

Khayaban-e-Jamia Punjab, Lahore 54600, Pakistan. Phone: +92-42 111 33 33 66 Ext.360, Fax: +92-42-39230870, E-mail: pharmacology@uhs.edu.pk

Ref no.UHS/Pharma/22/

Date: 21/03/2022

То

The In-charge Purchase Cell, University of Health Sciences, Lahore.

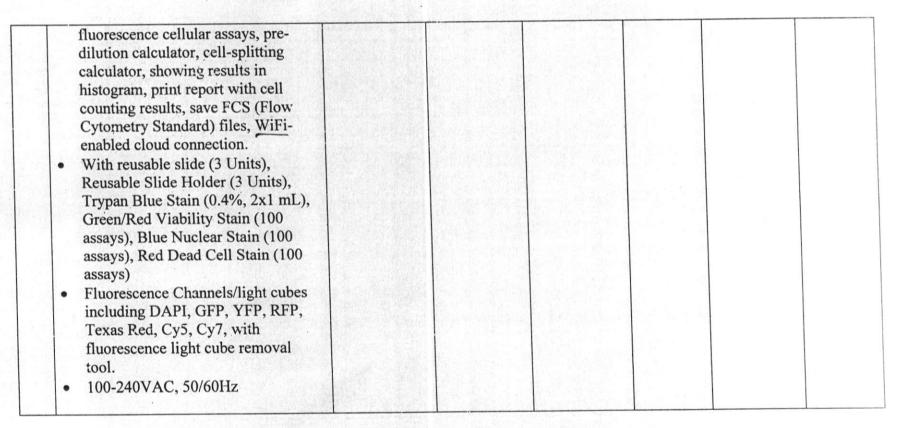
# Subject: Technical Evaluation for Purchase of Lab Equipment of Pharmacology Department for the Year 2020-2021

Sr. No	Description and Specifications	HA Shah	World Wide	Scientific Technical Corporation	Pakistan Hospital	Ayyan Molecular Products	New Chemical Center
1	<ul> <li>Automated Cell Counter with fluorescence channels</li> <li>Automated Cell Counter with fluorescence capabilities (with at least with two interchangeable fluorescence channels that can easily be changed)</li> <li>Count cells in bright-field, dual fluorescence cell counter</li> <li>Report and measuring fluorescent protein expression, apoptosis, and cell viability using fluorescent reagents in 30-50 seconds</li> <li>Touch screen, equipped with</li> </ul>	Qualified	Not Qualified (Florescence cubes are not quoted)	Qualified	Qualified	Not Qualified (Wi-Fi connectivity is missing, Florescence detection not mentioned.)	Not Quoted



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	Iners sub-						
2	<ul> <li>Electrical Resistance System epithelial voltohm-meter</li> <li>Fitted with chopstick electrodes.</li> <li>Portable instrument that fits into laminar flow hoods.</li> <li>Measurements do not compromise sterility or damage cells on the membrane, reliably measures membrane potential and resistance of epithelial cells in culture.</li> <li>Accessories include a replacement (fixed) electrode set, adjustable electrode set and a specialized electrode set for use with 96 cell</li> </ul>	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Qualified



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	culture and 12 cell culture insert plates.						
3	Masual Hand Eff Carrie: Hydraulic Scissor Trolley Rated Loading: 500 kg Power source: Hydrolic pump Table Size: 910*500*52mm Min. Lifting Height: 280mm Overall Dimensions: (minimum)985*510*350mm Color: Yellow or Black Pump: Hydraulic Lowering Systems: Wire or nut Product name: Hydraulic Scissor trolley lift Maximum height: 1300 mm Warranty: 2 years	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted



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4	IsoFreeze PCR Rack For 96 x 0.1 or 96 x 0.2 ml tubes with snap top or screw cap, Maintains a sample temperature of less than 4°C for approx. 4 hours, Dramatic change to contrasting color at 7°C, Dimensions (rack + lid): 70 x 105 x 146 mm, Color changes from purple (cold) to pink (warm), Color changes from green (cold) to yellow (warm), Packaging unit: 1 rack with lid	Qualified	Qualified	Not Quoted	Not Quoted	Qualified	Not Quoted
5	<ul> <li>Mini Centrifuge</li> <li>Frequency 50/60 Hz</li> <li>Net Weight (1.41-1.5 kg)</li> <li>2 Rotors to Accommodate 0.2, 0.5, 1.5, 2 mL microcentrifuge Tubes, PCR Strip Tubes</li> <li>Voltage 110-220 V</li> <li>Capacity 12 x 2 mL</li> <li>Max. Speed = 12,500 rpm</li> <li>Max. RCF = 9,800 x g</li> <li>Noise Level = 51-53 dB(A)</li> <li>Temperature Range= Ambient temperature</li> <li>Certifications/Compliance =CSA, CE, UL</li> </ul>	Qualified	Qualified	Not Quoted	Not Quoted	Qualified	Qualified



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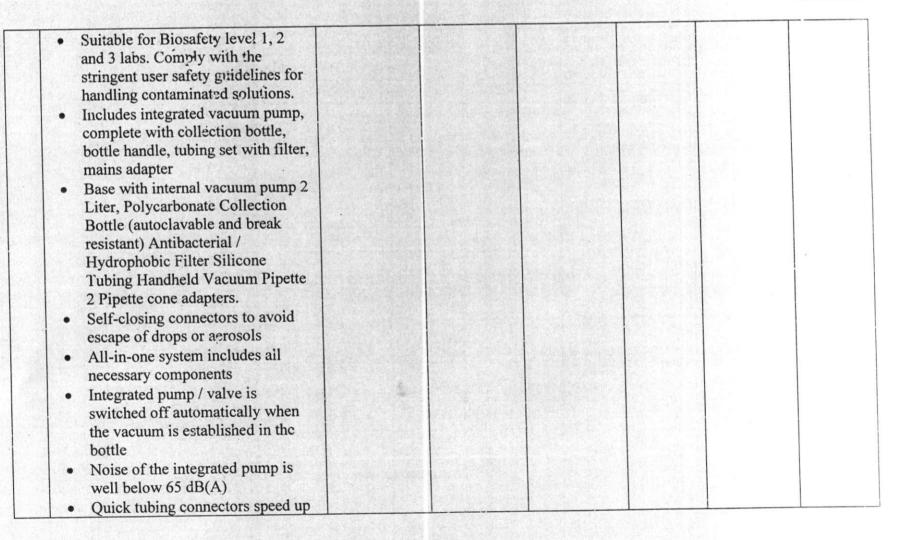
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	<ul> <li>Designed for quick and pulse spins</li> <li>Tool-free, quick rotor exchange</li> </ul>						
6	<ul> <li>Micropipette Stand</li> <li>Provide safe and convenient storage for manual and electronic pipettes.</li> <li>Multi-stand</li> <li>Preferably grey color</li> <li>Hold 6 manual pipettes</li> <li>Compatible with all brands</li> </ul>	Qualified	Qualified	Not Quoted	Not Quoted	Not Quoted	Qualified
7	Vacuum aspiration system Includes: Hand held aspirating device 3L Glass bottle, Lid with quick couplings and level detection, Tubing set with filter, Mains adapter: 100- 240VAC, 50/60Hz, VACUBOY hand operator with 1-channel SS adapter 40 mm. Flow rate: 8 L/min. Maximum Pressure: -300 to -600 mbar (adjustable)	Not Qualified (Wrong item quoted)	Qualified	Qualified	Not Quoted	Qualified	Qualified



