1591/To
24/11/21

The Government
Sadiq College Women
University Bahawalpur Pakistan

AT-II
24.11.21

TECHNICAL EVALUATION REPORT OF CHEMISTRY LAB ITEMS TENDER # 33/2020-21

The tender opening was held on 12/07/2021 for Chemistry Lab Items. Eleven (11) bidders participated in tendering process. The names of the bidders/firms are as under;

1. M/S Pakfil Technologies, Lahore
2. M/S Sindh Medical Stores Karachi
3. M/S New Chemical Centre,Lahore
4. M/S H. A. Shah & Sons, Islamabad
5. M/S Kamstech International,Karachi
6. M/S Shalimar Scientific Stores, Lahore
7. M/S Technology Links Pvt Ltd, Lahore
8. M/S SU Enterprizes Gulberg-III Lahore
9. M/S RAAB Scientific Solutions, Lahore
10. M/S Rays Technologies Gulberg-III Lahore
11. M/S Key Scientific Corporation Gulberg-III Lahore

M/S Technology Links Pvt Ltd, Lahore were disqualified as valid CNIC not attached and supply orders of private firms attached rather than governmental w/o. no scoring attached

Report is as under:

Chairperson Technical Committee	Member	Member	Member	Member	Member

Scanned with CamScanner

	Name of item	RQty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
1	Micropipette Multi Channel: Precise pipetting control, - Robust and lightweight,- 0 1µl-100µl volumetric or serological pipettes can be used- Filling and delivery are easily controlled with a small sensitive lever, - Uses integral and replaceable 3um filter, - Autoclavable silicone pipette holder Germany or UK or Japan or USA or equivalent	5	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Pipette Controller Electrical pipette aid 0.1-100 ml - Eight possible speeds selectable - handy and lightweight for fatigue-free pipetting - LCD display indicating low battery and selected speed - Pipette adapter autoclavable at 121°C - „ Make Witeg LMS Germany	Not Quoted	Multi-Channel Pipette PIPETMAN L is an adjustable volume pipette that features a Gilson patented volume locking system. The Multichannel version also offers an extremely lightweight pipette, new shape ensures a perfect fit. Volume range 0.5 µl to 10 µl, Eight Channel Model P8x10L b. Multi-Channel Pipette PREMIUM PIPETTING COMFORT PIPETMAN® G offers one of the lowest pipetting forces with a redesigned piston assembly system and high-quality piston grease, PIPETMAN G guarantees hours of comfortable pipetting RELIABLE RESULTS PIPETMAN G relies on the legendary accuracy, precision, and reliability of PIPETMAN®, with improved pipetting comfort. BUILT-TO-LAST AND CONVENIENT Volume: 2 to 20 µL, Eight Channel Model 8x20G c. Multi-Channel Pipette PIPETMAN L is an adjustable volume pipette that features a	Volume range 0.5 µl to 10 µl, Eight Channel Model P8x10L Gilson Made in France. b. Gilson Multi-Channel Pipette PREMIUM PIPETTING COMFORT PIPETMAN® G offers one of the lowest pipetting forces with a redesigned piston assembly system and high-quality piston grease, PIPETMAN G guarantees hours of comfortable pipetting RELIABLE RESULTS PIPETMAN G relies on the legendary accuracy, precision, and reliability of PIPETMAN®, with improved pipetting comfort. BUILT-TO-LAST AND CONVENIENT Made of PVDF and stainless steel, PIPETMAN G offers premium	Multi-Channel Pipette An adjustable volume pipette with volume locking system. The Multichannel version also offers an extremely lightweight pipette. new shape ensures a perfect fit. Volume range 0.5 µl to 10 µl, Eight Channel Model P8x10L b. Multi-Channel Pipette Lowest pipetting forces with a redesigned piston assembly system and high-quality piston grease, PIPETMAN G guarantees hours of comfortable pipetting Volume: 2 to 20 µL, Eight Channel Model 8x20G	• Shalimar Scientific Stores	• Key Scientific Corporations: Authorization letter is not attached • RAAB Scientific Solutions:Authorization letter is not attached • Rays Technologies: Volume range: required 0.1 µl to 100 µl/ provided 0.5 µl to 10 µl.

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

item	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
									Gilson patented volume locking system. The Multichannel version also offers an extremely lightweight pipette, new shape ensures a perfect fit. Volume range 20 µl to 200 µl, Eight Channel Model P8 x 200L Make: Gilson France Authorization letter not attached	durability. Specification: Volume: 2 to 20 µL Model 8x20G, Gilson Made in France. c. Gilson Pipetman L Multi-channel the Multichannel version also offers an extremely lightweight pipette, new shape ensures a perfect fit. adjustable tip ejector button has also been implemented to adapt to both right- and left-handed users. PIPETMAN L is an adjustable volume pipette that features a Gilson patented volume locking system. GLP Features Convenient GLP features to PIPETMAN L Additional GLP features include: § Traceable serial number	c. Multi-Channel Pipette An adjustable volume pipette with volume locking system. The Multichannel version also offers an extremely lightweight pipette, new shape ensures a perfect fit. Volume range 20 µl to 200 µl, Eight Channel Model P8 x 200L Gilson France, Complete set (1-each)		

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

	item	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
											§ Color-coded push-button § Unique 2D identification bar code Volume range 20 µl to 200 µl, Eight Channel Model P8 x 200L Gilson Made in France. Complete Set as above, Gilson Made in France			
2	Hot plate with stirrer: Material Body: Powder Coated Aluminum. Material Plate: Solid Ceramic Glass Plate, 200 x 200mm. Stirring Capacity (H2O): Max. 20 Lit. Speed & Control Resolution: 80 ~ 1,500 rpm, 5 rpm. Temp. Range & Accuracy: Max. 500°C, ±0.3°C at Set Temperature. Temp. Resolution: 0.1°C - Display, 0.5°C - Control. Heating Power / Consumption: 850W. Timer & Alarm: 99hr 59min (with Continuous run.), Error status & Timer-end.Display:	15	Not Quoted	Hotplate Stirrer With Timer Stirring capacity: 50 ml - 15 L Top ceramic dimension: 280 mm × 280 mmPower: 750 WTemperature: 400 °CTimer range: 0 min ~ 999 minsStirring range: 0 rpm ~ 2500 rpmStirring speed accuracy: ± 1 rpmTemperature accuracy: ±1 °CVoltage: 160 V- 240 V, 110 V- 120 VMotor power: 40 W, DC 20	Hot Plate with StirrerModel No / Cat # SLRheating capacity 1.8 KWMax. hot plate temperature 550°CTemperature Stability ± 2Speed range: 50 rpm -1500 rpmsetting accuracy 10Material Plate: Ceramic GlassTop Plate area, 280 x 280mm. Stirring Capacity (H2O): Max. 30 Lit. Speed & accuracy: 50 - 1,500 rpm, 10 rpm. Temp. Range & Accuracy: Max. 550°C, ±2°C ,Enivironmmental Conditions - 5°C -	88880003RT2 Basic Hotplate StirrerTop Plate Material AluminumVoltage 120 VIncludes Cord Set W/Various PlugsBody Material Cast AluminumElectrical Requirements 230 V 50/60 HzController Type ScaleLength (English) 11.42 in.Size 140 mm dia.Height (Metric) 100 mmTemperature (Metric) 50°C to 350°CTemperature (English) 122°F to 662°FHeight (English) 3.94 in.Frequency 50/60 HzWidth (Metric) 161 mmLength (Metric) 290 mmWidth (English) 6.34 in.Wattage 600 wType Hot Plate StirrerShape RoundMax. Sample Load 25 kgPlug Type Various StylesMax. Container Size 20	Not Quoted	Hot Plate with StirrerMaterial Body: Powder Coated Aluminum. Material Plate: SolidCeramic Glass Plate, 200 x 200mm. Stirring Capacity (H2O): Max. 20Lit. Speed & Control Resolution: 80 ~ 1,500 rpm, 5 rpm. Temp. Range& Accuracy: Max. 500°C, ±0.3°C at Set Temperature. Temp.Resolution: 0.1°C - Display, 0.5°C - Control. Heating Power /Consumption: 850W. Timer & Alarm: 99hr 59min (with Continuousrun.), Error status & Timer-end.Display: Digital LCD with Back-Light. Function Controller: Digital Feedback Controller with Jog Dial(Turn+Push) and Touch button.Stirring Bar: 3cm bar-included, Usable : up to 5cm bar. Safety	Function Heating and StirringTop Plate Size 17.8 x 17.8 cm Speed Range 60 rpm to 1600 rpm Speed Stability +/-2 % Temperature Range Ambient + 5 °C – 500 °C Temperature Stability +3 % Plate, below 100 °C +2 °C and +1 % Probe, below 100 °C +1 °CTemperature Calibration 3 Plate and 3 ProbeControl DigitalDisplay Backlit LCD for Temperature and SpeedCapacity 15 L Top Plate Material Ceramic AluminumPower 230V, 6.0A, 50/60Hz Power Consumption 1242 W (230V)	Digital Magnetic Stirrer With HotplateAREC Connect is equipped with a cutting-edge Heating Plate technology engineered by VELP that ensures temperature homogeneity, thermal efficiency and durable heating performance over time. Plate material: Ceramic, Plate dimension: 200x200 mm Stirring volume (h2o): 20 l, stirring speed range: 30 - 1700 rpmTemperature setting resolution: 1 °cTemperature range: Room temp. - 550°CPermissible ambient temperature: 5 - 40°CExternal temperature sensor PT100Model AREC Connect, Velp Made in Italy	Housing material Technopolymer Plate material CeramicPlate dimension 200x200 mm Stirring volume (h2o) 20 lStirring speed range 30 - 1700 rpmSpeed control DigitalSpeed setting resolution 5 rpmMotor BrushlessTorque compensation Speedservo™Heating control digitalTemperature setting resolution 1 °cTemperature range Room temp. - 550 °cExternal temperature sensor connection PT100Thermore	Temp range : Ambient to 550°CSpeed range : 0-1500rpm (Analog)Temp accuracy at plate : ±10°CTemp increments : 5°CMax. Stirring Qty. : 10 LitersPlate size : 7 x 7"Plate material : Ceramic-Glass With PT1000 Sensor Support Stand & Clamp Model MS7-H550-S DLab, USA Country of Origin: China	• Shalimar Scientific Stores • RAYS Technologies • New Chemical Centre• S U Enterprizes	• Sindh Medical Stores:Stirring Capacity is not according to required specifications 20 Lit/provided 50 ml - 15 L • HA Shah & Sons: Max. Temperature range required:500°C, ±0.3°C /offered 50°C to 350°C, required: 50°C to 350°C • Key Scientific Corporations: Authorization letter is not attached •

