TECHNICAL EVALUATION REPORT (SUMMARY)

1. Name of Procuring Agency: University of Health Sciences Lahore

2. Method of Procurement: Two Stage two Envelopes

3. Title of Procurement: Purchase of Laboratory Research Equipment under UHS Annual Budget Session 2018-2019

4. Tender Inquiry No: Pur/723 /UHS/2019

5. Date & Time of Bid Closing: 14-06-2019 at 11:00 AM 6. Date & Time of Bid Opening 14-06-2019 at 11:30 AM

7. Nos. of Bids Received: 13

8. Criteria for Bid Evaluation: Technical Qualification

			2012 25 20 20 20			Similar Program		Ve	ndors particip	ated					
			1	2	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	7	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>
No	Items	Specifications	Biosphere Marketing	Chemical House	H A Shah & Sons		Medinostic Health Care		Rays Technologie s	S.U Enterprises	Scien Tech	Shazup Internationa	Sure Bio diognostics	The World Wide Scientific	Pakistan Hospital Industria lab.co
MUN	OLOGY DEPARTMENT						are to be set the first the set								
	Gel-Documentation	Gel Documentation System consisting of UV Trans illuminator, White light conversion plate, Data acquisition and analysis software, compute and LaserJet printer, Ethidium Bromide filter in filter wheel along with dark cabinet. Key Features: Illumination viewing surface area 21cm x 21 cm, Transmitting wavelength 300nm Reflecting wavelength: 254-365 nm CCD Camera having pixel density 1280 x 102 or better. Electronic shutter Standard computer interface Analysis Software: Gel Document Imaging System analysis software with operation interfaces, compatible with tif, jpg, bmp and gif.	Not Quoted	Quoted as per BOQs Qualified	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Quoted as per BOQs Qualified	Quoted as per BOQs Qualified	not Quoted	not Quoted	Quoted as per BOQs Qualified	Quoted as per BOQs Qualified	Quoted a per BOQ
		Volume: 1000L Operating													
		Temperatur 0°C to +7.2°C	Quoted as						Quoted as	Quoted as		Quoted as	Quoted as		

Multichannel F	Lighting: Voltage Supply: Fully Autoclavable Range (0.5-350ul)	Qualified Quoted as	Not Quoted	Quoted as		Not Quoted	Not Quoted	Qualified Quoted as per BOQs Qualified	Qualified not Quoted	not Quoted	per BOQs Qualified Quoted as per BOQs Qualified	per BOQs Qualified Quoted as per BOQs Qualified	Quoted as	Not Quoted
I I	IMENT													
Biomedical Refrigerator	 Capacity(L/Cu.Ft) 278 or more /9.8 or larger 	Quoted as per BOQs Qualified	Not Quoted	The company has quoted refrigerator of 1 to 11 C which does not meet our specification as we require - 20to -40 biomedical refrigerator Not qualified	Not Quoted	Not Quoted	Not Quoted	per BOQs	Quoted as per BOQs Qualified	not Quoted	Not Quoted	We need an	Quoted as per BOQs Qualified	Not Quoted

Temperature range [°C] +5-100 °C Quoted as Temperature accuracy at 37°C[°C] ±0.1 per BOQs Water Bath Not Quoted Not Quoted Not Quoted Not Quoted not Quoted Not Quoted Qualified Qualified Qualified Qualified Qualified Qualified Qualified Capacity 20 Liter Have Circulating pump Overheating protection should be present Temperature sensor Stainless steel body High temperature resistant and corrosion free lid made up of stainless steel **HUMAN GENETICS DEPARTMENT** Thermoblock of at least 24 reaction vessels (or better) for 1.5 ml tubes. as speed Temperature settings of 4-100°C, temperature control range is less range of 15°C below ambient to 100°C or better, Quoted as Quoted as quoted as Quoted as temperature accuracy of ±0.5°C at 37°C or better. than per BOQs per BOQs per BOQs per BOQs Dry incubator and mixer Not Quoted required Qualified Qualified Qualified Qualified Not Max. speed of 1400 rpm, mixing frequency of 300-Qualified 1400 rpm or better and mixing orbit diameter of 3mm or better. Origin: EU/UK/USA/Canada. Features should include monochromator-based system for wavelength selection (step size 1 nm, bandwidth < 2.5-5 nm or better), spectral scanning and support for endpoint, kinetic and spectral assays. Compatible with microplates 96 or 384 well format. wavelength range is less

7.	Microplate Spectrophotometer	Wavelength range from 200nm up to 1000nm, OD range of 0-3 or better, linearity ≤ 2% or better and accuracy 1% at 0-2 OD or better, reading speeds of 15 seconds per 96 well plate or better. Dedicated software control for data collection, analysis and export. Capability of onboard incubation with temperature control and direct micro-volume quantification of DNA/RNA and protein will be a plus point. Quote PC support separately. Origin: EU/UK/USA/Canada.	Not Quoted	required in BOQs. The quoted instrument is not monochrom	atic	Not Quoted	not Quoted	than the	quoted as per BOQs Qualified	not Quoted	Quoted as per BOQs Qualified				
8.	Cell sonicator	Features should include full amplitude control (amplitude intensity control from 1-100%), auto tuning, programmability, high reproducibility and selection choice for probe size according to volume processing requirements. Power at least 200 Watts or better, volume processing range of 0.2-1000 ml, adjustable pulse on/off, compatible with different sample vials especially Eppendorf tubes. Touch screen controls and ability to proceed multiple samples by indirect sonication will be a plus. Origin: EU/UK/USA/Canada.	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	per BOQs	Quoted as per BOQs Qualified	not Quoted	Not Quoted		as no information available about compatiblity with different sample vials especially Eppendorf tubes. Ability proceed multiple samples by indirect sonication is not quoted. Selection choice for probe size according to volume processing requirements is not available. Not Qualified	Not Quoted
AHS A	ND ORAL PATHOLOGY	DEPARTMENT		1			1	1		1	T	I	Ι	T	
		BioRad/ Eppendorf/ equivalent													
•		•			•	•	•	•	•	•	•	•	•	•	. '

