

27.06.2019

TAMILNADU MEDICAL SERVICES CORPORATION LTD.,

**TENDER FOR SUPPLY AND INSTALLATION OF BASIC DIAGNOSTIC
ARTHROSCOPY SET TO ESI HOSPITALS AT AYANAVARAM, MADURAI AND
SALEM**

TENDER NO.448/SCOPE/DMS-ESI/TNMSC/ENGG/2019, DT.04.03.2019

CORRIGENDUM

a) The following corrigendum are issued:-

Sl. No.	Tender document reference	Instead	Read as
1.	Page No.54 to 65 Section VI: Technical Specification And refer corrigendum issued on 08.05.2019.	Existing Text	Revised Text at Annexure - I

b) The following clarification are furnished:-

Sl. No.	Tender document reference	Point Raised	Clarification Furnished
1.	Page No.54 to 65 Section VI: Technical Specification 1. Specification for Basic Diagnostic Arthroscopy Set And refer corrigendum issued on 08.05.2019. 1. Telescope 0 deg – 1 no. <u>Autoclavable wide angle view</u> <u>30 deg high definition</u> <u>arthroscope. Enlarged view,</u> <u>diameter 4mm, length 18cm</u> <u>autoclavable. Fiber Optic light</u> <u>transmission incorporated.</u>	Request to revise the length as 18cm will be too long basic and diagnostic arthroscopy.	18cm will be used for screening for hip pathology.

Sl. No.	Tender document reference	Point Raised	Clarification Furnished
2.	<p>Page No.54 to 65</p> <p>Section VI: Technical Specification</p> <p>1. Specification for Basic Diagnostic Arthroscopy Set</p> <p>And refer corrigendum issued on 08.05.2019.</p> <p><u>Specification for Arthroscopy High Definition Camera System with Inbuilt Full HD Video and Image Recording System on USB Drive</u></p>	<p>Request to amend as Standalone Medical Image Management system</p>	<p>No Change. Hence, published specification prevails.</p>
3.	<p>Page No.54 to 65</p> <p>Section VI: Technical Specification</p> <p>1. Specification for Basic Diagnostic Arthroscopy Set</p> <p>And refer corrigendum issued on 08.05.2019.</p> <p><u>System should have facility of controlling additional equipment's like light source/insufflators and recording device from the camera head.</u></p>	<p>Request to review the technical point.</p>	<p>No Change. Equivalent or superiors products against the requirements can be offered.</p>
4.	<p>Page No.54 to 65</p> <p>Section VI: Technical Specification</p> <p>1. Specification for Basic Diagnostic Arthroscopy Set</p> <p>And refer corrigendum</p>	<p>Request to review the technical point.</p>	<p>No Change. Equivalent or superiors products against the requirements can be offered.</p>

Sl. No.	Tender document reference	Point Raised	Clarification Furnished
	<p>issued on 08.05.2019.</p> <p><u>System should have facility to offer various visualization modes for surgery and diagnosis by shifting the color spectrum like Blue & Green light for recognition of the finest tissue structures and their differentiation.</u></p>		
5.	<p>Page No.54 to 65</p> <p>Section VI: Technical Specification</p> <p>1. Specification for Basic Diagnostic Arthroscopy Set</p> <p>And refer corrigendum issued on 08.05.2019.</p> <p><u>The system should be modular design: Digital Full HD camera module should be compatible for use with 3D camera and video endoscopes.</u></p>	Request to retain the original tender specification	No Change. Hence, published specification prevails.
6.	<p>Page No.54 to 65</p> <p>Section VI: Technical Specification</p> <p>1. Specification for Basic Diagnostic Arthroscopy Set</p> <p>And refer corrigendum issued on 08.05.2019.</p> <p><u>Input: Keyboard input for character generator. 5-pole DIN socket.</u></p>	Request to retain the original tender specification	No Change. Hence, published specification prevails.

Sl. No.	Tender document reference	Point Raised	Clarification Furnished
7.	Page No.54 to 65 Section VI: Technical Specification 1. Specification for Basic Diagnostic Arthroscopy Set And refer corrigendum issued on 08.05.2019. <u>27" High Definition Medical Grade Monitor</u>	Request to clarify whether 27" or 26" LCD panel.	The 27" mentioned is the monitor stand and compatible with both 26" and 27" monitors.
8.	Page No.54 to 65 Section VI: Technical Specification 1. Specification for Basic Diagnostic Arthroscopy Set And refer corrigendum issued on 08.05.2019. <u>14. Quadriceps Graft Harvesting System</u>	Request to review the technical point.	No Change. The instrument is required for the purpose of managing graft complications.

All other terms and conditions of the tender remain unaltered.

The above forms part of the bidding documents. The bidder shall attach the copy of this corrigendum duly signed by their authorized signatory, in their bid.

