



अखिल भारतीय आयुर्विज्ञान संस्थान (एम्स) कल्याणी
All India Institute of Medical Sciences (AIIMS) Kalyani
**(स्वास्थ्य एवं परिवार कल्याण मंत्रालय, भारत सरकार के तत्वावधान में एक
सांविधिकनिकाय)**

(A Statutory Body under the Aegis of Ministry of Health and Family Welfare, GOI)
राष्ट्रीय राजमार्ग - 34, बसन्तपुर, सागुना, कल्याणी, ज़िला - नदिया, पश्चिम बंगाल -
741245

NH-34 Connector, Basantapur, Saguna, Kalyani, District Nadia, West Bengal 741245

Ref No : 225/D-39017/1/23(HITES)01

Dated : 07/08/2024

E-Tender No – 160/D-39017/1/23/HITES/01/ET-10

**1st corrigendum of E-tender for procurement of 4K Arthoscope with camera
system, shaver system, fluid management system and complete knee
instrumentation set(ACL & PCL set)**

SI No. 1 : All the existing Technical specification shall be replaced as follows:

Arthroscopy System	
Sl. No	Technical Specification
	All items should be Medical Grade. It should provide 4 times more information than Conventional Full HD imaging system. The complete optical chain should be 4K for optimized imaging.
	1. Full 4K video image processor
	2. 4K camera head
	3. Powerful LED light source
	4. Light Guide Cable
	5. 31” or more 4K – UHD medical grade monitor
	6. Image and Video recording and data archiving management system
	7. Trolley
1	Full 4K High Definition Video Image processor- Qty-01
a	A full 4K high definition processor should have native resolution of 3840 x 2160 pixels system
b	Should also provide 3840 x 2160 or 1920 x 1080 should also be selectable. (Should provide 4K output .
c	Video processor & Monitor having video format to display true 4K color format
d	The video processing device should have touch interface or button interface operation for easy control. Added Para : The camera head should have controls for various functions.
e	Should have AE (Automatic Exposure)
f	The System settings should be held in memory even after video system processor is switched OFF.
g	Should have compatibility for selecting 12G-SDI & DP or HDMI 2.0 signal output (transmission method).
2	Full 4K Camera head-Qty-01:

a	Camera head should incorporate optical fiber transmission providing 4K resolution through thin cable
b	Should have CMOS sensor providing high sensitivity and less noise for clear image
c	Should provide Auto focus or manual focus function
d	Should provide electronic Zoom Function (button controlled) – x 1.5 Or above electronic / digital zooming in steps
e	Sterilization through ETO/STEAM Sterilization
f	Should have focal length f = 18 mm or more
3	Powerful LED light source –Qty-01
a	Should be compatible with 4K system
b	Automatically adjusts light intensity to achieve ideal illumination
c	Backlit front panel indicators.
d	Lamp colour temperature : 5500K - 7500K
e	Lamp life: Minimum of 20000 hours
4	Light Guide Cable:-Qty-02
a	Sterilization through ETO/STEAM Sterilization
b	Reduced diameter (3 to 5mm) with high fiber density and 300cm or more in length.
5	4K Medical Grade Monitor: Qty-01
a	4K medical grade 31 inch or more UHD LED backlit monitor with ultra -high definition resolution 3840x2160. Compatible with all processor of displaying 4K application
b	Should have multi-image display format
c	Picture-out-picture and flip pattern to rotate the image.
d	Should have various input/output terminals, including 3G/HD/SD SDI, DVI-D, BNC (x5) and DP.

e	Monitor should have Opti-contrast Panel providing higher contrast image and less color blurring.
6	Image and Video recording and data archiving management system: Qty-01
a	Digital storage of still image & video sequences
b	Should be a 4K UHD / full HD
c	Should have full featured graphical user interface
d	Recording media: Internal HDD (100 GB OR More) and external USB port for storage
e	Should have facility of patient's data
f	USB support for storage on USB device.
g	Input / recording resolution: 4K / HD
h	Compatibility with HIS/DICOM/PACS.
i	User should have full control of the system from the sterile field via camera head buttons
j	Should have support for physician print, media, annotations, patients field, procedure settings and individual surgeon profile & preferences.
k	Connectors;
	a. Input/output: for 4K / HD recording
	Other interfaces: USB 2.0, USB 3.0, network RJ-45 and Remote control (Optional)
	c. All necessary cables should be supplied
l	All the necessary cable should be supplied.
m	IMS console must have built in wi-fi / LAN for connectivity of app and printer
7	Trolley : Qty-01

	Compatible trolley compatible with the above system should be provided
8	Certification
	The system should be BIS or European CE or US FDA certified.

