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DEFIBRILATOR / MONITOR CUM RECORDER

PURPOSE / USE

The unit is required to monitor Cardiac rate & Rhythm and for Defibrillation of heart in case of ventricular fibrillation (Cardiac Arrest).

TECHNICAL SPECIFICATIONS

A. General

01. Portable, light weight, easy to use 1, 2 ,3 operation.
02. Mains / Internal Battery / Vehicle battery operated.
03. Mains – Single phase A.C. $230 \pm 10\%$ Volt , $50 \pm 3\%$ Hz
04. Battery Capacity – minimum 100 discharge of 300 joules or 5 hours monitoring.
05. Environment – Operating Temperature 10-45°C, 15 – 95% relative humidity.

B. Defibrillation

01. Current controlled bi phasic wave form.
02. Energy stored (maximum) more than 300 joules.
03. Energy select (external) 2 – 300 joules in steps.
04. Charge time – less than 10 seconds to 300 joules with fully charged battery.
05. Energy display – stored and delivered.
06. Synchronised and manual defibrillation facility.
07. Defibrillation synchronized to the R-wave with marker indication on ECG wave form.
08. Paddles – Standard adult (external) with Paediatric Paddles integrated with remote charging through paddles.
09. Charge indicator – Charge ready LED on front panel with audible tone.

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C. Monitor

01. LCD screen with CCFL back light.

02. ECG

- i) Mode – Paddle ECG and patient cable ECG (I, II, III standard leads)
- ii) Sweep Speed – 25 mm per second
- iii) 1 mv calculating signal – vertical line
- iv) Display time – 4 seconds
- v) Built in ECG recorder

03. Heart rate display - 10 – 300 bpm \pm 2bpm

04. Heart rate alarm – audiovisual with user selectable alarm limits.

05. Electrical isolation and shielding – input protected against high voltage DF pulse and radio frequency interference.

06. Cautery Filter – Built in

D. Printer

01. Thermal array recorder

02. Paper size – 50 mm x 20 mts

Printing Width – 40 mm

03. Print mode – 6 seconds , delayed ECG

04. Event recording – Stores and print up to 24 events

05. Print annotations – Time, Date , Heart Rate , HR limits / Event Marker , ECG parameter, Defibrillator mode , Selected and Delivered Energy.

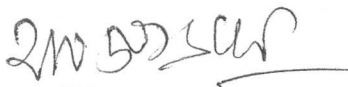
Terms and conditions

01. The unit shall be installed and commissioned by the supplier at Main Hospital, BHEL, Hardwar at his cost and responsibility.

02. The unit is to be supplied with all standard accessories and 3 copies of operation manual.

03. Test and guarantee certificate for one year from the date of installation.

04. Commercial terms and conditions as per annexure.


DR. R.K. GUPTA
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Pre-Qualifying Conditions for Tender No.- C/7029/11/4278T

1. The Manufacturer should have standing of manufacturing the equipment for minimum 5 years.
2. The Manufacturer should furnish the list of customers where same model of equipment has been commissioned in last 5 years from the date of opening of the Tender.
3. The vendor should furnish satisfactory performance certificate from one customer where same model has been installed and has been working satisfactorily for last at least 1 year from the date of opening of the Tender. Also furnish the details of customer/company where the equipment has been installed with contact address and telephone no. of the customer.
4. The vendor should ensure regular after sales service including spares for at least five years after expiring of Warranty period. / *guarantee period*

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Dr. S.K. Gupta
AGM (Surgery)