

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 Haematology Department,
University of Health Sciences, Lahore
4. Tender Inquiry No: UHS/Pur/1394/2022
5. Date & Time of Bid Closing: 22-03-2022 at 11:00 AM
6. Date & Time of Bid Opening: 22-03-2022 at 11:30 AM
7. No. of bids received: 08

Sr. No	Items	Specifications	Vendors							
			WWS	Chemical House	Pakistan Hospital	Pak Glorious	Info Tech	H.A Shah	New Chemical	Sure Bio
1.	Vortex Mixer	<p><u>Vortex mixer required with following technical features:</u></p> <ul style="list-style-type: none"> • Touch and continuous operations with wide speed range of 0-2500rpm • Separate Tube Adopter for 15 holes test tubes (1.5ml-2ml) • Step less speed 	Quoted as per BOQs Qualified	Not Quoted	Not Quoted	Quoted as per BOQs Qualified	Not Quoted as per BOQs (Speed is fixed instead of in range) (Not Qualified)	Not Quoted	Quoted as per BOQs (Qualified)	Not Quoted

		<p>regulator required for various mixing applications with optional adapters, handles up to 48 tubes</p> <ul style="list-style-type: none"> • Specially designed vacuum suction feet hold required to the work surface and to prevent the unit from movement • Aluminum cast base required to avoid unnecessary “walking” • Minimum Voltage required: 230 [VAC] with minimum Frequency 50/60 [Hz] • Minimum Power required: 60 Watt • Mixing motion should be: Orbital • Orbital diameter should be: 4 mm • Speed display should be: Scale type • Run type should be: Continuous/ touch 								
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		<ul style="list-style-type: none"> operation • Bio-Rad/M/S CLEAVER SCIENTIFIC-UK/Equivalent 								
Sr. No	Items	Specifications	Vendors							
			WWS	Chemical House	Pakistan Hospital	Pak Glorious	Info Tech	H.A Shah	New Chemical	Sure Bio
2.	Mini Centrifuge Machine	<p><u>Mini Centrifuge required with following technical features:</u></p> <ul style="list-style-type: none"> • Ideal for quick spin of micro tubes and PCR tubes • Supplied with 8x4 PCR strips place • Supplied with Micro tube (1.5/2.0ml) rotor • Rotor capacity of 1.5/2ml x 8 holes • Maximum Speed: 7000rpm • Compact design • Whisper quiet operation • Close the lid for acceleration and open the lid for deceleration, or use the on/off switch 	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

		<ul style="list-style-type: none"> Run Time: Continuous operation Driving Motor: DC motor Power: 240V Noise level(dB): ≤45 <p>Note:</p> <ul style="list-style-type: none"> Availability of service must required Bio-Rad/ M/s DLAB SCIENTIFIC /Equivalent 								
Sr. No	Items	Specifications	Vendors							
			WWS	Chemical House	Pakistan Hospital	Pak Glorious	Info Tech	H.A Shah	New Chemical	Sure Bio
3.	Refrigerated Centrifuge Machine with Touch Operation	<p><u>Refrigerated Centrifuge Machine required with following Technical Specification</u></p> <ul style="list-style-type: none"> Frequency: 50/60 Hz Rotor: 24 x 1.5/2 mL Voltage: 230 V Capacity: 24 x 1.5/2 mL 	Quoted as per BOQs Qualified	Not Quoted	Quoted as per BOQs Qualified	Not Quoted as per BOQs (Required Certifications not provided) Not	Not Quoted as per BOQs (Required Certifications not provided)	Quoted as per BOQs Qualified	Quoted as per BOQs Qualified	Quoted as per BOQs Qualified

		<ul style="list-style-type: none"> • Max. Speed: 14800 rpm • Max. RCF 21,100 x g • Minimum Noise Level: 50 dB(A) • Temperature Range: -9°C to +40°C • Certifications/Compliance Required: CSA, CE, IVD • Electrical Requirements 230 V 50/60 Hz • Refrigerated: Yes • Run Time: 1 to 99 min • Origin: M/s THERMO SCIENTIFIC / Bio-Rad/ Equivalent 				Qualified	Not Qualified			
Sr. No	Items	Specifications	Vendors							
			WWS	Chemical House	Pakistan Hospital	Pak Glorious	Info Tech	H.A Shah	New Chemical	Sure Bio
4.	Gloves Heat Resistant	<u>Heat resistant Gloves required with following Technical Specification</u> <ul style="list-style-type: none"> • Five finger glove with minimum 	Quoted as per BOQs Qualifi	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted

		<ul style="list-style-type: none"> length of 300mm Made of heat- and flame-resistant materials (Aramide fabric) For handling hot objects out of the autoclave or oven and protect from temperatures up to 350°C-550°C. Useable on both side Long type Latex free Powder free Origin: M/s ROTH-GERMANY/ Bio-Rad/ M/s DLAB SCIENTIFIC 	ed							Aramide fabric required)	
			Vendors								
Sr. No	Items	Specifications	WWS	Chemical House	Pakistan Hospital	Pak Glorious	Info Tech	H.A Shah	New Chemical	Sure Bio	
5.	Thermal Cycler for PCR	<u>Thermal cycler system for PCR should include following Technical Specification:</u> <ul style="list-style-type: none"> Sample capacity should be of 96 x 0.2 ml tubes, 0.2 ml 	Not Quoted as per BOQs Origin is not as specific	Quoted as per BOQs Qualified	Quoted as per BOQs Qualified	Not Quoted as per BOQs (Ramp rate less than specified)	Not Quoted as per BOQs (UPS not provided)	Quoted as per BOQs Qualified	Not Quoted as per BOQs (Gradient temperature not matched)	Not Quoted	

	<ul style="list-style-type: none"> • tube strips, or 1 x 96-well plate • Touch down PCR feature • Instant incubation capability • Temperature range: 4-100°C • Reaction volume: 1-100 uL • Gradient range of 30-100°C with differential range of 1-25°C • Ramp rates of 4°C/second • Temperature uniformity and accuracy of ±0.5°C. • Calculated and block based temperature control mode • PCR license and step based graphical programming • Minimum 5.7 VGA color touch screen • Memory of minimum 500 programs onboard, expendable with 	<p>d Not Qualified</p>			<p>Memory of minimum 500 programs onboard, expendable with USB flash drive not provided</p> <p>Not Qualified</p>	<p>(Reaction volume not provided) Not Qualified</p>	<p>(UPS not provided) Not Qualified</p>	
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		<p>USB flash drive</p> <ul style="list-style-type: none"> • System with easy programming • System with large color touch screen. • System with Intuitive interface • System with consistent results • System with Thermal gradient technology, easy optimization, easy protocol management and small space-saving footprint. <p>Note:</p> <ul style="list-style-type: none"> • UPS must required • Reagents and Kits must be ensured and guaranteed by the supplying firm in the local market. • Availability of service must required • Origin: USA/Europe/Japan 								
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Sr. No	Items	Specifications	Vendors							
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6.	Gel Doc System with software and UV/Stain Free sample tray	<p><u>Gel Doc (Gel Imaging System with Software) should include following Technical features:</u></p> <ul style="list-style-type: none"> • Benchtop imaging solution machine • High-resolution, publication-quality images of both nucleic acid and protein gels. • Special software required to capture images, add notes and export to print. • The system will be compatible with small and large format DNA gels. • The system should have the ability of high throughput applications; capture the images of up to four mini gels at once. • The system should 	Not Quoted as per BOQs (Camera resolution is less) Not Qualified	Quoted as per BOQs Qualified	Not Quoted	Not Quoted as per BOQs (Camera resolution is less) Not Qualified	Not Quoted	Quoted as per BOQs Qualified	Not Quoted as per BOQs (UPS not provided), resolution less, UV/Stain free sample tray not provided) Not Qualified	Not Quoted

		<p>have the ability to perform gel excision directly on the instrument.</p> <ul style="list-style-type: none"> • The optional UV Shield required which protects the user when working with traditional DNA stains. • Touch screen functionality required. • Multi-touch should be capable of minimum display resolution of: 1024 x 768 pixels and 9.7" (24.64 cm) display • Minimum image area should be with Length of: 14 cm and Width of: 21 cm. • Detector should be of 6.3MP CMOS or more • Pixel size should be of: 2.4X 2.4um or more • Bit depth should be of: 65536 or more 								
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		<ul style="list-style-type: none"> • Dynamic range should be >3.5 orders of magnitude • Onboard computer system should be required. • Excitation source required with Trans-UVB (standard) Epi-white (standard) Trans-white (optional) Trans-blue (optional) • Emission filters should be of 535–645 nm (standard) • Data output should be of: 16 bit or 8 bit SCN, TIFF, JPEG image files • The operating voltage should be of: 100-240 VAC, 50-60 HZ • Operating temperature should be of; 10-28°C • Operating humidity should be of: 20-80% 								
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Gel Doc System with specific software requirements:

- Image files should be opened in specific image lab software for accurate depth analysis of gel data.
- By using the specific software, the analyzed data should be exported to a spreadsheet or archived in an electronic laboratory note book.
- The system should have advanced security options and regularity compliance features which allow maintaining a broken chain of data custody from capture on the system through analysis at computer.

