


SPECIFICATIONS FOR DEFIBRILLATOR WITH MONITOR

S. No	Specifications
1.	Description of Function
1.1	Defibrillator is required for reviving the heart functions by providing selected quantum of electrical shocks with facility for monitoring vital parameters.
2.	Operational Requirements
2.1	Defibrillator should be a low energy Bi-Phasic, Portable and latest model. Should not weigh more than 6 Kg (+/- 10% is acceptable)
2.2	Should be upgradable for vital parameters like SPO2, NIBP & CO2.
2.3	Should print the ECG on thermal recorders.
2.4	Should work on Manual and Automated external defibrillation (AED) in Bi-phasic mode. The maximum energy delivered by the device should be 1 J to 200J in manual mode and 150 J in AED mode.
2.5	Should be capable of doing synchronized & asynchronized cardioversion
2.6	Can be operated from mains as well as battery
2.7	Should have defibrillator self-test facility.
2.8	Demonstration of the equipment quoted is a must
2.9	Upgradable to External pacing with demand and fixed mode should be provided as standard.
3	Technical Specifications
3.1	Should be a low energy biphasic defibrillator monitor with recorder, having capability to arrest all arrhythmia.
3.2	Should monitor ECG through external paddles and monitoring electrodes and defibrillate through external paddles. Should have automatic/manual switching to see patient ECG through paddles or leads.
3.3	Should have factory integrated compensation for chest impedance for a range of 25 to 150 ohms
3.4	Should have a built-in printer/thermal recorder
3.5	Should have charging time of less than 6 seconds for maximum energy. Charging indicator should be there


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3.6	Should have bright TFT color display 7" or more for viewing messages and ECG waveform of 4 seconds. Should be able to display 3 waveform channels simultaneously.
3.7	Should have external paddles with paddle contact indicators. Single adult and paediatric paddles should be available.
3.8	Should have event summary facility for recording and printing at least 50 events and 50 waveforms
3.9	Should have a battery capable of 100 shocks delivery.
3.10	Should be capable of printing reports on event summary, configuration, self-test, battery capacity etc.
3.11	Should have facility for self-test/check before usage and set up function
3.13	Should be capable of delivering energy in increments of 1-2 joules up to 1 to 10J and increments of 5-20 joules upto 50J.
3.14	Should have user friendly 1,2,3 colour-coded operations
3.15	Should be capable to connect switched internal paddles of same make (price to be quoted separately)
3.16	Should conduct automated self-test when switched on and should have a 'ready to use. indicator.
3.17	Should have patient contact indicators on paddles for immediate feedback on patient-paddle contact for ensuring maximum shock efficacy
3.18	Should have continuous 8 hours waveforms storage facility. It should have capacity to store at least 50 events of 30 minutes in length.
4	System Configuration Accessories, spares and consumables
4.1	Defibrillator -01
4.2	Paddles Adult/Pediatric (pair) -01
4.3	Complete set of ECG Leads along with mother cable-01
4.4	ECG Rolls- 01
4.7	AED pads 01 no. of each
5	Environmental factors
5.1	The unit shall be capable of operating continuously in ambient temperature of 10-

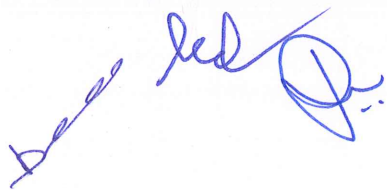


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	40°C and relative humidity of 15-90%
5.2	The unit shall be capable of being stored continuously in ambient temperature of 0-50°C and relative humidity of 15-90%
6	Power Supply
6.1	Power input to be 220-240VAC, 50Hz

Conditions for tender:

