

TECHNICAL EVALUATION REPORT (SUMMARY)

1. Name of Procuring Agency: University of Health Sciences Lahore
2. Method of Procurement: Single Stage two Envelopes
3. Title of Procurement: Procurement of Laboratory Equipment for Oral Biology Department, University of Health Sciences, Lahore
4. Tender Inquiry No: UHS/Pur/1144/21
5. Date & Time of Bid Closing: 19.02.2021, 11:00 AM
6. Date & Time of Bid Opening 19.02.2021, 11:30 AM
7. Nos. of Bids Received: 10

Sr. No	Item	Specifications	Quantity	VENDORS PARTICIPATED									
				Technology Links	Raab Scientific	Latif Brothers	Forcare	S.U Enterprises	Key Scientific	Uni Brand	Advance System	Med lab	Human Health Care
<u>1</u>	Intra Oral sensor for dental x-ray	<p>General Used for intraoral dental radiography based on CMOS (complementary metal-oxide semiconductor) technology Should have single-chip CMOS so to reduce patient's exposure & provide high quality images Sensor should employ a fiber-optic plate with CSI scintillator for x-ray to light conversion The FOT (fiber optic plate) should be of a xray attenuating material that should reduce -x ray absorption on the end CMOS photosensor array , thus minimizing x-ray induced noise at photo-sensor array Scintillator should give a high-resolution performance as compared to conventional phosphor Compatible with all general types of X ray generators Should be waterproof , easy to disinfect, clean and store with rounded edges having a smooth even surface Flexible and damage/tear resistant cable. Connectivity USB: 2.0 Sensor cable length: 2m- 2.70m It should license at least 10 network users Technology Fiber-optic based CMOS Photodiode detector: positioned outside of sensitive area Exceptional image quality : high resolution with striking contrast Maximum absorbed current: up to 275 mA Sensor Size External dimensions: Size 1: 25.4 x 36.8mm Thickness: 4.8 mm Active surface area: 600nm (20x30 mm)</p>	02	Not quoted	Not quoted	Not quoted	<u>Qualified</u>	Not quoted	Not quoted	Not quoted	Not quoted	Not quoted	Not quoted

		<p>Controller: Technology: CMOS Photodiode (fiber optic) +Csl Scintillator Theoretical resolution: 27 lp/mm Pixel Size: 18-20 µm Dynamic range- 12bit Electric connections: both AC & DC technology (50-60 kv or500mA) Software Specifications: Multiplatform option, Advanced image filters, Wide variety and customization of templates for the Full Mouth series exams, Simulation of implant measurements and medical reports with teething preview. Voice guidance option for image acquisition. Import / export of images in DICOM formats, Print images with design customization Should be compatible with majority of patient management systems Make: UK,USA,EU, Equivalent</p>											
2	Light Microscope	<p>To be used for viewing of routine histology slides and should have Easy, Ergonomic Manual Stage Movement with a low-torque stage The LED's color rendering index can be with a daylight filter and LED may have an estimated 20,000-hour lifetime. Should have Two eye pieces which can be adjusted by diopter adjustments Should have the following technical specifications: Universal Infinity Corrected UIS2 Optical System Built-in Koehler illumination (Fixed Field Diaphragm) LED Light Source consumption 2.4W or less, AC adapterFocusing of Stage height movement, coarse movement stroke: 15 mm or more Focusing of Stroke per rotation for coarse adjustment knob: 36.8 mm or more, Focusing stopper Torque adjustment for coarse adjustment knob Fine focus knob, minimum adjustment gradations: 2.5 µm or less Quintuple nosepiece with inward tilt Mechanical fixed stage, (W x D): 211 mm x 154 mm or more Stage Traveling range (X x Y): 76 mm x 52 mm or more Single specimen holder including rubber stage grip, Upgradeable to double specimen holder, sheet holder Specimen position scale Stage XY movement stopper Binocular tube FN 20, Tube Inclination 30 Degree, Interpupillary Distance Adjusting Range 48- 75m or more Wide field eyepiece 10X, FN20 or more</p>	01	Not quoted	<u>Qualified</u>	<u>Qualified</u>	Not as per BOQs Not Qualified	Not quoted	Not quoted	Not as per BOQs Not Qualified	<u>Qualified</u>	Not quoted	Not quoted