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

	Item	RQty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	Digital LCD with Back-Light Function Controller: Digital Feedback Controller with Jog Dial (Turn+Push) and Touch button.Stirring Bar: 3cm bar-included, Usable : up to 5cm bar. Safety Circuit: Over Temp. Protection, Hot Top Indicator LED Lamp. Permissible Temp. & RH %: Ambient +5 ~ 50°C, 85% RHDimension & Weight: 205 x 345 x h135mm, 3.3kg. Power Supply & Cord/Plug: AC 230 V, 50 / 60 Hz, with Cord/Plug. Including: External/Direct Contact Temperature ProbeGermany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.			VWeight 9.3 kgsMake:Labotronics Scientific Ltd, Canada	+40°CDimension & Weight: 450 x 282 x 115mm, 4.1 KgMake: Wiggens, Germany	LStirring Range 50 to 2000 rpmDisplay AnalogUnit Size EachMake: Thermo Fisher Scientific		Circuit:Over Temp. Protection, Hot Top Indicator LED Lamp. PermissibleTemp. & RH %: Ambient +5 ~ 50°C, 85% RHDimension & Weight: 205 x 345 x h135mm, 3.3kg. Power Supply &Cord/Plug: AC 230 V, 50 / 60 Hz, with Cord/Plug. Including:External/Direct Contact Temperature Probe Model MSH500D Witeg LMS Germany	Working Environment 5 °C – 40 °C, 80 % RH, non-condensingModel: e-G51HS07COhaus – USA		gulation range Room temp. - 300 °cThermoregulation accuracy ± 0.5 °c (pt100)Timer yes (1 min - 99 h 59 min)Autoreverse yes (5 s - 99 min 59 s)Intermittent mode yes (5 s - 99 min 59 s)Lock function yesAcoustic signals yesHot top warning system on display (when the temperature is above 50 °c)Permissible ambient temperature 5 - 40 °cModel AREC Connect, Velp Made in Italy.			RAAB Scientific Solutions:Authorization letter is not attached
3	Conductivity Meter: 0 µS/cm...1000	2	Orion Star A212 Conductivity	Multiparameter PH/ORP/Con	Conductivity Meter Model No / Cat	STARA3226 Orion Star™ A322 Conductivity Portable	Not Quoted	Conductivity Meter Digital Bench Type Combined logging	Measurement range Conductivity	Conductivity Meter Digital Bench Top Parameter	Digital Bench Top Microprocessor	Display 6.5 inch LCD screen	• Pak Fil Technologies	•Sindh Medical Stores:

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

Item	RQty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
µS/cm ±10.5 % of value Salinity 0.0...70.0 (acc. to IOT), 0.00...20 MOhm cm, TDS 1...1999 mg/l Temperature -5.0...105.0 °C ±0.1 °C (23...221 °F) Cell constant 0.450...0.500 cm-1, 0.09...0.110 cm cm-1, 0.800 bis 0.880 cm-1,0,25...2,5 cm-1, fix 0,01 cm-1 Calibration 1-point, Tref 20 °C/25 °C (68 °F/77 °F) Temperature compensation nLF, linear 0.000 to 3.000 %, can be switched-off Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.		Benchtop Meter Kit Technical Specifications Conductivity Range: 0.001µS to 3000mS Resolution:0.001µS minimum, auto ranging, upto 4 significant digits Relative Accuracy:0.5% of reading ±1digit > 3µS, 0.5% of reading±0.01µS≤ 3µS Reference Temperature: 5,10,15,20,25 ºC Temperature Compensation :Linear (0to 10.0%/ºC), nonlinear nLFn &nLFu, EP (USP), off Compatible Cell Constants:0.001to 199.9 Calibration Points:Up to 5 points CalibrationEditing:Yes Resistivity Range:2ohmto 100meg-ohm Resolution:1o	ductivity/TDS /Salinity/ Resisitivity/ Temp. Benchtop Meter Conductivity range: 0.0. to 475 µS/cm Resolution: 0. 1µS/cm Accuracy: ±1% of reading +2µS/cm TDS range: 0.001 mg/l to 200.0 g/l Resolution: 0.001/0.01/0.1/1mg/l Accuracy: ±0.5% full scale 0.01/0.1 g/l Salinity range: 0.0 to 80.0 ppt, resolution: ppt, accuracy ±0.5% full scale temprature range: -10.0 to 120.0°C resolution 0.1 °C accuracy ±0.4°C pH calibration upto 5 points Make: BOECO Germany	# 11621479 Model # Orion Star A322 Technical Specifications Conductivity Range: 0.001µS to 3000mS Resolution:0.001µS minimum, auto ranging, upto 4 significant digits Relative Accuracy:0.5% of reading ±1digit > 3µS, 0.5% of reading±0.01µS ≤ 3µS Reference Temperature:5, 10,15,20,25C Temperature Compensation: Linear (0 to 10.0%/ºC), nonlinear nLFn &nLFu, EP (USP), off Compatible Cell Constants:0.001to 199.9 Calibration Points:Up to 5 points Calibration Editing:Yes Resistivity Range:2 ohm to 100meg-ohm Resolution:1ohm or 0.1meg-ohm, auto ranging RelativeAccuracy:0.5% reading	Meter Model Orion Star A322 Resolution (Conductivity) 0.001 µS minimum, auto ranging up to 4 significant digits Resolution (Resistivity) 1 ohm or 0.1 megohm, auto ranging Resolution (Salinity) 0.01 psu or 0.01 ppt minimum, auto ranging Resolution (TDS) 0.001 ppm minimum, auto ranging up to 4 significant digits Resolution (Temperature) 0.1°C (0.1°F) Measurement Modes Conductivity, TDS, salinity or resistivity with temperature Outputs USB, RS232 Range (Conductivity) 0.001 µS/cm to 3000 mS/cm Range (Resistivity) 2 ohm to 100.0 megohm Range (Salinity) 0.06 to 80.00 psu, 0.05 to 42.00 ppt Range (TDS) 0.001 to 200.0 ppm Temperature Range (Metric) -5°C to +105°C Unit Size Each Make: Thermo Fisher Scientific		with GLP EC/TDS/NaCl/Temp bench meter; range: EC 0.00 to 2999 µS/cm; 30.0 to 299.0 µS/cm; 3 to 29.99 mS/cm; 30.0 to 200.0 mS/cm; to 500.0 mS/cm without cat; TDS range 0.00 to 14.99 mg/L (ppm); 150 to 1499 mg/L (ppme); 1.50 to 14.99 g/L (ppt); 15.0 to 100 g/L (ppt); to 400.0 g/L; NaCl range 0 to 400%. Temp range: -9.9 to 120.0°C. 1 point calibration for EC with 6 memorized values. NaCl with 1 point. Supplied with MA814DB/1 probe, electrode holder MA931S, software MiS200, RS232 connection with 2 meter cable, 12 VDC adapter and calibration solutions. Model MI 170 Milwaukee Made in Europe	range: 0.0 µS/cm to 199.9 mS/cm TDS range: 0.1 mg/l to 199.9 g/l Salinity range: 0.00 to 19.99psu Temperature range: 0°C to 100 °C Resolution Automatic range: 0.1°C Error Limits ± 0.5 % Measured Value. ± 0.3 °C Calibration 1 point. 3 predefined standards Memory 99 measurements. Last recent calibration data Power Supply 110-240V/50Hz, DC 12V Display White backlight liquid crystal Input Mini-Din Temperature Compensation Linear: 0.00 %/°C...10.00 %/°C Reference Temp.:(20 - 25°C) Housing Material ABS Standard Solution 50ml Model: STARTER 3100C Ohaus - USA	Conductivity/Salinity/spec. resistivity, TDS Conductivity 0.001 µS/cm ... 1000 mS Spezischer Widerstand 0.00 ... 199 MOhm cm Salinity 0.0 ..70.0 TDS 0 ... 1999m g/l Temperature -5.0 ... 105.0 °C ±0.1 °C (23 ... 221 °F) Cell constant 0.450...0.500 cm-1, 0.09 ... 0.110 cm cm-1, 0.800 to 0.880 cm-1, 0.25 ... 2.5 cm-1, fix 0,01 cm-1 Calibration 1-point Tref 20 °C/25 °C (68 °F/77 °F) temperature compensation nlF, linear 0.000 to 3.000%, resolution conductivity 0.1 µS/cm salinity 0.1, accuracy temp. 0.1 K Make: WTW Germany	Controlled with parallel temperature indication, Conductivity Range 0.0 us/cm to 1000 ms/cm, Accuracy 0.5%, Temperature Range -5.0 to +105.0°C, Salinity 0.0-70.0, TDS 0-1999 mg/l, Reference Temperature 20 or 25°C Selectable With following accessories. a) Conductivity Electrode with built in Temperature Sensor b) Electrode Stand with Base c) Standard solution 50 ml Complete package Model Inolab Cond 7110/Set operated on 220 Volts WTW Made in Germany. (xylem brand)	Parameters conductivity, resistivity, TDS, salinity, temperature Conductivity measuring range (0.00~20.00) µS/cm (20.0~200.0)µS/cm (200~2000) µS/cm (2.00~20.00) mS/cm (20.0~200.0) mS/cm Conductivity resolution 0.01/0.1/1µS/cm 0.01/0.1mS/cm Conductivity Accuracy Electrode: ±1.0%FS Instrument: ±1.50%FS Resistivity measuring range 0 ... 100 MΩ•cm TDS 0.00mg/L ~100 g/L Salinity 0~100 ppt Temp measuring range (0~100)°C Temp resolution 0.1°C	• HA Shah & Sons • Rays Technologies • New Chemical Centre •	Conductivity range is not according required specifications required 0.0 µS/cm to 3000 mS/provided 0.0. to 475 µS/cm • S U Enterprizes: Conductivity range: required 0.0 µS/cm to 3000 mS /offered 0.0 µS/cm to 199.9 mS/cm •Key Scientific Corporations: Authorization letter is not attached • RAAB Scientific Solutions: Authorization letter not attached Shalimar Scientific Stores TDS Range: 0.001to200.0ppt

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

Item	RQty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
		hmor0.1meg-ohm, auto ranging RelativeAccuracy:0.5% reading ±1 digit Salinity Type:Practical salinity or natural sea water Range:0.06to80.00psu, 0.05to 42.00ppt Resolution:0.01psu,0.01ppt RelativeAccuracy:0.5% reading ±1 digit TDS Range: 0.001to200.0ppt Resolution:0.001pptminimum, auto ranging, upto 4 significant digits RelativeAccuracy:±0.5% reading ±1 digit TDS Factor Range:Linear, 0.02to 9.99 Temperature Range:-5to105ºC, 23to 221ºF Resolution:0.1ºC,0.1ºF RelativeAccuracy:±0.1ºC, ±0.1ºF Offset		±1 digit Salinity Type:Practical salinity or natural sea water Range:0.06 to 80.00psu, 0.05to 42.00ppt Resolution:0.01 psu,0.01ppt RelativeAccuracy:0.5% reading ±1 digit TDS Range: 0.001to200.0ppt Resolution:0.001pptminimum, auto ranging, upto 4 significant digits RelativeAccuracy:±0.5% reading ±1 digit TDS Factor Range:Linear, 0.02to 9.99 Temperature Range:-5to105ºC, 23to 221ºF Resolution:0.1ºC,0.1ºF RelativeAccuracy:±0.1ºC, ±0.1ºF Offset Calibration:1point Make: Thermo Fischer Scientific USA								Temp accuracy ±0.5°C Data storage 300 sets Model, S-611L PEAK Instruments USA		

