

30.04.2022

**Amendment No. 3****Sub: Amendment to the referred tender enquiry****Ref.: HITES/PCD/AIIMS-IV/50/Mix/ 22-23 dated 17-03-2022 read with its Amendment No 1 and 2 dated 18.04.2022 and 18.04.2022**

The following changes are being incorporated in the above referred Tender Enquiry Document.

**SECTION – VII**  
**TECHNICAL SPECIFICATIONS**

<b>Item No 4 - CO2 Fraction Laser (2022_HLL_110121_4)</b>		
<b>Tender Page &amp; Para</b>	<b>TENDER SPECIFICATION</b>	<b>AMENDED AS</b>
Page 49, para c	Pulse energy:1-200MJ (adjustable)	Pulse energy:1-200MJ (adjustable) <b>to give a minimum fluence of 5.5 J/cm2</b>
Page 49, para d	Operative Mode: Continuous and Pulse mode	Operative Mode: Continuous and Pulse <b>(Ultra or Super pulse) mode</b>
Page 49, para e	Depth of Penetration: <b>1-2mm</b>	Depth of Penetration: <b>0-2mm (Adjustable)</b>
Page 49, BOQ - 5	CO2 Fractional Hand Piece, Spot size upto 1.5mm -1	CO2 Fractional Hand Piece, <b>Spot size 3mm and 5mm : 1 no each (OR) adjustable spotsize 3 to 5mm : 1 No</b>

<b>Item No 5 Transcranial Doppler (2022_HLL_110121_5)</b>		
<b>Tender Page &amp; Para</b>	<b>TENDER SPECIFICATION</b>	<b>AMENDED AS</b>
2	Should be supplied with 1.6/2 MHz PW probes (2 Nos.) for bilateral Intracranial Monitoring	Should be supplied with 1.6/2 MHz PW probes <b>(2 Nos or more)</b> for bilateral Intracranial Monitoring
4	Should have color M mode feature with able to re-adjust the 64 gates digitally per probe.	Should have color M mode feature with able to re-adjust the <b>64 gates or more</b> digitally per probe.
BOQ.7	16Mz Probe (Optional Price)	Reusable Intraoperative probe compatible with the quoted transcranial doppler 16 MHz or more - 1 No. <b>Price to be quoted separately.</b>
		<b>Added Para:</b> Should have Vasomotor Reactivity and Patent Foramen Ovale study - <b>optional</b>

		<b>Added Para:</b> Should have dedicated protocol for Vasomotor Reactivity study and Patent Foramen Ovale study- <b>optional</b>
		Added Para: Should have option for dedicated reporting format for Patent Foramen Ovale study - <b>optional</b>
		<b>Added Para:</b> Should have auto/optimal depth scanning option in all intracranial, extracranial and intraoperative studies - <b>optional</b>

06 - Cryostat (2022_HLL_110121_6)		
Tender Page & Para	TENDER SPECIFICATION	AMENDED AS
Page 51, para 1	Rotary Microtome facility with locks/brakes for motor and blocks safety	Rotary Microtome facility with manual and motorized locks/brakes for motor and blocks safety, <b>with chamber illumination light and UV disinfection facility, with corrosion-free Stainless Steel chamber with nano silver coating on the surface.</b>
Page 51, para 3	Section Thickness: 5 microns and up Calibrated 5-40 microns	Section Thickness: <b>1 to 40 or more microns with step distance of 0.5 micron</b>
Page 51, para 4	Knife holder for low and high profile disposable blades, <b>separate holder for fixed nondisposable blade</b>	Knife holder for low and high profile disposable blades
Page 51, para 7	Double compressor Freezer for Microtome chamber	<b>Single /Double</b> compressor Freezer for Microtome chamber
Page 51, para 8	Daily default auto-defrost system; condensate collection tank with easy detachment and emptying and automatic- full indicator for sluice tank	<b>Daily (24 hrs) default auto-defrost system ; condensate collection tank with easy detachment and emptying</b>
Page 51, para 12	Accessories: Thermocouple microprobe	<b>Deleted</b>
Page 51, para 14	Controller can be used as an independent digital thermometer and needle microprobe should be provided for this purpose	<b>Deleted</b>
Page 51, para 18.b	Low and high profile blades ( 3 boxes each of 50 blades)	Low and high profile blades ( <b>5 boxes</b> each of 50 blades)
Page 51, para 18.c	Anti-roll plates- at least 2 spares	Anti-roll plates- <b>6 Nos</b>

