

PRE-BID CLARIFICATIONS / AMENDMENTS IN RESPONSE TO THE QUERIES RAISED BY PROSPECTIVE BIDDERS IN THE PRE-BID MEETING HELD ON 02.11.2018, 11.00 A.M IN THE CONFERENCE HALL OF OSMCL FOR THE SUPPLY & INSTALLATION OF ANATOMY EQUIPMENTS Bid Ref. No.: OSMCL/2018-19/EQP-ANATOMY (Retender)/12

Brief note on the Tender:

- Date & Time of release of bid -25.10.2018, 5 PM.
- Date & time of Pre-bid meeting - 02.11.2018, 11 AM.
- Date & time of Online bid submission Start Date - 06.11.2018, 11 AM.
- Last Date & Time of Online bid submission - 22.11.2018, 5 PM.
- Date & time of online Technical bid opening - 26.11.2018, 11 AM.
- Date of opening of Price Bid -To be informed to the qualified bidders.

The tender was published in:

1. The Indian Express & The New Indian Express
2. The Dharitri
3. E-tender Portal of NIC
4. OSMCL Website

- Total No. of prospective bidders/ representatives present in the pre-bid meeting are Eight **(08)**.
- The queries raised by the prospective bidders on the above mentioned tender references were thread barely discussed.
- The recommendations on technical specifications and pre-bid amendments with justifications are attached as **Annexure-A** and are unanimously accepted by the committee.

ANNEXURE-A

Queries relating to Technical Specification (Item wise)

Sl.	Item Name/ Particulars	Queries raised by the prospective bidders	Original Technical Specification	Clarifications/ Amendments in response to the queries.
1	Two Body Mortuary Cooler	Section VII Technical specifications (Pg No-53) Pt.13- Refrigeration System: Air cooled hermetically sealed compressor, CFC Free, ISI or CE marked	Refrigeration System: Air cooled hermetically sealed compressor, CFC Free, ISI marked	Amended Refrigeration System: Air cooled hermetically sealed compressor, CFC Free, ISI or CE marked.
		Section VII Technical specifications (Pg No-53) Pt.19- Under Other required accessories; chart recorder may be deleted as it is obsolete technology.	Chart recorder shall be supplied.	Amended The "Chart Recorder" under other required accessories is deleted.
		Section VII Technical specifications (Pg No-53) Pt.19- Under Other required accessories; the requirement of loading trolley and SS body tray may	Loading trolley and SS body tray shall be supplied.	Amended The Loading trolley and SS body tray should be supplied as standard with the mortuary; however stretcher on trolley shall

		be clarified as it comes standard with the mortuary equipment.		be supplied additionally along with the mortuary cooler.
2	Trinocular Fluorescence Microscope	Section VII Technical specifications (Pg No-54) Quoted model should be CE or USFDA or UL approved.	Quoted model should be CE (As pr IVD) or USFDA approved.	Amended Quoted model should be CE or USFDA or UL approved.
		Section VII Technical specifications (Pg No-55) Lens may be apochromatic only. Semi-apochromatic may be deleted.	Lens: Apochromatic	Amended Lens: Apochromatic (The term "semi-apochromatic is deleted.)
		Section VII Technical specifications (Pg No-55) Lens may be 10x eyepiece with minimum FOV of 22 mm.	Lenses: 10x/20x eye piece	Amended Lens: 10x eyepiece with minimum FOV of 22mm
		Section VII Technical specifications (Pg No-55) Infinity corrected optical system. Optics may be UIS2/DIN/ASTM international type.	Optical system: Infinity corrected optical system. Optics should DIN/ASTM international type.	No Change
		Section VII Technical specifications (Pg No-55) Objectives: May have minimum 5 (Quintuple position coded turret nosepiece with 10X, 20X, 40X and 100X oil objective lens.	Objectives: kindly mention the numerical aperture with minimum 4 nosepiece 10X, 20X, 40 X,100X Oil emersion	Amended Objectives: Should have minimum 5 (Quintuple position coded turret nosepiece with 10X, 20X, 40X and 100X oil objective lens and numerical aperture of each should be specified.
		Section VII Technical specifications (Pg No-55) 5 position Turret type condenser for bright field, phase contrast & dark field application	Condenser: Height adjustable Abbe condenser N.A. 1.25 with iris diaphragm (adjustable)	No Change
		Section VII Technical specifications (Pg No-55) Fluorescent Filters: Minimum 5 to 6 or 6 filter position or slot; with neutral density filter to control the fluorescence intensity instead of 4 to 5 filter positions.	Fluorescent Filters: Minimum 4 to 5 filter position or slot; with neutral density filter to control the fluorescence intensity instead of 4 to 5 filter positions.	Amended Fluorescent Filters: Minimum 5 to 6 filter position or slot; with neutral density filter to control the fluorescence intensity instead of 4 to 5 filter positions.
		Section VII Technical specifications (Pg No-55) 1) Green filter (excitation; 546 and emission 565 range) 2) UV filter (excitation range 360 to 400 nm) 3) Blue filter (excitation range 470 and emission 495 range) 4) Violet filter (excitation range 350 to 390 nm)	UV filter (excitation range 330/340 nm to 400 nm) 1) Green filter (excitation; kindly mention the excitation and emission range) 2) Red filter (excitation; kindly mention the excitation and emission range) 3) UV filter (excitation range 250 to 300 nm)	Amended 1) Green filter (excitation; kindly mention the excitation and emission range) 2) Red filter (excitation; kindly mention the excitation and emission range) 3) UV filter (excitation range 360 to 400 nm) 4) Blue filter (excitation; kindly mention the excitation and emission range)