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

	tem	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
			Calibration:1point Make: Thermo Fischer Scientific USA											
4	Portable pH meter: pH: Range: -2.0 to 20.0, -2.00 to 20.00, -2.000 to 20.000 Accuracy (±1 digit): +0.1, +0.01, +0.005 (test sample temp 59 to 95 °F (15 to 35 °C)) Calibration: 1, 2, 3 point mV: Range: ±1200.0 mV, ±2000 mV Accuracy (±1 digit): +0.3, +1 (test sample temp 59 to 95 °F(15 to 35 °C)) Temperature: Range: 23 to 221 °F (-5.0 to 105.0 °C) Accuracy (±1 digit): ±0.2 °F (±0.1 °C) Mechanical and electrical Display: 7-Segment LCD Power Supply: Four 1.5V AA batteries or four 1.2 V NiMH Battery Life: Up to 2500 hours Dimensions (WxHxD): 9.45x7.48x3.15	2	Orion Star A221 pH Portable Meter Standard Kit pH Range:-2.000to20.000 Resolution:0.1, 0.01,0.001 RelativeAccuracy:±0.002 CalibrationPoints:Up to 5 mV/RmV Range:±2000.0mV Resolution:0.1 mV RelativeAccuracy:±0.2mVor ±0.05 % of reading whichever is greater EH ORP Mode:Yes Temperature Range:-5to105ºC, 23to 221ºF Resolution:0.1 ºC,0.1ºF RelativeAccuracy:±0.1ºC, ±0.1ºF Offset Calibration:1point Power AC Adapter:Optio	Not Quoted	Model No / Cat # 15612057 Model # Orion Star A221 Make: Fisher Brand AC Adapter Universal 50-60 Hz, 100-240 VAC power adapter (sold separately, Cat. No. 1010003) Accuracy (mV) ±0.2 mV or ±0.05% of reading whichever is greater Accuracy (pH) ±0.002 Alarm Output Calibration due alarm (fixed 12 hour) Backlight Option Yes, selectable Battery Life 800 hr. Battery Type 4 x AA Calibration pH, relative mV (RmV), ORP and temperature Calibration Points 1 point relative mV (RmV) mode, 1	STARA2218 Orion Star™ A221 Portable pH Meter Range (mV) ±2000 mV Range (ORP) ±2000.0mV Range (pH) -2 to 20 Range (Relative mV) ±2000.0mV Relative Humidity Range 5 to 85%, non-condensing Resolution (pH) 0.1, 0.01, 0.001 Resolution (mV) 0.1mV Resolution (Temperature) 0.1°C, 0.1°F Stability Smart Stability and Smart Averaging Temperature (English) Operating 41°F to 113°F (ambient) Temperature (Metric) Operating 5°C to 45°C (ambient) Temperature Probe Calibration 1 point temperature offset calibration Temperature Range (English) 22.0°F to 221.0°F Temperature Selection Manual or automatic with ATC temperature probe Weight (English) 1.2	Not Quoted	Portable pH meter Range pH –2.00 to 20.00 pH / -2.000 to 20.000 pH mV ±2000 mV Temp* -20.0 to 120.0 °C (-4.0 to 248.0 °F) Resolution pH 0.01 pH / 0.001 pH mV 0.1 mV Temp 0.1°C / 0.1°F Accuracy pH ±0.01 pH / ±0.002 pH (@25°C) mV ±1 mV Temp ±0.5°C up to 60°C; ±1°C outside / ±1°F up to 140°F; ±2°F outside pH Calibration automatic, up to 5 points calibration, 7 standard buff ers available (1.68, 4.01,6.86, 7.01, 9.18, 10.01, 12.45) and two custom buff ers ORP Calibration factory calibratedTemperature Compensation automatic, from -5 to 80°C / 23 to 176°F Probe MA906BR/1 amplifi ed pH/temperature probe (supplied) Temperature probe Built-in temperature probe	PH meter Measurement Range 0.00...14.00 pH, -1999...+1999mV, 0 °C...100 °C Resolution 0.01 pH, 1 mV, 0.1 °C Error Limits/Accuracy ± 0.01 pH, ± 1 mV, ± 0.5 °C pH Calibration Up to 3 points Calibration Buffer 4 predefined buffer group Memory 30 sets, most recent calibration data Power/Battery 4 x AAA >500 hrs Display Liquid crystal pH Input BNC, impedance >10e+12 Ω Temp. Input Cinch, NTC 30 kΩ Temp Compensation ATC or MTC Temp Compensation Range 0 °C...100 °C IP Rating IP54 Housing Materials ABS Model: STARTER	pH meter Portable Specification: pH -2.000 ... +19.999 ±0.005 pH mV -1200.0 ... +1200.0 ±0.3 mV -2000 ... +2000 ±1 mV Temperature -5.0 ... +105.0 ±0.1°C (23 ... 221 °F) Calibration 1, 2 or 3-point calibration Display 7-Segment LCD, customized For battery operation, with Electrode Sentix 41 Model PH 3110 Set 2, WTW Made in Germany.	The pH 3110 is ideal for all seeking an easy, robust and waterproof instrument for portable pH measuring. Features: • pH or ORP measurements • Easy 1- to 3-point calibration with adjustable calibration timer • Robust and waterproof (IP 67) Specification: pH -2.000 ... +19.999 ±0.005 pH mV -1200.0 ... +1200.0 ±0.3 mV -2000 ... +2000 ±1 mV Temperature -5.0 ... +105.0 ±0.1°C (23 ... 221 °F) Calibration 1, 2 or 3-point calibration Display 7-Segment LCD,	Display 6.5 inch LCD screen Parameters pH, mV, temperature Measuring range -2.00 ~ 18.00 pH Resolution 0.01/0.1 pH Accuracy ±0.02pH mV Measuring range -1999.00~ 1999.00 mV mV Resolution 1mV mV Accuracy ±0.1%FS Temp Measuring range 0~ 100°C Temp Resolution 0.1°C Temp Accuracy ±0.5°C Temp Compensation 0-100°C, automatic Calibration 1, 2, 3 point, automatic	• Pak Fil Technologies • HA Shah & Sons • Rays Technologies • New Chemical Centre	• Shalimar Scientific Stores: Temperature range required23 to 221 °F (-5.0 to 105.0 °C)/offered -20.0 to 120.0 °C (-4.0 to 248.0 °F) • S U Enterprizes: pH range required -2.0 to 20.0/offered 0.00...14.00 •Key Scientific Corporations: Authorization letter is not attached • RAAB Scientific Solutions: Authorization letter is not attached

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

Item	RQty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
ich (240x190x80 mm) Weight: 2.2 lb (1 kgs) Compliance: CE, cETLus Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.		nal— universal, 100-240VAC Battery Power:Included—4AAs BatteryLife:800hrs Make: Thermo Fischer Scientific USA		point ORP mode Certifications/Compliance CE, TUV 3-1, FCC Class A Data Management Details Transfer single, range or all data points to printer or computer Data Points 1000 with date and time stamp Description Orion Star A221 pH portable meter Dimensions (L x W x H) 24cm x 10cm x 6.5cm (9.5 in. x 3.9 in. x 2.6 in.) Includes Star A221 pH meter, 4 AA batteries, computer cable Inputs BNC (pH or ORP electrode), pin-tip (reference electrode), 8 pin MiniDIN (ATC temperature probe) Isopotential Point 7.000pH Keypad Comprehensive with menu-specific function keys and dual purpose scroll/shortcut	lb. Weight (Metric) 0.5 kg Unit Size Each Make: Thermo Fisher Scientific		Model MW 106 MAX Milwaukee Made in Europe	300 Ohaus – USA		customized For battery operation, with Electrode Sentix 41 Model PH 3110 Set 2, WTW Made in Germany. (Xylem)	Model, S-610L PEAK Instruments USA		

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

Item	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
				keys Languages English, Spanish, French, Italian, German and Chinese; Portuguese and Korean available with software update Log Function Type Automatic data logging with Auto-Read measure mode; manual data logging with Continuous measure mode Memory Non-volatile memory preserves data log, calibration log and meter settings Methods 10 per channel with password protection Model Orion Star A221 pH/mV/RmV/ORP/Temperature Portable Meter Power Supply Universal AC adapter (included) or 4 AA batteries (sold separately) Probe Type pH electrode, ORP electrode,									

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

Item	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
				reference half-cell electrode, ATC temperature probe (purchase separately) Range (ORP) ±2000.0 mV Range (Relative mV) ±2000.0 mV Relative Humidity Range 5 to 85%, non-condensing Resolution (mV) 0.1mV Stability Smart Stability and Smart Averaging Temperature Accuracy ±0.1°C Temperature (English) Operating 41°F to 113°F (ambient) Temperature (Metric) Operating 5°C to 45°C (ambient) Temperature Probe Calibration 1 point temperature offset calibration Temperature Range (English) 22.0°F to 221.0°F Temperature Resolution 0.1°C, 0.1°F									

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

	Item	RQty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
					Temperature Selection Manual or automatic with ATC temperature probe Warranty 3 Year Meter Weight (English) 1.2 lb. Weight (Metric) 0.5 kg Channels 1 Display Type LCD Graphic, Backlit IP Rating IP 67 Measurement Modes pH, mV, relative mV (RmV) or ORP with temperature Outputs USB, RS-232 Range (mV) ±2000.0 mV Range (pH) -2 to 20 Resolution (pH) 0.1/0.01/0.001 Temperature Range (Metric) -5.0°C to +105.0°C Unit Size Each										
5	Ultrasonic cleaner: The kind of ultrasonic cleaning machine can be used for cleaning metal oil stains,metal wax stains ,glasses, jewelry, ink cartridges, watches and	3	Not Quoted	Benchtop Ultrasonic Cleaner Capacity 6.8 LTank dimensions (L × W × H) 300 × 150 × 150 mmHeating Power 200	Ultrasonic Cleaner Model No / Cat # S-DS-6P Technical Specifications:Stamped Stainless Steel 304 tank without welding gapSUS 304 stainless	Not Quoted	Not Quoted	Ultrasonic cleaner, digital, made of stainless steel, with lid, capacity: 6 L,heat temperature: up to 80°C, timer 0-60 min., tank size inner 290 x 150 x H 150 mm, power 425 W, incl. one wire basket, Useful for Cleaning to	Improved 40Khz high frequency sound wavesSweep frequency for uniform cleaning These cleaner transform low frequency AC current into 40khz high	Ultrasonic Cleaning Bath with Plastic lidModel: E100HTechnical Specifications: Tank max. (litre) = 9.50 Tank internal dimensions = 300x240x150mmMains voltage variants (Vac) = 220	Cleaning tank made of cavitation-resistant stainless steel. - Casing made of stainless steel, hygienic and easy to clean - Permanent sweep function	Tank max.(litre) = 9.50 - Tank internal dimensions = 300x240x150 mm- Mains voltage variants (Vac) = 220 - Ultrasound	• Sind MedicalStores • Shalimar Scientific Stores• SU Enterprizes• Rays Technologies •	• RAAB Scientific Solutions: Authorization letter not attached• Key Scientific Corporations:

