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Corrigendum-I

Bihar Medical Services and Infrastructure Corporation Limited (BMSICL) had invited E-Bids from the interested parties for the procurement, rate contract and the supply of medical equipment for different Govt. Institutions of Bihar vide Notice Inviting Re-Tender No.- BMSICL/2024-25/ME-397. During and after Pre-bid meeting various suggestions were received from different prospective bidders regarding amendment in technical specification of equipment which were discussed and deliberated on by the experts, who after due deliberation recommended certain amendments in the technical specification of the equipment, which are annexed as Annexure-I of this corrigendum. Rest of the terms & conditions of the NIT & Corrigendum-I shall remain unchanged:-

Tender Reference No.	BMSICL/2024-25/ME-397
Last date and time of submission of online bids	06th March 2025 till 17:00 Hrs.
Last date and time of submission of original documents of EMD, Tender Fee and Document	07th March 2025 till 14:00 Hrs.
Date, Time and Place of opening of Technical Bid	07th March 2025 (at 15:00 Hrs.) on the website of https://eproc2.bihar.gov.in in the office of BMSICL
Date and time of opening of financial Bids	To be announced later on https://eproc2.bihar.gov.in

Note:-

- 1. Bidders are advised to refer to the Annexure-I of this corrigendum before submission of bid.**
- 2. Those who have submitted their bids are requested to re-submit their bids in accordance with this corrigendum.**

Annexed:- as above

**Sd/-
GM (Procurement)
BMSICL**

Annexure-I			
Name of Equipment:- Arthroscopy specialty Centre & Sports Physiotherapy			
Sl. No	Technical Specification as per tender		Final Amendment
i	Arthroscopic Tower Central Unit	The video Cart should have Shockproof powder-coating	No Change
		Should have Anti-Static roller set with cable guards	No Change
		Should have Detachable cable guards	No Change
		Should have minimum 4 lockable castors	No Change
		Should have Isolating transformer 2000VA with earth leakage guard	No Change
		Should have a minimum of 4-5 storage shelves	No Change
		Should also have an option extendable storage shelf	No Change
		Should have provision of Drawer with lock	No Change
		Should Mounting position for central-monitor-mount	No Change
		Should Mounting position for articulation-monitor-arm	No Change
		Should have Cable winding aid	No Change
		Should be US FDA/European CE approved	No Change
ii	High Definition camera, Light Source and image management system 30° & 70° arthroscopes	4K/UHD Camera Console	No Change
		The Console should combine the latest technology, 4Kvision (2160p), 4K 3-Chip CMOS camera	The Console should combine the latest technology, 4Kvision (2160p), 4K 3-Chip CCD camera/4K CMOS Camera
		Camera Rear Panel should have inputs/outputs like Display port or 12G	No Change
		SDI/3G SDI or HDMI 2.0 or DP for 4K and DVI or HDMI for FULL HD output".	No Change
		Camera should have resolution of 3840X2160 lines with Progressive Scan Technology.	No Change
		LED Light Source (It should be Separate Light Source)	No Change
		The LED light source should have minimum 30,000 hour life span and it should be covered under 03 years warranty period	No Change
		Light output/light flux: minimum of 1400 lumen or more (typical)	Light output/light flux: minimum of 1800 lumen or more (typical)
		Should be Compatible with Light Cables of Different Manufactures(optional)	No Change
		Should have Light guide port turret with ACMI™ Standard, Storz™, Wolf™, and Olympus™ light cable options(optional)	No Change