1. All accessories should be from the same Original Equipment Manufacturer for the main unit.
2. Instruments must be ISO certified and a copy should be enclosed. (The ISO Certificate must be issued by any organization accredited by the Bureau of Indian Standard or accredited by the international accrediting forum "IAF" (Certificate to be attached).
3. Should be USA FDA and/ or European CE be approved by 4 digits notified body.
4. Other necessary certifications if any required will be provided by the bidder for the smooth functioning of the machine.
5. Installation process should be performed by O.E.M trained service engineers/ service representatives on OEM letterhead or Service Report within 15 days of supply, with the mandatory provision of providing preventive services visit of OEM trained Service Engineer/ Service Representative quarterly per year till the completion of warranty period (i.e., 20 visits for the first 05 years) & further quarterly visits (04 visits/year) year till the completion of CMC period.
6. The supplied equipment to be covered under a 5years comprehensive warranty and post-completion 5 years paid CAMC, in which all accidental damages/ breakage, leakage/ punctures, manufacturing defects and wear and tear of all sorts will be covered.
7. The equipment should have a Brand name/ Model Number embossed/etched on the equipment.
8. All the technical specifications in the compliance statement must be supported by Original Literature from the firm/ O.E.M with highlighting Numbering & flagging of all technical certificates.
9. Offered Equipment should have a strong Government Installation base.


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10. Offered Equipment should have a Regional Sales Service Centre of the Original Equipment Manufacturer in the region for a 95 % uptime guarantee.
11. For the offered main unit, the essential, optional required consumables'/accessories' shelf life should be declared on the Original Equipment Manufacturer's letterhead.
12. In case of technical snag/failure/breakdown the response time for the inspection should be within 24 hours and repair within 05 days otherwise provide a service machine/ alternate arrangement to be made till the period of recovery of the breakdown of the unit, failing which attracts penal action as per the decision of institute/ hospital.
13. For offered equipment the Training of technical staff and users should be performed by Original Equipment Manufacturer trained Service Engineers at the proper designated place- at bidders' cost.
14. Company should quote their latest model and need to provide an affidavit for the same.
15. As a tendering process the Demonstration of the offered Equipment is Mandatory at hospital/institute premises or other designated places at the bidder's cost.
16. The bidder must comply with the General Financial Rules and their modifications if any issued by the Government of India- 2017.
17. Any bidder from a country that shares a land border with India will be eligible to bid in the tender only if the bidder is registered with the Competent Authority (i.e., Registration certificate issued by the Ministry of Commerce and Industry (Department for Promotion of Industry and Internal Trade- DPIIT after October 2020). If any such bidder is not registered with DPIIT they will be liable for technical disqualification.
18. Principal (OEM) must authorize only one agent to be quoted in the bid otherwise multiple quotes through different agents in the same bid will be canceled.
19. The Bidder and its OEM both have to submit a notarized affidavit on the Indian Non-Judicial Stamp Paper of Rs.100/- that the bidder has not quoted the price higher than the current financial year and last financial year supplied to any government Institute/ Organization/ reputed Private Organization. OEM also has to submit that the price quoted by the bidder in the bid is on its behalf and the lowest in the current and last financial year in the country. Therefore, if at any stage it has been found that the supplier and its OEM have quoted lower rates than those quoted in this bid; the Institute (the purchaser) would be given the benefit of lower rates by the Supplier and any excess payment if any,

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will become immediately payable to the Institute (the purchaser). If such an affidavit is not submitted, the bid will be outrightly rejected. (Part of technical bid).

20. Guarantee / Warranty Period: Separate offers of Comprehensive Maintenance Contract (CMC on main equipment) and Annual Maintenance Contract (AMC on main equipment) for further 5 years after expiry of 5 years of warranty (i.e., 6th, 7th, 8th, 9th and 10th years) in rupees only (and on basis of percentage of price) should be included in a financial bid in the absence of which the offer is liable to be rejected. Payment for CMC/AMC shall be made only after the expiry of the warranty of 5 years, in case the Institute (the purchaser) decides for availing of CMC/AMC services. Contract for CMC/AMC shall be decided on expiry of warranty but rates (not more than 5% inclusive of all taxes for 6th to 10th year) will be frozen at the price of an issued purchase order before the release of payment by the Institute (the purchaser). However, the Institute (the purchaser) may decide not to enter into any CMC/AMC contract without assigning any reason for the same, which shall be binding upon the bid.



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