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

tem	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
her tems.Features:Using ordinary tap water, alcohol or a solvent as the cleaning liquidHigh-power transducer is has good cleaning effect ,can be visually observed use your eyesDigital timer to control the timeAll materials are stainless steelExcellent waterproof makes a safe product and a long working lifeModels which equipped with a heating system have the thermostat systemTechnical Parameters:Ultrasonic Frequency:40KHz Interior Material: Stainless Steel SUS304Capacity: 6LTime Controller:Digital timing control range 0 to 30 minutesPower supply:AC 100~120V,50/60 Hz AC 220~240V,50/60 HzUltrasonic Power:120W, 2 Vibration headsHeating power: 100W(digital			WFrequency 40 kHzTiming 1 min ~ 30 minMake: Labotronics Scientifc Ltd , Canada	steel lid, basket and housingCooling fan for prolonged operation:6L and above volume machineDrain pipe on side for easy draining and cleaningTank and other metal parts are grounded (ESD-safe)Ceramic heaters for better heating effectSide handles for easy handling :3L and above machinesDegas mode to get the cleaning started fasterAdjustable power for maximum versatility: for DS-P series machinesAll series machines are with timer and heaterAdjustable heating: 0-80°CMake: Stalwart			Remove Dirt, Grease, Waxes and Oil from all Lab instruments by Ultrasonic Frequency ษ Microprocessor Control : Timer, Temperature and Output Control ษ Multi-Frequency Sonication Body ษ HF-Frequency : 40kHz ษ Temperature power supply 230 V, 50/60 Hz , Model WUC-D06H Witeg LMS Germany	frequencyThe leakproof housing features super sealing. The 304 stainless steel tank is surrounded by a durable, impact resistant polypropolene housing. Sealed membrane control panel is impervious to splashes and spills.Cleaner with heater, digital timer, temperature. Temperature range: +5 to 80CTimer: 0 – 60minStainless Steel lidUniversal basketBasket for small items Lid with handle and drain plugCapacity: 5 LitersModel: Ultrasons – HDCat # 3000865J. P. Selecta – Spain	Ultrasound frequency (kHz) = 37 Power consumption total (W) = 500 temperature setting between 30°C and 80°C , variable on 5°C Made in Germany	for an optimised sound field distribution in the cleaning liquid. - Temperature-controlled ultrasonic operation:- Splashwater-proof operating panel. - Temperature setting between 30C°, and 80C°, variable in 5C°, steps. - Automatic switch-off after 12 h operation to prevent unintended permanent operation. Technical Specifications: - Tank max.(litre) = 5.75 - Tank internal dimensions = 300x 151x 150mm- Ultrasound frequency (kHz) = 37 - Mains voltage variants (Vac) = 220Model E60H, Elma Made in Germany.	frequency (kHz) = 37 - Power consumption total (W) = 500 Model E100H, Elma Made in Germany		Authorization letter is not attached New Chemical Centre Model mentioned could not meet the requirement.

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

	Item	RQty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	ontrol)Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.													
6	Nitrogen Gas Cylinder: 50 L	2	Not Quoted	Not Quoted	Nitrogen Gas Cylinder Model No / Cat # STC30/50M Make: Stalwart	Not Quoted	Not Quoted	Nitrogen Gas Cylinder 10cubic /50 L Pakistan	Not Quoted	Not Quoted	Not Quoted	Not Quoted	•New Chemical Centre •Shalimar Scientific Store	
7	Autoclave (250 ml): BAOSHISHAN 250ml Hydrothermal Synthesis Autoclave Reactor 304 Stainless Steel High-Pressure Digestion Tank with PTFE Lined for Rapid Digestion of Insoluble Material Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.	5	Not Quoted	Not Quoted	Autoclave 250 ml Model No / Cat # TP/HT250 Make: Toption Technical Specifications: Material Made of: Shell made of quality stainless steel. Liner materials is special PTFE. Safe temperature is 220°C. Remarks Working pressure ≤3 Mpa (surface pressure). Tempe heating and cooling speed: ≤ 5°C/ min. Break down the	Not Quoted	Not Quoted	Autoclave Capacity 250ml Hydrothermal Synthesis Autoclave Reactor 304 Stainless Steel High-Pressure Digestion Tank with PTFE Lined for Rapid Digestion of Insoluble Material Biobase China	Not Quoted	Not Quoted	Not Quoted	Not Quoted	• Shalimar Scientific Stores	• New Chemical Centre Athorization letter not provided

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

	tem	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
					refractory material quickly. Make: Toption									
8	Moisture Analyzer: Dimensions (L x W x H): 40 x 21.5 x 21cm Repeatability For initial sample weight approx. >1g Sample Size: 5 to 15 g Electrical Requirements: 120V, 50/60Hz Heat Source: Infrared Temperature range: 40-160oC Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.	2	SINAR6095 SinarAgriPro Moisture Analyser Accuracy: Better than +/-0.5% mc dependant upon application Measurement range: 5%-45% dependant upon application Operating Environment: 0-45°C Dimensions: 21 x 7.5x 7.5cm Weight: 1.5Kg (including carry case) Power Supply: 9v Alkaline Principle of Operation: Capacitance Temperature Compensation: Automatic Read out	Halogen Moisture Analyzer Range: 110 g Readability: 0.001 g Pan size Φ 90 mm Communication mode: Press and continue Heat source: Halogen lamp Operating temperature : 5 °C to 35 °C Temperature range: 40 °C to 199 °C Temperature sensor: PT-100 Temperature step: 1 °C Moisture range: 0.00 % to 100 % Moisture readability: 0.0001 Dry residual range:	Not Quoted	Not Quoted	Not Quoted	Moisture Analyzer with Infrared Heater the i-Thermo G are rugged instruments for moisture determination of raw materials and finished samples in the food, cosmetics, ceramics, agriculture and construction industry. Capacity 160g Resolution 0,001g Calibration External Pan size 100mm Samples Pan Repeatibility 0,001g Linearity ± 0,003g Response time (sec.) ≤4 Moisture Readability 0,01% Moisture Repeatibility ± 0,20% (~2g sample) VerificationN/A Temperature Range 35-160°C, step of 1°C Drying ModesTime (1-99min) / Autostop %	Capacity 90g Repeatability (Std Dev) (g) 0.2% (3g sample) 0.05% (10g sample) Readability 0.05% / 0.005g Sample Size 3g to 20g typical, 0.5g min. Interface Bidirectional RS-232 Timer 1 - 99 minutes, 30-second increments to 60 minutes Heating Technology Halogen Temperature Range 50°C to 160°C in 5° increments Power 100 to 240 VAC, 50/60 Hz Tare Range To capacity by subtraction Temperature Range 5° to 40°C Display Type Custom backlit	Moisture Balance Capacity: Max = 60g, Min = 0.02g Minimum readability : 0.001g, 0.01/0.1% (Selectable) Repeatability: 0.15% (2g), 0.05% (5g), 0.02% (10g) Drying heater: Straight type halogen heater Power: 400W Temperature range: 40-200°C Temperature range setting: 50 to 200°C (1°C increments) Display: LCD with backlight Pan size: Ø95mm Timer setting: 1-120 minutes or continuous, (max 12 hours) Interface: RS-232C (9-pin connector) I/O port, USB port Data memory: 100 Model MOC63U, Shimadzu Japan Model MOC63U, Shimadzu, Japan	Capacity: Max = 60g, Min = 0.02g Minimum readability: 0.001g, 0.01/0.1% (Selectable) Repeatability: 0.15% (2g), 0.05% (5g), 0.02% (10g) Drying heater: Straight type halogen heater Power: 400W Temperature range: 40-200°C Temperature range setting:50 to 200°C (1°C increments) Display: LCD with backlight Pan size: Ø95mm Measurement modes: Standard, (Easy start / Automatic end / Timed end) Rapid drying, (Easy start /	Capacity: Max = 60g, Min = 0.02g Minimum readability: 0.001g, 0.01/0.1% (Selectable) Repeatability: 0.15% (2g), 0.05% (5g), 0.02% (10g) Drying heater: Straight type halogen heater Power: 400W Temperature range: 40-200°C Temperature range setting:50 to 200°C (1°C increments) Display: LCD with backlight Pan size: Ø95mm Timer setting: 1-120 minutes or	• Rays Technologies • SU enterprizes •Shalimar Scientific Stores •Sindh Medical Stores •	•RAAB Scientific Solutions: Authorization letter not attached •Key Scientific Corporations Authorization letter is not attached Pak Fill Technologies: Providing portable agri moisture analyzer which is not required.

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

Item		Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
			resolution: 0.1% mc Make: Sinar technology UK	100.00 % ~ 0.00 % Dry residual readability: 0.0001 ATRO (1 :) 100 % ~ 999 % ATRO (2): 0 % ~ 999 % Temperature setting: 40 °C ~ 199 °C by 1 °C step Time setting: 1 min ~ 99 min by 1s step Number of storage: 15 Number of history: 15 Operation height > 50 cm Chamber height: 22 mm Display: LCD Calibration: External Autostop: 0.1 % ~ 9.9 % within 1 min Interface: RS232 Heater power: 220 V ± 15 % 50 Hz 115 V ± 15 % 400 W Make: Labotronics Scientific Ltd Canada				Temperature Profiles standard Display Of Results Moisture % , Dry residue % , ATRO, Weight Printout Of Results Current drying mode, Current result, date/ time (only with TLP-50 printer) Max Sample Height 25 mm Lamp infrared lamp Minimum Load 20 mg Display Dot Matrix Graphical Tare Range (Subtractive)160 g Span Drift In +10...+30°c± 4 ppm/°C Interface RS232 Working Temperature5 - 35°C Power Supply220-240Vac Model i Therom G163L Bel Engineering Italy	LCD Displays % moisture or % solids or weight (g), temperature, time Pan Size (Diameter) 90 mm Included Accessories Sample Pans (Quantity 50) Standard In Use Cover Standard Model: MB 27 Ohaus – USA		Automatic end / Timed end) Step drying, (Easy start / Automatic end / Timed end) Timer setting: 1-120 minutes or continuous, (max 12 hours) Interface: RS-232C (9-pin connector) I/O port, USB port Data memory: 100 Complete unit, Model MOC63U, Shimadzu, Japan	continuous, (max 12 hours) Interface: RS-232C (9-pin connector) I/O port, USB port Data memory: 100 Model MOC63U, Shimadzu, Japan		
9	Autoclave (100 mL):	1	Not Quoted	Not Quoted	Autoclave 100 mlModel No /	Not Quoted	Not Quoted	Digital Autoclave fully automatic Capacity 60	Capacity: 85 LitersChamber	AutoclaveGR series intelligent	Autoclave Digital	External Dimensions	• • S U Enterpriz	• New Chemical