		Image Management (Separate Recording Device)	No Change
		Should have DICOM Capability -Pictures should be Exported to hospital PACS	No Change
		Should have just 4K UHD Recorder	No Change
		Should have provision to Export data to Network	No Change
		Export of Images/Video to USB, I-Pad, Desktop, Laptop through Networking/Wi-Fi connectivity.	Export of Images/Video to USB, I-Pad, Desktop, Laptop through Networking/Wi-Fi connectivity (optional).
		Should have minimum 01 TB Storage or more space in console.	No Change
		Surgeons should review, edit, annotate and tag stills and video recordings, as well as create and instantly transmit images, videos and educational postoperative reports to patients with help of I Pad/wireless tab/ Wireless/LAN through a pre-installed surgeon software	Surgeons should review, edit, annotate and tag stills and video recordings, as well as create and instantly transmit images, videos and educational postoperative reports to patients with help of I Pad/wireless tab/ Wireless/LAN through a pre-installed surgeon software (optional)
		UHD 4K Camera Head	No Change
		The 4K Camera head should have resolution of minimum 3840 x 2160 Pixel	No Change
		Camera Head should have Programmable Buttons to Set Surgeon Preferences.	No Change
		Metal housing with 2 or more programmable buttons	No Change
		Inbuilt zoom facility should be available regardless of telescope used	No Change
		The camera head should have minimum 1.5x digital zoom or more	No Change
		Should be Waterproof and disinfectant-proof	No Change
		UHD 4K Monitor	No Change
		Should be minimum 31” or more 4K monitor with Resolution of 3840 x 2160 (4 times HD)	No Change
		Should have Picture-in-Picture and Side-by-Side Display Modes	No Change

		Monitor should support 4K camera System	No Change
		Should have Versatile Multi-Format Signal Support	No Change
		Should have Wide Screen and aspect ratio of 16:9	No Change
		The Contrast Ratio should be 1400:1 or more	No Change
		The Video Input should have 1 Display Port, 1 DVI port & 1 3G-SDI	No Change
		Video Output: 1 DVI port/HDMI/4K compatible/ 3G-SDI	No Change
		4K Arthroscopes – 30 Degree	No Change
		4K Arthroscopes 30° should have diameter of 4mm ± 10% diameter with minimum of 140 mm or more length with its corresponding sheath and obturator.	No Change
		Scope Should be a Wide Angle, Direct View 4K Arthroscope	No Change
		The scope should be fully Autoclavable.	No Change
		The 4K scope should offer High depth of field focus with high resolution all the way to the edge of picture	No Change
		Should have Anti-reflective coated, high-quality glass cone (insight light post)	No Change
		Should be Scratch resistant sapphire lens on proximal and distal tip	No Change
		4K Arthroscopes – 70 Degree	No Change
		4K Arthroscopes 70° should have 4.0 mm ± 10% diameter and minimum 140-165mm±5% length with its corresponding sheath and obturator (Ideal for Hip Surgery)	No Change
		Scope Should be a Wide Angle, Direct View 4K Arthroscope	No Change
		The scope should be fully Autoclavable	No Change
		Should offer High depth of field focus with high resolution all the way to the edge of picture	No Change
		Should have Anti-reflective coated, high-quality glass cone (insight light post)	No Change
		Should be Scratch resistant sapphire lens on proximal and distal tip	No Change
		Fibre-Optic Light Cable	No Change
		Should have Light Guide Cable fused at proximal end to maximize light transmission having diameter of minimum 4.5 mm & length not less than 2.5mm	No Change
iii	Arthroscopic Shaver System	Shaver Console	No Change
		The system should have to 2 independent ports for Handpiece attachments and 2 independent ports for Foot Switch	No Change
		The Motor should offer Forward, Reverse and Oscillation Mode for Resection	No Change

