



Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited

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Supply and Commissioning of 01(One) unit of Arthroscopic set for the Department of Orthopaedics, R.G. Kar Medical College and Hospital, Kolkata

(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-862/2025

Dated-29.10.2025

AMENDMENT-I I

Revised Technical Specification

of Arthroscopy System

1. **4K Camera Platform:** The 4K Platform features several enhancements, such as brilliant 4K resolution and fluorescence, better ergonomics and seamless standardization. Approved for use in a variety of specialties, including arthroscopy, laparoscopy, urology, gynecology, colorectal and ENT, the platform's vivid 4K display offers consistently bright, crystal-clear images for improved surgical visualization.
 - 9 cross-specialty settings
 - CMOS camera technology
 - Programmable camera head buttons
 - **4K Display:** Camera & light source should be from same company manufacturing
 - Imaging system: - 1/2.8" or more Progressive Scan CMOS, Ultra-High Definition
 - Video Outputs (DP port)- Two HDMI 2.0 outputs. Formats: 1080p (HDTV), 4K UHD (3840 x 2160) 4K camera console unit and 4K camera head with coupler: - 1/2.8" Progressive Scan CMOS, Ultra- High Definition, video output- Two HDMI 2.0 outputs, Formats: 1080p (HDTV), 4K UHD (3840 x 2160), scanning system- Horizontal: 135.00 kHz, Vertical: 60.00 Hz.

LED Light Source with Fiber Optic Cable

- Light outlets: 1

- Fibre optic cable: 1
- It should have Standby mode which will reduce light output to a minimum. Preventing the light cable from generating excessive heat.
- Universal Jaw Assembly to adapt any make of Fiber Optic Cable
- It should have Electrical configuration
 - Primary: 100 - 240 VAC, 50/60 Hz, 300 W
 - Fuses (2): 5.0A 250V
- Should be supplied with compatible Fiber optic cable
- Camera console & light source should be same/separate console.
- Those who have supplied same console, must give standby machine within 24 hours during the breakdown.

31" or more 4K Surgical Display (The company who have not manufacture the 4K monitor, agreement for tieup of monitor with the company must be provided with the tender document)

- 4K the resolution of a 1080p image
- Description: 31.1"(812mm) diagonal or more
- Native resolution: 3840 x 2160 or more
- Viewing angle: 178 degree

Arthroscope

4.0mm – 30 degree with wide angle and lock mechanism

4.0mm -70 degree with wide angle and lock mechanism

2.7mm- 30 degree with wide angle and lock mechanism

Sapphire tip for prevention from scratches

Length : 140-180mm

3 layered tube design for sturdiness and better results

High flow operative cannula compatible with 4 mm scope with 2 rotating stopcocks- 2pcs

High flow operative cannula compatible with 2.7 mm scope with 2 rotating stopcocks- 1pcs

Compatible Pencil tip obturator- 3 pcs

The bidder/OEM should submit valid CDSCO Certificate/Registration/License for both the manufacturer(s) and importer(s) as applicable.

Arthroscopy shaver system and Radio Frequency Ablution :-

1. It should be a single/separate console to connect ablation probes
2. It should be connected with a shaver hand piece with hand control buttons.
3. The radiofrequency ablation system should be
 - Bipolar Ablation System
 - Should accommodate both suction and non suction probes
 - Operating range 200-240 VAC @ 50 Hz

- Less than equal to 12000 rpm for better burring
 - DC brushless motor for minimal maintenance
 - Do not require any lubrication be easy maneuverable and better balanceable
 - Run in forward reverse and oscillating mode
- Should be provided with a foot switch of radiofrequency system as well as shaver.
- Be lightest in weight and should have revolving suction outlet so as to avoid the complication of rolling the suction tube while operating
 - The Shaver Handpiece should be provided with Hand control function
 - Handpiece should be able to run the cutters and burs for both small and large joints

Shaver Blades, Burs and ablation probes

4.0 mm shaver blade for aggressive resection of meniscus and cartilage- 40 pcs

5.0mm Shaver blade for aggressive resection of meniscus -60 pcs

5-5.5mm Barrel bur 6 Fluted/12 fluted for rapid, aggressive subacromial decompression -20 pcs

5-5.5mm round bur 6 Fluted/12 fluted for general abrasion notchplasty and decompression without clogging - 10 pcs.

Radiofrequency probe for ablation & coagulation at 90 degree -20pcs

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Shoulder Instruments

1. Suture Manipulator with atraumatic tip to spread parallel strands of suture with its jaw to create a closed loop to allow suture slide freely during extraction.
2. Rasp up & down.
3. Rotator Cuff Grasper with low profile for Arthroscopic procedures
4. Shoulder Elevator up & down
5. Tissue penetrator cum suture retriever in below angles with Small Sharp penetration tip:
6. Straight
7. Right
8. Left
9. Tissue penetrator cum suture retriever with small sharp penetrator curved tip so that it can be used to grasp the cuff.
10. Curved Left
11. Curved Right
12. Multifunctional Suture passer with provision of only 1 needle, which can hold the cuff & at the same time pass the suture & retrieve it in one step
13. Nitinol needles for passing the suture (1box)
14. Switching Stick 4.3mm, Non cannulated, 13"long
15. Open ended suture cutter, side loading with function of leaving sufficiently long tail without chance of cutting knot
16. Single hole knot pusher
17. Reusable cannulated obturator for 8 mm cannula for easy cannula insertion
18. Reusable cannulated obturator for 6.5mm cannula for easy cannula insertion

19. Grasper with Ratchet
20. Crochet hook
21. Shoulder Probe
22. Sterilization Tray

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Hand Instruments

- Straight Punch width 3 to 3.5mm Working length 11 to 16 cm
- Upbiter Punch width 3 to 3.5mm working length 11 to 16cm
- Big Bite Punch 30 deg right width 3 to 3.5mm working length 11 to 16cm
- Big Bite Punch 30 deg left width 3 to 3.5mm working length 11 to 16cm
- Big Bite Punch Upshaft width 3 to 3.5mm working length 11 to 16cm
- Soft Tissue grasper with ratchet width 3 to 3.5mm working length 11 to 16cm
- Hook Scissors straight width 3 to 3.5mm working length 11 to 16cm
- Straight Punch width 2.5mm to 2.8mm working 10 to 16cm
- Probe 5mm
- Sterilization tray keeping for minimum 24 instruments
- The bidder/OEM should submit valid CDSCO Certificate/Registration/License for both the manufacturer(s) and importer(s) as applicable.

The equipment and the hand instrument should be from same manufacturer.