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

Item	Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
Digital Microprocessor Controlled Vertical UnitTemperature Range 105 to 135º C Interior Chamber Stainlesssteel, capacity 50 Lit interior chamber dimension 300x710 D mm, Built in Timer 1 to 250 Minutes and Pressure Gauge 0to 0.4 mpa, Selected Modes for Liquid and Solids and AgarProcess, Complete with stainless Steel Baskets operated on220 Volts Electromechanical Lock System.Dual Sensing Interlock mechanism.Pulse Sensing System for Air Exhaust. Programmable Auto start Process Status Display Over Pressure Cutoff. Over Temperature Cutoff.Pressure Safety valve.Complete Unit as above with standard accessories, Germany or UK or Japan or USA or				Cat # TP/HT100Technical Specifications: Material Made of:Shell made of quality stainless steel.Liner materials is special PTFE.Safe temperature is 220°C.Remarks Working pressure ≤3 Mpa (surface pressure).Temp e heating and cooling speed: ≤ 5°C/ min.Break down the refractory material quickly.Make: Toption			Liters, Chamber material SUS304, Sterilization temperature 105-138C, Melting/ dissolution temperature rang 60-100C ,Temperature accuracy ±0.1C,dual sensor interlocking system , electronic lock system Range of sterilization time 1-300minutes, Fully automatic internal discharging Embedded with a steam trapping bottle, drainage hose, water plate, exhaust bottle, Two stainless steel baskets, inter locking device, electric double inner locks, dry scorch protection, over pressure protection, safety valve, over temperature protection, over current and short circuit protection, leakage protection, cooling lock, anti-scald chamber cover and bench, automatic troubleshooting Model GR 60DAZealway Instruments USA	material: SUS304Rated power supply: 220V/50HzRate power (W): 4600Sterilization temperature: 105—138°CRange of sterilization time: 1—300minutesMelting temperature: 60—100°CRange of melting time: 1—300minutesWarming temperature: 45—60°C Range of melting time: 1—9999minutesExhausting mode: Fully automatic internal discharging Embedded with a steam trapping bottleWay of opening lid: Flip typePreset range of timer: 0 minute-6 days delayedPreset range of timer: 0-0.6MPaRated working pressure: 0.27 MPaPreset temperature of preset-ablechamber lid opening:Preset range of steam 73—104°Cexhausting temperature:Preset range of cooling 40-99°C for solid and agar	autoclavesTechnical Data:Capacity 60 LitTemperature accuracy 0.1°CWorking environment 5-45°C, relatively humidity 10%-85% Chamber materrial SUS 304Sterilization temperature 105-138°C Sterilization time range 1-6000minutes Melting temperature 60-100°C Melting time range 1-6000minutes Warming temperature 45-60°C Warming time range 1-9999minutesCooling lock OPEN temperature 40-80°C for liquid cycle, Sterilization cycle 1. Solid cycle 2.Liquid cycle 3.Liquid with warming cycle 4. Agar cycle Model GR-60DA, Zealway USA(Country of Origin: China) Model GR-60DA, Zealway USA	Microprocessor Controlled Vertical Unit Temperature Range 105 to 135º C Interior Chamber Stainless steel, capacity 50 Lit interior chamber dimension 300x710 D mm, with Built in Timer 1 to 250 Minutes and Pressure Gauge 0 to 0.4 mpa, Selected Modes for Liquid and Solids and Agar Process, Complete with stainless Steel Baskets operated on 220 Volts with following Features:-a. Electromechanical Lock System. b. Dual Sensing Interlock mechanism. c. Pulse Sensing System for Air Exhaust. d. Programmable Auto start e. Process Status Displayf. Over Pressure Cutoff. Over Temperature Cutoff, Pressure Safety valve.Complete Unit as above	478 x 632 x 748(W x D x H) mmInternal Dimensions 370 x 415(diameter x depth) Ø mmEffective chamber height incl. recess in lid: 463 mmVolume 50 litersPerformanceMax. Pressure 0,240 MpaSterilisation temperature 115 oC ~ 135 oCCulture media melting temperature 60 oC ~ 114 oCKeep warm temperature 45 oC ~ 60 oCControlSterilisation timer min. 1 to 300Melting timer min. 1 to 300Keep warm timer hrs. 72 hours fixedExhaust control Exhaust valve open temperature settingConstructionExterior material	es• Rays Technologies•	Centre: Athorization letter is not valid • RAAB Scientific Solutions: Authorization letter is not attached Shalimar Scientific Stores voltage requirement and pressure gauge range are not mentioned. Key Scientific Corporation Pressure requirement is not fulfilled.

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

	...em	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	...quivalentNote: Valid authorized certificate from the manufacturers/foreign principals must be attached.								modes and 40-80°C for liquid waste lock OPEN temperature: & waste modesAccessories drainage hose, water plate, exhaust bottle, Two stainless steel basketsController: "inspiration" fast speed microcomputer intelligent control systemSafety device: "eight-column evenly distributed" rotor locking device, electric double inner locks, dry scorch protection, over pressure protection, safety valve, over temperature protection, over current and short circuit protection, leakage protection, cooling lock, anti-scald chamber cover and bench, automatic troubleshootingModel: RTA BioRobus Technology Ltd - UK		with standard accessories, Model HVE-50 Hirayama Manufacturing Made in Japan	Stainless steel (SUS 304)Interior material Stainless steel plateOperated on 220 Volts Model MLS-3751L, PHCbi Made in Japan		
10	Centrifuge Machine Benchtop Micro Centrifuges Ideal for High-Speed Lab Applications	4	Not Quoted	Boeco Centrifuge M-240R with Angle Rotor Max RPM (Speed)/	Not Quoted	5427000615 Centrifuge 5430, rotary knobs, non-refrigerated, without rotor, 230 V/50 – 60 Hz	Not Quotted	Refrigerated Centrifuge Machine with multiple rotor Maximum volume Capacity 4x100ml, maintenance free	Digital Microprocessor Controlled, Special lid locking device, Effortless closing and	Micro Centrifuge Machine Refrigerated Digital microprocessor controlled with large LCD display, Speed range 200 to	Temperature range -20°C to 40°C CFC Free Refrigeration System	Digital microprocessor controlled with large LCD display, Speed range	• HA Shah & Sons • Shalimar Scientific	• Sind medical store emperature Range required –

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

...tem	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
...entrifuges 24 x 1.5/2ml micro tube rotor with a biocontainment option. Additional rotor options support 5ml microtubes, spin columns, PCR stripes, and hematocrit capillary tubes. • Designed for ease of operation, Frontier Micro centrifuges feature convenient control on an intuitive interface, which allows for responsive operation – even when wearing gloves. • Enclosing all their functionalities within a small footprint, Frontier Micro centrifuges save valuable space on the lab bench. Speed Range: 200 rpm – 15,200 rpm Maximum Relative Centrifuge Force (x g 21,953 g Construction: Quiet operation,(Brushless motor) small footprint			RCF: 15,000 RPM / 21,382 RCF Noise Level: 52 dB(A) Dimensions in mm (HxWxD): 260 x 281 x 533 Infinitely variable setting from −10 °C to +40 °C Fast Cool function in 10 - 15 min to +4 °C Stand by mode maintains the set temperature Automatic refrigeration switch-off when the lid is opened Make: BOECO Germany		Max. rotor capacity: 48 × 1.5/2.0 mL, 6 × 50 mL, 2 × MTP Max. speed: 30,130 × g (17,500 rpm) Remarkable versatility with 12 different rotors Soft-touch one-finger lid closure for ergonomic operation Menu-driven, multi lingual operation menu (English, German, French, Spanish) with large backlit display 5 program keys for easy access to routine programs Saves up to 50 user-defined programs Automatic rotor recognition and imbalance detection for maximized operational safety Eppendorf QuickLock® – System for quickly opening and closing the rotor lid 5427754008 Rotor FA-45-48-11, aerosol-tight, incl. rotor lid, for 5430/5430R Max. speed: 18,210 × g (12,700 rpm) Max. capacity: 48 × 1.5/2.0 mL tubes Aerosol-tight for safe centrifugation of hazardous samples Eppendorf QuickLock® lid Compatible with the 5430 and 5430R with		brush-less motor with a speed range of 18000 rpm universal speed range, RCF 23542 microcontroller with automatic rotor identification, LCD Display for the preselection of all centrifuge parameters 10 each curves of acceleration and deceleration, simple starting, Temperature control range −20 to +40°C, with built in time display, range 0 – 99hr or infinite, Operated on 220 Volts, with following rotors as per tender 1 No. angle rotr capacity 44*1.5/2.0 ml 1 No. angle rotor capcity 12*5ml Model Z326K, Hermle Made in Germany	opening of the lid with one hand, Ergonomically arranged controls and displays, Viewing port in the lid, 10 complete running programs can be stored and recalled, Temperature: -20 to +40C Safety Metal housing and lid, Centrifuging chamber of stainless steel, Lid dropping protection, Lid locking and holding during rotor run, Emergency lid lock release, Motor overheating protection, Chamber overheating protection with MIKRO 220R, Imbalance switch-off , Easily exchangeable rotors, Automatic rotor recognition Temperature: -20 to +40C Specifications: Max Speed: 18000rpm, Max RCF: 31514xg, Max capacity: 48 x 1.5/2.0ml, Timer: 1-99min or continuous, Short cycle: impulse key	15000 rpm Automatic motor driven lid lock. Active imbalance-identification and cut off Storage up to 99 programmes. Pre selection of the running time range 99 hr 59 minutes. Temperature range -20°C to 40°C, Standstill cooling. Selection of speed in both rpm and G-force. Quick Key for short Runs CFC Free Refrigeration System With Angle rotor 44 x 1.5/2.0 ml tubes Speed 15000rpm Complete with above Rotor, Operated on 220 Volts, Model Z216MK, Hermle Germany OPTIONAL FOR ABOVE i. Combi-angle rotor for 24 x 1.5ml tubes and 4 x 8 place PCR Stripes Speed 15000rpm ii. Angle rotor 12 x 5 ml Reaction tubes Speed 14500rpm	Digital microprocessor controlled with large LCD display Speed range 200 to 15000 rpm Automatic motor driven lid lock. Active imbalance-identification and cut off Storage up to 99 programmes. Pre selection of the running time range 99 hr 59 minutes. Quick Key for short Runs With Angle rotor 44 x 1.5/2.0 ml tubes Speed 15000rpm Complete with above Rotor, Operated on 220 Volts, Model Z216MK, Hermle Germany. OPTIONAL FOR ABOVE i. Combi-angle rotor for 24 x 1.5ml tubes and 4 x 8 place PCR Stripes Speed 15000rpm ii. Angle rotor	200 to 15000 rpm, Maximum RCF 21380 x g Capacity 24 x 1.5 ml or as per rotor, with following features: - Automatic motor driven lid lock. - Maintenance free induction drive - Active imbalance-identification and cut off - Storage up to 99 programmes. - Pre selection of the running time range 99 hr 59 minutes. - Temperature range -20°C to 40°C, - Standstill cooling. - Selection of speed in both rpm and G-force. - Quick Key for short Runs - CFC Free Refrigeration System - Manufacture	Stores • S U Enterprizes • Key Scientific Corporations	20 °C to +40 °C / provided – 10 °C to +40 °C aximum capacity required (Rotor) 44 x 1.5 / 2.0ml; 12 x 5 ml / not provided •RAAB Scientific Solutions Authorization letter is not attached •Rays Technologies Authorization letter is not attached

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

Item	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
Temperature Range (-4 °F – 104 °F) (-20 °C – 40 °C) Safety Features Single touch lid-closer system advanced Motorized prevents centrifuge from opening Cooling Built-in Fast Pre-cooling option in only 8-10 min (deponed on rotor type) Protection Technology Advance Imbalance sensor that stops the centrifuge if the any imbalanced or sudden shock occurs, protecting your samples Stopping Centrifuge pre-selected running time has ended the centrifuge will stop automatically reducing energy consumption and extending life of system. Maximum Capacity (Rotor) 44 x 1.5 / 2.0ml; 12 x 5 ml Program memories: 99 Germany or UK or Japan or USA					serial numbers at or above 16,000. For other numbers a software update is needed. Please contact your sales representative Make: Eppendorf Germany AG			for short cycle. Temperature: -20 to +40C Rotor # 1158-L Speed: 18000 rpm, RCF: 31514xg, Capacity: 48 x 1.5/2ml Rotor # 1015 Speed: 6000 rpm, RCF: 4146xg, Capacity: 12 x 5ml Model: MICRO 220R Hettich Germany		12 x 5 ml Reaction tubes Speed 14500rpm	d according to international safety regulations - 10 acceleration & deceleration rates - Audible signal at the end of each run 1-No. Angle rotor 44 x 1.5/2.0 ml tubes Speed 15000rpm Complete with above Rotor, Operated on 220 Volts, Model Z216MK, Hermle Made in Germany. IF NEEDED FOR ABOVE a. Combi-angle rotor for 24 x 1.5/2.0 ml tubes and 4 x 8place PCR Stripes Speed 15000rpm b. Angle rotor 12 x 5 ml Reaction		