		Should have different modes of Oscillation	No Change
		Should have intuitive touchscreen control	No Change
		Should be able to operate 2 handpieces simultaneously if required	No Change
		The system should have automatic handpiece recognition	No Change
		The system should be controlled via footswitch and/or touchscreen.	No Change
		Shaver Handpiece	No Change
		The handpiece should have variable RPM upto 12000	No Change
		The autoclavable shaver hand piece, which should be compact, lightweight and ergonomically designed, should be available with & without hand control options. It should have also a variety surgical procedure including orthopaedic, neuro-spine applications.	No Change
		The connecting cable should be autoclavable and replaceable with length of approx. 10Ft or more	No Change
		The shaver handpiece should be lightweight and should have detachable suction lever.	No Change
		The shaver handpiece should be compatible with both shaver blade, burr and special blades (if any)	No Change
		Handpiece should be compatible with microblade /small blades of minimum size 1.9 +/- 10% mm or less	No Change
		Input voltage of 100 to 240V, 50/60 Hz	No Change
		Shaver Footswitch	No Change
		Should be water resistant	No Change
		The variable speed foot pedal should be sturdy with a long connecting cable.	No Change
		The foot pedal controls should include three standard operating modes, i.e. Forward, Reverse and Oscillation.	No Change
		Should have speed control & toggle options	No Change
		Include Shaver Blades -5 nos. of 4.5mm (Approx) Sizes (Disposable Type)	No Change
iv	Arthroscopic radio-frequency ablation system	System should have intuitive touchscreen control	No Change
		RF should be controlled via hand-control buttons on probes, foot pedal or touchscreen.	No Change
		Should have hand control also available with foot pedal connected.	No Change
		Should have optional foot pedal override functionality.	No Change
		System should have 2 or more button controls with Ablation, Coagulation and Ablation-Power-Setting.	No Change

		Should have Metal proximity detection should be available for Scope saver.	No Change
		Probes can get unplugged and replugged during surgical time and system can therefore withstand power-interruptions	No Change
		The System should work on low voltage 100 kHz square wave (~100- 240 V) and should produce only less temperature for more patient safety	No Change
		The System should be based on low temperature Bi-Polar Radio frequency technology. They should not have any need for the secondary patient grounding pad.	No Change
		The RF probe should have Multi Electrode Technology that will allow a uniform production of plasma	No Change
		Include RF Probes – 5 nos of different sizes (Disposable Type)	No Change
	Note- Equipment Serial No. 1 (subgroup (i), (ii), (iii) and (iv)) should be compatible to each other. L-1 will be decided on the basis of unit cost of above equipment from sub group Serial no. (i), (ii), (iii) and (iv). Price of each equipment should be quoted separately. Equipment Subgroup Serial No. (i), (ii), (iii) and (iv) will be consider as single equipment.		
2	Arthroscopic Instruments: Meniscal Punches, graspers, scissors, shavers, probes.	a. Probe Hook with Metal Handle 5-5.5 mm tip	No Change
		b. Straight Punch Bakset Type	No Change
		c. Left Punch Basket Type	No Change
		d. Right Punch Basket Type	No Change
		e. Grasper with Hook and serrations on Jaw	No Change
		f. Low Profile Suture Retriever Straight Jaw	No Change
		g. Arthroscopic Scissors 3.4mm Diameter	No Change
		h. Knot Pusher Closed End	No Change
		i. Suture Cutter for #2-0, #2, #5 sutures	No Change
3	ACL, PCL, Knee, Shoulder Instrumentation set.	ACL, PCL and Knee Instrumentation System	No Change
		1. ACL Transportal offset	No Change
		a. 6mm, 7mm, 8mm	No Change
		b. Handle should be colour coded for easy identification	No Change
		c. Markings to be graduated on shaft of Offset for evaluation under scope	No Change
		d. Finger point type design should be there for easier reach	No Change
		2. Tendon Stripper Closed	No Change
		a. Should be at least 300mm in length	No Change
		b. 7mm Dia	No Change
		c. Markings to be graduated at 10 mm interval	No Change
		3. Tendon Stripper Open	No Change

