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### TECHNICAL EVALUATION REPORT FOR PROCUREMENT OF Central LAB ITEMS FOR 02/2021-22

The tender opening was held on 6/12/2021 for Central Lab Items. Nine (09) bidders participated in tendering process. The names of the bidders/firms are as under;

1. Pakistan Hospital and Industrial Laboratory Co
2. Leo Science, Islamabad
3. Maxtech Corporation, Lahore
4. H.A Shah & Sons, Islamabad
5. Analytical Measuring system, Karachi
6. Rays Technologies, Lahore
7. S.U Enterprises, Lahore
8. Prime Scientific Corp, Lahore
9. Continental Worldwide Trading co, Karachi

Report is as under:

Sr	CENTRAL LAB EQUIPMENT!!	Qty.	Pakistan Hospital and Industrial Laboratory Co.	H. A. Shah & Sons, Islamabad	Analytic Mesuring System, Karachi.	Rays Technologies Gulberg-III Lahore	SU Enterprizes Gulberg-III Lahore	Leo Science, Islamabad.	Prime Scientific Corporation, Lahore.	Contine ntal World wide aTrading Co, Karachi i.	Max Tech Corporati on Lahore	Qualified	Disqualified
1	Atomic Absorption Spectrophotometer:	1	Not Quoted	Agilent 280FS Atomic Absorption Spectrometer Flame and Hydride AAS Compact high-performance atomic absorption spectrometer for flame technology in absorption and emission mode with external	Perkin Elmer Pinnacle 900 F Atomic Absorption Spectrophotometer:	Atomic Absorption Spectrophotometer novAA800 F - 08000-2 AAS novAA 800F 230 V, 50/60 Hz Compact Spectrometer for Flame with Hydride AAS with external PC-control and Evaluation	500 F-PC PG Instrument UK. Fully automated fast Sequential Computer (Core I 5) with Laser printer Gas Cylinder of Argon, Nitrous Oxide and Acetylen Model: 500F-PC PG Instrument - UK	Only Brouchur Available No relevant specifications found.	9423 500 33301 ICE 3300 AA Spectrometer (wide PMT) * Flame and Hydride AAS With 10 Years	Not Quoted	Not Quoted	1. Prime Scientific Cooperation 2. Rays technologies 3. Analytic Measuring System .Karachi	1. Leo Scinces * Only Brochure attached 2. H.A.Shah & Sons * Optics Warranty not given * Detector specifications change * PMT intensity is change * Gas supply and nitrous oxide

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				PC control.		software ASPECT LS and Auto Sampler							volume is different 3. SU Enterprises Optics Warranty not given *Burner head Titanium is given *Spectral bandwith change *Nebulizer specifications are different *Coded low temperature burner
2	ELISA System:	1	Not Quoted	Not Quoted	DS201, PerkinElmer, USA	EZ Read 400 Biochrom England, Wave length range demanded: 200-900nm	INNO-5, LTEK Korea Letter of authorization is not attached	Not Quoted	Not Quoted	Not Quoted	Not Quoted	1. Analytic Measuring System ,Karachi	1. Rays Technologies. EZ Read 400 Biochrom England, Wave length range demanded: 200-900nm Wave length range quoted: 400-750 Shaking: No Full spectra or 8

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													distinct wavelengths in < 1 sec / well : No Incubation +5 °C above ambient up to 45 °C: No Photometric methods: Single and dual wavelength: • Monochromator step size: 1 nm: not quoted • Bandwidth: 3 nm or more Read time: 8-10 sec 96-well demanded: 25 sec quoted Specification are not according to the demand 2. S.U Enterprizes INNO-5, LTEK Korea