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

	tem	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	r equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.											tubes Speed 14500rpm		
11	Cold Cabinet: Pharmaceutical Refrigerators/Cold Cabinets Precise temperature control, Superior cooling performance, Forced air condition, Double-glazing glass door, Slim, and space saving design, Useful alarm function, Specification: Temperature control: 2°-14°C, Temperature display Digital (1° C increments), Interior dimensions: 720W x 350D x 1435H mm, External Dimensions 800W x 465D x 1800H mm, Effective capacity: 340 liters (12.0 cu.ft.), Net Weight 100Kg (220lbs), Internal cabinet: Stainless steel. Insulation polyurethane	2	Not Quoted	Not Quoted	Cold Cabinet Model No / Cat # STF-395P Specification: Temperature control: 2°-8°C, Temperature resolution (0.1° C increments), Interior dimensions: 580W x 533 x 1352 mm, External Dimensions 650W x 673 x 1992 mm, Effective capacity: 395 liters, Net Weight 95/108Kg Make: Stalwart	Not Quoted	Not Quoted	Cold Cabinet Pharmacy Refrigerator digital microprocessor controlled temperature refrigerator with holding capacity of 350 liters and 5 pieces wired storage shelves. Temperature Range : 2 °C to 15 °C Temperature Set Point : + 4 °C Number of Wire shelves : 5 Net volume : 350 L Gross Volume : 390 L Inner Surface Material : CR-Ni 304 Output : USB Voltage Supply : 195 V to 230 V, 50 Hz Internal Dimensions (W × L × H) : 516 × 543 × 1390 mm External Dimensions (W × L × H) : 600 × 640 × 2000 mm Weight : 147 kg Model LPRF-A11 Labtron UK	Advantages of the Smart controller: 4,3", clear, full colour touch screen LAN, USB ports for data transfer Multi-segment time and temperature programs Visual and sound alarm Internal memory for programs and data storage Event registry Quick change of program parameters Alarm Bar Operating with gloves on Controller Smart Display 4.3" + touch screen Network LAN USB YES (saving registration data saving events) Keypad Numeric Main Screen Dashboard (all relevant data visible from one main window) Programs 5 Program name	Cold Cabinet External dimensions 610 x 716 x 1886(W x D x H)mm Internal dimensions 516 x 550 x 1467(W x D x H) mm Volume 400 Liters Temperature control range +4°C to +14°C Controller Microprocessor with non-volatile memory Temperature display Digital Temperature sensor Thermistor Cooling method Forced cool air circulation Defrost method Timer Cycle defrost Refrigerant HFC (CFC-Free) Insulation Rigid polyurethane foamed insulation (CFC-free) Exterior material Painted steel Interior material Vacuum molding (ABS resin) Outer doors 1 (Plastic sash with 2-layer glass window) Outer door lock Y (Cylinder key lock) Shelves 5 (polyethylene-coated	Technical Data: External dimensions 610 x 716 x 1886(W x D x H)mm Internal dimensions 516 x 550 x 1467(W x D x H) mm Volume 400 Liters Temperature control range +4°C to +14°C Controller Microprocessor with non-volatile memory Temperature display Digital Temperature sensor Thermistor Cooling method Forced cool air circulation Defrost method Timer Cycle defrost Refrigerant HFC (CFC-Free) Insulation Rigid polyurethane foamed insulation (CFC-free)	Temperature control: 2°-14°C Temperature display Digital (1° C increments) Interior dimensions: 720W x 350D x 1435H mm External Dimensions 800W x 465D x 1800H mm Effective capacity: 340 liters (12.0 cu.ft.) Net Weight 100Kg (220lbs) Internal cabinet: Stainless steel. Insulation polyurethane foam Doors: Sliding glass doors, double-paned glass With heat-reflective film Shelves: Hard Steel Wire	•New Chemical Centre: •Shalimar Scientific Store • SU Enterprizes Key •Scientific corporation	•RAAB Scientific Solutions: Authorization letter not attached •Rays Technologies Authorization letter is not attached

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

Item	Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
,oam,glass doors, double-paned glass with heat-reflective film,Shelves: Hard Steel Wire Lighting / Casters: LED/2 casters Compressor Hermetic type, 160 W Refrigerant HFC, Defrosting cyclical defrosting & evaporator temp. detection system, Defrosting heaters 101 W, Door ajar alarm: Buzzer/door ajar lamp, Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.								Free number assigned Priority Parameters Segments 6 Data registry max. 10,000 measurement data stored for a maximum of 6 months Events registry Yes Statistics YES - only the current cycle Temperature protection class 2.0 Device name Fixed (serial number) Alarm Bar Yes Quick change Yes Type: Digital microprocessor controlled Housing Stainless steel Interior stainless steel 0H17 (DIN 1.4016) interior Door: solid door with internal glass door or Glass Door Refrigeration type Forced air circulation. Capacity: 400 liters Temperature range: 0°C to +15°C Temperature resolution: 0.1°C temperature	wire Casters 4 (2 levelling foot) Alarms High temperature & Low temperature, Operated on 220Volts Model LPR-400-PE PHCBi (New Name of Panasonic) Japan	Exterior material Painted steel Interior material Vacuum molding (ABS resin) Outer doors 1 (Plastic sash with 2-layer glass window) Outer door lock Y (Cylinder key lock) Shelves 5 (polyethylene-coated wire Casters 4 (2 levelling foot) Alarms High temperature & Low temperature Operated on 220Volts Model LPR-400-PE PHCBi (New Name of Panasonic) Japan	Lighting / Casters: LED/2 casters Compressor Hermetic type, 160 W Refrigerant HFC Defrosting cyclical defrosting & evaporator temp. detection system Defrosting heaters 101 W Door ajar alarm: Buzzer/door ajar lamp Complete as above MPR-S313 Panasonic / PHCbi (New Name of Panasonic) Made in Japan		

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

	Item	Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
									protection class: 1.0 Shelves: 2 stainless steel wire shelves, adjustable slides, max unit workload 20kg Access port φ = 30 mm Memory: Test results memory Port: USB Lock: Door lock Alarm: Open door alarm Light: internal LED light Model: CHL 6 CS Smart Poleko – Poland (Europe)					
12	Electronic Analytical Balance Digital Microprocessor Controlledwith Latest UniBlock Technology, UniBlock designs Weighting Capacity: 220gm, Minimum display: 0.1mgPan size (mm): Ø91 approx.,Extra Feature: Overload Protection Automatic calibration by pressing keys with internal calibration	3	Not Quoted	Boeco Analytical Balance Max. capacity 82 /220 g Minimal load 0.001 g Readability 0.00001/0.0001 g Tare range - 220 g Repeatability 0,000015/0.0001 g Linearity ± 0.00006/0.0002 g Pan size Open work pan ø 90 mm Stabilization	Not Quoted	Not Quoted	Not Quoted	ANALYTICAL BALANCE WITH INTERNAL AUTO CALIBRATION MODEL NO: JJ224BFHeight adjustable feetTECHNICAL SPECIFICATIONS:Capacity: 220 gReadout d: 0.1 mg (0.0001g)Reproducibility: 2 dLinearity (g): ±3 dTare Range: 220 gWeighting Plate: Φ 80 mmInterface: RS232Dimension (WxLxH): 220 360 x345 mmPower Supply: 230 VM/s G&G-GERMANY	Type: Digital Microprocessor ControlledCapacity: 220 g.Readability: 0.1mg (0.0001g).Tare range: 220 gm. Repeatability: < + 0.1 mg (0.0001gm)Linearity: < + 0.2 mg (0.0002gm)Response time: 4 Second.Pan size (dia): 90 mmCalibration: Internal.Weighing Below Hook: Integral Weighing Below Hook Weighing Units: mg, g, ct, oz, dwt,	Electronic Analyical Balance• Digital Microprocessor Controlled• With Latest UniBlock Technology• Automatic calibration by pressing keys with internal calibration weight Technical: Weighting Capacity: 220gm Minimum display: 0.1mg Pan size (mm): Ø91 approx. Operated on 220Volts, Model ATX-224 Shimadzu, Japan	Electronic Analytical Balance Digital Microprocessor Controlled With Latest UniBlock Technology, UniBlock designs replaces 70 parts of Electromagnetic balances and ensures stable results. Technical Specification: Weighting Capacity: 220gm Minimum display: 0.1mg Pan size (mm):	• Digital Microprocessor Controlled• With Latest UniBlock Technology• Automatic calibration by pressing keys with internal calibration weight Technical: Weighting Capacity: 220gm Minimum display: 0.1mg Pan size (mm): Ø91 approx. Operated on	• Sindh Medical Stores • Shalimar Scientific Stores• SU Enterprizes • Rays Technologies	• RAAB Scientific SolutionsAuthorization letter is not attached • Key Scientific CorporationsAuthorization letter is not attached

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

	Item	RQty	Pulfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	weight- Easy setting, expanded piece counting function comparator function, formulation modes- Windows direct communication function, Complete unit, operated on 220Volts, Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.			time 6 / 3,5 sec Calibration: Internal (automatic) Interface: 2 x RS232, 2 x USB (A+B), WIFI Display: 5" colour capacitive touch-screen Working temperature +10°C - +40°CMake BOECO Germany					tical, tola, mommes, baht, grain, mesghal, Newton, ozt, tealsOperating Temp: -10 to +40C, 10 – 80%rHDraft Shield: All glass draught shield with 3 sliding doorsCommunication: RS232Display: LCDModel: PR 224Ohaus – USA		Ø91 approx. Extra Feature: Overload Protection Features: - Automatic calibration by pressing keys with internal calibration weight - Easy setting, expanded piece counting function comparator function, formulation modes - Windows direct communication function, send balance data to excel without any data software with optional RS232C interface. Complete unit, operated on 220Volts, Model ATX-224Shimadzu, Japan	220V, Model ATX-224 Shimadzu, Japan		
13	Heating Mantle with Stirrer: Temperature 450ºC , Electrothermal , Capacity5000ml, Max Flask Size: (mL)5000, Material: Aluminum, Max Stirrer Speed (rpm)2000, Max temperature (°	2	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Heating Mantle with Stirrer Temperature 450ºC , Electrothermal , Capacity 5000ml, Max Flask 5000 ml, Material: Aluminum, Max Stirrer Speed rpm 2000, Max temperature 842 F, Max temperature 450C, Power (VAC)230, , Power	Not Quoted	Heating Mantle Tempearute 450°C with stirrer Key Features • Cool-to-the-touch design • Max element temperature 450ºC • Built-in energy regulator • Replaceable insulated heater cartridge	Capacity 5000ml • Cool-to-the-touch design • Max element temperature 450ºC • Built-in energy regulator • Replaceable insulated heater cartridge	Capacity 5000ml • Temperature 450ºC • Built-in energy regulator • Replaceable insulated heater cartridge • A	• Shalimar Scientific Stores	• RAAB Scientific Solutions Authorization letter not attached • Key Scientific Corporations Authorization letter is