		a. Standard Design	No Change
		b. Markings to be graduated at 10 mm interval	No Change
		c. Should be 300mm in length	No Change
		4. 4.5 Endoscopic Drill	No Change
		a. Markings to be Graduated at every 10 mm	No Change
		b. 2.4mm cannulation	No Change
		5. Cannulated Headed Reamer (Flower tip)	No Change
		a. 6mm, 7mm, 8mm, 9mm, 10mm, 11mm	No Change
		b. Marking to be Graduated every 5mm	No Change
		c. 2.4mm cannulation	No Change
		6. Tibial Reamer	No Change
		a. 6mm, 7mm, 8mm, 9mm, 10mm, 11mm	No Change
		b. Markings to be Graduated every 10mm	No Change
		c. 2.4mm cannulation	No Change
		7. Tibial Zig and Femoral zig with Marking Hook and Bullet	No Change
		a. Should have side Release Zig Handle	No Change
		b. Tibial Marking Zig should Have Finger Tip Design	No Change
		c. 5mm marking for angle calculation on ACL marking Hook	No Change
		d. 2.4mm cannulation in bullet with Ratcheting Sleeve	No Change
		e. 10 mm markings lo be graduated for the Identification of tibial length	No Change
		f. Femoral Zig with at least 4mm increments! marking on tip and 5mm on handle	No Change
		8. Screw Driver for interference	No Change
		9. Graft Preparation System	No Change
		a. Graft Master Board with multiple attachments compatibility	No Change
		b. Master board with Scale Function	No Change
		c. Graft Sizing Block with 4.5mm-12mm holes in 0.5mm increments	No Change
		10. PCL Zig handle	No Change
		a. Femoral PCL zig handle with 2mm markings graduated on Tip	No Change
		b. 5mm markings graduated on Handle	No Change
		c. Finger Tip Design With Pin for Stabile placement	No Change
		d. Tibial PCL Zig handle with 2nm markings graduated on Tip	No Change
		e. 5mm markings graduated on Handle	No Change
		f. Finger Tip Design With Pin for Stable Placement	No Change
		11. PCL Instruments	No Change
		a. PCL Suture Pusher	No Change

		b. PCL Rasp with Curved Shaft	No Change
		c. PCL Popliteal Curette / retractor	No Change
		12. Instrument Case/Box for Safe Storage	No Change
		<u>Shoulder Instruments Set</u>	No Change
		1. Cannula Instrument	No Change
		a. Short and Thin Orbutrator for 6-8mm Cannula	No Change
		b. Long and Thin Orbutrator for 6-8mm Cannula	No Change
		c. Short and Thick Orbutrator for 6-8mm Cannula	No Change
		d. Long and Thick Orbutrator for 6-8mm Cannula	No Change
		e. Extra Long Switching Stick, 4 mm x 12 in - 2 Pc	No Change
		f. 8 mm silicon/ Inserter Cannula	No Change
		2. Suture management Instruments	No Change
		a. Probe, Hook 5-5.5 mm, Tip w/5 mm Markings	No Change
		b. Suture Retriever, ø3.4 mm, Straight	No Change
		c. BirdBeak, 2.75 mm, 22° Up Tip	No Change
		d. BirdBeak, 2.75 mm, 45° Up Tip	No Change
		e. Suture/Crochet Hook	No Change
		f. Knot Pusher, closed end	No Change
		g. Suture Passer Reusable Type with Disposable Needle	No Change
		j. Penetrator Suture Retriever, 15°	No Change
		k. Suture Cutter, 4.2(+/- 10%) mm, Straight, closed end	No Change
		l. FiberTape Suture Cutter	No Change
		m. grasper and retriever	No Change
		3. Tissue Management Instruments	No Change
		a. Rotator Cuff Grasper, 4.2 mm Straight Shaft w/SR Handle	No Change
		b. Suture Retriever/Tissue Grasper	No Change
		c. Curette	No Change
		d. Shoulder Debridement Rasp UP/Down	No Change
		g. Shoulder eleveter UP/Down	No Change
		5. Instrument Case or Box for safe storage	No Change
4	Arthroscopic Fluid Management System	Pump System should have intuitive touchscreen control	No Change
		Should have Presets for various joints like (Shoulder, Knee, Small Joint, Hip)	No Change
		The Flowrate: ≥ 1500 ml/min should be automatically adjusted	No Change
		The max flowrate setting should be adjustable from 50% to 100% (increments of 10%)	No Change
		Flow rate should be change as per operating cannula connection	No Change