Page 51, para 18.d	Block holding chucks- at least 5 small and regular each.	Block holding chucks- <b>10 Nos small and 10 Nos regular.</b>
		<b>Added Para:</b> 18.e. Cryo microtome oil 200ml : 2 bottles

07 - Fully Automated Non-Contact Tonometer (2022_HLL_110121_7)		
Tender Page & Para	TENDER SPECIFICATION	AMENDED AS
Page 52, para 2	To measure intraocular pressure and corneal thickness without actual eye contact	To measure intraocular pressure and corneal thickness, <b>with integrated Pachymetry, and</b> without actual eye contact
Para 6	LCD display 5" or more	LCD / LED display 5" or more

08 - High End Operating Microscope (2022_HLL_110121_8)		
Tender Page & Para	TENDER SPECIFICATION	AMENDED AS
Page 52, para 8	Should have 0-180 degree inclinable binocular tube with converging optics	Should have <b>0-90 degree or more</b> inclinable binocular tube with converging optics. <b>Added Para : Binocular tube should have rotation of 180 deg or more.</b>
Page 52, para 09	Should have total magnification range from 4x to 20x or more	Should have total magnification range from <b>4.1 x</b> to 20x or more <b>in continuous mode.</b>
Page 52, para 10	Should have field of view from at least 9.5mm to 49mm or more	Should have field of view from at least <b>9.8mm</b> to 49mm or more
Page 52, para 11	Should have coaxial illumination by fiber optic light guide	Should have <b>stereo</b> coaxial illumination by : a ) fiber optic light guide <b>OR</b> b) direct LED illumination system.  <b>Added Para : In case of Halogen illumination system, facility of backup lamp along with automatic changeover function to be provided.</b>  <b>Added Para : Spare lamps of 5 Nos to be supplied with each microscope, in case of Halogen illumination.</b>
Para 12	Adaptable for assistant microscope with stereo co-observation tube with Beam splitter (80:20)/ (70:30) External/ integrated in the microscope body for additional Stereo co observation attachment/ documentation.	<b>Should provide</b> assistant microscope with stereo co-observation tube with Beam splitter (80:20)/ (70:30) External/ integrated in the microscope body for additional Stereo co observation attachment/ documentation.

Page 52, para 14	Should have heat absorbing and UV filters, retina protection device/filter, contrast enhancement aperture	Should have heat absorbing and UV filters, retina protection device/filter, contrast enhancement aperture / <b>Blue Blocking Filter</b>
Page 52, para 17	Should have rust free stand. <b>It should have LED illumination</b>	Should have rust free stand.
Page 52, para 21	Added Para 2: Equipment should be supplied with an integrated/external camera video recording system including CMOS/CCD camera and 22" LED monitor	Equipment should be supplied with an integrated/external <b>three Chip 4K Camera</b> video recording system including CMOS/CCD camera and <b>atleast 32" LED monitor.</b>
		<b>Added Para :</b> <b>Should have non-contact Wide Angle viewing system from OEM, with quick interchangeable lenses for Macula and peripheral view of the retina.</b>
		<b>Added Para : 13. SD Inverter should be integrated in the optical system both for the operating surgeon and assistant.</b>

09 - Arthroscopy System (2022_HLL_110121_9)		
Tender Page & Para	TENDER SPECIFICATION	AMENDED AS
Page 53, para 1.i	A full 4K high definition processor should have native resolution of 4096 x 2160 pixels system	A full 4K high definition processor should have native resolution of <b>3840 x 2160 pixels</b> system
Page 53, para 1.ii	High definition video processor for ICG fluorescence guided imaging by near infra-red light	<b>Deleted</b>
Page 53, para 1.ii.b	Video processor & Monitor having <b>BT 2020</b> video format to display true 4K color format	Video processor & Monitor having video format to display true 4K color format
Page 53, para 1.ii.c	It should have touch panel operation for easy control	<b>The video processing device should have touch interface or button interface operation for easy control.</b> <b>Added Para : The camera head should have controls for various functions.</b>
Page 53, para 1.ii.d	System should provide colour gamut of ITU-BT2020	<b>Deleted</b>
Page 53, para 1.ii.e	Should have AE (Automatic Exposure) – <b>Iris function</b>	Should have AE (Automatic Exposure)
Page 53, para 1.ii.h	Should have compatibility for selecting 3G-SDI or HD-SDI signal output (transmission method).	Should have compatibility for selecting 3G-SDI or HD-SDI <b>or HDMI</b> signal output (transmission method).