• Technology: Gradient with a range of 30-100°C Gradient efficacy: ±0.5°C of set temperature Gradient As only three Range 35-• Gradient range at one time: ≥8 gradients 100°C, we temperature ranges temperature asked for 30can be set at 100°C Due to • Temperature range:4-100 ⁰C/sec Due to a time. 8 absence of Origin China possible absence of Quoted as Origin UPS Quoted as and UPS not Quoted as Thermal cycler UPS per BOQs temperature Not Quoted Not Quoted Not Quoted not Quoted China as Not Quoted • Sample Capacity: 96-well plate, 96 x per BOQs available per BOQs setting is written on 0.2 ml tubes, 0.2 ml tube strips Not Not Qualified required at a website, we Qualified Qualified Not Qualified Qualified time asked for Qualified EU/USA/UK Maximum ramp rate: 4 ⁰C/sec Not Qualified Not Average ramp rate: 2.5 ⁰C/sec Qualified Display: Color Touch Screen USB Port: At-least 01 Origin: USA/EU/UK 2KVA UPS AHS DEPARTMENT BioRad/ Eppendorf/ equivalent Platform Shaker: Wave Rotation Speed range: 2 - 50 rpm Due to Due to • Due to Due to Due to absence of absence of absence of absence of absence of Max. Load: 5 kg wave wave wave wave wave wave rotation, rotation, rotation, rotation, rotation Operating Mode: Timer or continuous plateform quoted as Rpm are Rpm are Rpm are Rpm are Rpm are not available per BOQs Not Quoted Orbital Shaker much more Not Quoted Not Quoted Not Quoted Not Quoted Not Quoted much more much more much more much more • Rotation speed setting: electronic higher than higher than higher than higher than higher than Not Qualified control required required required required required qualified Min. Platform size:250 x 250 mm Not Not Not Not Not Qualified Qualified Qualified Qualified Qualified Accessories included: rubber mat Angle: 5°/10°

tomatic shoe cover	 Capacity of shoe cover: 1000pcs Design useful life: 300,000 times Operating voltage: 220V ±5% or 110± 													
tomatic shoe cover	 Capacity of shoe cover: 1000pcs Design useful life: 300,000 times Operating voltage: 220V ±5% or 110±5%, 													
tomatic shoe cover	 Capacity of shoe cover: 1000pcs Design useful life: 300,000 times Operating voltage: 220V ±5% or 110±5%, 													1
	 Design useful life: 300,000 times Operating voltage: 220V ±5% or 110± 5%, 						1	,	, h	•	•		4	4
	 Operating voltage: 220V ±5% or 110± 5%, 					1 '		1						
	5%,		1											
dispenser			Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted
	1													
	Film shaping time: 2-3s													
	Material of outer case: ABS													
	Gross weight: 27 Kg													
omatic Sensor Soap														
& Hand Sanitizer Dispenser	Brushed chrome coated material	Not Quotea	Not Quotea	Not Quotea	Not Quotea	Not Quotea	Not Quotea	Not Quoted	not Quotea	not Quotea	Not Quoted	Not Quotea	not Quotea	Not Quotea
	Capacity :600ml capacity													
	 Capacity 350 pounds ice flakes/ 24 hours 													
	Energy: 220 VoltsLegs: adjustable													
lodular Flaker Ice Machines	 Features: Steady flow of ice, low energy and water consumption, air cooled condenser, water line with a shut off valve, floor drain, the front side serviceable. 	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	per BOQs	per BOQs	per BOQs	Not Quoted	Not Quoted	per BOQs	Not Quoted
ξ Ι	Hand Sanitizer Dispenser dular Flaker Ice	Brushed chrome coated material Capacity :600ml capacity Capacity 350 pounds ice flakes/ 24 hours Energy: 220 Volts Legs: adjustable Features: Steady flow of ice, low energy and water consumption, air cooled condenser, water line with a shut off valve,	Brushed chrome coated material Capacity :600ml capacity Capacity 350 pounds ice flakes/ 24 hours Energy: 220 Volts Legs: adjustable Features: Steady flow of ice, low energy and water consumption, air cooled condenser, water line with a shut off valve, Not Quoted Not Quoted Not Quoted	Brushed chrome coated material Capacity :600ml capacity Capacity 350 pounds ice flakes/ 24 hours Energy: 220 Volts Legs: adjustable Features: Steady flow of ice, low energy and water consumption, air cooled condenser, water line with a shut off valve, Machines Not Quoted Not Quoted Not Quoted Not Quoted Not Quoted	Hand Sanitizer Dispenser Brushed chrome coated material Capacity :600ml capacity Capacity 350 pounds ice flakes/ 24 hours Energy: 220 Volts Legs: adjustable Features: Steady flow of ice, low energy and water consumption, air cooled condenser, water line with a shut off valve, Mot Quoted Not Quoted	Pland Sanitizer Dispenser Brushed chrome coated material Capacity :600ml capacity Capacity 350 pounds ice flakes/ 24 hours Energy: 220 Volts Legs: adjustable Features: Steady flow of ice, low energy and water consumption, air cooled condenser, water line with a shut off valve, Mot Quoted Not Quoted	Hand Sanitizer Dispenser Brushed chrome coated material Capacity :600ml capacity Capacity 350 pounds ice flakes/ 24 hours Energy: 220 Volts Legs: adjustable Features: Steady flow of ice, low energy and water consumption, air cooled condenser, water line with a shut off valve, Mot Quoted Not Quoted	Hand Sanitizer Dispenser Brushed chrome coated material Capacity :600ml capacity Capacity 350 pounds ice flakes/ 24 hours Energy: 220 Volts Legs: adjustable Features: Steady flow of ice, low energy and water consumption, air cooled condenser, water line with a shut off valve, floor drain the front side serviceable. Not Quoted Not Qu	Hand Sanitizer Dispenser Brushed chrome coated material Capacity :600ml capacity Capacity 350 pounds ice flakes/ 24 hours Energy: 220 Volts Legs: adjustable Features: Steady flow of ice, low energy and water consumption, air cooled condenser, water line with a shut off valve, floor drain the front citle sequiceable. Not Quoted Not Quoted	Hand Sanitizer Dispenser Brushed chrome coated material Capacity :600ml capacity Capacity :500ml capacity Capacity :500	Hand Sanitizer Dispenser Brushed chrome coated material Capacity :600ml capacity Capacity 350 pounds ice flakes/ 24 hours Energy: 220 Volts Legs: adjustable Features: Steady flow of ice, low energy and water consumption, air cooled condenser, water line with a shut off valve, floor drain the front ride sequicable Not Quoted Not Quot	Hand Sanitizer Dispenser Brushed chrome coated material Capacity :600ml capacity Capacity 350 pounds ice flakes/ 24 hours Energy: 220 Volts Energy: 220 Volts Energy: adjustable Features: Steady flow of ice, low energy and water consumption, air cooled condenser, water line with a shut off valve, floor drain the front side senziceable and condenser, water line with a shut off valve, floor drain the front side senziceable and condenser, water line with a shut off valve, floor drain the front side senziceable and condenser, water line with a shut off valve, floor drain the front side senziceable and condenser, water line with a shut off valve, floor drain the front side senziceable and condenser, water line with a shut off valve, floor drain the front side senziceable and condenser.	Brushed chrome coated material Capacity :600ml capacity Capacity 350 pounds ice flakes/ 24 hours Energy: 220 Volts Legs: adjustable Features: Steady flow of ice, low energy and water consumption, air cooled condenser, water line with a shut off valve, floor drain the front cities expired ble for the form cities expired ble for the cities can be compared to the cities and citi	- Brushed chrome coated material - Capacity :600ml capacity - Capacity :500ml capacit