		The pressure setting should be adjustable between 10 and 120. (Increments of 5).	No Change
		Should have automatic Joint pressure maintenance up-to 120 mmHg	No Change
		Should have the real time flow rate monitoring	No Change
		The estimated fluid usage information should be available.	No Change
		Should have interface with Shaver System if required	No Change
		Should have shaver boost functionality: automated pressure increases when shaver is utilized; 0 to 50% (10% increment steps)	No Change
		Should have Lavage mode – increases pressure when utilized	No Change
		should be multiple tubing option	No Change
		The overpressure control should be 300 mmHg $\pm$ 5	No Change
5	Arthroscopic leg holder and traction system	a. 3-Point Shoulder Distraction System	No Change
		b. Atraumatic Hand Held System	No Change
6	Surgical Power Tools: Electric drills and saws and Reamer Attachment	Power System	No Change
		GENERAL INFORMATION	No Change
		Intended Use	No Change
		The intended use of the Power System is for cutting, shaping, and preparing bone and bone-related tissues in a variety of surgical procedures. The system is usable for performing numerous operations such as sawing, reaming and drilling as well as driving wires, pins and various instruments.	No Change
		PRODUCT CHARACTERISTICS	No Change
		Double Trigger Handpiece	No Change
		Type: Double Trigger Handpiece	No Change
		Max. drill speed: 1200 rpm or more	No Change
		Max. saw speed: 12000 cpm or more	No Change
		Max. torque: 3.5 Nm or more	No Change
		Mode: Forward/Reverse/Oscillating	No Change
		Speed Trigger: Variable	No Change
		Toggle Switch: On/Off	No Change
		Cannulation: 4.0 mm	No Change
		Dimensions (HxWxD): 152 x 127 x 52 mm $\pm$ 10%	No Change
		Weight: Should Not be more than 1250 gm(Without Battery)	No Change
		Material: Aluminum/ Stainless Steel	No Change
		Compatibility: Battery and AC Power Supply	No Change
		Drill Attachments	No Change
		Max. Speed: 12000 rpm or more	No Change
		Max. Torque: 3.5 Nm	No Change

	Shank Styles: Small AO, Hudson, Trinkle, Zimmer/ Hudson, 1/4in Key Hybrid Chuck, 5/32in Key Hybrid Chuck	No Change
	Material: Stainless Steel	No Change
	Standard Reamer Attachments	No Change
	Max. Speed: 600 rpm	No Change
	Max. Torque: 9 Nm or more	No Change
	Shank Styles: AO, Small AO, Hudson, Trinkle, Zimmer/ Hudson, Harris, DCS/DHS, 1/4in Key Hybrid Chuck	No Change
	Material: Stainless Steel	No Change
	High Torque Reamer Attachments	No Change
	Max. Speed: 270 rpm	No Change
	Max. Torque: 17.5 Nm or more	No Change
	Shank Styles: AO, Hudson, Trinkle, Harris, Zimmer/Hudson, DCS/DHS, 1/4in Key Hybrid Chuck	No Change
	Material: Stainless Steel	No Change
	Pin Driver Max. Speed: 1200 rpm	No Change
	Max. Torque: 5 Nm	No Change
	Clamping Range: 2.0 – 4.0 mm	No Change
	Material: Stainless Steel	No Change
	Special Feature: No pin diameter adjustment needed	No Change
	Wire Driver	No Change
	Max. Speed: 1200 rpm	No Change
	Max. Torque: 5 Nm or more	No Change
	Clamping Range: 0.8 – 2.0 mm	No Change
	Material: Stainless Steel	No Change
	Special Feature: No pin diameter adjustment needed	No Change
	Sagittal Saw Attachment	No Change
	Max. Speed: 12000 cpm	No Change
	Arc of Deflection: 4.5° (+/- 2.25°)	No Change
	Material: Stainless Steel	No Change
	Special Feature: Single blade can be adjusted +/- 10mm from nominal position within the attachment	No Change
	Reciprocating Saw Attachment	No Change
	Max. Speed: 12000 cpm	No Change
	Stroke: 3.8 mm± 5%	No Change
	Material: Stainless Steel	No Change
	Special Feature: Reciprocating Saw attachment can be converted into a Sternum saw by connecting a Sternum Guard (Standard or Large)	No Change
	Aseptic and Sterilisable Battery	No Change
	Battery Type: Li-Ion, 14.4 VDC, 2000 mAh	No Change
	Battery Capacity: 28.8 Wh±10 %	No Change

