त्रिभुवन विश्वविद्यालय
शिक्षण अस्पताल
तार-टुथमेड
महाराजगञ्ज
काठमाडौं, नेपाल ।

पत्र संख्या :-

मिति :.....

सूचना

२०८२।०२।०५

यस त्रि.वि.शिक्षण अस्पतालको मेजर ओ.टी.को लागी तपसीलमा उल्लेखित सामग्रीहरु खरिद गर्नु पर्ने भएकाले उक्त सामग्रीहरु आपूर्ति गर्न इच्छुक इजाजत प्राप्त सप्लायर्स/कम्पनी/फर्महरुले यो सूचना प्रकाशित भएको मितिले **तीन दिन भित्र** आवश्यक सम्पुर्ण कागजात सहित शिलबन्दी दरभाउपत्र अस्पतालको सामान्य प्रशासन शाखा "क" मा पेश गर्नुहुन सूचित गरिन्छ । मूल्य विवरण र प्राविधिक विवरण फारम यसै पत्र साथ संलग्न गरिएको साथै थप जानकारीको लागी सामान्य प्रशासन शाखा 'क' मा सम्पर्क गर्न सकिनेछ ।

तपशिल :

S.N.	Particulars	Unit	Quantity
1.	Electro Surgical Unit (Cautery Machine)- 400 W	set	2 (Two)

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सरस्वती गुरुङ्ग
प्रमुख
सामान्य प्रशासन 'क'

फोन नं. : ४५-१२४०४, ४५-१२५०५, ४५-१२७०७, फ्याक्स : ९७७-१-४२२५५३, पोष्ट बक्स नं. : ३५७८
E-mail: tuthdirector@iom.edu.np, Website: www.iom.edu.np

1. Price Schedule for Machine

1	2	3	4	5	6	7	8
Item	Description	Unit	Quantity	Unit price (Site Delivery)	Total price in figure (cols. 4 x 5)	Total price in words	Remarks
1	**Electro Surgical Unit (Cautery Machine)- 400 W**	Set	TWO				
				Total Amount			
				Add 13% Value Added Tax			
				Total Including VAT			

Total Price ……. …… (in words)

Signature and Stamp of Bidder _____

Note: In case of discrepancy between unit price and total, the unit price shall prevail

2. Schedule of Requirements

The delivery schedule expressed as days/weeks/months stipulates hereafter a delivery date which is the date of delivery to the final destination where the Goods is required to be delivered.

No.	Description	Quantity	Place of Delivery	Delivery schedule days/weeks/months from date of Purchase Order
	Electro Surgical Unit (Cautery Machine)- 400 W	2 (Two) Set	TUTH, Maharajgunj, Ktm.	Seven Days

Technical Specifications of Electrosurgical Unit (Cautery Machine)

S.N	Purchaser's Specification	Bidder's Compliance sheet		
		Yes/ No	Ref. Doc. Page No.	Remarks
Electrosurgical Unit (Cautery Machine) – 400W				
Manufacturer				
Brand				
Type / Model				
Country of Origin:				
1.	**Description of Function:**			
1.1	Electrosurgical units or Cautery machines are required to provide cutting and coagulation electrically during surgery and for controlling bleeding by causing coagulation (haemostasias) at the surgical site.			
2	**Operational Requirements:**			
2.1	A 400W electrosurgical unit with laparoscopic or minimal invasive function.			
3	**System Configurations**			
3.1	The Electrosurgical unit must have 400W with laparoscopic function and with standard accessories.			
3.2	**Application to be used:** a. General surgery, Suitable for all kind of Open surgery b. Gynecology surgery c. Laparoscopic surgery d. GI, Ortho, ENT, Spine, e. Plastic surgery, Urology, f. Endoscopic, g. Thoracic and cardiac surgery etc.			
4.	**Technical Specifications**			
4.1	Nominal HF output: 400 Watts at ~300 Ohm.			
4.2	At least 4 modes of operation: Mono - polar cut, bipolar cut, monopolar Coagulation and bipolar coagulation.			
4.3	Mono-polar cutting modes shall have different level of effects Pure sine wave of following modes . • Low-Continues, • Pure -continues, • blend cutting (cutting with haemostasias) and • Endo cutting mode. Or equivalent Bidder must specify the equivalent modes.			
4.4	Come with 4 mono-polar coagulation modes – damped sine wave of; • Continues mode • Repetition frequency mode • Fulgurate – repetition frequency mode • Spray-randomized repetition mode			

