



Notice Inviting e-Tender

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Supply and Commissioning of Various Medical Equipment for the ENT Department of Midnapore Govt. Medical College and Hospital

(Submission of Bid through *online*)

Bid Reference No.: WBMSC/NIT-636/2023

Dated-31.10.2023

Amendment-I

REVISED TECHNICAL SPECIFICATION

Schedule – I

ENT CO2 Laser Compatible with Microscope

Co2 Surgical Laser System: (Compatible with ENT Operating Microscope)- Should Contain the Following:-

- A Carbon Dioxide Laser with a Wavelength 10.60 Micro Meters, Infrared.
- 60 watts power
- Is Microprocessor based.
- A Sealed Co2 Laser Tube
- A Continuous, single pulse and repeat pulse tissue exposure modes.
- Super pulse and ultra pulse power of 0.5-60 watts with a peak power of 60 watts.
- The Beam delivery goes right through a light weight carbon fibre, 7-joint, fixed mirror, spring balanced ARM.

- A timed exposure of following duration; on time (single pulse) – 0.05-1.0 sec. at 1.0 to 4.5 watts
- A repeat pulse delay, off time, 0.01 to 1.0 sec.
- At least 100 user defined memory settings
- A 125MM hand piece
- An incisional hand piece of 50MM working distance with a spot size of 0.8MM
- An incisional hand piece of 125 MM working distance with a spot size of 0.2MM
- At least Two bacterial filters.
- Five laser safety glasses.
- A scanner with preset recommendations four parameters and delivery devices for different applications.
- A user friendly graphic display to provide step by step operating instruction.
- A scanned area size range of 0.3 to 0.5 MSEC.
- Circle squared and ring scanned area shapes.
- A self contained closed loop cooling system.
- Compatible with 213OV, 3A, 50HZ power supply.
- A micromanipulator with following requirements.
- An optical design to assure perfect co-incidence of the diode and CO₂ BEMS event at highest microsurgical magnifications- 712 highest performance micromanipulator with upgradable kit.
- Is easily adjustable and has variable working distance from 200MM to 400MM.
- Continuously variable defocus with a user adjustable defocus limiter.
- A joystick handle should be tension free adjustable.
- Is user selectable for left or right hand controls.
- Is lightweight, not more than 490 grams to maintain balance of the surgical microscope.
- A minimum spot size of 160 microns. Unit (CVD optical unit, ports holder, conical main extender, contamination collector), extra conical main extender, A focus range of 0.16 MM- 0.27 MM.
- A maximum focus range of 2.8 MM – 4.6 MM.
- A minimum spot size of 160 microns.
- A focus range of 0.16MM- 0.27 MM.
- A maximum focus range of 2.8 MM-4.6 MM.
- A power transmission of greater than 90% with unlimited power input.
- A robotic laser microsurgery system with following requirements- has a BEAM scan shape: linear & curved incisions: 0.3 MM to 0.5 MM length (user defined).
- Provided with following incision widths.- at 200 MM: 0.16- 2.8 MM- at 250 MM: 0.19-3.2 MM – at 300MM:- 0.21-3.7 MM- at 400 MM: 0.27- 4.6 MM
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- Nasal probes kit which includes- nasal and laryngeal probe fiber coupler- straight nasal probe – straight nasal probe with 90 deg RH mirror – straight nasal probe with 90 deg LH Mirror- straight nasal probe with smoke evacuation- straight nasal probe with 90 deg RH mirror and smoke evacuation – straight nasal probe with 90 deg LH mirror and smoke evacuation-20 deg angled nasal probe- nonj sterile fiber insert for nasal probes in plastic tube with CAO sleeve- catheter suction tube – lens cleaning tissue- pipe cleaner – soft bristle brush- folding magnifying glass.
- Oral pharyngeal and nasal hand piece set which includes – 230 MM hand piece backstore extender- 3 nos. tip extender -3 nos. straight tip, kamami nasal tip-3 nos. kamami tonsil tip-3 nos. 90 degree angled mirror tip extender, cleaning brush, tygon tube (8MM ID, 1.5 M lonf)W/reducer fitting.

- Smoke evacuator for smoke evacuation of CO2 laser fumes and includes – pneumatic footswitch, virosafe 6 filter- 6 hour double port 7/8" and 1-1/4"-VTWT324-7/8" tubing with wand and tip- 2 nos, smloe50- laser mask 0.1 MM filtration media (flat mask).
- All items from the same manufacturer
- **Certification** : European CE(4 Digit Notified Body)/USFDA/CE/UKCERT/TUV/CDSCO/BIS