

**BRIHANMUMBAI MUNICIPAL CORPORATION**  
**LTMMC & LTMG Hospital,**  
**Social Service Department,**  
**Sion, Mumbai- 400022.**

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**Expression of Interest(Second Time)**

**Subject- To invite Expression of Interest from vendors to supply**  
**32 Channel Portable Video EEG Machine For Neurology**  
**Department LTMG Hospital.**

**LTH/ 559/MSW/dt. 15.12.2023**

Dean Poor Box Charity Fund is Charity unit of Lokmanya Tilak Municipal General Hospital. LTMGH is a tertiary referral center with 1900 beds. Neurology Department requires following equipment's from donation and Toyo Engineering CSR has the Sanction 32 Channel Portable Video EEG Machine for performing basic and advanced test and treatment for poor and needy patients of L.T.M.G. Hospital.

For procurement of 32 Channel Portable Video EEG Machine for performing basic and advanced for performing basic and advanced test and treatment. So we propose to invite "Expression of Interest" from vendors to supply the same for patients treatment in Neurology Department of L.T.M.G. hospital.

To supply required 32 Channel Portable Video EEG Machine vendors should obtain **Application Form** from **Social Service Department on 27.01.2024 to 13.02.2024** (short period EOI) and submit all required documents on or before **13.02.2024**, up to 03.00 P.M in the drop box in Social Service Department, College building, ground floor of LTMG Hospital, application box will be opened on **15.02.2024** at 11.00 am in Dean's Office. The entire document to be provided in below mention packet.

Packet A – Description of Documents

Packet B – Technical Specification Documents

Packet C – Quote of Basic Price and GST (price should be quoted with the mention of GST.) = Total cost.

**32 Channel Portable Video EEG MachineEOI should be submitted as per below mentioned packets.**

<b>Packet A</b>	<ol style="list-style-type: none"><li>1) All the above equipment shall be new and manufactured from virgin materials.</li><li>2) It is mandatory to provide free installation &amp; training for the user department and staff.</li><li>3) Training of 5 days to Doctor for hands on machine training under supervision.</li><li>4) Equipment should be provided within 30 days from the date of purchase order.</li></ol>
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		<p>5) All the requirements of this supply shall be sourced from the original equipment manufacturer of the <b>model quoted</b>. In case the machine is imported one, no import substitution is permitted neither before the award nor after the award for any part or accessory.</p> <p>6) The equipment's shall have valid CE certificate from notified body/ US FDA approval and documentary evidence to that effect shall be uploaded.</p> <p><b>Manufacture or authorized distributor should quote. Third party suppliers can't be permitted.</b></p> <p>7) The equipments shall be having warranty of three years as described document elsewhere. The warranty and CMC shall cover the list of the spare parts and the rate of which valid for total 8 years (warranty 3 years and CMC 5 years) irrespective of whether those are treated as consumables or otherwise.</p> <p>8) The equipment's should be provided with one hard copy in original of the detailed service manual and operation manual. Further, a soft copy is also required.</p> <p>9) The instrument trolley can be of Indian make</p> <p>10) Training to Medico Electronics Cell Engineers (MECE) from servicing point of view and to User department from operating point of view.</p> <p>11) The license for the software's shall be valid for the warranty period and for the CMC period without any extra charge to the purchaser.</p> <p>12) Bidder should submit company registration document , PAN Card, Aadhar Card, Last three years audit report and return files and proof of same work done in government hospital all technical details in the form of technical brochures / leaflets for all the equipment's proposed for supply and mentioned in the technical offer in the technical offer.</p> <p>13) List of Bank</p> <p>14) Partnership Deed if any of vendor.</p> <p>15) Solvency Certificate</p> <p>16) Power of Attorney to sign the tender if original vendor not available .</p>
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<b>Packet B</b>	<b>GENERAL SPECIFICATIONS</b>		
	<b>Isolated Power Supply</b>	220 - 240 VAC ± 10% input, 50 - 60 Hz, Power consumption 420VA .	
	<b>Dimensions</b>	Unibody cart approx. 75 H x 110 W x 200	
	<b>Weight</b>	Unibody cart approx. 45kg	
	<b>Operating Environment (in use)</b>	Temperature: 10 to 35° C, (50 to 95° F) Relative Humidity: 30-80%,	