4.5	Come with 2 bipolar cut modes: • Macro bipolar cutting mode • High voltage clean bipolar cutting mode			
4.6	Come with at least 3 bipolar coagulation modes: • lower voltage coagulation mode • Medium voltage coagulation mode • high voltage coagulation mode.			
4.7	Control panel must have at least 5-inch touch screen.			
4.8	The system must provide the membrane button for redundance incase the touch panel is malfunction.			
4.9	The crest factor of Monopolar Cut and bipolar cut and bipolar coagulation must be 1.5 or more.			
4.10	The crest factor of Monopolar coagulation must be 4 or more.			
4.11	All mono-polar and bipolar modes shall be controllable by hand switch and footswitch.			
4.12	The footswitch must have a toggle button to change from monopolar to bipolar operation and vice versa.			
4.13	Bipolar mode can be activated by either foot pedal and /or auto coagulate by using forceps.			
4.14	Footswitches shall be splash proof and unaffected by common OR fluid spills, easy to clean, have suitable mechanical protection against accidental pedal depression and Switches shall not be susceptible to sticking in the ON position.			
4.15	Unit must have automatic power regulating feature to always keep minimum current to the patient throughout the procedures.			
4.16	Shall come with Patient Return Electrode Contact Quality Monitors or equivalent to monitor the quality of electrode-skin contact to eliminate the risk of patient's burn. It shall give audio-visual alarm and deactivate output if contact between patient and electrode is loosened or disconnected.			
4.17	The system must have 6 sense technology by microprocessor controlled having samples rate above 4000 sense/sec.			
4.18	Shall have over current protection.			
5.	**Accessories, spares and consumables**			
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.			
5.2	Each cautery machine should supply following accessories			
	i. Foot switch of double paddle- 1			
	ii. Patient plate return electrode with cable (Disposable)-5 – Adult, 5 pcs Pediatric			
	iii. Monopolar hand switching pencil (Disposable) - 5			
	iv. Bipolar forceps with cord (Reusable) -2			
	v. Set of electrodes -5			

6.	**Operating Environment**			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.			
6.2	Power supply: 220 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 meter in length.			
7.	**Standards and Safety Requirements**			
7.1	Must submit test report of IEC 60601-1 and IEC 60601-2. Non submission leads to rejection the bid.			
7.2	Must submit a valid certificate of "Medical devices – Quality management systems – Requirements for regulatory purpose"; EN ISO 13485:2016. Non submission leads to rejection the bid.			
7.3	Must submit automatic Renewable European CE marked certificate (Directive 93/42 EEC on Medical Devices) from notified body or Medical Device Regulations - MDR (EU) 2017/745, and/or US-FDA registered or approved product. Non submission leads to rejection the bid.			
8.	**User Training**			
8.1	Must provide user training (including how to use and maintain the equipment).			
9.	**Warranty**			
9.1	The warranty for 2 years from the date of installation.			
10.	**Maintenance Service During Warranty Period**			
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.			
11	**Installation and Commissioning**			
11.1	The bidder must arrange 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) manual in English must be submit during the bid. Non submission leads to rejection the bid.			
12.2	Service (Technical/ Maintenance) manual in English			
12.3	Spare parts and consumables price list should be provided in the separate sheet, non-submission leads to the rejection of the bid.			
12.4	Must submit the manufacturer authorization letter			
12.5	Must submit the commitment letter for the availability of spare parts for next 10 years from the manufacturer. Non submission leads to rejection the bid.			
12.6	**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.			