UV/Stain Free sample tray for Gel Doc

		<p>System required with following features:</p> <ul style="list-style-type: none"> • UV and stain free sample tray required for Gel Doc Imaging System • The tray required for imaging fluorescence blots, stain-free gels and blots, and gels stained with ethidium bromide, SYPRO Ruby, Oriole, or SYBR Stains which includes Gel Alignment Kit <p>Note:</p> <ul style="list-style-type: none"> • Availability of compatible UPS required • Availability of after services required • Origin: USA/Europe/Japan 								
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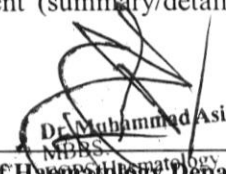
Sr. No	Items	Specifications	Vendors						
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7.	Mini Horizontal Electrophoresis System with power supply	<p><u>Mini Horizontal Electrophoresis System with power supply required with following features:</u></p> <ul style="list-style-type: none"> • Mini horizontal electrophoresis system, transparent tray, casting gates, mini-gel caster for fast, economical nucleic acid separations. • Minimum sample capacity should be of: 64 • The diameter should be of minimum 7x10 cm with both gel trays • Economic low gel buffer volume also required <p><u>Product Contents should be included with these items:</u></p> <ul style="list-style-type: none"> • Buffer tank • Lid with cables • More than 7 x 10 cm 	Quoted as per BOQs Qualified	Quoted as per BOQs Qualified	Not Quoted as per BOQs (Terminal pairs having two position instead of 4, Output 90 W and 1-300mA instead of 120W and 1-500mA) Not Qualified	Not Quoted Qualified	Not Quoted Not Quoted	Not Quoted as per BOQs (Minimum sample capacity and gel tray diameter is not provided) (required Power supply detail not provided) Not Qualified	Not Quoted

		<p>tray</p> <ul style="list-style-type: none"> • Casting gates • Gel caster • Coombs <p><u>Basic Power Supply required with following technical features:</u></p> <ul style="list-style-type: none"> • Timer control and constant voltage or constant current output • Ability to pause and resume a run • Output range (programmable) 2VDC–300 VDC • Fully adjustable in 1 steps with 1–500 mA current. • Fully adjustable timer up to 999 min per step required, • Terminal pairs should be with minimum 4 unit (positive and negative) • Input Power should be of: 230VAC, 50/60Hz and Output power should be of: 120 							
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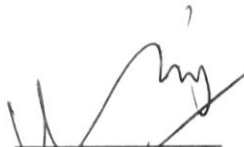
		<p>Watt</p> <ul style="list-style-type: none"> • Safety feature should be present • Pause function should be present • Constant current should be present <p>Note:</p> <ul style="list-style-type: none"> • Availability of UPS • Availability of service must required • Bio-Rad/M/S CLEAVER SCIENTIFIC-UK/Equivalent 								
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8.	VARIABLE VOLUME SINGLE CHANNEL PIPETTES	<p>Fully adjustable required with following technical features:</p> <ul style="list-style-type: none"> • Fully auto-clavable (121°C for 20 minutes)' • Enhanced UV resistance. • Hyper blower system, longer second-push stroke, improves 	Quoted as per BOQs Qualified	Not Quoted	Not Quoted as per BOQs (Only two pipettes are quoted instead of four) Not Qualified	Quoted as per BOQs Qualified	Not Quoted	Not Quoted	Quoted as per BOQs Qualified	Quoted as per BOQs Qualified


	<ul style="list-style-type: none"> • Dispensing efficiency • Lock mechanism • Plastic Ejector • Filtered Nozzles • Volume Adjustable pipettes <p>Required Volume:</p> <ul style="list-style-type: none"> • 0.5-10uL • 02-20uL • 20-200uL • 100-1000uL <p>Origin:</p> <ul style="list-style-type: none"> • USA/Europe/Japan 								
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All technical bid was evaluated by EndUsers against the laid specifications and comparative statement (summary/detail) is being submitted to Technical committee for further necessary action.


Dr. Muhammad Asif Naveed
 MDNS
 Head of Haematology Department
 Associate Professor &
 Head of Haematology Department
 University of Health Sciences Lahore

No Complaint Shall be entertained after 07 days of display of Technical Evaluation report.


Dr. Uruj Zehra
 Convener


Lt.Col. (R). Dr. Khalid Rahim
 Member


Dr. Allah Rakha
 Member