



Running Contract Details	
Equipment Name	EMG NCV EP SYSTEM
Running Contract Valid Till	29-09-2024
Tender Ref No	KMSCL/EP/T446/276B/2022
Tendered Quantity	3
Supplier Name	M/s Axis Health Care
GST No	32AAQFA7508K1Z9
Installation & Delivery Period	8 Week(s)
Up-time / PM vist	95% & 4 Visits per year
Warranty period	3 Years

Supplier`s Details		
Address	Contact Details	
TC No. 2/3031/7 Shop No.G6 Dally's Apartments Chalakuzhy Rd Trivandrum -695004	Contact Person	Anil Kumar T V
	Phone	0471-2552806
	Mobile No	9947425200
	Email	axishealthcare@mail.com

Item-wise Price Details				
#	Item Details	Unit Rate (Incl.all taxes & charges)	Service Charges (Through KMSCL)	Grand Total
1	EMG NCV EP SYSTEM <i>Model & Make : Natus Ultrapro 3 Channel / M/s Natus Manufacturing Limited</i>	1456000 Incl.GST :12%	107380	1563380
		1456000	107380	1563380

Annual / Comprehensive Maintenance Charges (Exl.Tax)							
Rate	4 th Year	5 th Year	6 th Year	7 th Year	8 th Year	9 th Year	10 th Year
EMG NCV EP SYSTEM							
Labour	20,000.00	20,000.00	20,000.00	20,000.00	26,000.00	26,000.00	30,000.00
Comprehen sive	65,000.00	65,000.00	70,000.00	70,000.00	75,000.00	75,000.00	80,000.00

Other terms & conditions

1. The supplier shall execute an agreement with the purchaser as per tender conditions (agreement format is given in the tender

document).

2. The supplier shall submit performance security amounting to 5.00% of the value of the supply order.
3. The labour & comprehensive charges of equipment after the completion of warranty period is finalized by KMSCL as mentioned above.
4. Since discount rate is not applicable for equipment under Running Contract of KMSCL, purchase/supply order can be issued directly to supplier at the given rate with tax & other charges (exclusive of KMSCL service charges).
5. If purchase/supply order is issued directly to the supplier, KMSCL service charge need not be paid. But the copy of the said order may be forwarded to KMSCL for information.

Technical Specification

Equipment :EMG NCV EP SYSTEM

I. EMG/NCV/EP system which should be fully computerized and under Windows 10 platform

A. Amplifier:

1. Minimum 3 to 4 channel high quality amplifier
2. All the channels must have active shielding
3. All the channels must have options for 2 pin touchproof connection and 5 pin DIN connection
4. CMRR must be greater than 124dB
5. Should have sampling resolution of 22 bits or higher
6. Common Mode Input impedance must be greater than 1000 M Ohms
7. Noise level : 0.4 micro volts
8. Sweep speed variable from 0.2ms/Div to 10S/div or higher
9. Sensitivity variable from 0.5 μ V/Div to 15mv/Div or higher

A. EMG Studies:

1. EMG software for insertional, spontaneous, MUP analysis and interference pattern
2. Multi channel EMG

A. Nerve Conduction studies:

1. Motor Nerve Conduction including Motor NC, Motor nerve inching, Silent period, reflex studies, Motor evoked potentials
2. Sensory Nerve Conduction including Sensory NC, Near-nerve sensory NC, Mixed NC, Sensory nerve inching
3. F-wave, H-reflex & Repetitive Nerve Stimulation
4. ANS studies like Sympathetic skin response and R – R Interval

A. Evoked Potentials:

1. Somato sensory Evoked potential including Upper, Lower and dermatome SEP
2. Built in Visual Stimulator with VEP software and supplied with 22" TFT VEP Monitor with visual stimulus software selectable from Full, left half, right half, upper right, lower right, upper left, lower left etc., and pattern type of Checkerboard, Horizontal or vertical stimulus patterns.
3. Auditory evoked Potential with Headphones
4. Auditory stimulator to generate stimulus of Click, Pip, Tone-burst, Half sine and full sine with Click stimulus adjustable from 0-120dB SPL

A. Advanced stimulation hand grip for electrical stimulation with following features:

1. Control of stimulus intensity & polarity from handgrip itself
2. LED Polarity indicator during stimulation on the handgrip
3. Must provide control for 'next step' in nerve conduction protocols from handgrip
4. Must have control for side change in motor / sensory NC from the handgrip
5. Provision for initiating single & repeated stimulus from handgrip

A. System requirements:

1. Latest configuration branded All in One Panel PC that works under Windows 10 must be supplied with minimum 1TB harddisk, 4 GB RAM, 21" TFT monitor, UPS of suitable rating, Color printer & Trolley.
2. Trolley must be high quality portable Height adjustable Monopole cart suitable for ICU.
3. Must be supplied with EMG/NCV/EP accessories kit including ring electrodes (1 Pair), Disposable EMG needles, 37mm (25 Nos.) and 25mm (25nos), Connecting cable for disposable needs, bipolar bar stimulator (1 Nos.), & pre-gelled disposable electrodes (1 Pack of 100 nos) with cable, Silver EEG cup electrodes for EP – Pack of 10 nos, Wrap around Ground electrode-(1 no), Conductive Paste (200 Gms) – 3 Nos., Skin Prepping Gel (114 Gms) – 3 Nos, conductivity gel – 1 tube, Measuring tape.

A. Software:

1. Should be facility to record all the raw traces and switch over to the best trace in NCV studies to avoid less patient discomfort and incorporate the same for reporting. Up to 4 replications should be available per test.
2. Free run EMG data and sound should be recorded for up to 700 seconds.
3. Stored data should be available for reanalyze, digitally filtered, smoothened, inverse.
4. Should have averaging techniques to optimize the averaging results such as mean, exponential, median, threshold.
5. The Artifact Reject function should automatically exclude artifacts that exceed a user definable amplitude threshold.
6. Should also be possible to manually include or exclude data on a trace per trace basis.
7. On-line result should give a compact clinical overview with links back to the raw data.
8. Automatic grammatically correct sentences to be incorporated in report depending on the latency, sweep speed etc.,
9. Should highlight results that are outside of reference values.
10. Should have option of re analyzing the EMG data (Video and Audio) offline.
11. Complete EMG waveform should be replayed (Video and Audio) offline and export to AVI or WMP, which should be easily replayed on any PC without need of any external software.

A. Standards:

12. System must comply international quality standards CE/ FDA. Copy of certificate to be enclosed in the technical bid