वी.पी.कोइराला स्वास्थ्य विज्ञान प्रतिष्ठान धरानको

कोटेशन माग गरिएको सूचना ।

(सूचना प्रकाशित मिति:२०८२।१०।०५)

यस प्रतिष्ठानको लागि संलग्न Technical Specification बमोजिमको ECT Machine खरिद गर्न लागत अनुमान तयार गनुपर्ने भएकोले व्यवसाय (फर्म) दर्ता प्रमाणपत्र, मु.अ.कर दर्ता प्रमाणपत्र, आ.व. २०८१/०८२ को कर चुक्ताको प्रमाणपत्रको प्रतिहरू संलग्न गरी यो सुचना प्रकाशित मितिले ७ (सात) दिन भित्र कोटेशन तथा क्याटलगहरू पेश गर्नुहुन सुचित गरिन्छ । माग गरिएको कोटेशन तथा क्याटलगहरू तोकिएको म्यादभित्र प्रतिष्ठानको दर्ता, चलानी फाँटमा दर्ता गर्नुहुन वा quotation.procurement@bpkihs.edu मा email मार्फत पेश गनुपर्नेछ ।

Technical Specifications of PC Integrated Bi-directional Square Wave Electroconvulsive Therapy (ECT)

S.N.	Purchaser's Technical Specifications	Bidder's Proposed Specifications: YES/NO	Page no. in technical datasheet	Deviation (If any)
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	ECT is a procedure that uses a small electrical stimuls to cause a brief , controlled seizure.The ECT machine is used to effectively treat severe mental health conditions, including depression , schizophrenia and more.			
2	**Operational Requirements:**			
2.1	Supply, Delivery, Installtion ,Training and Commissioning of a PC integrated electroconvulsive therapy machine (ECT) with bi-dirrectional square-wave stimulus for use in tertiary/teachning hospital.The system shall provide precise,reproducible stimulus control,integrated physiological monitoring (EEG, ECG, EMG), session data management on PC and full safety protection meeting IEC/ISO medical device standards.			
3	**System Configuration:**			
3.1	Main ECT Unit Microprocessor Controlled Bidirectional Square Wave Stimulator with Touchscreen or Keypad interface, Built-in impedance and safety protection circuits , Monitoring Module (Integrated EEG & ECG Channels) Computer System pre loaded with ECT Software for control, recording and report generation, Laser Printer, 1KVA UPS with in-built battery on trolley and Accessories 2 sets including Stimulus Electrodes, EEG & ECG leads, Conductive gel, Cables, Connectors etc			
4	**Technical Specifications:**			
4.1	Waveform : Bi-Directional Square Wave			
4.2	Pulse Width : 0.25ms -2.0 ms (in steps of 0.1 ms) or better			
4.3	Pulse Frequency : 10 -120 Hz (in steps of 10 Hz) or better			
4.4	Train/Stimulus Duration : 0.1 - 5 sec (in steps of 0.1sec) or better			
4.5	Output Current: 500 - 900 mA (in stepsof 50 mA) or better			
4.6	Monitoring : EEG, ECG and EMG Display and Recording			
4.7	Mode : Brief Pulse Mode & Other clinically approved stimulation mode			
4.8	No. of Channels : 3 Channels (EEG, ECG & EMG)			
4.9	Display: Real-Time display of pulse width,frequency, train duration, current, charge impedance			
4.10	Safety : Output isolation with automatic cut-off for impedance out of range			
4.11	Output display in joules & millicoulombs.			
4.12	Cutoff : Automatic reset on fault or impedance error			
4.13	Seizure Analysis : Automatic seizure duration measurement and event marking, export of ECG/EEG data for review.			
4.14	User Interface & Control : Touchscreen or Keypad with Intuitive Navigation, Interface for Intensity Control : Event marking during procedure : Audible and Visual Alarms for faults such as arrhythmia, system error impedance etc			
4.15	PC Integration & Software : Operating System should support Windows based PC with latest generation processor i5 or better, SSD RAM of 4GB or higher, hard disk of 1TB or more, USB/Serial Port.Display real time waveforms on 21" LED Monitor. License Software and its validation certificate to be provided.It should have feature for patient database with session recording (EEG/ECG/EMG), session history, automatic report generation (PDF), data export in PDF and EDF formats. session wise records to be saved for each patient and provision for view/edit/delete any session of patient at any time and print on Laser Printer.			
5	**Accessories, spares and consumables included:**			
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).			

5.2	**Accessories List (to be supplied with):** 1. ECT head band : 2 nos. 2. EEG lead sets : 2 nos. & ECG lead sets : 2nos. 3. A4 Paper (80 GSM) : 2 Packets 4. Conductive Gel : 2 nos. 5. Disposable Electrode Pads : 100 pcs. 6. Fuse, cables, conductive gel, electrodes, connectors, trolley etc.			
6	**Operating Environment:**			
6.1	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plug to meet purchaser's country requirements.			
6.2	Operation Temperature and Humidity should meet the purchaser's country and plac			
7	**Standards and Safety Requirements:**			
7.1	Must submit CE Certificate or US-FDA approved, listed or registered			
7.2	Must submit a valid certificate of "Medical devices – Quality management systems – Requirements for regulatory purpose ISO 13485 2016.			
7.3	Must submit a valid certificate of compliance IEC 60601-1 & 60601-1-2			
7.4	Isolation Medical Grade Transformer , Leakage ≤ IEC Limits			
8	User Training:			
8.1	Must provide user training including how to use and maintain the equipment to the clinicians, nurse & technician.			
8.2	Must provide the technical training to troubleshooting and maintenance of the machine to the hospital technician and engineers.			
9	**Warranty/Guarantee :**			
9.1	Comprehensive Warranty/Guarantee (parts & labor) for at least 2 year after acceptance.			
9.2	Any software upgradation during the warranty shall be also covered under warranty and free of cost			
10	**Maintenance Service during Warranty Period:**			
10.1	During warranty/guarantee period supplier should ensure atleast 2 preventive service/maintenance per year and any number of corrective/breakdown maintenance as and when required.			
11	**Installation and Commissioning:**			
11.1	The bidder must arrange all necessary materials for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.			
12	**Documentation:**			
12.1	User (Operating) & Service Manual in English			
12.2	Certificate of Calibration of Product to be submitted during Installation			
12.3	Should have valid Manufacture authorizatio letter.			

NOTE: Bidder must completely fill the Technical Specification Form (TSF). Only Yes/no/all complies should not be written. Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted. Failure in doing so may lead to rejection of bid from technical committee.