



## Notice Inviting e-Tender

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Supply and Commissioning of Arthroscopy Machine for IPGME&R and SSKM Hospital  
(Submission of Bid through *online*)

Bid Reference No.: WBMSCL/NIT-560/2022

Dated-07.12.2022

## **Amendment-I**

### REVISED TECHNICAL SPECIFICATION

#### Schedule-II

#### Arthroscopic Camera HD with Shaver System and Hand Instruments (Standard)

#### 1. 3-Chip CMOS High Definition Camera System

The system should be high definition, with progressive scan with CMOS technology, 3-chip-endoscopic video camera. The system should consist of one Camera control unit/console and one Camera head.

- It should have pure digital signal with high definition video of 1920 x 1080p or more (min) native resolution and progressive scan technology both on camera head and console.
- Should have 9 dedicated Surgical Specialty settings.
- Should have optical Zoom.
- It should be LCD Touch Screen based.
- The system should have Digital Zoom to enhance the quality of image size & cross specialty standardization of the camera system, regardless of the telescope used.

- The camera head should be able to capture images and record video sequence using them.
- **The O/P's should be:**
  - \* DVI, RGBHV / VGA, S-Video optimized for medical display on flat screens, routing with Touch screen.

## **2. 400W or equivalent LED Light Source with Fiber Optic Cable**

- Light outlets: 1
- It should have Standby mode which will reduce light output to a minimum, preventing the light cable from generation 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 fiber optic cable of 5 mm to 6.5 mm diameter

## **3. Medical Grade 26" LED High Definition Monitor**

Should be a 26" LED Flat-panel High Definition Color Monitor (Medical grade) with suspension to support high-definition (1920 x 1080 or more) progressive Scan images and should at least have

Resolution	: 1920 x 1080 in Progressive Scan Technology
Inputs	: DVI, RGBHV / VGA, S-Video, composite Video
Pixel pitch	: 0.270mm
Response time	: <25ms
View angle	: +/-85° (L/R) x +/-85° (U/D)
Travel	: 330°
Forward Tilt	: 30°
Backward Tilt	: 45°

Cable Kit for integration: DVI, Fiber Optic, RGBHV, S-Video, Compos

### **Arthroscope :**

4.0 mm -30 degree with wide angle and speed lock mechanism

4.0mm -70 degree wide angle and speed lock mechanism

Sapphire tip for prevention from scratches

Length : 140-180mm

3 layered tube design for sturdiness and better results

5.8mm operative cannula with 2 rotating stopcocks – 2

Pencil tip obturator – 2

### **Shaver System:-**

- For use in a variety of surgical procedure, including orthopaedic, dental, ENT, ocuro, spine, and endoscopic application
- Powers small and large bone drills, saws and drivers; small and large joint shavers; ENT shavers; foot pedals; bone mill and irrigation.
- Two or more hand piece ports; runs two non-heavy duty band pieces simultaneously
- Colored illumination rings, display matched drills and foot pedals for free and confident workflow.
- Single/ double foot pedal ports; ability to assign two pedals to a single hand piece
- Integrated irrigation; one step insertion and removal
- Large icons and color touch screen with wide viewing angle

### **Shaver Hand-piece Flash Autoclavable**

- 12000 or more 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
- Be lightest in weight and should have revolving suction outlet so as to avoid the complication of rolling tube while operating
- The Shaver Hand piece should be provided with Hand control function
- One Hand piece run the cutters and burs for both small and large joints

## Specifications for Foot Switch

The footswitch should be completely programmable

Bi-directional footswitch, dual pedal with three feature button

Mode selection of forward/reverse/oscillating, change speed of RPM.

The system shall be supplied with the following:

1. –Footswitch- Qty. 1

2 –Shaver hand piece – with buttons – Qty 1

B) Shaver Blades & Burs

4.0 mm shaver blade for aggressive resection of meniscus and cartilage – 5 boxes

5.0mm shaver blade for aggressive resection of meniscus – 5 boxes

5-5.5mm barrel bur 6 Fluted/12 fluted for rapid, aggressive subacromial decompression – 5 boxes

5-5.5mm round bur 6 Fluted/12 fluted for general abrasion notchplasty and decompression without closing – 5 boxes

## **HAND INSTRUMENTS (1 EACH)**

Straight Punch width 3 to 3.5mm Working length 11 to 16 cm

Upbiter Punch width 3 to 3.5 mm working length 11 to 16 cm

Big bite punch 30 deg right width 3 to 3.5 mm Working length 11 to 16 cm

Big Bite Punch 30 deg Left width 3 to 3.5mm Working length 11 to 16 cm

Left Meniscal Punch width 3 to 3.5mm Working length 11 to 16 cm

90 deg Rotary Punch right 3 to 3.5mm Working length 11 to 16 cm

90 deg rotary punch left 3 to 3.5mm working length 11. To 16cm

Backbiter width 3 to 3.5mm working length 11 to 16 cm

Loose Body removal grasper width 3 to 3.5mm working length 11 to 16cm

Hook Scissors straight width 3 to 3.5mm working length 11 to 16 cm

Probe for 3mm

Sterilization tray keeping for minimum 24 instruments

**Product Instruments:**

1. Suture Manipulator with atraumatic tip to spread parallel strands of suture with its jaw to create a close loop to allow suture slide freely during extraction
2. Bankart Rasp
3. Rotator cuff grasper with low profile for Arthroscopic procedures
4. Shoulder Elevator
5. Tissue penetrator cum suture retriever in below angles with small Sharp penetration tip:
  6. Straight
  7. 45 Deg Right
  8. 45 Deg left
9. Tissue penetrator cum suture retriever with small sharp penetrator curved tip so that it can be used to grasp the labrum at 6' o Clock position
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 (1 box)
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 6.5 mm cannula for easy cannula insertion
19. Reusable cannulated obturator for 5.5 mm cannula for easy cannula insertion
20. Grasper with Ratchet
21. Crochet hook
22. Shoulder probe
23. 1.2mm or more Drill bit
24. 2.3mm or more Drill bit
25. 6"X3.5mm spiked tip drill guide
26. Sterilization Tray

Whole system Must be USFDA and EU CE(4 DIGIT) Approved.