**Sd/-
General Manager (E)**

SECTION VI : TECHNICAL SPECIFICATIONS - REVISED

1. SPECIFICATIONS FOR BASIC DIAGNOSTIC ARTHROSCOPY SET

1. Telescope 0 deg – 1 no.

- Autoclavable wide angle view 30 deg high definition arthroscope. Enlarged view, diameter 4mm, length 18cm autoclavable. Fiber Optic light transmission incorporated.
- Should have straight lock technology to lock and unlock the cannula during the surgery.

1. Operating Sheath – 1 No.

- Arthroscope sheath – diameter 6.0mm, working length 12cm, rotatable with 2 stopcocks and automatic lock-in coupling mechanism, for use with telescopes 0°, 30°, 70°, 90°.

2. Obturator, blunt for use with sheath – 1 no.

3. Obturator, semi-sharp for use with sheath – 1 no.

4. Palpation probe, graduated, working length 18 cm, length of hook 2.0 mm – 1 no.

5. 3.4mm straight big bite punch – 1 no.

6. 3.4mm grasper for loose body removal – 1 no.

7. 3.4mm 30 degree right punch – 1no.

8. 3.4mm 30 degree left punch – 1no.

9. Arthroscopy shaver system.

10. HD Camera System

Specification for Arthroscopy High Definition Camera System with Inbuilt Full HD Video and Image Recording System on USB Drive

- The system should be truly Digital High Definition Endoscopic video camera. The system should have the maximum resolution of 1920x1080 pixels, progressive scan and the consistent use of 16:9 formats for Input & Output to guarantee genuine High Definition.
- The system should have facility of Optical & Digital zoom lens to enhance the quality of Image size & cross specialty usage of the camera system, regardless of the telescope used.

- USB port for capturing full HD videos/HD stills in External USB drive and direct interface of USB printer to facilitate direct printouts.
- System should have facility of controlling additional equipment's like light source/insufflators and recording device from the camera head.
- System should have facility to offer various visualization modes for surgery and diagnosis by shifting the color spectrum like Blue & Green light for recognition of the finest tissue structures and their differentiation.
- Parallel live display of visualization modes besides white light mode (picture-in-picture).
- The system should be modular design: Digital Full HD camera module should be compatible for use with 3D camera and video endoscopes.

Technical Specification for 2D Camera Head:

- Image sensor: 3 x 1/3" CCD- Chip
- Pixels: 1920 x 1080
- AGC: Microprocessor controlled
- Lens: Integrated zoom lens f=15-31 mm (2x optical zoom)
- Minimum light sensitivity: 1.17 Lux (f=1.4mm)
- Control buttons: 3 (2 of them freely programmable)
- Video Output: 2 x DVI-D output, 1x3G-SDI output, 3 x camera input for communication with compatible camera modules, LAN Connection, 4xUSB connection (2x front, 2xback)
- Input: Keyboard input for character generator. 5-pole DIN socket.
- Power supply: 100-240 VAC 50/60 Hz.
- Certified to: IEC 601-1, 601-2-18, CSA 22.2 No.601, UL 2601 and CE according to MDD, protection class 1/CF.

27" High Definition Medical Grade Monitor

The monitor should have:

- LCD Panel 26 inch (16:9 aspect ratio)
- High Definition 1920 * 1080 pixel resolution.
- Various signal inputs: DVI-D for 2D signal in HD, HD-SDI for 2D signal in HD, S-Video for 2D Signal in standard resolution.
- Viewing angle – Horizontal: 178 degrees, Vertical: 178 degrees (3D:TBD)
- Contrast 1000:1

- Should be supplied with a compatible desktop stand.

Technical specification for Cold Xenon 300W light source

- Light outlets: 1
- Light intensity adjustment: continuously adjustable from 0 to 100% manually
- It should have standby mode which will reduce light output to a minimum, preventing the light cable from generating excessive heat
- It should have electronic scope sensing technology (ESST), a special safety feature that helps prevent accidental burns caused by a light cable that is not connected to the scope
- Intuitive simple user interface with LCD touch screen

Universal jaw assembly to any make of fiber optic cable

It should have electrical configuration

- Primary: 100-240VAC, 50/60Hz, light output 400W
- Fuses (2): 5.0A 250V
- It should have the following dimensions
- Height: 4.65" to 4.85"
- Width: 12.4"
- Depth: 16.7" to 16.9"
- Weight: 7.1kg to 7.4kg
- Light engine should be – type: Red, Green, Blue LEDs
- Operating conditions should be – 50 to 40 deg C, 30 to 95% relative humidity
- Transportation & storage condition should be -20 to 60 deg C, 10% to 75%
- Relative humidity, 700 to 1060hpa
- Classifications & approvals
- It should comply with medical safety standards
- IEC 60601-1:2005, CAN/CSA C22.2 No.601.1-M90, UL 60601-1:2003
- It should comply with medical EMC standard
- IEC 60601-1-2:2001, class 1 equipment
- Water ingress protection, IPX0-ordinary equipment continuous operation electromagnetic
- Compatibility: it should comply with
- RF emissions CISPR 11 – class B
- Harmonic emissions – IEC61000-3-2- Class A

- Voltage fluctuations /flicker emissions IEC61000-3-3

Fiber-optic light transmitting cable 5.0mm dia. 10 Ft long – 1 No.