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3	FREEZE DRYER ALPHA 1-2 LD PLUS:		Not Quoted	Not Quoted	Not Quoted	Model: RZ 2.5 Christ Made in Germany	Model: HyperCool-110 Gyrozen Made in Korea	Not Quoted	Not Quoted	Not Quoted	Not Quoted	1. Rays Technologies	Letter of authorization is not attached 1.S.U Enterprizes Authorization Letter Not Attached
	Real time PCR:	1	G8830A, Agilent Technologies , USA	A28569 Quant studio 5, applied Bio systems	PentaBase, Denmark Letter of authorization is not attached	Not Quoted	abCyclerQ, AIT Biotech, Singapore Letter of authorization is not attached	Not Quoted	Not Quoted	Not Quoted	Not Quoted	1. Pakistan Hospital and industrial Laboratory co. 2. H.A Shah & sons Islamabad 3. Analytical Mesuring System, Karachi	1. SU Enterprzes Letter of authorization is not attached
5	PCR Thermal Cycler Gradient:	1	A24811 SimpliAmp thermal Cycler Applied Biosystem (ThermoFisher Scientific) USA	A48141. VeritiPro thermal cycler, Applied Biosystems, (ThermoFisher Scientific) USA	2720, Applied Biosystems (ThermoFisher Sientific) USA	THERM-1000, MaxyGene II, Corning, USA Letter of authorization is not attached	Labcycler Gradient, Sensoquest, Germany					1. Pakistan Hospital & industrial laboratory co. 2. HA Shah & Sons 3. SU	1. Analytic Mesuring System, Karachi Letter of authorization is not attached 2. Rays Technologies

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												Enterprize	Letter of authorization is not attached
6	NANO DROP SPECTROMETER	1	Model: Nabi UV/VIS Spectrophotometer Micro digital Made in Korea	Model: 6135000904 Bio spectrometer Basic Eppendorf Made in Germany	Model: LNN-101 Laboquest Made in USA	Model: BioDrop DUO+ Biochrom Made in USA	Model- INNO-N LTEK Made in Korea	Not Quoted	Not Quoted	Not Quoted	Not Quoted	1. Pakistan Hospital and Industrial Laboratory Co 2. Analytical Mesuring System, Karachi 3. Rays Technologies Gulberg-III Lahore	1. H. A. Shah & Sons, Islamabad : Specifications are not according to tender document. Wavelength: Required is 220-950nm Quoted: 200-800 Optical path length Required is 1mm to 10mm Quoted: 1mm Not capable for colorimeter protein assays 2. SU Enterprize Authorization Letter Not Attached

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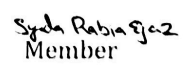
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7	Bench top Muffle Furnace:		Not Quoted	Not Quoted	Not Quoted	Furnace 1200°C – XSB Series Model XSB-6-6-9-1V, Thermcraft Made in USA	Model: GB5-122 Hobersel – Spain	GB - SERIES SIDE DOOR AND DROP DOWN DOOR : REFINED DESIGN CERAMIC FIBER GB10-122 Hobersel spain	Not Quoted	Not Quoted	Not Quoted	1. Leo Science, Islamabad 2. Rays Technologies 3. SU Enterprizes	
8	Flourescence Microscope:	1	Not Quoted	Not Quoted	Model: FML-210 Laboquest, USA Technically qualified	BX53LED, Olympus, Japan Technically Qualified	Not Quoted		Not Quoted	Not Quoted	Not Quoted	1. Analytic Mesuring System, Karachi 2. Rays Technologies	

  
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9	FTIR Spectrometer with Diamond ATR, software & Accessories		Not quoted	G8043AA Cary 630 FTIR Instrument with Software Bundle G8043AA#3 20 Cary FTIR Diamond ATR G8043-67402 KBR Window with Removal Tool Laptop (Core i7 with windows) Laser Printer Compatible UPS	SPECTRUM TWO FTIR SYSTEM, SPECTRUM TWO SYSTEM, 100-240V, 50/60Hz – Standard DTC, KBr, Sp10 9,300:1 SNR p-p noise for 5 second scan, 8300 – 350cm-1 spectral range, 0.5cm-1 resolution, AVC Operation / users Manuals, Certificate Of Origion / Guarrantee	FT-IR Spectrometer with Zinc Selenide optics & Zinc Selenide ATR European Union Made Compact FT-IR spectrometer for quick, easy and reliable Made in European Union Astonia	Not quoted		Nicolet iS50 FTIR Tri-Detector Gold Flex Spectrometer	Not quoted	Not quoted	1. Analytic Mesuring System, Karachi. 2. Prime Scientific Corporation, Lahore	1. Rays Technologies Gulberg-III Lahore Because they quoted Zinc Selenide instead of diamond ATR as diamond ATR is compulsory in our tender.  2. H. A. Shah & Sons, Islamabad they did not provide 10 years warranty for interferometer. 10 years for laser, 5 years for IR source