	Charging type: max. 60min (in average: 40 min)	No Change
	Special Feature: Equipped with real-time power gauge that indicates remaining battery capacity during the procedure	No Change
	Battery Charger	No Change
	Charging Bays: 4 or more	No Change
	Electrical Requirements: 100–240 V ~ (AC), 50/60 Hz.	No Change
	Special Feature: Visual indicator for real-time charging status and advanced battery error detection.	No Change
	Sterilization Case	No Change
	1 HP Basket with Housing Slot	No Change
Note- All above Equipment/ Instrument should be USFDA/European CE Approved (Sl. No. 1 to 06)		No Change
07. Name of Equipment :-Arthroscope System (For District Hospital/SDH/CHC/PHC)		
	<u>Full High Definition Digital Camera Head.</u>	
	Digital Triple chip CCD/ CMOS full high definition camera system.	No Change
	Pixels Quantity: 1920 x 1080p Scanning Pattern: 1920x1080 Progressive Scan (1080p) x3 CCD/CMOS	No Change
	Aspect Ratio: Capable of displaying wide screen 16:9	No Change
	02 or more buttons for remote control of the CCU and accessories.	No Change
	· Automatic optimization of all settings.	No Change
	· White balancing possible from the CCU as well as from the sterile field.	No Change
	· Minimum Signal to Noise ratio of 60 decibels (dB).	No Change
	· SDI/HDMI/DVI / BNC/S-VHS/ RGB output	No Change
	· Light weight camera head	Light weight camera head max- 500 gm
	· C-Mount Zoom coupler between 15-32 mm	C-Mount Zoom coupler 15 mm or more
	Full High Definition Camera Control Unit	No Change
	· ACG Microprocessor controlled	No Change
	· Video Outputs: HDMI/SDI/ DVI / S-Video, (Y/C), Composite/ HD-SDI	No Change
	· 1920 x 1080p HD True Colour	No Change
	USFDA/European CE (Issued by notified body/Declaration of conformity according to the EU MDR 2017)	No Change
	<u>High Definition Medical Grade Monitor</u> (26" or more)	No Change
	· Medical grade LCD monitor, flat screen	No Change
	· Ability to display High Definition Resolution of 1920 X 1080p	No Change
	· Wide Screen and aspect ratio of 16:9	No Change
	· Compact control buttons on the sides of the panel	No Change
	· Screen diagonal 26" or more	No Change

· Monitor stand compatible with monitor	No Change
USFDA/European CE (Issued by notified body/Declaration of conformity according to the EU MDR 2017)	No Change
<u>High Definition Medical Grade Monitor</u> (26" or more)	No Change
· Medical grade LCD monitor, flat screen	No Change
· Ability to display High Definition Resolution of 1920 X 1080p	No Change
· Wide Screen and aspect ratio of 16:9	No Change
· Compact control buttons on the sides of the panel	No Change
· Screen diagonal 26" or more	No Change
· Monitor stand compatible with monitor	No Change
USFDA/European CE (Issued by notified body/Declaration of conformity according to the EU MDR 2017)	No Change
<u>LED Light Source Specs</u>	No Change
· Light Source Type LED (Light Emitting Diode)	No Change
· Color Temperature 6000-7000° K	No Change
· LED Life 30,000 hours or more	No Change
· Light Guide Adaptor Turret type to fit your choice of light cable	No Change
· Brightness Control 0-100% Dimming	No Change
· Input Voltage 100-240V AC, 50/60 Hz	No Change
<u>Fiber Optic Light Cable</u>	No Change
· Universal fibre optic cable with adapters. Not less than 4.5mm thick and 7-10 ft long.	No Change
<u>Arthroscopy Set (Arthroscopic, Sheath and Obturator)</u>	No Change
· Wide Angle, Direct View High Definition Arthroscopic	No Change
· Light Guide insertion on opposite side of the direction of view with a J-lock/ Luer fixation for cannula.	No Change
· Working Length of Not more than 180 mm	No Change
· Optimal centre-to-edge resolution for enhanced picture quality	No Change
· Angle of view: 30 degree	No Change
· Diameter 4mm	No Change
· Fiber optic light transmission incorporated	No Change
· Standard universal eyepiece for coupling the camera head	No Change
· Scratch resistance sapphire quoted tip lens	No Change
· Advanced Rod lens system for optimum brightness, contrast and definition	No Change
· Arthroscopies should be supplied with compatible cannulas high flow, double valve, fully rotatable with fenestrated tip & conical and blunt tip obturator.	No Change
Sheath- 5.50 to 6.0mm, high flow diagnostic cannula, double valve, fully rotatable cannula with fenestrated tip.	No Change
· Trocar-4.5mm conical obturator to fit with cannula.	No Change
Good quality Trolley compatible with Equipments should be supplied	No Change

