

भारत सरकार Government of India स्वास्थ्य एवं परिवार कल्याण मंत्रालय Ministry of Health & Family Welfare डेकल कॉलेज एवं सफदरजंग अस्पताल, नई वि



वर्धमान महावीर मेडिकल कॉलेज एवं सफदरजंग अस्पताल, नई दिल्ली Vardhman Mahavir Medical College & Safdarjung Hospital, New Delhi-110029

Proprietary statement: This document contains information. It is provided to the hospital staff only. Do not share verbally or otherwise without written consent of the Medical Superintendent, VMMC &Safdarjung Hospital, New Delhi.

Document No.	TITLE		,
E/ NABH/ SJH/ QSP/13	Policy on Equipment Maintenance		
Effective Date: 01/03	3/2023		
Function	Name	Designation	Signature
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Reviewed By	Dr Neeraj K Gupta Dr Shilpee Kumar	Sr CMO (SAG) OIC Quality Cell	Andre I
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Distribution:Quality Cell, Medical Superintendent, In-charge Equipment Stores, HOD all department

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1.0 INTRODUCTION

Equipment management can be defined as a process of purposeful and effective utilization of equipment with a view to maximize its up-time and accomplish the pre-determined objectives. Further, it will be almost impossible to achieve the objectives in the absence of adequate facilities/ infrastructure for regular maintenance and repair of the equipment.

2.0 PURPOSE

This QSP explains the procedure on how equipment can be efficiently managed and utilized, with minimum down-time and wastage. These procedures are being followed in order to prevent equipment breakdown and keep them in optimal functional condition throughout its lifetime.

3.0 SCOPE

This document is applicable to all the health care workers of various departments procuring and using equipment and also to all the officers and engineers designated to maintain this equipment.

4.0 DEFINITION

Equipment: the set of articles or physical resources serving to equip a person or thing to accomplish a particular task.

Corrective maintenance: Action taken to repair equipment, improve a procedure, improve performance, calibrated/recalibrated etc.

Preventive maintenance: Periodic checks and tasks of proactive processes to identify the potential source of non-conformance in order to prevent sudden breakdown of instrument.

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Test Equipment: Devices used during the calibration of instruments. These devices must be traceable to a known standard.

Calibration: The operations which assure that instrument readings are accurate and referenced to a known standard.

Validation: Proving that a system (equipment, procedure, process, material) will yield expected results.

Qualification: Assuring that the equipment can produce expected results.

Accuracy: The closeness of agreement between the nominal value (selected volume) and the measured value.

5.0 ABBREVIATION

AMC: Annual Maintenance Contract

CMC: Comprehensive Maintenance Contract

PPM: Planned Preventive Maintenance

6.0 RESPONSIBILITY

The staff and organizational structure for equipment management are defined (Annexure A).

- The user of the equipment is responsible for proper usage, maintenance and safety of the equipment.
- The Head of Department supervises and is responsible for the functioning and maintenance of all the equipment in the department.

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- The Equipment Purchase Committee assesses the need for equipment, and helps in procuring an equipment with latest technology with facilities for up gradation, repair, steady supply of consumables, suitable warranty/ CMC and reasonable operating cost.
- The Inspection committee supervises the receipt and installation of equipment and its supplies.
- The equipment Repair and maintenance committee takes care of repair of non-functional equipment and also of their preventive maintenance.
- Un-serviceable equipment is condemned by the Equipment condemnation committee once the life of equipment is complete.

7.0 PROCEDURE

Installation of Equipment

Once the equipment is supplied and tested for proper functioning its installation plays a very important role in determining its performance. Improperly installed equipment are likely to have breakdowns more frequently than the equipment that has been very meticulously installed and delicately used.

Training the user Department

Once installed an equipment logbook is prepared for every equipment and is updated regularly. These equipment log books have a standard approved format and are available in the General Stores of the hospital. The master equipment log of the department is also updated (Annexure B).

During installation the health care staff handling the equipment is trained in proper handling of the equipment including regular cleaning of equipment, use of controls and calibration. The user is also expected to familiarize himself with the user manual. If the staff is not properly trained, the incidence of incorrect results as well as break down is likely to be high.

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Planned Preventive Maintenance of Equipment

A concept more important than repairing the equipment is preventive maintenance of the hospital equipment. With proper preventive maintenance the incidence of breakdowns leading to emergencies comes to a minimum, the life of the equipment increases and cost of repairing comes down. Hence, in contrast to the concept of maintenance when breakdown actually occurs, we have the concept of Planned Preventive Maintenance (PPM), the role of which starts even before the finalization of equipment. The terms for a 2-5 years warranty followed by 5 years CMC are finalized at the time of purchase itself. A period of 5 years warranty followed by 5 years CMC is preferred to ensure proper functioning for a minimum of 10 years life of the equipment.

After successful installation the equipment store ensures regular check-ups of the equipment, in terms of proper cleaning, oiling if needed, replacement of worn out parts and other preventive aspects which vary from equipment to equipment. Accordingly, under the preventive maintenance scheme, the maintenance department plans an annual maintenance schedule for every equipment, the records of which are made in the equipment log book.