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•	Type = Benchtop Centrifuge				
•	Includes		a stability in the	Sector Sector Sector	
	12 x 1.5/2.0mL rotor, 32 x 0.2mL	Section 201			
	rotor (singles or 4 x 8 strip), 0.2mL		1991 199 (Pr. 1997)		
	adapters (set of 12), 0.5mL adapters				
	(set of 12), Universal power adapter	and a second	and all all all the second		Ì
	110-240V 50/60 Hz with 4			Carl Start Start	
	interchangeable plug types		Standard Barry Star		
•	Electrical Requirements 110/240 V				
	50/60 Hz	and the addition of the second			
	Warranty = 2 Years				
	Run Time = 1 sec to 30min (1 sec				
	increments); Quick Spin	CARSES CONT	and the state		
	Standards				
	IEC 61010-1, IEC 61010-2-020		C. Doctor Back of the		
	Dimensions (HWD)				
1	4.4 x 6.7 x 8 in. (11.4 x 17.1 x 20.3	Contract Contract	and the second		
			San Carton		
	cm)				
•	Easy operation, with back-lit,				
	customizable display that can be set				
	for rpm or RCF.	X 1. 19 19 19 19 19 19	(1) 注意的 数字的 法公司		
•	Safety features including imbalance	Contraction of the			
	and tilt safety cut-out, as well as				
10-1	safety interlock lid designed to	2			
	prevent opening while rotor is				
	turning				



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	bottle removal						
8	<ul> <li>Induction chamber for rats</li> <li>Size 24*12*18cm</li> <li>or use with EZ-Anesthesia</li> <li>Seal gasket ensures no gas leakage</li> <li>Simple locking snap latch</li> <li>Gas exhaust outlet port connects to charcoal filter</li> <li>Heavy-duty, acrylic</li> <li>Non-skid bottom</li> <li>Includes Filter Connection outlet hose.</li> </ul>	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted
9	First aid medical box with complete kit Aluminium briefcase style Rust free, durable, 2 year warranty Size (LxWxH): 12in x 9in x 6in Equipped with Povidine Solution (60 ml bottle), Panadol Tab (20 Tab.), Disprin Tab (10 Tab.), Ponstan Tab (10 Tab.), Voltrex Gel (20 g), Polyfax Skin	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted



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	Ointment (20 g), Adhesive Plaster Tape (2.5cmx2.0m, 01 Nos), Sani Plast / Hi Plast (20 Nos), Cotton (2 medium size packs), Crape Bandage 4" (2 Nos), Dettol (50 ml), Spirit (120 ml), Alcohol Pads / Medi Swabs (20 Nos), Face Mask (10 Nos), Digital Thermometer- Certeza/Citizen/equivalent (01), Glucose Monitor- Certeza/Citizen/equivalent (01), BP Monitor -Certeza/Citizen/equivalent, Stethoscope -Certeza/Littmann/ equivalent, Pulse Oximeter - Certeza/Citizen/equivalent						
10	<b>Tissue organ bath</b> Digital display for temperature control system Fine tune system for oxygen supply Central supply of oxygen and solutions (tyrode solution etc.), refill and drain of solution through semi-automatic system. 100-240VAC, 50/60Hz	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted
11	Toll kit Includes Double-headed hammer, ratchet screwdriver, needle-node pliers, wrench,	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted



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	paper cutter, measuring tape, magnetic bit set packed in simple ctylish cabinet of durable carbon steel body Partition of storage box up to lid and nail storage area to prevent mixing.						
12	<ul> <li>Electronic Pipette Controller/Filler</li> <li>For use with serological and volumetric pipettes</li> <li>Large, backlit LCD display provides visual confirmation of remaining battery charge and speed settings</li> <li>Choose from eight speeds with a simple "+" or "-" to adjust pipetting speed which is displayed on the LCD.</li> <li>Rechargeable lithium-ion battery offers long runtime per charge while eliminating battery memory problems</li> <li>Battery has rapid charge rate of 80% in one hour and delivers up to 15 hours of continuous operation before recharge</li> <li>Autoclavable pipette adapter for sterile applications.</li> </ul>	Qualified	Qualified	Not Quoted	Not Quoted	Not Quoted	Qualified



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<ul> <li>Operation while recharging is possible.</li> <li>Lightweight, well-balanced and ergonomic design that allows for fatigue-free pipetting</li> <li>Lightweight, well-balanced and ergonomic design that allows for fatigue-free pipetting</li> </ul>			
Total Estimated Budget	3,500,000		

Pref. Dr. Muhammad Shahzad Head Department of Pharmacology

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

Dr. Uruj Zehra Convener

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

Dr. Allah Rakha