	USFDA Registered / European CE (Issued by Notified body) / Declaration of conformity according to the EU MDR 2017) and ISO 13485	No Change
08	<u>External fixator (For District Hospital/SDH/CHC/PHC)</u>	No Change
1	Leg Set- consisting of commonly used tubular rod – 02 Nos., Schanz Screw 4.5mm -06 Nos and Polyaxial Clamps for above screw and rods – 12 Nos.	No Change
2	Femur Set – consisting of commonly used Tubular Rods -02 Nos, Schanz Screw 4.5mm, 5mm -03 Nos. each and Polyaxial Clamps for above Screw and Rods -12 Nos.	No Change
3	Forearm Set: Femur Set – consisting of commonly used solid rods for Forearm Fixator -02 Nos, Schanz Screw 3.5mm, 2.5mm - 03 Nos. each and Polyaxial Clamps for above screws and rods -12 Nos.	No Change
4	USFDA/European CE (Issued by Notified body) /BIS Approved model should be offered.	No Change
09	<u>Pneumatic drill (For District Hospital/SDH/CHC/PHC)</u>	No Change
1	The Cannulated Pneumatic Drill handpiece - Compatible with existing attachments	No Change
a.	Cannulation with 3.2 mm diameter	No Change
b.	Operating pressure : 6 - 7 bars (maximum 10 bars)	No Change
c.	Weight of handpiece 600-800grams without any attachments	No Change
d.	Power 120 w	No Change
e.	Variable Speed from 0-900 rpm	No Change
f.	Noise Level of max 75 db	No Change
g.	Separate forward and reverse triggers	No Change
h.	Safety Device to cut off air supply to drill on handpiece	No Change
i.	Handpiece is compatible with radiolucent drive	No Change
j.	Instant change between clockwise and counterclockwise rotation	No Change
k.	Offers reliable protection of soft tissues with oscillating drill attachment	No Change
l.	Fully Autoclavable	No Change
m.	Fully machine washable	No Change
n.	All Attachments can be fitted on single handpiece	No Change
o.	The reverse trigger automatically locks when the oscillating saw and the reduction drive attachments are attached to handpiece	No Change
2	Adapter for Lubrication	No Change
a.	For oiling of hand piece & Autoclavable	No Change
b.	Should be made of Stainless Steel	No Change
3	Double Air Hose	No Change
a.	Length 5 meters.	No Change
b.	It should be Autoclavable	No Change
c.	Should have concentric inlet and outlet pipes	No Change
4	Radiolucent Drive Precise aiming and drilling under image intensifier control for locking intramedullary nails	No Change
	Drill Bit diameter 2.0 to 4.5 mm,	No Change
	Length 100 to 150 mm,	No Change