0		The three-piece cabinet is easily removable from the front, of durable, rust-free roto cast plastic.													
	_	Origin US/EU.													
14.	Cell Freezing Container	As per sample picture. Compartments: minimum 18	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	not Quoted	not Quoted	Not Quoted	Quoted as per BOQs Qualified	Quoted as per BOQs Qualified	Quoted as per BOQs Qualified
15.	Cryogenic Gloves	As per sample picture.	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	1	Quoted as per BOQs	not Quoted	Not Quoted	Quoted as per BOQs	Quoted as per BOQs	Quoted as per BOQs
16.	CO ₂ Cylinder	Capacity: 35 KgWith Regulators	Quoted as per BOQs Qualified	Not Quoted		Qualified Not Quoted	Not Quoted		Qualified Not Quoted	Qualified not Quoted	Qualified Not Quoted				
17.	Hot Plate Analgesia Meter	 Surface Temperature Range: 30°C to 79.9°C precisely controlled to within 0.25°C across the plate Built-in Digital Thermometer Built-in Digital Timer RS-232 transfer of data Start/Stop foot switch control Extra thick (3/4") anodized aluminum plate provides a very stable and even temperature Size of Heated Surface: 10" x 10" x 0.75" (254mm x 254mm x 19mm) Temperature Range: 30° to 79.9° centigrade Temperature Accuracy: ± 0.1°C Surface material: Hard Black Anodized Aluminum Accuracy of Timer: 0.1 seconds 	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted

18.	Western Blot Assembly	 3 parts (Power assembly, Electrophoresis Chamber, Blotter, Nitrocellulose Membranes roll x2) 	Not Quoted	Quoted as per BOQs Qualified	Not Quoted	not Quoted	Not Quoted	Not Quoted	per BOQs	Quoted a per BOQs Qualified					
19.	Constant Speed 4 Lane Rota-Rod Treadmills for Rats	 Subject weight range: upto 60g- mouse drum, upto 350/400g- rat drum Base unit dimensions mm (inch) (WxDxH): 362x 240x 375 (14.25x 9.45x 14.75) Total height mm (inch): 400 (15.75) Fall height cm: 20- mouse drum, 21.5-rat drum Lane width mm (inch): 50 (2)- mouse drum, 75 (3)- rat drum Drum diameter mm (inch): 250 (9.8) 	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Quoted as per BOQs Qualified	not Quoted				
		 Rod diameter mm (inch): 30 (1)- mouse drum; 60 (2)- rat drum Extra hood height mm (inch): 130 (5) Constant speeds: 4- 40 RPM Acceleration rate: 30 seconds to 10 minutes with 1 sec increments Material composition: methacrylate arnite (lanes) Big digit timer/stopwatch four channels, each of which may be used simultaneously as count up stopwatches or in any 													
20.	Lab Timers	combination of countup/countdown.	Quoted as per BOQs	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	not Quoted	not Quoted	Not Quoted	Not Quoted	not Quoted	Not Quoted

