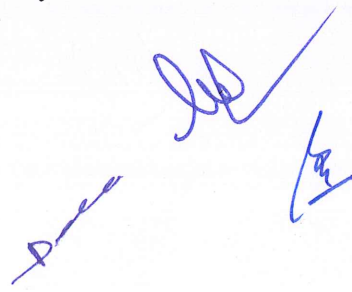




## SPECIFICATIONS FOR AUTONOMIC FUNCTION TESTING SYSTEM

### COMPLETE SETUP:

1. Should be a multi-model wireless lightweight portable and easy to carry with a basic system should be 16 channel multimodal system with Ethernet/USB connectivity.
2. Same sixteen-channel multimodal system should monitor signals such as ECG, HR, HRV, respiration, four muscles EMG, Pulse GSR, EEG, EOG, cardiac output, and heel and toe pressure measurement.
3. It should have the capability for wireless recording of ECG, HR, HRV, respiration, four muscle EMG, Pulse, GSR, EEG, EOG, cardiac output, and heel and toe pressure measurement, skin and nasal temperature.
4. It should have various automatic analysis modules for ECG, HRV, impedance cardiography, baroreflex sensitivity, waveform peak analysis, classification and detection of heart beats cardiac complex boundaries, etc.,
5. Same 16-channel multimodal system should be upgradeable to various other parameters like the non-invasive beat-to-beat blood pressure, and gait analysis in the future whenever required.
6. It should have various automatic modules for the capability for wireless recording of ECG, HHR, HRV respiration 4 muscles EMG pulse to pressure impedance cardiography baroreflex sensitivity waveform peak analysis skin and nasal temperature.
7. System should be provided with 1000 cloth-based, paired electrodes:600 pieces, stress test electrodes:1000 pieces for both curved and flexible muscles, cardiography, and a cardiogram.
8. Should have minimum 10 feet transmitting range in real-time data transmission to the multimodal system and capable of video synchronization with the above parameters.
9. Amplitude-related parameters, frequency-related parameters, and time-related parameters should be extracted along with options to import or export data at various formats.
10. The software should have features like calculating RMS power spectrum template matching multiple display modes should be available as simple chart view, scope view, XY view, zoom view, FFT, and Spectrum.
11. Computer system with 1 TB internal hard disk storage capacities and accessories.



  
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12. Multiple export formats should allow exporting data in binary, Excel, Matlab, QuickTime, Wav, Text, etc
13. Imported motorized electrical tilt table should come along with the system.
14. The system should have worldwide installation acceptance and recognition in published research papers globally performance certificates testimonials should be provided from the user using the system in India and abroad.

**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 equipment should have a Brand name/ Model Number embossed/etched on the equipment.
7. 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.
8. Offered Equipment should have a strong Government Installation base.
9. Offered Equipment should have a Regional Sales Service Centre of the Original Equipment Manufacturer in the region for a 95 % uptime guarantee.



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10. For the offered main unit, the essential, optional required consumables'/accessories' shelf life should be declared on the Original Equipment Manufacturer's letterhead.
11. 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.
12. 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.
13. Company should quote their latest model and need to provide an affidavit for the same.
14. 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.
15. The bidder must comply with the General Financial Rules and their modifications if any issued by the Government of India- 2017.
16. 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.
17. 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.
18. 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




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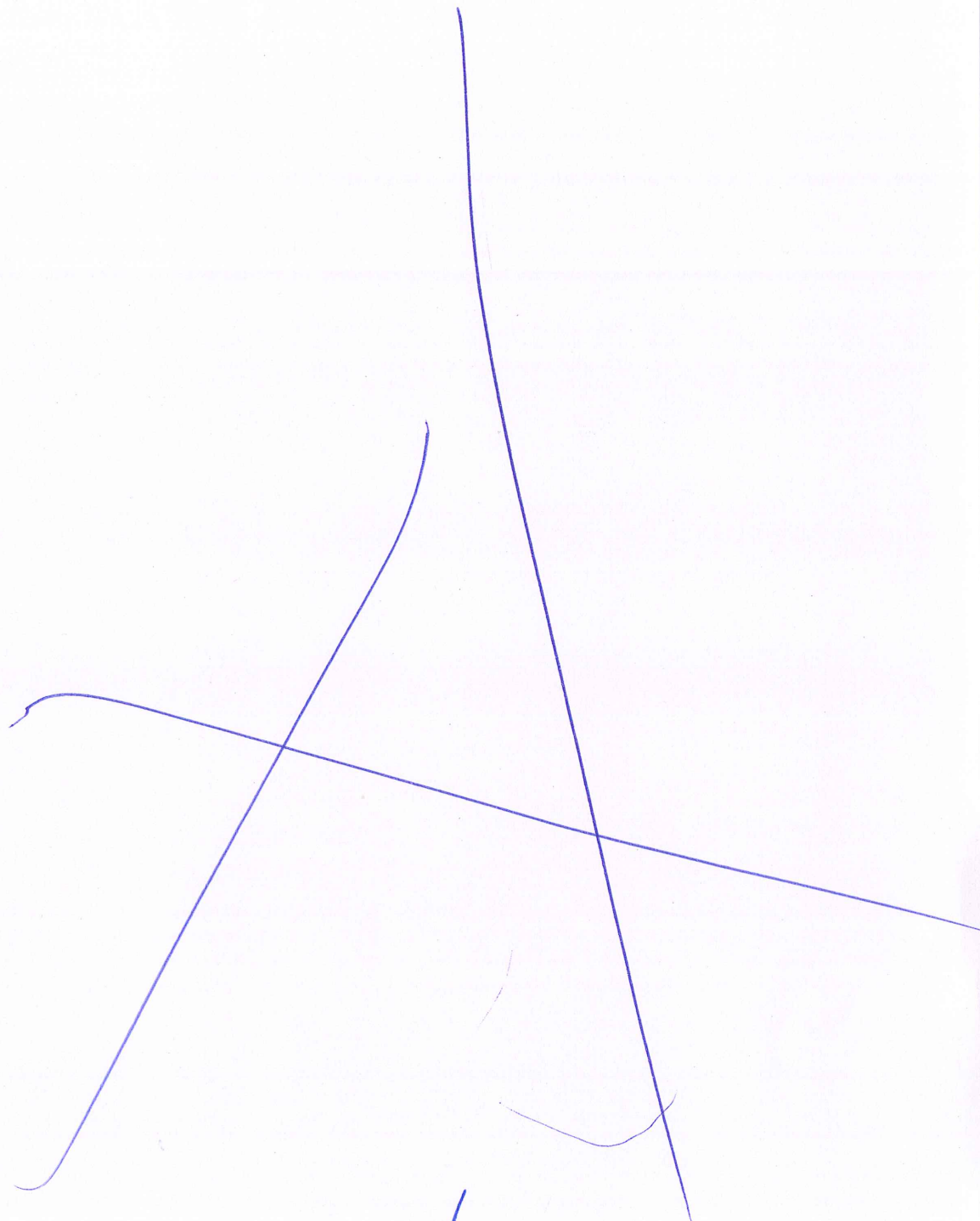
Institute (the purchaser) would be given the benefit of lower rates by the Supplier and any excess payment if any, will become immediately payable to the Institute (the purchaser). If such an affidavit is not submitted, the bid will be outrightly rejected. (Part of technical bid).

19. 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., 6<sup>th</sup>, 7<sup>th</sup>, 8<sup>th</sup>, 9<sup>th</sup> and 10<sup>th</sup> 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 6<sup>th</sup> to 10<sup>th</sup> 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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