	Cell counter
10	Cell separator
11	Cell Saver
12	Central monitoring station
13	Chest freezer
14	Coagulometer
15	Coloscope
16	Compact Centrifuge
17	Contract Microhystroscope
18	Cystoscope and Resectoscope
19	Cystoscope Pediatrics
20	Defibrillator
21	Electrical Surgical Unit
22	ECG machine
23	ECT Machine
24	EEG machine
25	Elisa reader /washer
26	EMG machine
27	EMG/NCV/EP System 4 channel
28	Endoscope GI Upper
29	Endoscope with Video Processor

Sl. No.	Category B2
30	ETCO2 Monitoring System
31	ETO sterilizer
32	Fibre Optic Bronoscope
33	Flash Autoclave
34	Functional Endoscope
35	Fundus Fluorescein Angiography
36	Harmonic scalpel
37	Harmonic Scalpel hand piece & foot pedal and accessories
38	Hematology analyzer
39	High Performance Liquid Chromatography
40	High pressure sterilizer
41	High Speed Micro Drill and Craniotome
42	Holter Monitor, recorder, Analyser
43	Impedance Audiometer
44	Incubator
45	Indirect Ophthalmoscope
46	Infusion warmer
47	Lab microscopes
48	Laparoscope
49	Laser unit
50	Microdrill and saw system
51	Microprocessor Based Spectrometer
52	Multiparameter monitor
53	Neontal radiant warmer
54	OAE Analyzer
55	Operating microscope
56	Operative Laparoscope with 3 chip camera
57	Plasma Separation Unit
58	Posterior Vitrectomy Machine
59	Pulse Oximeter
60	Radio frequency ablation

Sl. No.	Category B2
61	Real time PCR
62	Refrigerated centrifuge
63	Rigid Bronoscope
64	ROW plant
65	Solid State Diode Green Laser 532nm
66	Solid State Diode Laser 810nm
67	Suction apparatus
68	Surgical Co2 Laser
69	Surgical diathermy
70	Trans Cranial Doppler
71	Tread mill
72	Ultrasonic cutting and coagulating device (Harmonic Scalpel)
73	Ultrahigh freezers
74	USG Doppler
75	Ventilator
76	Vessel sealing system
77	Video Bronchoscopy unit with Monitor
78	Video endoscope system
79	Video laparoscope system
80	Water Purification System
81	X-Ray Machine Less than 500mA
82	YAG Laser Argon Green Laser Model