Arthroscopy Shaver and Instruments		
A	Arthroscopy Set (Arthroscope, Sheath and Obturator) Set 1 : Qty 1 No	
1	Wide Angle, Direct View High Definition Arthroscopic	
2	Light Guide insertion on opposite side of the direction of view	
3	Working Length of Not more than 180mm	
4	Optimal centre-to-edge resolution for enhanced picture quality	
5	Angle of view: 70 degree	
6	Diameter 4mm	
7	Fiber optic light transmission incorporated	
8	Standard ocular window for coupling the camera head	
9	Scratch resistance sapphire quoted tip lens	
10	Arthroscopies should be supplied with compatible cannulas high flow, double valve, fully rotatable with fenestrated tip & conical and blunt tip obturator.	
11	<u>Sheath</u> - 5.5 to 6.5mm, high flow diagnostic cannula, double valve, fully rotatablecannula with fenestrated tip.	
12	<u>Trocar Should be compatible with sheath.</u>	
B	Arthroscopy Set (Arthroscope, Sheath and Obturator) Set 2 : Qty 1 No	
1	Wide Angle, Direct View High Definition Arthroscopic	
2	Light Guide insertion on opposite side of the direction of view	
3	Working Length of Not more than 160mm	
4	Optimal centre-to-edge resolution for enhanced picture quality	
5	Angle of view: 30 degree	
6	Diameter 2.7	
7	Fiber optic light transmission incorporated	
8	Standard ocular window for coupling the camera head	
9	Scratch resistance sapphire quoted tip lens	
10	Arthroscopies should be supplied with compatible cannulas high flow, double valve, fully rotatable with fenestrated tip & conical and blunt tip obturator.	
11	<u>Sheath</u> - 3mm to 4mm, high flow diagnostic cannula, double valve, fully rotatablecannula with fenestrated tip.	
12	<u>Trocar Should be compatible with sheath.</u>	
C	Arthroscopy Set(Arthroscope, Sheath and Obturator) Set 3 : Qty 2 Nos	
1	Wide Angle, Direct View High Definition Arthroscopic	

2	Light Guide insertion on opposite side of the direction of view		
3	Working Length of Not more than 160mm		
4	Optimal centre-to-edge resolution for enhanced picture quality		
5	Angle of view: 30 degree		
6	Diameter 4mm		
7	Fiber optic light transmission incorporated		
8	Standard ocular window for coupling the camera head		
9	Scratch resistance sapphire quoted tip lens		
10	Arthroscopies should be supplied with compatible cannulas high flow, double valve, fully rotatable with fenestrated tip & conical and blunt tip obturator.		
11	Sheath- 5.5 to 6.5 mm, high flow diagnostic cannula, double valve, fully rotatablecannula with fenestrated tip.		
12	<u>Trocar Should be compatible with sheath</u>		
D	Arthroscopic Resection Shaver System		
	The Shaver system should comprise of Controller Console, Shaver Hand-piece, and Foot pedal		
a	Controller Unit : One quantity		
1	The Controller console should have receptacles for both Shaver hand-piece, Foot Pedal and also other powered instrumentation		
2	The console screen should capture all information pertaining to minimum, maximum and set speeds forinstalled blade type.		
3	Should provide control for momentary push switches for increasing and decreasing speed setting.		
4	The Unit should have 2 Modes for Normal and Aggressive Resection so as to balanceefficacy with safety.		
5	The Console should provide variable rpm ranging between 100rpm to 12,000 rpm asper the blade or burs used.		
6	The Motor should offer Forward, Reverse and Oscillation Mode for Resection.		
b	Shaver Hand Piece : two quantity		
1	The autoclavable shaver hand piece, which is compact, lightweight and ergonomically designed, with hand control.		
2	The connecting cable should be autoclavable and replaceable with length of approx. 10Ft and above .		
3	The hand piece should be not more than 10 Inches length and not more than 800 gms.		
4	The hand piece should have suction control lever.		
5	The Shaver Hand piece should have safety mechanism Lock toavoid any unintentional tissue damages on pull out.		
6	The Shaver hand piece should have push-button motor controls: Forward, ReverseOscillate,		
7	The Shaver should offer Maximum torque not be less than 32oz.in		

