

Hamdard Institute of Medical Science & Research Associated

Hakeem Abdul Hameed Centenary Hospital,

Jamia Hamdard, New Delhi-62

Short Term Tender for Supply of EMG-NCV Machine

Hakeem Abdul Hameed Centenary Hospital, HIMSR, Jamia Hamdard invites bids from reputed, experienced and financially sound Companies/Firms/Agencies for supply of EMG-NCV Machine to the Institute. Those who are in the similar business for the last two years and providing the same service to Central/State Govt. / Reputed Private Hospitals or autonomous bodies may send their bids both Technical and Price in sealed envelopes as per the specification attached in **Annexure A**.

The interested Companies/Firms/Agencies may send their bid complete in all respect according to "SCHEDULE OF REQUIREMENT" mentioned below:

| <u>Description</u> | <u>Schedule</u> |
|---|-------------------------------|
| Closing Date & Time for receipt of Tender | 3-06-2017 till 4:00 pm |

GENERAL INSTRUCTIONS TO TENDERERS

- i) Eligibility of Bidders:-This invitation of Bids is open to reputed foreign/ Indian manufactures or their authorized dealers/ sole selling agents/ Stockiest authorized by the manufacturer to quote on their behalf for this tender.
- ii) The sealed envelopes are to be deposited in the tender box placed at the office of Medical Superintendent, HAH Centenary Hospital, Block –A (Bids sent by COURIER will not entertained).
- iii) Bids should be put in the envelope containing Technical Bid and Price Bid separately labelled failing which the tender shall be rejected forthwith.
- iv) The tendering contractors/bidders should keep their offers valid for acceptance for a period of one year from the date of the opening of technical bids. In the event that the day up to which the offer is to remain open is declared holiday for the 'Hospital', the offer shall remain open for the following day.
- v) The purchaser, through the above process of tender scrutiny and tender evaluation will determine to its satisfaction whether the tenderer, who's tender has been determined as the lowest evaluated responsive tender is eligible, qualified and capable in all respects to perform the contract satisfactorily.
- vi) The successful bidder shall be informed to provide Demo within ten days, failing which the award of supply will be cancelled.
- vii) Warranty of the equipment shall remain for a period of 5 years from the date of installation.
- viii) HAH Centenary Hospital reserves the right to amend or withdraw any of the terms and conditions contained in the Tender Document or to reject any or all tenders without giving any notice or assigning any reason.

Medical Superintendent

ANNEXURE A

TECHNICAL SPECIFICATIONS

| Sr. No. | Specifications |
|----------------|--|
| 1. | Should have Nerve Conduction Studies MCS, NCS, F wave, H reflex, Collision, Blink reflex, RNST, Inching studies & CCV with temperature probe. |
| 2. | Main Unit should be connected to the Computer through the latest and powerful USB Interface. |
| 3. | Must have 16 bit A/D conversion for high fidelity waveforms. |
| 4. | Must have Compact operation panel for easy management of waveforms and latency marking. |
| 5. | 2/4 channel system with head montage junction box with user configurable channels. |
| 6. | Single channel monophasic/ biphasic constant current electrical stimulator, upgradable to 4 electric stimulator with artifact compensation and temperature measurement for CCV |
| 7. | Input impedance: above 100 M ohms differential mode. |
| 8. | Sensitivity 1 micro volt per division to 10 milli volt per division |
| 9. | Noise < 0.5 micro volt RMS |
| 10. | Common mode rejection ratio: above 112 dB isolation mode |
| 11. | Low filter settings: 0.01 Hz to 3 KHz and high filter settings: 10 Hz to 20 KHz with AC interference notch filter 50 Hz |
| 12. | Amplitude calibration 1 micro volt to 10 milli volt |
| 13. | 18 bits, number of averaging 9,999 |
| 14. | Electrical Stimulator: 2 channels monophasic / biphasic, constant current with artefact compensation |
| 15. | Should have option of connecting stimulation pods with multiple output ports. |
| 16. | Should have compact stimulating electrode with convenient dials for stimulation intensity adjustment and delivery of electric stimulation with two user configurable switches. |
| 17. | System should have at least 1 triggers input / output, upgradable to 6 Triggers. |
| 18. | Must have Single Fiber EMG, Macro EMG, Stimulated SFEMG, and QEMG with the system. |
| 19. | User should be able to open at least 8 test protocols simultaneously. |

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| 20. | 2 minutes up to 99 sites. The system should have QEMG, Single fiber EMG, Stimulated SFEMG and Macro EMG. |
| 21. | EMG play back with waveform and sound for 2 minutes should be possible in any PC. |
| 22. | Must have Single Fiber EMG, Macro EMG, Stimulated SFEMG, and QEMG with the system. |
| 23. | Should have Brain stem auditory evoked potentials with click, burst & tone pip stimulation (ABR, MLR, SVR & EcochG). |
| 24. | Should have Somatosensory Evoked potentials with signal triggering and back averaging |
| 25. | Must have user friendly Data base management software and study schedule program for easy data management. |
| 26. | On-screen examination guide / Neuro navigator. |
| 27. | Should be able to perform Skin electrode impedance check at both junction box |
| 28. | Should have option of directly interfacing high voltage stimulator in future without additional hardware |
| 29. | Should have option of P-300, MRCP & CNV. |
| 30. | Should have facility of exporting data to csv or any other suitable format for analysis with MATLAB or any other third party software. |
| Stimulus software | |
| a) Should be supplied with a stimulus presentation software with pre-configured Stimulus lists | |
| b) Should be supplied with Branded Laptop computer for presenting stimulus (i5 processor, 4 GB RAM, 1 TB Hard Disk), printer | |
| c) Should Support for PDF or any other file format | |
| 31. | Should be supplied with following accessories a) Shielded EP electrodes – 2 sets b) Conductive paste (3 Jars of 300 gms) - 2 sets c) Skin preparation gel (Set of 2 tubes) - 2 sets d) EMG disposables needles (Box of 25) - 1 boxes (Pead size) e) EMG disposables needles (Box of 25) - 2 boxes (adult size) f) Single fibre EMG needle - 2 Nos. g) Temperature probe - 1 No. h) Acoustically shielded Head Phones - 1 No. i) Insert Ear Phones - 1 No. j) 17” VEP Monitor - 1 No. |
| 32. | System should have following Safety Standard a) Manufacturer should have ISO certification for quality standards. b) Should be CE approved product. c) Should be IEC 60601 -1 approved for electrical safety of Medical Equipment. d) Shall meet IEC 60601-2-040 Safety requirements |