	Usable length 80 to 120 mm	No Change
	Reduced exposure to x-rays	No Change
5	Jacob's Chuck attachment	No Change
	Chuck capacity up to 0 to 6.5 mm	No Change
	Cannulation of 3.2 mm diameter	No Change
	Maximum Speed of 900rpm	No Change
	Torque of 4-5 Nm	No Change
6	Quick Coupling attachment	No Change
	Cannulation 3.2 mm	No Change
	Maximum Speed: 900 rpm	No Change
	Torque of 4-5 Nm	No Change
7	Reduction Drive for Intramedullary / Acetabular Reaming with reverse option	No Change
	Reaming Speed of 300-350 rpm	No Change
	Reaming Torque of 12-14 Nm	No Change
	Option of attachment with reverse rotation	No Change
8	Quick Coupling for K-wire	No Change
	Continuous adjustment facility for wire diameter from 0.6 to 3.2 mm	No Change
	Speed up to 900 rpm	No Change
9	Oscillating Saw attachment with key	No Change
	It can operate on an oscillating frequency of 0 to 14,000 osc/min.	No Change
	Attachment can be locked in 8 different positions	No Change
10	Quick Coupling for drill bits	No Change
	Speed: 0–900 rpm	No Change
	Torque: 0–4.7 Nm	No Change
	Cannulation: 1.3 mm	No Change
11	Quick coupling for DHS / DCS triple reamers	No Change
12	Oscillating Saw Blades (All Sizes)	No Change
	For Trauma 6 For Joint replacement	No Change
13	6 Aluminium case for Pneumatic Drill system, Perforated, Autoclavable 1	No Change
14	Aluminium Box for accessory attachment, Perforated, Autoclavable 1 Technical Specifications for Pneumatic Drill Set – 1. Company should have relevant experience in successful execution of similar work at least in five Institutes of national importance and central government Institutes	No Change
3	Bidder must enclose original literatures & technical data sheet in the support of the technical bid.	No Change
4	Physical demo may preferably be arranged at the time of requirement.	No Change
5	Instruments quality should meet the international standard.	No Change
5	USFDA/European CE (Issued by Notified body) Approved model should be offered	No Change
	<u>Reamer (For District Hospital/SDH/CHC/PHC)</u>	No Change
1	Should be supplied with a driving unit including motor, stand, foot control, flexible shaft, tool kit and container.	No Change

2	Should have a cannulated drill hand piece of maximum speed 1200rpm with Non-corrosive Jacob chuck (0-1/4"). Autoclavable.	No Change
3	Should have a cannulated reaming hand piece with maximum speed 400rpm with AO type quick coupling. Autoclavable.	No Change
4	Should have a pistol grip sagittal saw with a set of 5 blades. Autoclavable.	No Change
5	Should have a flexible reamer shaft 8mm diameter fixed head.	No Change
6	Should have a flexible reamer shaft for detachable heads up to 12mm.	No Change
7	Should have reamer heads from 8mm to 12 mm (set of 9).	No Change
8	Should have reamer heads from 12.5mm to 15mm (set of 6).	No Change
9	Should have flexible reamer shaft for detachable heads up to 15mm. Autoclavable.	No Change
10	Should have an extra flexible shaft for driving unit autoclavable.	No Change
11	Should work with input 200 to 240Vac 50 Hz supply.	No Change
12	USFDA/European CE (Issued by Notified body) /BIS Approved model should be offered.	No Change
10	Arthroscopy Pump (For High End Arthroscopy System-Medical College & Hospital)	No Change
a	It should have electronic digital suction irrigation pump with 5'' or more colour touch LCD/LED screen display	No Change
b	It should have Precise presetting of flow and pressure of suction and irrigation parameters via. Touch Screen Display.	No Change
C	It should have built in low noise suction pump to allow simultaneous suction – irrigation process.	No Change
D	It should have multiple utility mode, like Laparoscopy, Hysteroscopy, Arthroscopy, Urology etc.	No Change
E	It should have irrigation pressure should be 10-400 mmHg or more.	No Change
F	It should have auto cut off facility for the preset amount of the fluid.	No Change
G	It should have preset multiple user setting for different surgeries.	No Change
H	It should have flow rate 100-1000 ml/min.	No Change
I	It should have display of total volume consumed.	No Change
J	It should have suction vacume bar 75Kpa or more.	No Change
K	It should have supplied with 2 ltr. Jar 02 nos.	No Change
L	It should have supplied with Y shaped irrigation tubing set.	No Change
M	It should have auto stop facility.	No Change