Since hospital services are frequently life saving in nature, it becomes imperative to ensure proper functioning of all equipment at all times. They should be calibrated annually (or as per recommendations), to ensure that they give correct results. All this can be achieved through planned preventive maintenance.

- Quotations are invited from authorized service agents for preventive maintenance of the equipment according to the terms of contract in the notification for award for the equipment concerned. These quotations are verified by the HOD of the user department.
- A Form requesting for putting up the Comprehensive Maintenance Contract (CMC)/ Annual Maintenance Contract (AMC)(Annexure C) is filled in completely along with certification of

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- service authorization and verified quotations is put up to the Repair and Maintenance Committee for approval. Once approved the service order is provided to the firm and records are maintained.
- Upon receiving the service order the authorized firm provides timely preventive maintenance and breakdown services for the equipment. It is the duty of the user department to maintain proper records of equipment breakdown and downtime. (Annexure D). If the downtime of the equipment exceeds the desirable period and the service providing form does not provide proper timely services the PPM money is deducted and not paid to the firm.
- Every bill put up for payment to the accounts department is first verified by the user department for satisfactory services, recorded in equipment log book and then payments are made by account payee cheque.

Advantages of Planned Preventive Maintenance

- 1. With planned down time the period of non-availability of equipment is known, thus enabling the hospital to make alternative arrangement for patient services.
- 2. Break-down in emergency situations is avoided.
- 3. Equipment maintenance expenses are lower.
- 4. Employees are careful and more meticulous in using the equipment.
- 5. Schedules can be planned so as not to interfere with the normal work of the equipment.
- 6. High performance can be achieved.
- 7. By referring to the equipment record, the right time for condemnation of equipment can be determined.

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Repair of Equipment

- Any item not in working order is put up for repair. If under warranty/ CMC/ AMC the
 authorized form is informed. The service engineer visits the site, inspects the equipment
 and furnishes the service report.
- Equipment under warranty and CMC are charged for consumables and repaired free of cost; while those under AMC are charged for spares. The repair quotation provided by an authorized service agent is put up in a prescribed format (Annexure E- Equipment Repair Form). The charges are verified by the Head of Department and the request form is put up along with service report, Authorization certificate and Repair quotation. Once approved the repair order is given and the equipment is repaired.
- Any spare part if needed is indented through the equipment stores, inspected and approved
 for indenting by the user department. The spare is indented and the equipment is repaired.
- Once repaired the equipment is calibrated and validated before use. It is supervised for satisfactory performance for 15 days only after which a satisfactory repair and working report is released and payments made by the accounts department.
- The details of the repair are also entered in equipment log book and records are maintained.

Condemnation of Equipment

Unserviceable items are condemned by the Equipment condemnation committee which meets regularly in the hospital usually every 3-6 months. A condemnation certificate is obtained from the authorized service firms and the items presented for condemnation to the board are looked into details for their functional status, life span and cost being spent to keep it functional. Then a decision for either accepting or rejecting its condemnation is made.

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Monthly Non-functional Equipment data

In order to keep a check on the functional status of all equipment in the department a report on Non-functional equipment is shared every month with the Medical Records Department of the hospital. (Annexure F)

Guarantee/Warranty

- a) The equipment to be supplied under this supply order shall have to be guaranteed for 95 percent uptime by the company/ Indian agent for the period specified in the supply order, from the date of installation, commissioning and handling over to the authorities of the concerned department. If during the guarantee period any spare part becomes defective or does not work properly it shall have to be rectified/ replaced by the company/ Indian agent at their own cost and care.
- b) The engineer for servicing of the equipment shall have to be deputed immediately on receiving the intimation from the purchaser for any spare part required, same shall be arranged by the company/ Indian agent at their own cost and care.
- c) The period during which the equipment remains non-functional or unserviceable for want of engineer or non-availability of spare part shall not be counted towards the guarantee period and has to be extended accordingly by that period.
- d) During the guarantee period the company shall depute their specialist and trained engineer to make at least 4 compulsory maintenance visits for routine check up and preventive maintenance of the equipment in addition to any number of emergency calls from the purchaser for servicing of the equipment to ensure 95% uptime of the equipment.
- e) Full support shall be made available by the company/ Indian agent for the maintenance of the system and its quality assurance during the guarantee and AMC period.

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CMC/ AMC

It is the responsibility of the department to put up an AMC/ CMC for the equipment before the expire of warranty of the equipment. The terms of the contract shall be finalized for the

- Schedule of visits: The trained engineer of the company visits the institute for servicing the equipment with prior information. Minimum 4 preventive maintenance visits are made.
- ii. Scope: Covers repair maintenance, spares and their installation etc. is pre decided.
- iii. Time: Start and end (Usually annual)
- iv. Uptime of equipment: 95% uptime of the equipment of 365 days (24 hours basis) has to be ensured.
- v. Payment clause: shall include mode of payment (usually 6 monthly) on the basis of the user department certifying 95% uptime of the equipment during the AMC period.