• Can program it to count down from 99 hours, 59 minutes, 59 seconds in 1 second increments. Arctiko-Denmark -80°C Quoted as The freezer is already installed in the Only Door lock and 21. pharmacology laboratory. Gasket and door Not Quoted Not Quoted Not Quoted Not Quoted Not Quoted Not Quoted per BOQs Gasket of Freezer not Quoted Not Quoted Not Quoted Not Quoted lock needs replacement. needed. Qualified Sonicater Prope only of The sonicater probe needs Fischer Scientific 220A Not Quoted replacement not Quoted Not Quoted Not Quoted not Quoted Not Quoted Model CV334 or Adjustable temp, min water 23. Glassware washer Not Quoted consumtion,220 v, dryer enabled not Quoted Not Quoted Not Quoted not Quoted Not Quoted Quoted as Quoted as Quoted as Quoted as Nalgene 246 mm, 4/case, cabinet type, 24. Desiccator with plates per BOQs Not Quoted Not Quoted Not Quoted Not Quoted Not Quoted Not Quoted per BOQs per BOQs per BOQs 18x12x12" Not Quoted not Quoted Qualified Qualified Qualified Qualified Speed 1400 RPM, Integrated diaphragm vacuum pump, Quoted as Quoted as per BOQs Speed Vac Concentrator Capacity: 300 ml,70x1.5 ml, 2xMTP/Pcr Not Quoted Not Quoted Not Quoted Not Quoted per BOQs Not Quoted not Quoted not Quoted Not Quoted Not Quoted Inot Quoted & 6x15/50 ml, Qualified Qualified 4 heating levels for optimized drying spee, Desiccator mode Cytometer Performance: Counts cells or particles between 8 and 25µm.

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		• Dilution range for operation: (10,000-500,000 cells/mL). A sample size of 100µl is recommended.													,)	
		The cell counter's screen should display:														
26.	Automated Cell Counter/Scepture	Cell concentration Average cell size Average cell volume Histogram of size or volume distribution • Dimensions: (WxDxH) 22 x 21 x 9 cm (8.6 x 8.3 x 3.5 in) • Applications: Cell culture, cell counting, cell viability, quality control • Concentration: 1 x 10 ⁴ to 1 x 10 ⁷ cell/mL (optimal: 5 x 10 ⁴ to 1 x10 ⁷ cell/mL) • Detection: Automated microscopy • Method: Automated image-based cell detection (dye exclusion) • Sample Type: Cell lines • Type: Automated cell counter • Electrical Requirements: 100 to 240 VAC, 50/60 Hz, 1.5 A	Not Quoted	Quoted as per BOQs Qualified	Not Quoted	Quoted as per BOQs Qualified										
		 Cell Size Range: 5 to 60 µm Analysis Time: 7 s 														
		Viability Range Inqure														

	 Operating Range: 5X10⁴~ 1X10⁷ cells/ml Resolution: 800 X 480 pixels Sample Volume: 10 µL Interface7 in. capacitive touchscreen, 800 X 480 pixels Weight: 1.2 kg (2.6 lb) 												
27. Rocking Platform	 Speed range: 8- 40 RPM Motion: ± 7.5° tilting Platform dimensions (Wx D): 29x 27 cm Platform clearance: 9 cm Dimensions with double platform (Wx Dx H): 29x 21x 25 cm Maximum load: 10 lb. (4.5Kg) Temperature range 4-80° C Regulatory certification: CE compliant 	Not Quoted	Quoted as per BOQs Qualified	Not Quoted	Not Quoted	Not Quoted	Quoted as per BOQs Qualified	Quoted as per BOQs Qualified	Not Quoted				

28.	Wall Desk Drying Rack	Number of pegs per rack: 27 Pegs. Features of pegs: detachable PCR pegs, dimensions: 5inch (125mm) long, 0.35inch (9mm) dia. 6 rows of pegs, staggered rows. Built-in molded draining tray 22inch (550mm) x4.8 inch (120mm), with hole in the tray for drainage, supplied with 30 inch (760mm) of vinyl tubing. Rack dimensions: 22 inch (550mm) high x 16 inch (400mm) wide. Supplied complete with wall mounting bracket.		Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Quoted as per BOQs Qualified	Not Quoted					
PHARM	ACOLOGY/ ORAL BIOLO	OGY DEPARTMENT													
29.	PCR work Station	 Internal dimensions (WxDxH): 31x23x27 inch(minimum) vertical laminar flow air No ductwork required UV shelf with built-in pipettor holder Lab event timer Clear polycarbonate shell for 360° visibility UV and fluorescent lights 	Not Quoted	Quoted as per BOQs Qualified	Not Quoted	Quoted as per BOQs Qualified	per BOQs	Quoted as per BOQs Qualified	Quoted as per BOQs Qualified	Not Quoted					
		Vortex-Genie 220VMultiple Sample Head Starter Set							0	0	O make di m		0	0	

0.	Vortex mixer	 Large Sample Head, for beakers and Flask 	Quoted as per BOQs	Not Quoted		Quoted as per BOQs	Quoted as per BOQs	Not Quoted	Quoted as per BOQs	Quoted as per BOQs	Not Quoted				
		Replacement pop-off Cup head for vortex	Qualified						Qualified	Qualified	Qualified		Qualified	Qualified	
		Rubber cover for 3 in head													
MICRO	BIOLOGY DEPARTMEN	Ī													+
		Optical system: Should be infinity Optical System Eye piece: with diaptor ring, pair of 10x	1												
		magnification, Adjustable Interpupilary distance,												Not quoted	
		Eye point height adjustment									Not quoted as per BOQs			as per BOQs	
		Nose Piece: Revolving, Quadruple,									The			The microscopes	
31.	Microscopes	Objective: Antifungal coated, Spring loaded, Plan achromat, 4x, 10x, 40x, 100x (0il immersion)	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Quoted as per BOQs	Not Quoted	microscopes quoted does not have Kohler	Quoted as	Not Quoted	quoted does not have Kohler illumination	Not Quoted
		Stage: Mechanical stage with specimen holder							Qualified		illumination system	Qualified		system	
		Focusing: Coaxial Coarse focusing, fine focusing control on both sides, Focus Lock									Not Qualified			Not Qualified	
		Condenser: Abbe type													
		Power source: LED, Light intensity adjustable with Koehler Illumination													
		Complete Standard Set													
32.	Microwave Oven	30-40 Liter Capacity, clear glass front door	Quoted as per BOQs	Not Quoted	Not Quoted		Quoted as per BOQs	Not Quoted	Not Quoted	Not Quoted					
			Qualified									Qualified			
		All glass Borosilicate Glass fitted with metal element 3 KW													
34.		capacity 4 Litre per hour, conductivity 4 µs/cm, PH 5.5 to 6.5, wall mounted stand, run on single phase 220V,	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted		per BOQs	per BOQs	Quoted as per BOQs Qualified	Not Quoted	Not Quoted	Quoted as per BOQs Qualified	Not Quoted
		pridoo 220 v ,													

