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Ref. No.: IGIMS/ 2019/ 597 **/ Store** **Date:** 19 **/08/ 2019**

CORRIGENDUM

Amendment Notice to the Tender Document bearing E-Tender Notice No.-02/2019-20/Biomedical Eqpt../IGIMS/Store for the Supply, installation and commissioning of Biomedical Equipment to the various dept. of IGIMS, Patna.

Amendments mentioned hereunder are notified:

Description	Specifications mentioned in the Bidding Document	Should be read as follows:
Group A – Reproductive Biology		
1. High End Color Doppler Ultrasound System		
S.No.1. Point No.12.	System should have scan depth of 2 to 40 cm or more. Please specify through data sheet.	• System should have scan depth of 2 to 38 cm or more. Please specify through data sheet.
S.No.1. Point No.15.	System should have facility for real time or frozen, pan or point zoom. Anatomic M-Mode. Should be available with, at least 3 M line cursors .System must provide TGC and LGC for proper gain adjustments.	• System should have facility for real time or frozen, pan or point zoom. Anatomic M-Mode. System must provide TGC and LGC for proper gain adjustments.
S.No.1. Point No.23.	System should have more than 10" wide LED Touch Screen Control.	• System should have more than 12" wide LED Touch Screen Control.
S.No.1. Point No.31.	The system should have a full alphanumeric keyboard and Customized Control panel & freely programmable, mode-sensitive 6 "color Touch command Screen which enable direct access to all basic and advanced system controls	• The system should have a full alphanumeric keyboard and Customized Control panel & freely programmable, mode- sensitive 12" color Touch command Screen which enable direct access to all basic and advanced system controls
	Add Optional	• Full Screen zoom facility for improved diagnostic confidence is preferred.
2. TRIGAS INCUBATOR		
Technical Specification	Should have drawer type incubator (A combination of box & bench top incubator) Should have four Individual Incubators in One to the Power of Cube Should have unique maintenance of optimum environment all the way. Should have Independent sliding and removal of all 4 incubator drawers out of the Cube. • 4 drawers with individual temperature and gas controls. • Each drawer should incorporate 12 x 35mm dishes or 6 x 60mm/centre well dishes or 4 x 4-	• Compact in size with dimensions: 400-900x 150-200 (mm) width x depth x height and Weight: 10 Kg-50 Kg. • Temperature range: 4 above ambient to 40 Celsius, Temperature accuracy:±0.2© to ±0.5 ©, temperature control accuracy: :±0.1©. • Flow control range:0 ml/min to 950 ml/minute, flow accuracy: the greater of ±10% or ±0.5 ml/min. • Operating humidity: 5% to 95% relative humidity non-condensing.

	well dishes. Should have. • All important alarm systems, independent for each drawer • Software controlled Overheat Prevention • Circuit Protector • CE marking Should have removable drawers Should have easy cleaning and access for maintenance. Should have autoclavable aluminium incubation blocks. Should have easy grip knob on the drawer Should have a useful latch & hinges on the lid Should have a strategically integrated Laser engraved water tray as part of the design. Should have digital PID controls to the accuracy of ± 0.1 Should have gas control algorithms	• Dual chamber tat can hold 8 to 12 culture dishes which can fit an array and other tissue culture dishes. Each chamber should have independent lid and temperature control and gases control. • Space saving- dual chamber or individual chamber that can hold 8 to 12 culture incubation chambers to ensure minimal stress and risk of cross contamination for the embryos. Significant space saving. • Heated chamber base plate and lid for homogeneous temperature distribution and stable environment for embryo culture. • Direct contact of heated base plate with culture dish to facilitate conductive heat transfer (no convection-style incubator) preferably an inbuilt gas mixer facility subunit is desirable or else should have connection of one source premix gas supply (typically 6% co2, 5% o2, balance N2) to several units of bench-top incubators. • An automatic gas purge following lid closure or faster recovery of pH to physiological range and should be designed such that minimal amounts of premixed gas maintains the physiological culture environment. • In built disposable humidification system and accessible external components to facilitate easy cleaning and maintaining. • Facility to label and designate embryo location within the incubator. • Temperature and Gas flow measurement of each chamber should be displayed continuously (24- hours) • In built disposable humidification system uses Pre-mix gas or separate gas cylinders several bench top incubators can be connected to oe source of supply. • Alarm alert system in case of power and gas failure. • Fast recovery: co2< 3 min, O2 < 4 min. • May have external Co2 Sensor. • Should preferably supply important accessories.
3. IVF Laser System		
S.No.3 point No.3	Laser and red-target locator built into 40x objective.	• Laser objective should be 25x/40x.
S.No.3 Point No.7	Laser power should be between 300-425mW	• Laser power should be safe & in between 100-425mW
	Add	• It should have integrated option for IMSI/polarization microscopy.
	Add	• It should be provided with computer & full