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

		Qty	Pak Silk Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Panatech International	Shalimar Scientific Stores	SU Enterprises	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	): 842, Max temperature (" C)450, Power (VAC)230, , Power (Hz)50Power (watts)800, Stirring Heating Mantle, 5 L; 230 V Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.							50Hz ,Power 800W, Stirring Heating Mantle, 5 L; 230 V Model CMUA5000/CE Electro thermal MRS England		• Indicator lamps for power and heater operation • A chemically resistant polypropylene outer casing • A grounded earth screen and double fuses for added safety Capacity 5000ml Model CMUA/5000/CE Electrothermal Made in England.	• A chemically resistant polypropylene outer casing • A grounded earth screen and double fuses for added safety Model CMUA/5000/CE Electrothermal England.	chemically resistant polypropylene outer casing • A grounded earth screen and double fuses for added safety Model CMUA/5000/CE Electrothermal England		not attached • Rays Technologies Authorization letter is not attached
14	Heating Mantle • Bi-directional stirring speeds up to 520rpm • Stir bar "auto-recapture" function • "Cool-to-touch" design • Maximum element temperature 450°C • Built-in energy regulator • Replaceble insulated heater cartridge • Indicator lamps for power and heater operation • A chemically resistant polypropylene outer casing • A grounded earth screen and	10	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Heating Mantle With Stirrer Bi-directional stirring speeds up to 520rpm Stir bar "auto-recapture" function, "Cool-to-touch" design, Maximum element temperature 450°C, Built-in energy regulator, Replaceble insulated heater cartridge, Indicator lamps for power and heater operation, A chemically resistant polypropylene outer casing, A grounded earth screen and double fuses for extra safety, Bracket for 1.3cm support rods (but not including the support rods) a) Heating Mantle, flask capacity 50ml EMA0050/CEB	Not Quoted	The EM Electromantle series features a durable, chemically resistant, polypropylene outer housing that minimises damage from spills. They allow maximum heat transfer with minimum risk for flask breakage. Key Features • Cool-to-the-touch design • Max element temperature 450ºC • Built-in energy regulator • Replaceable insulated heater cartridge • Indicator lamps for power and heater operation • A chemically	Heating Mantle with Stirrer Capacity 500ml • Cool-to-the-touch design • Max element temperature 450ºC • Built-in energy regulator • Replaceable insulated heater cartridge • A chemically resistant polypropylene outer casing • A grounded earth screen and double fuses for added safety Model CMUA/500/CE Electrothermal England.	Capacity 500ml • Temperature 450ºC • Built-in energy regulator • Replaceable insulated heater cartridge • A chemically resistant polypropylene outer casing • A grounded earth screen and double fuses for added safety Model CMUA/500/CE Electrothermal England.	• Shalimar Scientific Stores,	• RAAB Scientific Solutions Authorization letter not attached • Key Scientific Corporations Authorization letter is not attached • Rays Technologies Authorization letter is not attached

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

Item	RQ	Paxtils Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
double fuses for extra safety • Bracket for 1.3cm support rods (but not including the support rods) Flask capacity 50ml - 250ml, quantity required(5) Materia:l Polypropylene outer casing, Max element temperature: 450°C Dimensions (d x w x h), mm 260 x 175 x 133 , Flask capacity 500-1000ml, quantity required(3) Materia:l Polypropylene outer casing, Max element temperature: 450°C Dimensions (d x w x h), mm 310 x 238 x 157, Flask capacity 2000ml, quantity required(2) Materia:l Polypropylene outer casing, Max element temperature: 450°C Dimensions (d x w x h), mm 400 x 350 x 197 Germany or UK or Japan or USA or equivalent Note: Valid							England b) Heating Mantle, flask capacity 100ml EMA0100/CEB England c) Heating Mantle, flask capacity 250ml EMA0250/CEB England d) Heating Mantle, flask capacity 500ml EMA0500/CEB England e) Heating Mantle, flask capacity 1000ml EMA1000/CEB England f) Heating Mantle, flask capacity 2000ml EMA2000/CEB England Electro thermal MRS England		resistant polypropylene outer casing • A grounded earth screen and double fuses for added safety Capacity 500ml Model CMUA/500/CE Electrothermal Made in England. b. Heating Mantle Temperature 450ºC with Stirrer The EM Electromantle series features a durable, chemically resistant, polypropylene outer housing that minimises damage from spills. They allow maximum heat transfer with minimum risk for flask breakage. Key Features • Cool-to-the-touch design • Max element temperature 450ºC • Built-in energy regulator • Replaceable insulated heater cartridge • Indicator lamps for power and heater operation • A chemically resistant polypropylene outer casing • A grounded earth screen and double fuses for added safety	b. Heating Mantle with Stirrer Capacity 2000ml • Cool-to-the-touch design • Max element temperature 450ºC • Built-in energy regulator • Replaceable insulated heater cartridge • A chemically resistant polypropylene outer casing • A grounded earth screen and double fuses for added safety Model CMUA/2000/CE Electrothermal England	b. Heating Mantle with Stirrer Capacity 2000ml • Temperature 450ºC • Built-in energy regulator • Replaceable insulated heater cartridge • A chemically resistant polypropylene outer casing • A grounded earth screen and double fuses for added safety Model CMUA/2000/CE Electrothermal England		

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

		Qty	Pak Ills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	authorized certificate from the manufacturers/foreign principals must be attached.									Capacity 2000ml Model CMUA/2000/CE Electrothermal Made in England.				
15	UV LampA corrosion-resistant, specular-aluminum reflector optimizes UV irradiance. A LONGLIFE™ filter glass for higher initialUV transmission and maximum resistance to solarization, Color-coded on/off switches, conveniently located at the top of the units anodized-aluminum lamp housings extremely rugged and durable.Long wave (UV-A, 365nm) / Short wave (UV-C, 254nm)UV Tube(s): One 6-watt BL, BLE-6T365, One 6-watt SW, BLE-6254S, Germany or UK or Japan or USA or equivalentNote: Valid authorized certificate from the	3	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	UV Lamp Hand held UV Lamp for Thin lyer chromatography The BioGlow® series of Handheld UV Lamps provides UV radiation with wavelengths of 365nm or 254nm, or a combination of both 254nm and 365nm. The UV lamps represent a technical innovation in the evolutionary process of UV lamps, with a unique built-in position device which automatically protects operators from exposure to UV radiation.. Model BG-A Crystal Germany	Application: Short wavelength (254nm): Fluorescence technique, fluorochemistry, mineralogy, photopolymerisation, mutation studier, toxicology.Long wavelength (365nm): TLC plate3 viewing, fluorochemistry, food inspection, quality control, titration, pesticide analysis, mineralogy.Compact UV lamp (Handy) Wavelength 254 & 365nmPower: 220VAC, 50HzModel: LF-204LSUVI Tech – U.K	Hand Held UV LampA corrosion-resistant, specular-aluminum reflector optimizes UV irradiance.A unique LONGLIFE™ filter glass for higher initial UV transmission and maximum resistance to solarization Long wave (UV-A, 365nm) / Short wave (UV-C, 254nm) UV Tube(s): One 6-watt BL, BLE-6T365, One 6-watt SW, BLE-6254SModel ENF-260C, Spectronics, Made in USA	Hand-Held Dual Wave Length UV Lamp• A corrosion-resistant, specular-aluminum reflectoroptimizes UV irradiance.• A unique LONGLIFE™ filter glass for higher initialUV transmission and maximum resistance to solarization• Color-coded on/off switches, conveniently located at thetop of the units anodized-aluminum lamp housings areextremely rugged and durable.Specification: Long wave (UV-A, 365nm) / Short wave (UV-C, 254nm) UV Tube(s): One 6-watt BL, BLE-6T365, One 6-watt SW, BLE-6254SComplete as above,	• A corrosion-resistant, specular-aluminum reflectoroptimizes UV irradiance.• A unique LONGLIFE™ filter glass for higher initialUV transmission and maximum resistance to solarization Long wave (UV-A, 365nm) / Short wave (UV-C, 254nm) UV Tube(s): One 6-watt BL, BLE-6T365, One 6-watt SW, BLE-6254SModel ENF-260C, Spectronics, Made in USA	• Shalimar Scientific Stores • SU Enterprizes	• RAAB Scientific SolutionsAuthorization letter not attached• Key Scientific CorporationsAuthorization letter is not attached• Rays TechnologiesAuthorization letter is not attached

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

		Qty	Technologies	Sindh Medical Stores	Centre		International	Stores		Solutions	Technologies	Corporations	Technically Qualified	Technically Disqualified
	manufacturers/foreign principals must be attached.										Model ENF-260C, Spectronics, Made in USA			
16	Electronic Balance digital Top Loading High Resolution type Metal base structure, over load protection, fast response time, Various unit conversions and	3	Not Quoted	Double Display Balance Weighing capacity: 1000 g Minimum weighing: 0.01 g Pan size: 115 mm	Not Quoted	Not Quoted	Not Quoted	Electronic Top Load Balance digital Electronic balance digital Readability: 0.01gm (0.01 g) Capacity: 300gm Plate size 135mm Tare function over 100% of the capacity Automatic calibration	Type: Digital Microprocessor Controlled Capacity: 300 g. Readability: 10mg (0.01g). Tare range: 300 gm. Linearity: < + 1 d Response time: 3 Second.	Electronic Balance digital Top Loading Capacity 300gm, Readability 0.01gm, Pan Size 110mm, battery operated as well as operated on 220v, Model ELB-300, Shimadzu, Japan	Electronic Balance digital Top Loading High Resolution type Metal base structure, over load protection, fast response time, Various unit	Electronic Balance digital Top Loading Capacity 300gm, Readability 0.01gm, Pan Size 110mm, battery operated as	• Rays Technologies • sindh Medical Stores • Shalimar Sciebtific Stores • S U	• RAAB Scientific Solutions Authorization letter not attached • Key Scientific Corporations

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

		Qty	Technologies	Sindh Medical Stores	Centre	H. A. Shah & Sons	International	Stores			Technologies	Corporations	Qualified	Disqualified
	arious functions available as standard, Capacity 300gm, Readability 0.01gm, Pan Size 110mm, battery operated as well as operated on 220 volts, Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.			Operational temperature : 5 °C - 25 °C Calibration system: External calibration Interface: RS232 Display Dua LCD (Optional) Make:Labotronics scientific Ltd, Canada				external Height adjustable feet ,weighing below hook operated on 220 volts Model JJ300A G&G Germany	Pan size (dia): 120 mm Calibration: External. Weighing Below Hook: Integral Weighing Below Hook Weighing Units: g, Newton, Operating Temp: 10 to +40C, 30 – 90%rH Communication: RS232 Draft Shield: Included Model: TA 302 Ohaus - USA.		conversions and various functions available as standard Capacity 300gm, Readability 0.01gm, Pan Size 110mm, battery operated as well as operated on 220 volts, Model ELB-300, Shimadzu, Japan	well as operated on 220v, Model ELB-300, Shimadzu, Japan	Enterprizes	Authorization letter is not attached
17	Micropippettes: Measuring Range 0.2 to 2µl, Accuracy ±0.014µl, Germany or UK or Japan or USA or equivalent	2	Not Quoted	Not Quoted	Not Quoted	Micro pipettes 3120000011 Research plus, adjustable 0.1- 2.5µl Make: Eppendorf Germany AG	Not Quoted	Micro pipettes Gilson Adjustable built to last constructed of stainless steel and PVDF with unique dry seal technology thick body robust accurate and precise individually calibrated, Tip Holders and Tip Ejectors are fully Auto cleavable Measuring Range 0.2 to 2µl, Accuracy ±0.014µl, Model P2N Gilson Made in France Supplier LMS Germany	Micropipette Model AO-2 Range Volume 0.1 - 2µL Ohaus - USA	Pipette PIPETMAN G offers legendary accuracy, precision and performance with the highest comfort. Measuring Range 0.2 to 2µl, Model P2G, Gilson Made in France	PIPETMAN G offers one of the lowest pipetting forces available on the market for hours of comfortable pipetting. PIPETMAN G offers legendary accuracy, precision and performance with the highest comfort. Ranges as follows:- Measuring Range 0.2 to 2µl, Accuracy ±0.014µl, Model P2G, Gilson Made in France	Measuring Range 0.2 to 2µl, Model P2G, Gilson France	• Shalimar Scientific Stores • S U Enterprizes • Rays Technologies • HA Shah & Sons	• RAAB Scientific Solutions Authorization letter not attached • Key Scientific Corporations Authorization letter is not attached