Page 53, para 2.b	System should have facility for optical contrast differentiation system and it should have special filter for observation of capillary vessels and fine patterns in the superficial layer of mucosa for early detection of lesions	<b>Deleted</b>
Page 53, para 2.c	Should have <b>Xmor-R</b> CMOS sensor providing high sensitivity and less noise for clear image	Should have CMOS sensor providing high sensitivity and less noise for clear image
Page 53, para 2.d	Should provide One-touch Auto focus function	Should provide Auto focus <b>or manual focus</b> function
Page 53, para 2.e	Should provide electronic Zoom Function (button controlled) – x 2.0 electronic zooming in 6 steps (x1.0, x1.2, x1.4, x1.6, x1.8, x2.0)	Should provide electronic Zoom Function (button controlled) – <b>x 2.0 electronic zooming in steps</b>
Page 53, para 3.ii	Should be compatible for fluorescence imaging for ICG applicationa	<b>Deleted</b>
Page 53, para 3.a	Powerful LED Lamp with emergency lamp facility	<b>Deleted</b>
Page 53, para 3.c	Built-in special filter for early cancer detection	<b>Deleted</b>
Page 53, para 3.e	Automatic switching to emergency lamp	<b>Deleted</b>
Page 54, para 4.i	Should be compatible with existing working 4K Ultra High Definition Laparoscopic System	<b>Deleted</b>
Page 54, para 4.ii	Should be compatible for ICG applications	<b>Deleted</b>
Page 54, para 4.ii.b	Reduced diameter (4mm) with high fiber density and 300cm in length.	Reduced diameter ( <b>3 to 5mm</b> ) with high fiber density and 300cm <b>or more</b> in length.
Page 54, para 5.a	Compatible with all processor of displaying 4K <b>and ICG</b> application	Compatible with all processor of displaying 4K application
Page 54, para 6.b	Should be a 4K UHD, <b>3D</b> & full HD medical grade video and still images recorder	Should be a 4K UHD & full HD medical grade video and still images recorder
Page 54, para 6.d	Recording media: Internal HDD (2 TB), External USB <b>and DVD-R</b>	Recording media: Internal HDD (2 TB) <b>and external USB port for storage</b>
Page 54, para 6.g	Should have simultaneous recording and playback feature	<b>Deleted</b>
Page 54, para 6.i	Should have integrated CD/DVD player and writer	<b>Deleted</b>

Page 54, para 6.k	Input / recording resolution: 4K UHD, 3D ,1080p ,1080i, 720p, NTSC & PAL	Input / recording resolution: <b>4K &amp; HD</b>
Page 54, para 6.m	User should have full control of the system from the sterile field via camera head buttons, <b>optical touch screen, optical</b> foot switch	User should have full control of the system from the sterile field via camera head buttons, foot switch
Page 54, para 6.o.a	Connectors; a. Input/output: DVI, S Video, 3G HD –SDI, composite & audio	Connectors; a. Input/output: <b>for 4K &amp; HD recording</b>
Page 54, para 6.o.b	Other interfaces: USB 2.0, USB 3.0 <b>RJ-12</b> , network RJ-45 and Remote control	Other interfaces: USB 2.0, USB 3.0, network RJ-45 and <b>Remote control (Optional)</b>
Page 55, para 6.p.a	foot pedal control	<b>Deleted</b>
Page 55, para 6.p.b	endoscopy remote head trigger	<b>Deleted</b>
Page 55, para 6.p.c	microscope RS-232 communications	<b>Deleted</b>
Page 55, para 6.q.b	foot pedal control -01 in no.	<b>Deleted</b>
Page 55, para 6.q.c	endoscopy remote head trigger -01 in no	<b>Deleted</b>
Page 55, para 6.q.d	remote control-01 in no.	<b>Deleted</b>

**All other contents of the Tender enquiry including terms & conditions remain unaltered.**

**Note:**

- I. Prospective Bidders are also advised to check the website regularly prior to the closing date and time of online submission of bids**