Notice Inviting e-Tender

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Supply and Commissioning of Medical equipments for setting up of Sports Medicine unit at Govt. Medical College & Hospital of the Govt. of West Bengal

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-36/2022	Dated-28.01.2022

The following amendments have been made in the technical specifications of the tender document,

Amendment – I

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Schedule - I

C ARM FLUOROSCOPE X RAY MACHINE

The system should have the below mentioned specifications:

1. **I.I.T.V. SYSTEM:**
   a) The image intensifier should be of latest series
   b) It should be of 9 inches triple field i.e. 9 inches / 6 inches / 4.5 inches
   c) The center resolution should be minimum 48 lp/cm.
   d) The circular grid should be fixed on the Image Intensifier (I.I.) to improve image quality.

2. C-ARM STAND:
    a) It should be ruggedly built and should be of good design
    b) It should have 1 or 2 separate steering for controlling back and front wheel movements
    c) It should also have the below mentioned movements.
        - Horizontal travel should be minimum 200 mm
        - Orbital movement should be 115°-125°
        - Panning movement should be ±12.5°
        - Vertical movement should motorized of 400 mm
        - Focus to I.I distance should be 900 mm
        - C-Arm rotation should be ±180° (Preferably ±360°)
3. CCD CAMERA:
    - The CCD camera should be ½ inch
    - It should have resolution of 1k x 1k minimum

4. MONITORS:
    a) Medical grade monitor minimum 19 inches more on trolley – 2 Nos.
    b) The monitor trolley should be provided for mounting 2 monitors and should have 2 shelf for keeping memory and stabilizer.

5. GENERATOR:
    a) It should be microprocessor controlled digital system with display.
    b) It should be of high frequency with output of minimum 3.5 KW and frequency of 40 KHz. (Preferably 100 KHz-200 KHz)
    c) The KV should be from 40 to 110 KV.
    d) The fluoroscopic mA should be from 0.3 to 3.0 mA or wider.
    e) The system should have fluoroscopy mode like
        - Manual Flouro mode and ContinousFlouro mode.
        - Pulsed fluoro mode with facility to select time interval between the pulses from 1 fps to 10 fps or more
        - Auto Dose Rate Control in fluoroscopy mode by which mA & KV should be set automatically as per the thickness of the organ.
        - Manual KV selection during fluoroscopy also should be available.
        - Boost fluoroscopy mode (optional) / High Definition Fluoroscopy
    f) The digital fluoroscopic timer should be incorporated with arrangement of auto cut off of exposure after 300 secs.
    g) The radiographic mAs range should be from 20 to 100 mAs or more
    h) The X-ray tube should be dual focus stationary anode. The focal spot of the tube should be
        1) Small: 0.6mm x 0.6mm
        2) Large: 1.5mm x 1.5 mm.

    It should have mono block / tube housing heat storage capacity of 200 KHU or more. It should also have inherent filtration of 0.5mm or more Al eq.
    i) The system should have backlit LCD display of flouro mA, KV, timer & radiography mAs should be provided.

j) The reversal, image rotation, functions should be operatable either from control panel or with a remote control.
k) Memory functions like store recall/image transfer should be operatable from control panel as well as from memory unit.
l) There should be independent selection of mA and KV &mAs.
m) The control should have indicator for power, Overload, X-Ray & Tube heating
n) The system should be upgradable to latest functions

6. IMAGE MEMORY:
   a) Digital Image Processing & Memory system with PC or a USB Drive.
   b) The System should have DVD recording facility as externally or internally.
   c) It should have 100 images
   d) It should have at least 100 permanent images storage capacity
   e) It should have image integration function to reduce the image noise
   f) Should be capable of copying images to Pen Drive.

ESSENTIAL ACCESSORIES:

   a) Lead aprons, Thyroid Shield, Lead Goggles (12 nos each)
   b) Lead apron stand – 12 Nos. & Hanger (6)
   c) Servo stabilizer -1
7. Should be AERB approved
8. The system should be DICOM compatible.