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					(Soft Copy) i7 Laptop HP Laser Jet Printer 3 KVA UPS								
10	Potentiostat :		Not Quoted	Not Quoted	AMETEK - Advance Measurement Technology Inc. PARSTAT4000 A PARSTAT4000 A has industry-leading voltage accuracy and dynamic current range, standard	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Metrohm AG, Ionenstrasse, 9100 Herisau, Switzerland. (All in one Potentiostat/Galvanostat) Make: Metrohm Switzerland VIONIC	Not Quoted	1. Analytic Mesuring System, Karachi	1. Continental Worldwide trading Corporation. * No specifications relevant to Current accuracy, potential resolution, current resolution
11	WATER DEIONIZER	1	Not quoted	Not quoted	Not quoted	Model: OMNIA Tap-06 Stakpure Made in	Model: HALIOS6 Neptec Made in Germany	Not quoted	Not quoted	Not quoted	Not quoted	1. Rays Technologies Gulberg-III Lahore 2. SU Enterprizes	

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						Germany						Gulberg-III Lahore	
12	Incubator Ambient temperature:	1	Not Quoted	Not Quoted	Model: LBCI-A12 Laboquest, USA Speed Range: 50 to 400 rpm, Capacity: 250ml, 500ml 2L and 5L Flasks, HEPA filter, Accessories: platforms, clamps for flasks, petri dishes, and test tube racks are not quoted Technically Disqualified	Model 13000 IRMECO Germany Capacity: 250ml, 500ml 2L and 5L Flask, HEPA filter, Accessories: platforms, clamps for flasks, petri dishes, and test tube racks not quote, Technically Disqualified	ST 500 CMS Smart, Poleko Poland (Europe) Specification like Speed range 50 to 400 rpm, Temperature Range: 20 C below ambient to 60°C, Capacity: 250ml, 500ml 2L and 5L Flasks, not quoted, Technically Disqualified	Not Quoted	Not Quoted	Not Quoted	Not Quoted		1. Analytic Mesuring System, Karachi Speed Range: 50 to 400 rpm, Capacity: 250ml, 500ml 2L and 5L Flasks, HEPA filter, Accessories: platforms, clamps for flasks, petri dishes, and test tube racks are not quoted 2. Rays Technology Capacity: 250ml, 500ml 2L and 5L Flask, HEPA filter, Accessories: platforms, clamps

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13	Spectrophotometer Fluorescence:		Qubit™ 4 Fluorometer, with WiFi Cataloge Numbers : Q33238 Applications : DNA Quantification, RNA Quantification, Protein Quantification Shipping	G9800A Cary Eclipse includes WinFLR  Compatible Computer Compatible Printer Compatible UPS	The FL 6500 Fluorescence Spectrometer is the optimal system for analyzing software Spectrum™ FL  Compatible PC LCO SUP LAsErJet Prinnter LCO SUP 3 KVA UPS	Not Quoted	FL 970 Techcomp Singapore Fluorescence mode: Fluorescence, Luminescence (Chemiluminescence, Bioluminescence, Electroluminescence)  Computer + Pinter + UPS included	Not Quoted	Not Quoted	Not Quoted	Not Quoted	1. Analytic Mesuring System, Karachi 2. H.A Shah & Sons	1. PHILCO The specification quoted is not relevant to the tender.  2. SU Enterprizes *Continuous Xenon lamp *Excitation and emission