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<b>Non-Operating Environment (in storage)</b>	Temperature: -20 to 65° C, (-4 to 149° F) Relative Humidity: 10-95%, non-condensing	
<b>COMPUTER</b>		
Computer	<b>Laptop Computer( Supplied from OEM)</b> Intel i3 or more, RAM-4GB, 500GB Internal Storage hard Disk , Microsoft Windows 10, 64-bit External CD/DVD Drive	
<b>PRINTOUT</b>		
Printer	HP DeskJet Printer (Black, White, and Color)	
<b>NETWORK</b>		
Network	HL7 compatible	
<b>EEG SOFTWARE (WITH 32ch AMPLIFIER)</b>		
<b>EEG Display</b>		
<b>Sec/Page( Waveform Sweep Speed)</b>	0.1, 0.2, 0.5, 1,2,5,10,15,20,30,60s or 5 min/page	
<b>Sensitivity</b>	OFF, 1, 2, 3, 5, 7, 10, 15, 20, 30, 50, 75, 100, 200 μV/mm Off, 10,15,20,30,50,70,100,150,200mV/mm	
<b>High Filters</b>	15, 30, 35, 60, 70, 120, 300 Hz	
<b>Low Filters</b>	0.08, 0.16, 0.27, 0.53, 1.6, 5.3, 53, 159 Hz 0.001, 0.003, 0.03, 0.10.3, 0.6, 1.0, 1.2 seconds	
<b>Notch Filter</b>	50/60 Hz	
<b>32 CHANNEL AMPLIFIER</b>		
<b>Analog/Digital Converter</b>	16 bits	
	Humidity Range: 10% to 95% non-condensing	
<b>VIDEO CAMERA</b>		
	Automatic Day and night recording	
	Speakers and Microphone	
	High Quality resolution 720 x 576 or more resolutions	
	Additional 1 TB Hard Disk Drive for video recording	
<b>Input Impedance</b>	> 100 MΩ (common mode)	
<b>CMRR at Patient Inputs</b>	> 105 dB	
<b>Amplifier Sample Rate (under software control)</b>	125, 200, 500, 1000 Hz	
<b>Calibration</b>	Step wave or Sine wave ,  2,5,10,20, 50, 100, 200, 500, 1000 μV amplitude	
<b>Interface to Amplifier</b>	USB	

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	<b>Built-in Impedance and Display</b>		
	<b>1.Headbox</b>	Optional; no impedance display	
	<b>2.Additional Display</b>	- Isolated SpO2 & Co2	
		- Isolated patient event button	
	<b>FLEXIBLE OPTIONS</b>		
	<b>Synchronous Video</b>	720 x 576 or more resolutions.	
	<b>Spike and Seizure Detection</b>	Available Optional .	
	<b>Trend Analysis</b>	Offline and online trend analysis. Envelope, total power, absolute band power, relative band power, amplitude integrated EEG, spectral edge and spectrogram. Unlimited number of simultaneous trends. Individual filter settings for each trend.	
	<b>Topographic Brain Maps</b>	Band Power, Coherence & Amplitude maps.	
	<b>Remote Control</b>	Control a recording session remotely. Provides all the functionality of the acquisition program on a Review System connected via Local Area Network (LAN)	
	<b>Synchronous Video</b>	720 x 576 or more resolutions.	
	<b>PHOTIC, AUDITORY AND PATTERN STIMULATOR ASSEMBLY</b>		
	<b>Standard Specifications</b>	<b>Frequency of flash:</b> Maximum 60 Hz <b>Duration of flash:</b> 1ms <b>Light intensity :</b> Flash energy Maximum: 0.64J or More	
	<b>Photic Cable</b>	1 meters or more	
	<b>Mains input</b>	100-240VAC 50/60Hz, 1 A (1A-0.5A)	
	<b>Protection against electric shock</b>	Class I	
	<b>Environmental Conditions for Use</b>		
	Operating Environmental Limits	Temperature Range: 10°C to 35°C Humidity Range: 30% to 80%	
	Transport and Storage Limits	Temperature Range: -20°C to 65°C Humidity Range: 10% to 95% non-condensing	
		<b>Frequency of flash:</b> Maximum 60 Hz <b>Duration of flash:</b> 1ms <b>Light intensity :</b> Flash energy Maximum: 0.64J or More	
	<b>VIDEO CAMERA</b>		
		Automatic Day and night recording	
		Speakers and Microphone	
		High Quality resolution 720 x 576 or more resolutions	
		Additional 1 TB Hard Disk Drive for video recording	

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<b>Packet C</b>	<p>Quote of Basic Price and GST (price should be quoted the mention of GST.) = Total cost.</p> <p>Three Year AMC + Five Years CMC at rate of 5% on Machine price Total Eight Years.</p> <p>The Tender Documents should be signed by vendor, company stamp and lowest quotation would be awarded the contract.</p> <p>No False Information and Documents will be Entertained.</p>
<b>Warranty period</b>	<b>Warranty period 3 years &amp; 5 years CMC after completion of warranty.</b>
<b>CMC</b>	<p><b><u>Comprehensive Maintenance Contract (CMC)</u></b></p> <p>1) After the warranty period is over, five years Comprehensive Maintenance Contract (CMC) will have to be entered into with the terms and conditions as per MCGM norms.</p> <p>2) The successful bidder has to ensure that all the required spares and services are available during the contract period and 3 years after that duly backed by the principal.</p> <p>3) Cost of the CMC should not be more than 5% of total equipment cost.</p>

**If any doubt or any query about above mentioned work you can contact with Mr. Shantaram Mane (Community Development Officer LTMG Hospital Sion) Mob 9819733707**

**SD/- 23.01.2024**  
**Dr. Prakash Gaikwad,**  
**Head of Department**  
**Social Service Department**  
**L.T.M.G. Hospital,**  
**Sion, Mumbai – 400 022.**

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**SD/- 23.01.2024**

**Dr. Haresh Bharote,  
Professor & Head,  
Neurology Department,  
LTMMC & LTMG Hospital,**

**SD/- 23.01.2024**

**Dy. Dean,  
L.T.M.M.College&  
L.T.M.G.Hospital,  
Sion, Mumbai – 400 022.**

**SD/- 27.01.2024**

**Dean,  
L.T.M.M.College&  
L.T.M.G.Hospital,  
Sion, Mumbai – 400 022.**