The product should have US FDA or European CE (4 digit)

Amendment – II

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Schedule - II

ANTI GRAVITY TREADMILL

1. The unit should be useful for rehabilitation of lower limb extremities (hip, knee, ankle or foot) and for paediatrics as well as adult patients.
2. The unit should have work on the principal of Differential Air Pressure (DAP) technology and have LCD/LED touch screen display.
3. The unit should have forward speed of the treadmill from O-IS kmph and reverse speed of the treadmill 0-3kmph.
4. The unit should have speed adjustment increment of 0.16 kmph.
5. The unit should have inclination of the treadmill 0-15%.
6. The unit should have Air Pressure mechanism for partial weight bearing system.
7. The unit should have Body weight reduction should be 0 -80% with 1% increment.

8. The unit should have User weight capacity (for small, medium & large) upto 180kg.
9. Paediatric Height: 152-190 cm
10. Medium user height: 168-200 cm
11. Large user height: 185-220 cm
12. User hip size (for small, medium & large): Width min. 47 cm, circumference min. 147 cm
13. The unit should be USA FDA or European CE approved (4 digit).
14. The unit should work on 220V/50Hz
15. The system should be supplied with CVT/Servo Voltage Stabilizer of required rating.

Amendment – III

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Schedule - III

EMG / NCV / EP MACHINE

Parameter	Threshold Limit / Range
No. of channel	4 or more
Sensitivity range in uV/div	(1-2µv) or more
Sensitivity range in mV/div	(1 - 10) or more
Sweep speed ms/div in steps	(1 - 800) or more
Input impendence in M ohms	100 or more
Noise in uV RMS	0.8 or less
Average (BAER) Per channel	2000 or more
Electrical range in mA	(0 - 100) or more
Duration of electrical stimulation in ms	(0.02 - 1.0) or more
Repetition rate of electrical stimulation inper sceond	(0.5 - 30) or more
Auditory Frequency in Hz	(250 - 8000) or more
White noise Contralateral masking in dB normal hearing level	0 – 50 or more
Intensity of click stimulation in dB normal hearing level	(0 - 110) or more
Intensity of click stimulation in dB Standard Pressure Level	(30 - 140) or more
A/D Converter in bits	16 or more
MUST HAVE	
OS Platfrom (windows 7 / WINDOWS 8 / XP)	
High cut and low cut filter	
Impendence check	
Simultaneous acquisition in all 4 channels during EMG test	
Sweep speed and sensitivity can be changed after acquisition	
Screen separator for viewing M and F or H waves side by side	
User programmable rates for all stimulator	

Speaker sound can be stored and can be played on a multimedia	
Split screen facility	
Facility of reviewing EMG data with raster	
F wave separator	
Pediatric shock stimulator	
LED GOGGLES & FLASH	
EMG trigger	
Electrical Stimulator	
Adult and pediatric Headphone	
Auditory stimulus	
Video monitor facility for changing checker board size	
Facility of flash mode	
Facility of setting	
Facility of averaging	
Facility of latency intensity graph	
List of muscles for easy selection	
Facility of online guide to locate various muscles and nerves	
Click duration in 100 uS square wave	
Square size of 4 to 32 or more	
13 difference check sizes to be viewed in 16 difference field	
H Reflex, Blink Reflex Facility	
Repetitive Stimulation	
Necessary trolley	
Online UPS (30 minutes backup) of appropriate capacity for the entire system	
Surface electrode - 10 pair	
Stimulating bar electrode and felt stimulation pads - 1 no.	
Ring electrode - 2 pair	
Ground electrode with cable (paediatric) - 1 nos.	
Ground electrode with cable (adult) - 1 nos	
Disposable concentric needle electrode - 25 pcs	
Adapter for needle electrode connection - 1 no.	
Adaprer for disposable electrodes connection should be provided (20cm) - 2 pcs	
Jumper Electrode - 4 pcs	
Skin Preparation gel - 10 nos.	
Conductive paste - 10 nos.	
Selected bidder should construct necessary proper earthing at the space identified by the authority	
Shoul supply colour printer for printing of graphics and reports in A4 size paper facility	
Quality Standrad and safety Certification	
US FDA and European CE (4 digit)	