			4) Blue filter (excitation; kindly mention the excitation and emission range)	
		Section VII Technical specifications (Pg No-55) Camera: High sensitive and high resolution CCD/CMOS cooled color camera with minimum of 5 mega pixel or more.	High sensitive and high resolution CCD color camera with minimum of 5 mega pixel or more.	Amended High sensitive and high resolution CCD/CMOS color camera with minimum of 5 mega pixel or more.
		Extra points needs to be added for better configuration 1. Microscope should be upgradable to DIC attachment in future. 2. Microscope optics should be of Japanese or German origin.		No Change
3	Penta Head Teaching Microscope	Section VII Technical specifications (Pg No-53) Quoted model should be European CE or USFDA or UL approved.	Quoted model should be CE (As pr IVD) or USFDA approved.	Amended Quoted model should be CE or USFDA or UL approved.
		Section VII Technical specifications (Pg No-53) a) Optical system may be infinity color corrected and DIN/ASTM may be deleted. and b) Infinity corrected optical system. Optics may be UIS2/DIN/ASTM international type.	Optical system: Infinity corrected Optical system. Optics should DIN/ASTM international type.	No Change
		Section VII Technical specifications (Pg No-53) a) Illuminator : Built-in-Koehler illumination for transmitted light 12V, 100W instead of 30W halogen bulb (pre-centered) light and LED not recommended and add built-in-IR-sensor for Auto ON-OFF b) Illuminator : Built-in-Koehler illumination for transmitted light 12V, 100W instead of 30W halogen bulb (pre-centered) light or LED	Illuminator : Built-in-Koehler illumination for transmitted light 12V, 30W halogen bulb (pre-centered) light or LED	Amended Illuminator : Built-in-Koehler illumination for transmitted light 12V, 100W halogen bulb (pre-centered) light or LED
		Section VII Technical specifications (Pg No-54) Revolving Nosepiece: Rotatable reversed coded sextuple	Revolving nosepiece :Interchangeable reversed Coded Sextuple	Amended Revolving Nosepiece: Rotatable reversed coded sextuple
		Section VII Technical specifications (Pg No-54) Condenser: Abbe condenser (N.A 0.9/.25 instead of 1.1) for 4X to 100X	Condenser: Abbe condenser (N.A 1.1) for 4X to 100X	Amended Condenser: Abbe condenser (N.A 0.9) for 4X to 100X
		Section VII Technical specifications (Pg No-54) a) Image Sensor: At-least 6 Megapixel resolution CMOS or CCD cooled Camera. Or b) Image Sensor: Full HD image sensor At-least 16 Megapixel CMOS or CCD Camera.	Image Sensor: At-least 16 Megapixel CCD Camera	Amended Image Sensor: At-least 16 Megapixel resolution CMOS or CCD Camera.

		<p>Section VII Technical specifications (Pg No-54) HD LCD display should be provided with HDMI output cable for HD monitor.</p>	HD LCD display should be provided	Amended HD LCD display should be provided with HDMI output cable for HD monitor.
		<p>Section VII Technical specifications (Pg No-54) a) Sensor resolution should be 2688X2200 pixel instead of 2048X1536 pixel. Or b) Sensor resolution should be 3264X1836 pixel instead of 2048X1536 pixel</p>	Sensor resolution: 2048X1536 pixel Image Resolution: 2048X1536	Amended Sensor & Image resolution should be 2688X2200 or more.
		<p>Extra points needs to added for better configuration 1. Microscope should be upgradable to 130 watt mercury fluorescence & DIC attachment in future. 2. Microscope optics should be Japanese or German type.</p>		No Change
		<p>Extra points needs to added for better configuration 1. Eyepiece may be 10x eyepiece with minimum FOV of 20 mm</p>		Amended Eyepiece may be 10 x eyepieces with minimum FOV of 20 mm.
		<p>Section VII Technical specifications (Pg No-54) Camera and analysis software should be separately quoted and supplied as per the requirement of the user.</p>	Additional point as per the user recommendation and discussion in the meeting.	The camera system and analysis software along with PC and all other accessories required for image storage and transfer should be quoted separately under Format-B of the price bid as price breakup of the whole system. The same shall be purchased for the user institutions as per their requirement.
4	Virtual Anatomy Dissection Table	<p>Section VII Technical specifications (Pg No-56) a)Real time 6 Axis Navigation with stylus should be removed as this point has no relation with virtual anatomy table Or b) Real time 6 Axis Navigation with stylus should be deleted as it is available with only one manufacturer i.e. Anatomage and may be purchased separately.</p>	Real time 6 Axis Navigation with stylus	No Change
		<p>Section VII Technical specifications (Pg No-56) Pt.8- Works with Live Person may be deleted as it is available with one manufacturer.</p>	Works with Medical Data & Live Persons	No Change
		<p>Section VII Technical specifications (Pg No-56) a) Screen Dimension: The touch screen display dimension should be 80 inch or above and multi touch surface 216 cm (57 cmx207 cm) or 85 inch (22.5"x81.5") may be amended to multi-touch single display surface 65</p>	The touch screen display dimension should be minimum 80 inch or above Touch Screen:- Multi-touch surface 216 cm (57 cmx207 cm) or 85 inch (22.5"x81.5")	No Change