Uptime of the equipment

- a) 95% uptime of the equipment shall be 365 days (24 hours basis)
- b) Downtime of the equipment beyond the above period shall be added to the guarantee/ AMC period.
- c) For downtime of equipment beyond 15 days at a stretch the administration shall impose penalty as per agreement.
- d) Penalty for downtime may not be applicable in the following cases or as per agreement:
 - i. Non-availability of spares which need to be imported.

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- ii. Up-gradation of the unit.
- iii. Force majoure clause
- iv. Time spent by the company engineer for routine maintenance/ testing.

8.0 REFERENCES

- The draft Indian Standard on Quality Management for Hospital Services- Guidelines-Part 5 Hospital Equipment Management, Bureau of Indian Standards, New Delhi.
- Distance Learning in Certificate Course in Hospital Management, Theme II Resource
 Management & Quality Control, Block 2 Equipment and Materials Management.

9.0 APPENDICES AND FORMS

- AMC/ CMC Form
- Equipment Repair Form
- Important contact no. for Equipment
 - o Medical & Equipment Stores: 0354, 0507
 - o Equipment Inspection Store: 0658

10.0 VALIDITY STATEMENT

This document is valid for one year from the date of issue.

11.0 APPENDICES AND FORMS

- * Annexure A:Organizational Structure for equipment management
- * Annexure B: Format for maintaining master equipment log
- * Annexure C: AMC/ CMC Form of Safdarjung Hospital
- * Annexure D: Format for maintaining Equipment Downtime record in the Department
- * Annexure E: Equipment repair form
- * Annexure F: Non-functional equipment record Format

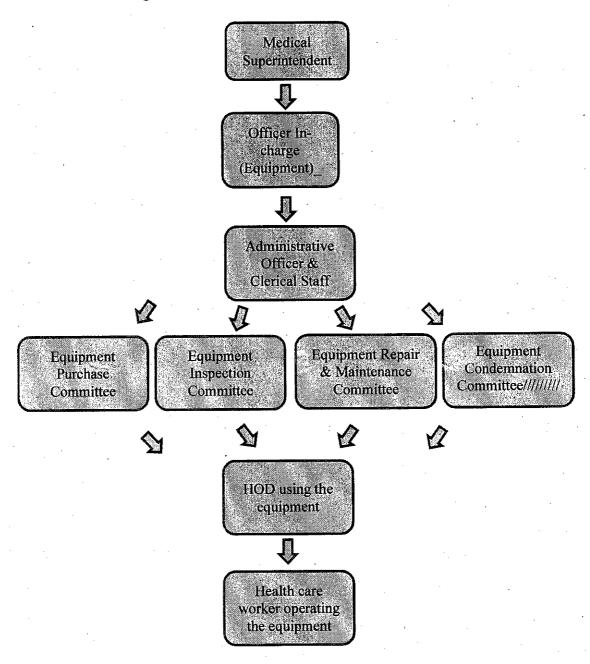
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* Annexure G: Amendment sheet

* Annexure H: Training log

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Annexure A
Organizational Structure for Equipment Management



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Annexure B

Format for maintaining master equipment log

The history sheet of equipment must have: (Equipment Identification No.)

- 1. Name of equipment:
- 2. Make/ Model:
- 3. Serial No.:
- 4. Date of Purchase:
- 5. Date of Installation:
- 6. Cost of equipment:
- 7. Name, address and contact no. of supplier/ service agent:
- 8. Warranty/ CMC/ AMC status:
- 9. Date of renewal of CMC/ AMC
- 10. Calibration status of equipment:
- 11. Due date for calibration:
- 12. Remarks:

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Annexure C

AMC/ CMC Form of Safdarjung Hospital

GOVERNMENT OF INDIA OFFICE OF THE MEDICAL SUPERINTENDENT SAFDARJUNG HOSPITAL, NEW DELHI-110 029.

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SIGNATURE OF HOD WITH SEAL

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 $\label{eq:Annexure D}$ Format for maintaining Equipment Downtime record in the Department

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Annexure E

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Equipment repair form

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	Date since equipment is non-functional								<u> </u>
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	Whether same items was procured Previously if so that date of Purchase								
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HOD Signature with seal

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PROPRIETARY ARTICLE CERTIFICATE

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Non-functional equipment record Format

S. No	Name of the equipment with Model & Serial No.	Total No. of equipment	Cost of Equipm ent	Date of Purchas e	Name of the supplier with contact details	7 Date from which equipme nt is/ are non- function al	8 Whether equipme nt is under AMC/CMC/warrant, if not reasons thereof	Reason for non- function ing if any	Details of part required for repair along with estimate expendit ure	Action Taken
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Annexure G

AMENDMENT SHEET

VMMC &Safdarjung Hospital, New Delhi

Sr	Page No.	Clause	Date	of	Amendment	Reasons	Signature of	Signature of
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Annexure H



VMMC &Safdarjung Hospital, New Delhi <u>TRAINING LOG</u> (Contents, Deviation and Amendment)

Sr.No	Training Attendee	Date	Signature
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Officer In-charge

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