		Wide field eyepiece 10X, FN20 focusable or more Right-handle low position stage, specimen holder, including rubber stage grip Coarse and fine focusing knobs on both sides Universal Condenser NA 1.25 with 7 turret positions or more: Bright Field, Dark Field, PH1, PH2, PH3, Upgradeable to Fluorescent & 2X Objective Condenser Turret Lock-pin, AS Lock pin, Built-in Aperture iris diaphragm Plan achromat objective 4X/0.1, WD 18.5 or more Plan achromat Phase objective 10X/0.25, WD 10.6 or more Plan achromat Phase objective 40X/0.65, WD 0.6 (spring) or more Plan achromat Phase objective 100X/0.6-1.25, WD 0.13 or more Country of Manufacturer: UK/ USA/Germany/ Europe/Japan/ Equivalent											
3	Pharmaceutical Refrigerator + Freezer (2 in 1) with stabilizer	The equipment design must match the standard of IEC 61010-1 The equipment can come with the following specifications Features: - Microprocessor control for accurate temperature management. Unique cycle defrost system prevents temperature rising by shorter defrost cycles which activate after each compressor cycle. Open door indicator light with 15 minute delayed audible alarm adds to safety. Door design should be such that it reduces air loss during door opening. Refrigerator Specifications should be as follows Effective capacity: approx.176 Lit. or more Temp. Range: approx. +2°C to +14°C Ambient Temp:30-40°C External Material: Galvanized steel with baked on finish Internal material: styrene resin Insulation: Rigid polyurethane foamed in place Cooling method: Fan-forced air circulation Automatic Defrost: Cycle & Forced defrost without any command Compressor: Hermetic reciprocating type, 55W Shelves: 3 or more Load per shelf: 20kg Door: Doors with Glass window Safety functions : Over-heat protection, Over-cool protection Interior Light : 1 x 10W Freezer Specifications should be as follows	01	Not quoted	Not quoted	Not quoted	<u>Qualified</u>	<u>Qualified</u>	<u>Qualified</u>	Not as per BOQs <u>Not Qualified</u>	Not quoted	Not quoted	Not quoted

		<p>Internal dimensions can be : approx.(WxDxH) 420 x 342 x 267mm Volume interior: 39 Lit. or more Temperature : - 20°C- 30°C Ambient Temp:30-40°C Internal material: Colored aluminum plate Compressor :Hermetic reciprocating type, 55W Cooling method: Direct cooling Shelves: 1-2 Load per shelf: 10kg Main Unit Specifications should be as follows: Doors : 2-4 Temperature lock: Yes Maximum Noise: 35 dbA Access port: 2 Sensor: Thermistor sensor Alarm & safety:High/low temperature alarm, Door open alarm, Power Failure, Memory back-up during power failure, Self-diagnostics of sensor and fan motor, door key lock Should come with its stabilizer Country of origin: UK/USA / Germany / Europe/Japan/Equivalent</p>											
4	Tissue embedding station	<p>Bi-modular embedding center, consisting of two consoles, with a robust construction design. This flexibility should allow cryo console to be positioned to the right or to the left of the dispensing console, according to the preference of the user. Control panel can be located on the front allowing easy access to both dispensing and cryo console. Main console should have following specifications</p> <ul style="list-style-type: none"> • Large paraffin capacity reservoir (6 liters). • Bright light up the working area. • Cold spot for specimen orientation and large Adjustable magnifier. Wide heated working area, with 6 holes for forceps. • Heated drawers to collect the excess of paraffin. • Histo-Trim integrated in both sides of the plate for rapid cleaning of the blocks. <p>Cryo console</p> <ul style="list-style-type: none"> • The cooling plate can be used for both embedding and for microtome cutting operation. • The cold plate has a new frame all around the stainless steel surface which improves cooling performances and prevents the dropping of water around the instrument. <p>Technical features</p> <ul style="list-style-type: none"> • Dimensions overall: approx. 90x68x42 cm (WxDxH) 	01	Not as per BOQs Not Qualified	Not quoted	Not quoted	Not as per BOQs Not Qualified	Qualified	Not quoted	Qualified	As per PPRA two quotations of same items are not permissible Not Qualified	Not as per BOQs Not Qualified	Not as per BOQs Not Qualified

	<ul style="list-style-type: none"> ▪ Weight: approx. 60 kg (two modules) ▪ Working Voltage: 220 V/50 Hz (110V/60 Hz, optional) ▪ Power: ~ 1000 W. Make: UK/ USA/ Europe/ Japan/ equivalent 																		
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Item 2: Light Microscope: Vendor: ForCare : Universal Infinity Corrected UIS2 Optical System is not present in specifications of the instruments, Vendor Unibrand: Universal Infinity Corrected UIS2 Optical System is not present in specifications of the instruments, make is also not specified.

Item3: Pharmaceutical Refrigerator + Freezer (2 in 1) with stabilizer: Vendor Unibrand has quoted refrigerator machine that has no freezer present

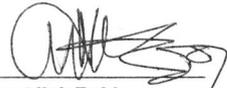
Item 4: Tissue Embedding Station: Vendors Technology Links, Medlab and Human Health Care have quoted tri-modular model which is not as per BOQs., Vendor Forcare has quoted machine whose dimensions in bid documents and in technical brochure do not match and thus cannot be technically evaluated, the cold plate size is also small.

All technical bids were evaluated against the laid specifications and comparative statement (summary/detail) is being submitted to Chairman Tender Committee and Incharge Purchase Cell for further necessary action.

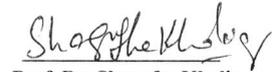


Dr. Sarah Ghafoor
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o Complaint Shall be entertained after 07 days of display of Technical Evaluation report.



Dr. Allah Rakha
Chairman, Tender Committee, UHS



Prof. Dr. Shagufta Khaliq
Incharge, Purchase Cell, UHS