Arthroscopy shaver system

Specification for electrically operated arthroscopy shaver system (USFDA or European CE approved product only)

Microprocessor control console 230V – 1 No

- a) The console should be computerized programmable with touch screen for various controls of functions
- b) The console should accept three-hand pieces and should run two-hand pieces with two different footswitches at a time simultaneously
- c) The console should have braking, acceleration adjustable at various levels
- d) The console should show actual running rpm
- e) The console should have facility to select the preset speed level
- f) The console should have electronic feed-back technology for the constant maintenance of the selected rpm, without going to hall storage, through-out the surgery
- g) The console should have the provision to run spine drills and micro saws
- h) The console should be capable of running the big bone drill and saws
- i) The electric console should run micro high speed drill at 75000 rpm for using as the spine drill

Hand controlled shaver hand piece flash autoclavable – 1 No.

- a) The shaver hand piece should have 15000 RPM for better burring
- b) The shaver hand piece should have DC brushless motor for minimal maintenance
- c) The shaver hand piece should not require any lubrication
- d) The shaver hand piece should be easy maneuverable and better balanceable
- e) The shaver hand piece should run in forward reverse and oscillating mode
- f) One hand piece should run the cutters and burs for both small and large joints
- g) Shaver hand piece should be lightest in weight and should have revolving suction outlet
- h) Shaver hand piece should have buttons to control the functions like forward, reverse and oscillating mode'

Multi Functional Foot Switch – 1 No.

- Should be a programmable footswitch.
- Should be provided with acceleration for variable speed.

- Control should be within the preset Limit at the console.
- Should have the facility for selection of forward/reverse and oscillating mode at the foot switch itself.
- Should have the facility to switch between the maximum selected speed for burs and cutters.
- Should have the mode of scrolling to activate the hand piece connected to the console other than the running hand piece.

Cutting & burs for shaver box of 5 Nos – 1

Aggressive plus cutters angled and straight 4.0mm

Small joint cutter – 1

Aggressive cutter 2.5mm

The above system should be supplied with a trolley to house all the units

Specification for Graft removal and preparation for Cruciate Ligament reconstruction set

Sl. No.	Description	Specification	Qty.
1	Tendon stripper closed	Tendon stripper: closed diameter 7-8 mm & 5-6mm length 30 cm. Should have length marks on the stripper wire	1 each.
2	Tendon Stripper Open	Tendon Stripper: Open Diameter 7-8mm length 30 cm. Should have length marks on the stripper wire	1
3	Tendon Thickness Tester	Tendon: Thickness Tester for determination of Tendon thickness from 7mm to 12mm in 0.5mm increments. Should provide precise thickness measurement with a flap mechanism to measure the graft when it is tensed on the graft board.	1 set

Sl. No.	Description	Specification	Qty.
4	Tendon Hook	Tendon Hook	1 set
5	Tissue Forcep	Tissue forceps 1x2 teeth medium distal curved to left length 14.5cm	1 set
6	Tendon Board	Tendon Board for cleaning and preparing the graft. Graduated scale for measurement of the graft facility for preparation and initial tensioning of the graft. Marking for the determination of the graft portion in the femoral tunnel Intra Auricular and tibia Tunnel including a retainer for Femoral Fixation Button.	1
7	Thread Clip	Thread Clip	1
8	Tibial Target guide	Tibial Guide for Anterior Curciat Ligament reconstruction	1
9	Larding Wire	Drill wire diameter 2-3 mm length 30 cm or more, pyramidal shape	6
10	Drilling wire with Eyelet	Drill Wire Diameter 2-3mm length 30 cm or more, pyramidal shape	6
11	Length Gauge	Length Gauge length 20 cm or more	1
12	Tibial guide for PCL	Tibia Target guide for PCL reconstruction, straight, left & right	1 each
13	Femoral PCL Aimer	Femoral PCL Aimer,	1

Sl. No.	Description	Specification	Qty.
		Graduated, Length 12cm or more.	
14	Quadriceps Graft Harvesting System	Quadriceps Harvesting system consisting of Handle, Quadriceps tendon cutter, tendon knives of sizes 8, 9 & 10mm and Tendon separator of size 5mm	1 each.

Note: Bidders shall furnish technical compliance statement for the model quoted , details of manufacturer including deviations if any. Technical catalogue /data sheet shall also be furnished in support of technical compliance statement with out fail.