8	Input voltage of 100 to 240V, 50/60 Hz power consumption not more than 350VA.		
c	Foot Pedal : one quantity		
1	The variable speed foot pedal should be sturdy with a long connecting cable.		
2	The foot pedal controls should include three standard operating modes, i.e. Forward, Reverse and Oscillation.		
d	<u>Consumables-Blades & Burs :</u>		
1	Shaver System Should be supplied with 5 pieces of single use shaver blades of each of the diameter for knee and shoulder – Total 20		
E	Arthroscopy Fluid Management System : Qty 1		
1	The Fluid management System offers to maintain& control intra-articular pressure regardless of varying outflow rates. The system can also be used with any arthroscopic inflow cannula and should include main control unit, disposable tubing sets		
2	The control unit should not require the user to increase distension pressure to achieve high flow rates. Outflow may be adjusted while maintaining the lowest distension pressure needed		
3	Flow rate should be change as per operating cannula connection		
4	The Unit should have a LCD Display and should clearly depict High flow, Medium flow and Low Flows.		
5	Maximum flow rate of not less than 2.5 ltr/min for procedural speed and efficiency		
6	Automatic Joint pressure maintenance up-to 120 mmHg or more .		
7	Must be supplied with Disposable tube sets for inflow only (30pcs).		
8	Must be supplied with Disposable Tube sets for inflow and outflow (30pcs).		
9	Operating System: Microsoft embedded Windows XP or latest operating system.		

F	HAND INSTRUMENTS	
	for distal tip, ensuring unsurpassed strength and cutting efficiency	
1	Punches: - All purpose, low profile with a large square bite	Qty
a	Basket Punch straight–Bite Width-2.5mm - 3.5mm,	1
b	Basket punch upbiter, Bite Width-2.5mm - 3.5mm,	1

c	Basket punch upbiter curved right –, Bite Width-2.5mm - 3.5mm,,	1
d	Basket punch upbiter curved left –, Bite Width-2.5mm - 3.5mm,,	1
e	Basket Punch slim, Bite width- 1.5mm – 2mm ,	1
f	Posterior / Reverse Punch Upbiter, Bite width-2 - 3mm,	1
g	Posterior / reverse Punch Straight, Bite width-2 - 3mm,	1
h	Basket Punches,90 deg. Rotary, handle with a 3.4mm bite in left and Right.	1
i	Basket Punch left 2.5 – 3.5mm	1
j	Basket Punch right 2.5 – 3.5mm	1
2	Grasper	Qty
	All grasper should have an infinite position sliding lock mechanism that hold tissue firmly without tearing and slipping – even in the tightest area.	
a	Grasper with sliding lock mechanics	1
	Scissors	Qty
a	Scissor Punches should be straight .	1
b	Scissor Punches left	1
c	Scissor Punches Right	1
	Others	Qty
a	Probe Straight	4
b	Autoclavable Sterilization Tray to accommodate minimum 15 nos of aboveinstruments	1
c		

	ACL Reconstruction Set	Qty
1	Tendon stripper-open ended and closed , as available with OEM or 5 and 7 mm	1 Set
2	Thickness tester	1
3	Tibial guide	1
4	Femoral offset guide 5,6,7,8 mm	1 No Each

5	Reamers for Femur and Tibia : 4/4.5,5,6,7,8,9,10 mm	1 No Each
6	Length guage for measuring the tunnel	1
7	Reaming wire	1
8	Curette	1
9	Rasp	1
	PCL Femoral, Tibial Arms, Backstopper, rasp and Curette	1 No Each

****Note – All system and instruments should be of same OEM**

Warranty:

Warranty period of the supplied products shall be 5 (Five) years from the date of final acceptance of goods or after completion of installation, commissioning and testing of goods (if included in the scope of supply). OEM warranty certificates must be submitted by successful bidder at the time of delivery of goods.