	<p>inch or above. Or b) Screen Dimension: The touch screen display should be in single piece, dimension should be minimum 65 inch or above.</p>		
	<p>Section VII Technical specifications (Pg No-56) The following points may be incorporated in the specification for advanced and real case based training,</p> <ol style="list-style-type: none"> 1.It should allow the users to import own cases based on CT and MRI data and automatically reconstruct 3D models from Raw DICOM Files without any format conversion of the file. 2.The user-imported files should be automatically saved in that user's library, with possibility to access them on any device. 3.It should contain High resolution scanned histology slides, viewable at scanning resolution and the ability to view them from any touch or non-touch device. The histology slides should allow Artificial Intelligence tools, such as Ki67 cell counting, mitotic activity, automatic linking of different stains for comparison, and should allow annotations. 4.It should contain anatomy and dissection lessons. 5.The touch-screen should be capacitive to improve usability, with 10 simultaneous points. 6.Virtual Dissection table and workstation should run on full DICOM compatibility enabling the workstation to connect through LAN to servers in PACS Domain or DICOM Based. 7.The workstation should offer connectivity to an internet cloud platform database with real life anatomical CT and MR Library - allowing professors and students to access cases from any location, save their 		<p>No Change</p>

		<p>work and share their cases with other users.</p> <p>8.It should contain Education Portal with access to hundreds of cases prepared and authorized by specialist from around the world containing full detailing and labelling of pathological conditions and anatomical variations.</p>		
		<p>Section VII Technical specifications (Pg No-56) Pt. 14- a) Screen brightness may be amended to 450nit instead of 500/700nit as per industry standard. Or b) Screen brightness may be amended to 350nit or more instead of 500/700nit.</p>	<p>Screen Brightness :-500 nit /700 nit (Typical /Max)</p>	<p>Amended Screen brightness should be 350 nit or more</p>
5.	Dissecting Microscope	<p>Section VII Technical specifications (Pg No-57) High Resolution 5 megapixel with provision to attach with digital software and CCTV Camera and can be transmitted to Web. The Camera and analysis software should be separately quoted and supplied as per the requirement of the user.</p>	<p>High Resolution 16-32 megapixel with provision to attach with digital software and CCTV Camera and can be transmitted to Web</p>	<p>Amended High Resolution 5 megapixel with provision to attach with digital software and CCTV Camera and can be transmitted to Web. The camera system and analysis software along with PC and all other accessories required for image storage and transfer should be quoted separately under Format-B of the price bid as <u>price breakup of the whole system</u>. The same shall be purchased for the user institutions as per their requirement.</p>
		<p>Extra points needs to be added for better configuration as per the user recommendation and discussion held in the pre bid meeting.</p>		<p>1. It should be at least binocular with both transmitting and direct illumination. 2. Eyepiece may be 10 x eyepieces with minimum FOV of 20 mm. 3. Working Distance should be 97 mm or more 4. Illumination must be LED type(Ring type)</p>
6.	Connect Lab & Digital System	<p>Section VII Technical specifications (Pg No-58) Please specify the size of LED projection system to be 65 inch or more.</p>	<p>The system should be provided with latest open board architecture with independent graphics card and power back and latest LED projection system all housed in a modular trolley mounting.</p>	<p>Amended The system should be provided with latest open board architecture with independent graphics card and power back and latest LED projection system of size of 65 inch or more all housed in a modular trolley mounting.</p>

Corrigendum

The clause "Payment can be released through inland irrevocable Letter of Credit after fulfilment of contractual obligations" under General Conditions of Contract (clause no- 6.30.2) is deleted. (Typographical Error)

N.B:

1. The amendments mentioned above are to be treated as amendments in the technical specification(s) and term(s) and condition(s) of the above tender reference. All other technical specifications and terms conditions remain unchanged.

2. Since any text in the price BOQ can't be changed in the e-tender portal, the amendments mentioned in the specifications above are to be treated as amendments in the price bid/ BOQ also.

**Sd/-
Managing Director
OSMC**