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35.	Adjustable Micropippete	100-1000µl, fully autoclavable	Quoted as per BOQs Qualified	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Quoted as per BOQs Qualified	not autoclavable	Quoted as per BOQs		per BOQs	per BOQs	Quoted as per BOQs Qualified
36.	Adjustable Micropippete	10-100 μl, fully autoclavable	Quoted as per BOQs Qualified	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Quoted as per BOQs Qualified	not autoclavable	Quoted as per BOQs	per BOQs	per BOQs	per BOQs	Quoted as per BOQs Qualified
37.	Adjustable Micropippete	e 1-10 μl, fully autoclavable	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Quoted as per BOQs Qualified	not autoclavable	Quoted as per BOQs	Not Quoted	Quoted as per BOQs Qualified	per BOQs	Quoted as per BOQs Qualified
MICRO	BIOLOGY /ORAL PATHO														
		1.5 ton, 16000 BTU split AC (quantity 02) 2 ton (quantity 01) Cooling Rated Capacity :6400 (2800 7000) W Cooling Rated Power Consumption : 2020 (730 2600) W	0-												
	1	Cooling Running Current :8.8 (3.4-11	1.4) A Quoted as per BOQs		Not Quoted	N-+ Overed	Not Ouoted	Not Quoted	Not Quoted	Not Quoted	Not Ounted	Not Quoted	Not Quoted	Not Quoted	Not Quoted
38.	Air Conditioners	Seer Cooling :3.6	I'm and	Not Quotea	Not Quoteu	NOT Quoted	NOL Quotes	NOI Quotes	NOL QUOLEG	NOI QUOICE	NOL QUOLES ,				

,	,														
		Heating Rated Capacity :6400 (2900-7200) W	Qualified												
		Heating Rated Power Consumption :2020 (800-2700) W													
		Heating Running Current :8.8 (3.6-11.8)	4												
		Low Voltage Operation :Yes													
ORAL	PATHOLOGY/ORAL BIO	LOGY/HISTOPATHOLOGY DEPARTMENTS													
39.	15 ml Centrifuge machine with UPS	Should be high accuracy of speed, RPM or G force can be set and displayed, Operation can be timed from 10 seconds to 99 minutes or continuous running, quick spins are possible by pressing and holding PULSE key. Maximum speed 300-6000rpm, 100 rpm increments, rotor capacity should be 8 x 15ml centrifuge tubes, Maximum RCF 2490×g, Run Time 10 secs to 99 mins Timer OR Continuous Operation, dimensions (L) 11.0 × (W) 10 × (H) 5.5 inches with 1 KVA UPS	per BOQs	Not Quoted	quoted as per BOQs Qualified	Not Quoted	not Quoted	not Quoted	quoted as per BOQs Qualified	quoted as per BOQs Qualified	not Quoted	quoted as per BOQs Qualified	quoted as per BOQs Qualified	quoted as per BOQs Qualified	not Quoted
40.	High speed Micro- Centrifuge machine 24-	1/138030 increments 1030 Speed Accuracy	Qualified	Not Quoted	quoted as per BOQs Qualified	Not Quoted	Not Quoted	Not Quoted	as per	per BOQs	per BOQs	per BOQs	per BOQs		quoted as per BOQs Qualified

41		Digital Weighing Balance Machine	Should be 7 weighing units (g, ct, ozt, oz, GN, dwt, lb), counting (reference number 1/10/20/50/100), tare function over 100% of the capacity, automatic calibration, spirit level, height adjustable feet and integral weighing below hook. Capacity should be 1000 g, readout d 0.1 mg, reproducibility 2 d, linearity (g), ±3 d, tare range 500 g, calibration weight 200 g, weighting plate Φ 80 mm, minimum weight 10 d, stabilization time <4 s, operating temperature 20°C ± 2°C, humidity 45~60% R.H, interface RS232, dimension (WxLxH) 220x360x345 mm and power supply 230 V.	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	quoted as per BOQs Qualified	quoted as per BOQs Qualified	Not Quoted	Not Quoted	Not Quoted	Not Quoted	
4	1 2.	Range 0.1-2.5 ul, 2-20 ul, 20-200 ul, 100-1000	durable shaft, UV resistant, recalibration system,	Quoted as per BOQs Qualified	Not Quoted	Quoted as per BOQs Qualified	Not Quoted	Not Quoted	not Quoted	quoted 0.2 - 2µL pipette which is not as per required	2μL pipette which is not as per required	Quoted as per BOQs Qualified	Quoted as per BOQs Qualified	as per	Quoted as per BOQs Qualified	Vender has quoted 0.2 - 2µL pipette which is not as per required specification therefore, Not qualified	