Seller or OEM should have well established installation, commissioning, training, troubleshooting and maintenance service group in India for attending the after sales service. Details of service centres near consignee destinations are to be uploaded along with the bid. Warranty declaration must be provided at the time of bidding with duly sign and stamp.

CMC:.

The bidder shall provide 5 years of Comprehensive Maintenance service after the expiry of 5 years of warranty period.

Buyer reserves the right to enter into a CMC agreement with the successful bidder after expiry of the warranty period at quoted rate (in financial bid) and the payment for the CMC charges would be made Annually after rendering of the CMC Services of the relevant CMC period.

Performance security will be forfeited if it fails to accept the CMC contract when called upon by the buyer.

The original Performance Security of contract will be returned only after submission and verification of CMC Performance security for 5% of total CMC value valid upto CMC period plus 2 months (if there is no other claim)

SI No. 2 :

Point	Written As	To be read as
<p>Pont no 5 of (II) Special Terms & Conditions of the Tender at page no 24 of the Tender document</p>	<p>Penalty Clause: The time for the date of delivery/ dispatch stipulated in purchase order shall be deemed to be essence of the contract and if the supplier fails to deliver or dispatch any consignment within the period prescribed for such delivery or dispatch in the purchase order, liquidated damages may be deducted from the bill @ 0.5% per week subject to maximum of 10% of the value of the delayed goods or services under the contract. After that period the competent authority of the institute may also cancel the supply. In such a case, bid security of the supplier shall stand forfeited.</p>	<p>Penalty Clause:</p> <p>a. The time for the date of delivery/ dispatch stipulated in purchase order shall be deemed to be essence of the contract and if the successful bidder fails to deliver or dispatch any consignment within the period prescribed for such delivery or dispatch in the purchase order, liquidated damages may be deducted from the bill @ 0.5% per week subject to maximum of 10% of the value of the delayed goods or services under the contract. After that period the competent authority of the institute may also cancel the supply. In such a case, bid security of the bidder shall stand forfeited.</p> <p>b. After having been notified of the defects/service requirement during warranty and CMC period, the successful bidder has to complete the required service/rectification within 3 days time limit. If the successful bidder fails to complete service/rectification with defined time limit, a penalty of 0.5% of Unit price of the product shall be charged as penalty for each week of delay from the successful bidder. The penalty can be deposited by the successful bidder to the buyer directly else the penalty amount shall be</p>

		recovered from the performance security.
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SI No. 3 : Financial Bid format -

Written as –

SI no.	Description	Quantity	Price	GST@ (%)	GST Amount (Rs.)	Total Amount (Rs.)
1	4K Arthroscope with camera system, shaver system, fluid management system and complete knee instrumentation set(ACL & PCL set)	01 No.				

To be read as –

SI no.	Description	Quantity	Price (Rs.)	GST@ (%)	GST Amount (Rs.)	Total Amount (Rs.)
1	4K Arthroscope with camera system, shaver system, fluid management system and complete knee instrumentation set(ACL & PCL set)	01 No.				
2	CMC charge for 6 th year	01 No.				
3	CMC charge for 7 th year	01 No.				
4	CMC charge for 8 th year	01 No.				

5	CMC charge for 9 th year	01 No.				
6	CMC charge for 10 th year	01 No.				
Total Amount(Rs.)						

Point to be added in the General Terms and Conditions :

1. **EMD EXEMPTION :**

The bidder seeking EMD exemption, must submit valid supporting document for the relevant category with the bid. Under MSE Category, only manufacturers for goods and services providers for services are eligible for exemption from EMD. Traders are excluded from the purview of this policy.

EMD and Performance security should be in favour of beneficiary, wherever it is applicable.

This Corrigendum is issued with the approval of the competent authority.

Consequent to the approval of the competent authority, the above mentioned tender is hereby extended for 15 days from the date of this notification on the official website of AIIMS Kalyani and CPPP.