

Prakash



त्रिभुवन विश्वविद्यालय शिक्षण अस्पताल

तार-दुधमेड
महाराजगञ्ज
काठमाडौं, नेपाल।



पत्र संख्या :-

मिति :

सूचना

२०८३।०५।१२

यस त्रि.वि.शिक्षण अस्पतालको नाक कान घाँटी ओ.टी. को लागी आवश्यक तपसीलमा उल्लेखित सामग्री खरिद गर्नु पर्ने भएकाले उक्त सामग्रीहरु आपूर्ति गर्न इच्छुक इजाजत प्राप्त सप्लायर्स/कम्पनी/फर्महरुले यो सूचना प्रकाशित भएको मितिले सात (७) दिन भित्र आवश्यक सम्पूर्ण कागजात सहित शिलबन्दी दरभाउपत्र अस्पतालको सामान्य प्रशासन शाखा "क" मा पेश गर्नुहुन सूचित गरिन्छ। साथै मूल्य विवरण र प्राविधिक विवरण फारम पनि यसै साथ संलग्न गरीएको छ। थप जानकारीको लागी सामान्य प्रशासन शाखा 'क' मा सम्पर्क गर्न सकिनेछ।

तपशिल :

S.N.	Particulars	Req.Qty/Unit
1.	Neuromuscular Monitor (TOF Monitor)	1 Set.


सरस्वती गुरुङ्ग
प्रमुख
सामान्य प्रशासन 'क'

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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	Neuromuscular Monitor (TOF Monitor).	Set	One (1)				
				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
1	Neuromuscular Monitor (TOF Monitor).	One(1)	TUTH, Maharajgunj, Ktm.	10 Days .



Technical Specification of Neuromuscular Machine – 1 Set.

SN	Purchaser's Specification	Bidder's Compliance Sheet	
	Neuro Muscular Monitor		
	Manufacturer:		
	Brand:		
	Type/Model:		
	Country of Origin:		
1	Description of Function:		
	The neuromuscular monitor measures the degree of neuromuscular blockade using either an acceleromyography (AMG) transducer or a mechanomyography (MMG) sensor. The AMG transducer assesses muscle movement in response to nerve stimulation, whereas the MMG sensor directly measures muscle force without requiring visible muscle movement. This enables the MMG sensor to monitor neuromuscular blockade accurately even when patient positioning restricts muscle movement and prevents reliable AMG-based measurements. The neuromuscular monitor shall provide multiple nerve stimulation modes, including Train-of-Four (TOF), Post-Tetanic Count (PTC), Tetanic Stimulation (TET), Double Burst Stimulation (DBS), and Single Twitch. It shall include an automatic sensor calibration feature to adapt to each patient's individual muscle response using 3D acceleration measurement, ensuring accurate and reliable monitoring. The monitor shall also have a battery backup that provides continuous support during operation.		
2	Display Specification:		
	Type	LCD	
	Colour	Monochrome	
	Size	4.4" or more	
	Resolution	240x320 dots or more	
3	Battery Operation Specifications:		
	Technology:	Alkaline or NiCd/NiMH	
	Type	4 x 1.5V AA	

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	Operating Time	≈ 1500 hours of constant TOF stimulation or more	
		(Assumes 2000 mAh capacities in batteries)	
	Battery Capacity Monitoring	Indication of Battery Status (low/empty)	
	Low Battery Condition	The device must be able to detect Low Battery condition and subsequently indicate a warning	
	Removal	Battery condition allows removing battery from the housing without special knowledge. For removing the battery compartment loa a screwdriver (PH2) is needed.	
4	Electrical Specification:		
	Classification	Internally Powered (IEC 60601-1)	
	Classification of applied parts	Type BF (IEC 60601-1)	
	Equipment Type	Handheld (IEC 60601-1)	
	Mode of Operation	Continuous	

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	Classification according to the degree of protection against harmful ingress or water or particulate matter	IP X3	
	Operating Voltage Range	4-6 Volts	
	Power Consumption	Max 2.5 Watt	
5	Stimulations Specifications:		
	Stimulation waveform	Monophasic Rectangular Wave	
	Pulse width (duration)	200 μ s or 300 μ s	
		(Pulse width is measured at 50% of the <i>Pulse Amplitude Level</i>)	
		(Allowed measurement uncertainty: $\pm 10 \mu$ s)	
	Pulse Width Accuracy	$\pm 10\%$	
	Stimulation Current Range		
	Constant Current	0 - 60 mA	
	Load Range	100 Ω - 5k Ω	
	Current Accuracy		
	6-60mA Setting	$\pm 5\%$ of set current	
	0-5 mA Setting	± 0.25 mA of set current	
	(Current is measured in <i>Pulse Amplitude Level</i>)		
	Allowed measurement uncertainty: 0-10 mA: ± 0.1 mA and 11-60 mA: ± 0.25 mA)		
	Stimulation Current Increment		
	Increment Size	1 mA or less	
6	Temperature Measurement Requirements-Surface Temperature		

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	Sensor:		
	Read out Range	20.0 - 45.0 °C	
	Read-out Resolution within measurement range	0.1 °C	
	Accuracy	± 0.5 °C	
7	Dimension Specification:		
	Dimension:	145mm x 205mm x 63mm or less	
	Weight:	395 gm or less	
8	Warranty :	Should be 1 Year.	
9	Documents:	Should have CE or USFDA.	