43.	Nanodrop machine with PC system & UPS	Software acciaro or equivalent sample intelligence technology to ensure measurement integrity, minimum sample volume 0.5 μL, software should be built-In, on-board, limit of detection dsDNA 2.0 ng/μL, maximum Conc. dsDNA 27,500 ng/μL, measurement time 8 seconds, measurement repeatability 0.002 A, wavelength range190–850 nm, wavelength accuracy ±1 nm, photometric range 0–550 A, photometric accuracy: 3% at 0.97 A, 302 nm spectral bandwidth ≤1.8 nm (FWHM at Hg 254 nm), pathlength 0.030 to 1.0 mm autoranging, light source Xenon flash lamp, detector 2048-element CMOS linear image sensoroperating system "Android™"/equivaler CPU Quad Core ARM® Cortex™-A9 Processor/equivalent, display 7-inch, 1280 × 800 high-definition color display. Should be touch screen multipoint capacitive touch, gesture recognition single point, single point hold, swipe and pinch, internal storage 32 GB flash memory, audio built-in speaker, connectivity USB-A ports, Ethernet and Bluetooth and certifications. Applications should be Nucleic Acid A260, A260/A280, A260/A230, Labeled Nucleic Acids; Protein A280 and A205, Protein Pierce 660, Protein Bradford, Protein BCA, Protein Lowry, Labeled Proteins, OD600, Kinetics, UV-Vis, and Custom Methods with 1 KVA LIPS	Not Quoted	Not Quoted	Not Quoted	Quoted as per BOQs Qualified	Not Quoted	Not Quoted	Quoted as per BOQs Qualified	Quoted as per BOQs Qualified	Not Quoted	Quoted as per BOQs Qualified	quoted as per BOQs Qualified	Not Quoted	Not Quoted
44.	Dry heat bath/Heat block (with Blocks)	Temperature regulation range should be +20°C-+125°C, temperature uniformity over the platform, Block Capacity 24x2 or 1.5 ml; 15x0.5 ml, 10x0.2 ml microtubes.	Not Quoted	Not Quoted	Vender quoted Thermal Mixer whereas dry heat blocker was required Not qualified		not Quoted	Not Quoted	Vender quoted Block Capacity 1, which is not as per required specification Not qualified	Not Quoted	Quoted as per BOQs Qualified	Not Quoted		Quoted as per BOQs Qualified	Vender quoted Block Capacity 1, which is not as per required specification Not qualified

45.	PCR work station with moveable bench	Minimum external Size (WxDxH) 1000x750x1950 mm, exhaust airflow volume 500 600 m³/h, material main body stainless steel, material work table stainless steel. Standard accessories should be spotlight; UV lamp; fluorescent lamp, exhaust system.	Not Quoted	Not Quoted	per BOQs	Quoted as per BOQs Qualified	Not Quoted	Quoted as per BOQs Qualified	Not Quoted						
46.	Microscope camera with software & PC system	Compatible with Olympus Bx43 (pentahead) Image Sensor: Color CMOS/equivalent, Sensor Type: MT9T001P12STC/equivalent, Sensor Size: 1/2 inch (6.55 mm x 4.92 mm), Resolution (max.): 2.048 x 1.532 pixels, Pixel Size:3.2 x 3.2 µm, Binning 2X, 3X, 4X, A/D Converter (Bit Depth) 10-bit, Exposure Time: From 57 µs to 750 msec, Live Frame Rates: 10 fps at 2,048 x 1,532 pixels (@ full resolution) 28 fps at 1,024 x 768 pixels (@ binning 2X) 37 fps at 680 x 512 pixels (@ binning 3X) 49 fps at 508 x 384 pixels (@ binning 4X).	Not Quoted	Quoted as per BOQs Qualified	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted					
ANAT	OMY DEPARTMENT														
47.	Safety Hood	Category: Class II Dimension: 4ft x 3ft x 7 ft	Not Quoted	per the required specification s	are not as per the required specification s	are not as per the required specification s <i>Not</i>	per the required specification s <i>Not</i>	are not as per the required specification s <i>Not</i>	Dimensions are not as per the required specification s Not Qualified	not Quoted					
		1-Model of human embryo fecundation, cleavage and blastocyst formation													

		2- Model of digestion, respiration, urogenital and coelomic arises (5parts)													
		3- Model of heart development (12 pcs)													
		4-Model of oral, nasal and oral nasal cavity (3 parts)													
		5- Model of facial development (5 parts)					Quoted Models are								
48.	Scientific Models	6- Model of lumbosacral vertebrae with pelvis	Not Quoted	Not Quoted	Not Quoted	Not Quoted	not as per our requirement	not Quoted	not Quoted	not Quoted	not Quoted	Not Quoted	Not Quoted	not Quoted	not Quoted
		7- The dissection model of brain natural size (8 parts)					s Not Qualified								
		8- Model of brain and cerebral arteries natural size													
		9- Model of brain, cerebral arteries and functional position with brain mantle (8 parts)													
		10- Model of brain stem and hypothalamus nucleus corps													
49.	Digital Camera for microscope with software	Olympus SC50 5 megapixels	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted		Quoted as per BOQs Qualified	not Quoted					
50.	Metallic moulds for	With software Shallow and deep	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Ouoted	Not Quoted	Not Quotad	not Quotod	Not Quotad	Not Quotad	not Quotod	Not Quotod
	paraffin Embedding Slide staining tray & Bar	·	Not Quoted		Not Quoted										Not Quoted Not Quoted
52.	Idok	Stainless steel cutter with Biohazard label	quoted as per BOQs Qualified		Not Quoted										