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			Condition : Room Temperature For Use With (Equipment) - Qubit™ Fluorometer Excitation Wavelength : Blue LED (max 470 nm), Red LED (max ~635 nm)				Model: FL970 Techcomp – Singapore Thermostatic waterbath cell						polarizers not mentioned) *Cut off filters absent
14	Scanning electron microscopy:	Not quoted	Not quoted	Not quoted	JEOL - Japan: Scanning Electron Microscope JSM-IT200LV Model: JSM-IT200 EDS Bruker - Germany: ESPRIT Compact EDS system with 129 eV XFlash® 600 Mini SDD	Not quoted	Scanning Electron Microscope  Model: KYKY-6900LV KYKY technologies Co. Ltd - China EDS Oxform Xplore 30	Not quoted	Axia Chemi SEM Hi Vac LoVac	Not quoted	Not quoted	1. Analytic Mesuring System, Karachi	1.Prime Scientific Enterprizes  1. The quotation is not clear i.e the quoted item is working in Low/High 2.EDX SYSTEM is not mention in the Prime quoted item while in the tender it is compulsory

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15	DNA Sequencer:	Not Quoted	A35644. SeqStudio Genetic Analyzer System With SmartStart	GenomeLab GeXPIM Genetic Analysis System, Sciex USA	Number of	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	L.H.A shah & Sons	1. Analytic Mesuring System, Karachi Number of capillaries 4: not
													2. SU Enterprizes SU has not supplied five SEM in last five years. In fact 2 SEM was supplied in last five years as evident from the attached document in the technical bid provided by the SU. 2 EDX SYSTEM is not mention in the Prime quoted item while in the tender it is compulsory

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				Biosystems, ThermoFisher Scientific Technically Qualified	capillaries 4: not quoted Number of dyes 6: not quoted On-instrument memory 128 GB, approximately 3,500 injections or 14,000: reactions not quoted Specs are not according to the demand Technically Disqualified								quoted Number of dyes 6: not quoted On-instrument memory 128 GB, approximately 3,500 injections or 14,000: reactions not quoted Specs are not according to the demand
16	CHN Elemental		Not Quoted	Not Quoted	CHN828-MC Carbon/Hydroge n/Nitrogen Determinator, Boom Mounted Touch Screen, Autoloader and PC	CHNS-O Elemental Analyzer EMA 502 CHNS-O Analyzer Versatile Micro Elemental Analyzer ensuring accuracy and reliability for a wide range of applications EMA 502	Not Quoted		Flash Smart CHN The Thermo Scientific Flash Smart Elemental Analyzer.	Not Quoted	vario MAC RO cube CHN inclu des		1. RAYS * Furnace and detector warantee missing *Furnace Temperature upto 1060. 1800 required combustion *NC org Detection limit is less 2. MAXTECH * Furnace and

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						CHNS-O Analyzer Operated on 220Volts Model EMA 502 Velp Made in Italy.							detector warantee missing *Pyrolysis temp. power supply. *N2 weight and *Configuration change 3. Prime Scientific Cooperation * Furnace and detector warantee missing 4. AMS * Furnace and detector warantee missing
17	Flame Photometer:		Not Quoted	Not Quoted	LFM-1006 Laboquest USA	Flame Photometer Industrial Model Model 360 Sherwood Made in England.	FP910-5 PG Instrument UK	Not Quoted	Not Quoted	Not Quoted	Not Quoted	1. SU Enterprizes 2. Analytical Mesuring System, Karachi	1. RAYS *Simultaneous Detection not given. *Interface and minimum time of detection is ambiguous
18	Gas Chromatography Mass Spectrometry System:	1	Not Quoted	5977B EI MSD Bundle with Stainless Steel Source	PerkinElmer SMARTsource Ion Source PerkinElmer	Not Quoted	Not Quoted	Not Quoted	ISQ 7000, ExtractaBrite EI source,	Not Quoted	Not Quoted	1. Analytic Mesuring System,	

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				Includes PC and Software Agilent MassHunter, Microsoft Excel, classic Agilent MSD ChemStation Software for custom	SMARTsource —Simplified Maintenance and Removal Technology (EI compatible)™ Filament Marathon — designed for long life™				s - Thermo Scientific™ ExtractaBrite™ Electron Ionization (EI) source with dual filaments in all ionization modes.			Karachi 2. H.A Shah and Sons 3. Prime Scientific Cooperation.	

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