		accessories.
	Add	• Integrated SQL sever based patient & image database.
Group B – State Cancer Institute		
1. **VIDEO ENDOSCOPE UNIT HAVING UPPER AND LOWER GASTROINTESTINAL SCOPES**		
S.No.1 Point No.2	Should have Chrome endoscopy imaging (NBI/FICE-BLI/ I scan-OE/m BLU/S technology) and preferably dual focus Capacity for detailed mucosal study.	• Read Optional.
S.NO.1 Point No.5	Should have forward/auxillary water jet for mucosal cleaning	• Should have inbuilt forward & auxillary water jet in Upper GI Scope for mucosal cleaning.
S.NO.3 Point No.6	Should have forward/auxillary water jet for mucosal cleaning	• Should have inbuilt forward & auxillary water jet in Upper GI Scope for mucosal cleaning.
S.NO.5 Point No.1	Should be compatible with analog HD- SDI and DVI output for HDTV monitor should be available	Should be compatible with analog HD- SDI /DVI output for HDTV monitor should be available
S.NO.5 Point No.5	Optical chrome endoscopy imaging such as NBI/FICE-BLI/I scanOE/mBLU/S technology and HD plus videoscope.	• chromo endoscopy facility shold be with the processor
S.NO.5 Point No.12	Should have inbuilt light source or separate light source with NBI/FICEBLI/I scan - OE/m BLU/S technology imaging capacity/ HD plus video.	Should have inbuilt light source with with Chromo Endoscopy technology imaging capacity/ HD plus video.
S.NO.5 Point No.20	Video endoscopy workstation with space for accommodation of a LCD video monitor (26" or more in size), video processor, light source with scope hanger	Video endoscopy workstation with space for accommodation of a LED video monitor (26" or more in size), video processor, light source with scope hanger
	Demonstration: Demonstration of the quoted model of the endoscope at AIIMS Raipur is mandatory for technical evaluation and acceptibility.	**Demonstration**: Demonstration of the quoted model of the endoscope at IGIMS-Patna is mandatory for technical evaluation and acceptibility.
2. **Cystoscopy Set**		
S.NO.2 Point No.4	10 Fr	7 Fr
	Add	Working element, passive (thumb operated), monopolar, for single stem loops.
	Add	Resectoscope sheath compatible with above mentioned working element: Outer/inner (26 Fr/24 Fr), rotatable & continuous irrigation.
	Add	Visual Obturator, compatable with above mentioned resectoscope sheath
	Add	Cutting loop for bladder tumour: Qty-12
3. **Bronchoscope- Rigid and Flexible**		
S.No.3point No.4	Should have Narrow Band/ I-SCAN/ FICE Imaging facility.	Should have Narrow Band/ I-SCAN/ FICE /Spectra Mode /Imaging facility.
S.No.3 point No.5	Outer diameter should be 6.0mm or less.	Outer diameter should be 6.4mm or less.
S.No.3 point No.6	Channel diameter should be 2.0 mm or more.	Channel diameter should be 2.8 mm or

	Separate channels for Oxygen and suction	more.
S.No.3 Point No.7	Insertion tube length should be 600mm or more.	Insertion tube length should be 540 mm or more.
S.No.3 Point No.10	Angulation – UP-180 degree, Down-130 degree or better.	Angulation – UP-180 degree, Down-100 degree or better.
S.No.3 Point No. 13	Should have scope ID function.	Optional
S.No.3 Point No.16	The equipment should be supplied with the following standard accessories: A) LED Light Source (Xenon short arc Ozone free 300 Watt lamp): -Xenon / LED light with scope compatibility having lamp life of at least 500 hours. - Emergency halogen/LED light for backup. - 4 spare bulbs	The equipment should be supplied with the following standard accessories: A) LED Light Source (LED 150 W with lamp life of 30000 hours . - Emergency halogen/LED light for backup. - 4 spare bulbs
RIGID BRONCHOSCOPE SET	23. Cold light source 250 Watt -1	23. Cold light source LED 150 Watt
4. **Micro Drill And Saw System**		
S.No.1 point No.9	Able to change the setting of the BRAKING; Speed to provide hard or soft brake and acceleration of the handpiece	• Optional
S.No.1 Point No. 10	Torque sensing feedback capability	• Optional
S.No.1 Point No. 12	Should be able to store user setting for different surgeries	• Optional
Drill Handpiece	Should have facility of hand controlled hand switch also	• Optional
Micro saws :- **Sagittal Saw**	Maximum speed of 23000 cpm	Maximum speed of 15000-25000rpm
Oscillating Saw	Maximum speed of 22000 cpm	Maximum speed of 15000-25000rpm
Reciprocating Saw	Maximum speed of 18000 cpm	Maximum speed of 15000-18000 rpm
S.No.6	**6. Wire and Pin Driver :- 01** □ Maximum speed of 1500 rpm □ Trigger control for variable speed control on the handpiece. □ Cannulated for use with wires and pins. □ Forward/Reverse and oscillation mode controls on the headpiece.	Optional
S.No.7	**Pin Collet for Universal Driver--01**	Optional
S.No.8	**Jacobs Chuck with key-01**	Optional
S.No.9	**Wire Collet of compatible and suitable diameter-01**	Optional
5. **Laryngopharyngoscopy System**		
S.No.03	**Working Length=170 mm/ 170 mm**	Working length 170 mm or more
S.No.04	**down 130°**	**down 100° or more**
S.No.06	**175 Xenon light source**	LED 150 W

Last Date of Submission	21.08.2019 up to 5.00 PM	02.09.2019 up to 5.00 PM
Date of opening of technical bid.	23.08.2019 at 2.00 PM in Conference Hall of IGIMS, Patna (New Administrative Building)	04.09.2019 at 2.00 PM in Conference Hall of IGIMS, Patna (New Administrative Building)

The document also can be downloaded from www.eproc.bihar.govt.in and the IGIMS website www.igims.org.

Director
I.G.I.M.S, Patna

Copy to- Supt. Engineer (Biomedical Engineer): For Uploading on website/ Notice Board.

19/8/19

Director
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