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53.	Digital Stop Watch	Q&Q/ Casio	quoted as per BOQs Qualified	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quot				
54.	Stethoscope	Littman, Dual head, Classic III, black/brown	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	not Quoted	Not Quoted
55.	BP Apparatus mercury with Stand	Certeza/ Omron	quoted as per BOQs Qualified	Not Quoted	Not Quoted	Not Quoted	Not Quoted	quoted as per BOQs Qualified	Not Quoted						
56.	Dry Ice Transport Cooler	Small Size polar Tech	Not Quoted	Not Quoted	Not Quoted	Not Quoted			Not Quoted						
57.	Slides Rack Stand	PVC/Plastic or Acrylic	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	not Quoted	not Quoted	Not Quoted	Not Quoted	not Quoted	Not Quoted
58.	LED for Histology teaching	4K, UHD 49``	quoted as per BOQs Qualified	Not Quoted	Not Quoted	not Quoted	not Quoted	Not Quoted	Not Quoted	not Quoted	Not Quoted				
59.	Polystyrene Tray Lab Drawer Organizer	Material polystyrene	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	not Quoted	not Quoted	Not Quoted	Not Quoted	not Quoted	Not Quoted
60.	Disposable weighing	Small	Sizes not mentioned, we required small size (?)10 pieces quoted (Required 5 packs) (?) Not Qualified	Not Quoted	Not Quoted	not Quoted	not Quoted	Not Quoted	Not Quoted	not Quoted	Not Quoted				
61.	Slide Trays for 40 slide	Material PVC													
62.	Inserts for funnels, beakers and lab Glass- wares	Material Plastic Dimension 1.5 ft x 3ft	Not Quoted	Not Quoted	Not Quoted	Not Quoted	not Quoted	not Quoted	Not Quoted	not Quoted	not Quoted	Not Quoted	Not Quoted	not Quoted	not Quoted
63.	Animal Ear Tag Punch	Plier/punch for small animals/ rodents	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	not Quoted	Not Quoted	Not Quoted	Not Quoted	not Quoted
64.	Radiology x-ray Illuminator	Standard size clinical use	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	not Quoted	Not Quoted	Not Quoted	Not Quoted	not Quoted
65.	Tool Box	Pliers and screw driver set	Not Quoted	Not Quoted	Not Quoted	Not Quoted	not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	not Quoted

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	Heavy duty Extension Leads	Chemillion / Black & Decker	Not Quoted	Not Quoted	Not Quoted	Not Quoted	not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	not Quoted
67.	Microscope Micrometers set	USA made	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	not Quoted
68.	Micrometer Digital (Screw gauge)	USA made	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	not Quoted
69.	Measuring Cylinder plastic	100ml, 500ml, 1000ml	quoted as per BOQs Qualified	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted
70.	Air Monitor for Formaldehyde & Organic Compounds	HCOH & TVOC both	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	not Quoted
' 1.	Camel Hair Brush for Microtomy	5 small and 5 large for microtomy - Local	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	not Quoted	not Quoted	Not Quoted	Not Quoted	not Quoted	Not Quoted
IAEMA	TOLOGY, FORENSIC SC	IENCES AND IMMUNOLOGY DEPARTMENT													
		Fully Autoclavable													
		> Ranges Required (Volume in μL):													
		• 0.2-2 (quantity 01)													
		• 0.5-10 (quantity 02)													
		• 10 – 100 (quantity 04)													
		• 100 – 1000 (quantity 05)													
72.	Micropipettes	➤ 1 channel Micropipette use with standard tips (quantity 02)	quoted as per BOQs <i>Qualified</i>		quoted as per BOQs	Not Quoted	Not Quoted	Not Quoted			per BOQs	per BOQs	per BOQs	per BOQs	quoted as per BOQs Qualified

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		➤ Eppendorf/Gilson/thermos/Equivalent											
HA	EMATOLOGY DEPARTMENT												
	Su	pply system includes;											
		➤ Electrophoretic Chamber											
		➤ Semi-micro Applicator for 6 samples											
		➤ Small Bridges for wet strips		· ·									
		➤ Large Bridge for dry strips							~				
		Supporting Power Supply											
		➤ Densitometry Software CD with security key											
		➤ Supporting Laptop compatible with software											
		> Supporting Printer											
		Supporting LIDS											
		Supporting UPS											
		Orbital Shaker with adjustable speed											
		➤ Buffering dry strips / plates											
		Plastic Containers for staining, de-staining and clearing											
		➤ Reagent set for running 150 samples against Hemoglobins and Proteins											
		➤ Warranty: Required											
		➤ Free Service Required											
	Thi	roughput:											
		➤ More than 04 samples Hemoglobin electrophoresis simultaneously in one row											
		➤ More than 04 samples High Resolution Proteins electrophoresis simultaneously											

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73.	Manual Clinical Electrophoresis System	 ➢ Electrophoresis Tank: ➢ Horizontal System for Cellulose Acetate Electrophoresis ➢ Accommodates strips and gels ➢ Platinum Electrodes. ➢ Economy Buffer Usage, Small Bridges (03): (For small cellulose acetate) wet strips, 5.7-14 cm Large Bridge (01) ➢ For large cellulose acetate wet sheets, 18.3x14cm or 18.3x17cm OR ➢ For three cellulose acetate dry plates OR ➢ For three pre-cast agarose gels Semi-micro Applicator ➢ For 6 samples on dry plates Power Supply ➢ Constant voltage ➢ Voltage Output: 10 – 300 V ➢ Current Output: 5 – 400 mA ➢ Max. Wattage: 80 W ➢ Timer: 1 Min. – 99 Hrs. ➢ Display: LCD Touch Screen. Densitometry Software ➢ Capable for analysis of: Serum protein electrophoresis Lipo-protein electrophoresis Lipo-protein electrophoresis Hemoglobin electrophoresis Capable to analyze on dry or wet cellulose acetate strips ➢ Agarose and other gels working with micro, semi-micro or macro applications 	Quoted as per BOQs Qualified	Not Quoted	Not Quoted	Quoted as per BOQs Qualified	Not Quoted	Not Quoted	not Quoted	not Quoted						
		semi-micro or macro applications. > Very high analysis speed, > Add or delete minima, baseline correction, graph correction, albumin correction > (Cellogel/Helena/Sebia/Equivalent)														
		 Microscope with LED illuminator binocular tube a pair of eyepiece 10X (F.N.20) 										Not as per required and				

74.	Binocular Microscope	 ➤ quadruple revolving nosepiece ➤ right-handle mechanical stage ➤ abbe condenser and plan objectives (4X, 10X, 40X, 100X), including AC adapter, Power cord, Immersion Oil 8cc, ➤ Dust cover ➤ Olympus Japan/Equivalent 	Not Quoted	quoted as per BOQs Qualified	not Quoted	is less than required (10x (F. N.20) therefore,	manufacturer website therefore; we could not verify sole distribution. Their microscope objectives and	l Not Quoted	Not as per required and notified specification s. Bidder has quoted the microscope whose field view (WF 10x/18 mm) is less than required (10x (F. N.20) therefore, Not qualified Not qualified	not Quoted	
75.	100X Objective for Olympus BX53 Microscope	 ➢ Plan achromat objective 100X/1.25, WD 0.13 (spring, oil) ➢ PLCN100XO ➢ Olympus Japan/Equivalent 	Not Quoted		quoted as per BOQs Qualified	not Quoted	not Quoted	Not Quoted	Not Quoted	not Quoted	not Quoted
76.	Improved Neubauer Chamber	 ➤ standard depth is 0.1 mm ➤ The grid consists of 3 x 3 large squares with areas of 1 mm² each. ➤ The large square in the center is subdivided into 5 x 5 group squares with edges of each 0.2 mm length and areas of 0.04 mm². ➤ These group squares are again subdivided into sixteen small squares of an area of each 0.05 mm x 0.05 mm = 0.0025 mm². ➤ It is used for cell counting ➤ Marienfeld/ Equivalent 	Not Quoted	not Quoted	not Quoted	Not Quoted	Not Quoted	not Quoted	not Quoted		

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FORENS	SIC DEPARTMENT														
77.	Refrigerator	Net refrigeration capacity 370L, net freezing capacity of -170L Dawlence/Haier/TLC or equivalent	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted
78.	Microcentrifuge	break, short spin speed limitation, lock separator button for RPM/RCF conversion,	Quoted as per BOQs Qualified	Not Quoted	Not Quoted	Not Quoted	Not Quoted	quoted as per BOQs Qualified		per BOQs	per BOQs	per BOQs	per BOQs	quoted as per BOQs Qualified	quoted as per BOQs Qualified
79.	Camera	24-120mm lens, 28-300mm lens, Wi-Fi availability,24.3 million mega pixels, video resolution 1920x1080 HD/ Nikon/Cannon/ Panasonic/ or equivalent	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted
80.	Nikon D5300 Camera Lens	18-300mm lens	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted
BIOCHE	MISTRY DEPARTMENT														
81.	Microliter Centrifuge Machine refrigerated	HERMLE (Germany) /Scilogox/ Equivalent	quoted as per BOQs Qualified	Not Quoted	quoted as per BOQs Qualified	Not Quoted	Not Quoted	Not Quoted	per BOQs	per BOQs	per BOQs	quoted as per BOQs Qualified	Not Quoted	quoted as per BOQs Qualified	not Quoted
82.	, ,	Electra Medical Corp, USA./Diamond Diagnostic / Audicom China / Equivalent	quoted as per BOQs Qualified	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	not Quoted	not Quoted	Not Quoted	Not Quoted	not Quoted	not Quoted
83.	(I) I-IU UL/	Gilson / Scilogex USA /Biohit Sortorius /Scilogox /Equivalent	quoted as per BOQs Qualified		quoted as per BOQs Qualified	Not Quoted	Not Quoted	Not Quoted	per BOQs	per BOQs	per BOQs	quoted as per BOQs Qualified	Not Quoted	quoted as per BOQs Qualified	not Quoted
PHYSIO	LOGY DEPARTMENT														
		Western Europe / USA / Japan		l			I	I	I	l		l l			'

Laboratory Freezer (- 84. 80°C) with UPS (10KVA)	Digital microprocessor controlled, Temperature range: -40 to -85C, Capacity: 393L Single compressor, Low energy consumption, Low noise level, Low heat dissipation, Insulated inner doors, Castors and door key lock, Ergonomic loading, Heated door frame, Heated vacuum valve, 100% HCFC/CFC free, Porthole for external temperature Probes, Approx. 72 hours battery backup for alarms, loggings and temperature display in case of power cut, Visual and acoustic alarm, Adjustable high/low temperature alarm, Power failure alarm, Probe failure alarm, Instrument failure alarm, Open door alarm, Contact for remote alarm, Prepared for GSM alarm, Integrated data logger (software included), RS485/232 Interface Computer USB data read out, Auto cycle if probe failure, Ambient temperature display Strows all alarms, Direct download/upload on/from USB memory stick, 3-level password protected Battery level indication, Integrated memory. New inner doors: Five polystyrene insulated inner doors help maintain cabinet temperature during openings and features embedded rare earth magnets, eliminating exposed magnets.	Not Quoted	while the quoted instrument is China made.	due to smaller	Quoted as per BOQs Qualified	Not Quoted	THE PROPERTY OF THE PROPERTY O								
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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.

HOD Human Genetics HOD Immunology HOD Anatomy HOD Pharmacology HOd Histopathology HOD Forensic Sciences HOD Oral Pathology HOD Microbiology HOD Biochemistry HOD Oral Biology HOD AHS

HOD Haematology

HOD Physiology Chemical Pathology

Chairman, Tender Committee