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

		Qty	Pa[illegible] Technologies	Shah Medical Stores	[illegible] Chemical Centre	[illegible]	[illegible] International	[illegible] Stores	[illegible]	[illegible] Scientific Solutions	[illegible] Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	Micropippettes: Measuring Range 0.5 to 10µl, Accuracy ±0.040µl,Germany or UK or Japan or USA or equivalent	3	Not Quoted	Not Quoted	Not Quoted	Micro pipette3120000020Research plus, adjustable 0.5- 10 µlMake: Eppendorf Germany AG	Not Quoted	Micro pipettes GilsonAdjustable built to last constructed of stainless steel and PVDF with unique dry seal technology thick body robust accurate and precise individually calibrated, Tip Holders and Tip Ejectors are fully Auto cleavableMeasuring Range 0.5ul to 10µl, Accuracy ±0.040µl, Model P10NGilson Made in France Supplier LMS Germany	MicropipetteModel Range Volume (AO-10)0.5 - 10µLOhaus - USA	PipettePIPETMAN G offers legendary accuracy, precision and performance with the highest comfort Measuring Range 1 to 10µl, Model P10G, Gilson Made in France	PIPETMAN G offers one of the lowest pipetting forces available on the market for hours of comfortable pipetting. PIPETMAN G offers legendary accuracy, precision and performance with the highest comfort. Measuring Range 1 to 10µl, Accuracy ±0.040µl, Model P10G, Gilson Made in France	Measuring Range 1 to 10µl, Model P10G, Gilson France	• HA Shah & Sons• Shalimar Scientific Stores• S U Enterprizes	• RAAB Scientific SolutionsAuthorization letter not attached • Key Scientific CorporationsAuthorization letter is not attached • Rays Technologies Measuring Range is not according to our specifications.required 0.5 to 10µl/provided 1 to 10µl
19	Micropippettes: Measuring Range 2 to 20µl, Accuracy ±0.060µl, Germany or UK or Japan or USA or equivalent	3	Not Quoted	Not Quoted	Not Quoted	Micro pipette 3120000020 Research plus, adjustable 2- 20 µl Make: Eppendorf Germany AG	Not Quoted	Micro pipettes Gilson Adjustable built to last constructed of stainless steel and PVDF with unique dry seal technology thick body robust accurate and precise individually calibrated, Tip Holders and Tip Ejectors are fully Auto cleavable Measuring Range 2 to 20µl Accuracy ±0.060µl, Model P20N Gilson Made in France Supplier LMS Germany	Micropipette Model Range Volume (AO-20) 2 - 20µL Ohaus - USA	Pipette PIPETMAN G offers legendary accuracy, precision and performance with the highest comfort Measuring Range 2 to 20µl, Model P20G, Gilson Made in France	PIPETMAN G offers one of the lowest pipetting forces available on the market for hours of comfortable pipetting. PIPETMAN G offers legendary accuracy, precision and performance with the highest comfort. Measuring Range 2 to 20µl, Accuracy ±0.060µl,	Measuring Range 2 to 20µl, Model P20G, Gilson France	• HA Shah & Sons • Shalimar Scientific Stores • S U Enterprizes •Rays Technologies	• RAAB Scientific Solutions Authorization letter not attached • Key Scientific Corporations Authorization letter is not attached

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

		Qty	Technologies	Medical Stores	Centre		International	Stores		Solutions	Technologies	Corporations	Technically Qualified	Technically Disqualified
											Model P20G, Gilson Made in France			
20	Micropipettes: Measuring Range 20 to 200µl, Accuracy ±0.30µl, Germany or UK or Japan or USA or equivalent	3	Not Quoted	Not Quoted	Not Quoted	Micro pipette 3120020054 Research plus, adjustable 20- 200 µl Make: Eppendorf Germany AG	Not Quoted	Micro pipettes Gilson Adjustable built to last constructed of stainless steel and PVDF with unique dry seal technology thick body robust accurate and precise individually calibrated, Tip Holders and Tip Ejectors are fully Auto cleavable Measuring Range 20 to200 µl, Accuracy ±0.30µl, Model P200N Gilson Made in France Supplier LMS Germany	Micropipette Model Range Volume (AO-200) 20 - 200µl Ohaus - USA	Pipette PIPETMAN G offers legendary accuracy, precision and performance with the highest comfort Measuring Range 20 to 200µl, Model P200G, Gilson Made in France	PIPETMAN G offers one of the lowest pipetting forces available on the market for hours of comfortable pipetting. PIPETMAN G offers legendary accuracy, precision and performance with the highest comfort. Measuring Range 20 to 200µl, Accuracy ±0.30µl, Model P200G, Gilson Made in France	Measuring Range 20 to 200µl, Model P200G, Gilson France	• HA Shah & Sons • Shalimar Scientific Stores • S U Enterprizes • Rays Technologies	• RAAB Scientific Solutions Authorization letter not attached • Key Scientific Corporations Authorization letter is not attached
21	Micropippettes: Measuring Range 100 to 1000µl, Accuracy ±1.5µl,Germany or UK or Japan or USA or equivalent	3	Not Quoted	Not Quoted	Not Quoted	Micro pipette3120000062Research plus, adjustable 100- 1000 µlMake: Eppendorf Germany AG	Not Quoted	Micro pipettes GilsonAdjustable built to last constructed of stainless steel and PVDF with unique dry seal technology thick body robust accurate and precise individually calibrated, Tip Holders and Tip Ejectors are fully Auto cleavableMeasuring Range 100 to 1000µl,	MicropipetteModel Range Volume (AO-1000)100 - 1000µlOhaus - USA	PipettePIPETMAN G offers legendary accuracy, precision and performance with the highest comfort Measuring Range 100 to 1000µl, Model P1000G, Gilson Made in France	PIPETMAN G offers one of the lowest pipetting forces available on the market for hours of comfortable pipetting. PIPETMAN G offers legendary accuracy,	Measuring Range 100 to 1000µl, Model P1000G, Gilson France	• HA Shah & Sons • Shalimar Scientific Stores • S U Enterprizes • Rays Technologies	• RAAB Scientific SolutionsAuthorization letter not attached • Key Scientific Corporations Authorization letter is not attached

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

		Qty	Technologies	Medical Stores	Centre		International	Stores		Solutions	Technologies	Corporations	Technically Qualified	Technically Disqualified
								Accuracy ±1.5µl Model P1000N Gilson Made in France Supplier LMS Germany			precision and performance with the highest comfort. Measuring Range 100 to 1000µl, Accuracy ±1.5µl, Model P1000G, Gilson Made in France.			
22	Micropipetten Gilson multichannel pipette Volume 20 to 280 µL Systematic Error: ± 0.50 to ±2.00 µL Germany or UK or Japan or USA or equivalent	1	Not Quoted	Not Quoted	Not Quoted	Micro pipette [illegible] Eppendorf Germany AG	Not Quoted	Micro pipettes Gilson Multichannel [illegible] Volume locking system, Color- coded Push button, Measuring range 20 to 200µl, Systematic Error: ± 0.50 to ±2.00 µL Model P 8x200 Gilson Made in France Supplier LMS Germany	Micropipette Model Range [illegible] Ohaus - USA	Multi Channel Pipette PREMIUM PIPETTING COMFORT PIPETMAN G offers one of the lowest pipetting forces with a redesigned piston assembly system and high-quality piston grease, PIPETMAN G guarantees hours of comfortable pipettingRELIABLE RESULTS PIPETMAN G relies on the legendary accuracy, precision, and reliability of PIPETMAN®, with improved pipetting comfort. BUILT-TO-LAST AND CONVENIENT Volume: 20 to 200 µL Model 8x200G, Eight Channel Gilson France	PREMIUM PIPETTING COMFORT PIPETMAN G offers one of the lowest pipetting forces with a redesigned piston assembly system and high-quality piston grease, PIPETMAN G guarantees hours of comfortable pipetting RELIABLE RESULTS PIPETMAN G relies on the legendary accuracy, precision, and reliability of PIPETMAN®, with improved pipetting comfort. BUILT-TO-LAST AND CONVENIENT Made of PVDF and stainless steel,	Multi-Channel Pipette Eight Channel Lowest pipetting forces with a redesigned piston assembly system and high-quality piston grease, PIPETMAN G guarantees hours of comfortable pipetting Volume: 20 to 200 µLModel 8x200G, Gilson France	• Shalimar Scientific Stores • S U Enterprizes • Rays Technologies	• HA Shan & Sons Measuring range is not according to required specifications required 20 to 200 µL/provided 30- 300µl • RAAB Scientific Solutions Authorization letter not attached • Key Scientific Corporations Authorization letter is not attached

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

		Qty	Technologies	Medical Stores	Centre		International	Stores		Solutions	Technologies	Corporations	Technically Qualified	Technically Disqualified
											PIPETMAN G offers premium durability. Specification: Volume: 20 to 200 µL Model 8x200G, Cat No. F144072, Gilson Made in France.			
22	Rotary Evaporator with all Accessories: The chemically resistant PTFE vacuum seal for 50ml – 500ml evaporating flask Technical Specification: - Hand / Motor lift Hand liftRotation speed (rpm) 20 – 280,Rotation speed setting Scale,Drive Brushless DC motor, with electronic speed control Heating capacity (W) 1,300, Temp. Range heating bath (°C) 20 – 210, Temperature range accuracy (°C) ±1, Overheat protection bath (°C) Cut-off at 5°C, over set temperature,Via separate PT 1000, Bath temperature	2	Not Quoted	Buchi Rotary Evaporator RVO 400 SD Receiving flasks: 100 - 2000 ml Evaporating flasks: 20 - 4000 ml Rotation speed: 0 - 280 rpm Bath temperature : max. 100°C for water filling max. 180°C for oil filling Regulation accuracy: ± 1°C up to 100°C ± 3°C up to 180°C Pressure measurement: absolute Pressure difference: adjustable 1-500 mbar. Digital settings:	Rotary Evaporator with All Accessories Model No / Cat # Strike-280 (SQED058111) Technical Specification: - Hand / Motor lift Hand lift Rotation speed (rpm) 20 – 300,Rotation speed setting Scale, DC motor, with electronic speed control Heating capacity (W) 1,400, Bath Temp. (°C) 180, Volume heating bath (l) 5Liters, Instrument is supplied with 1Litre, cllecting flak 1000 ml, evaporating flask 1000 ml, cooling surface 1500 cm2 Make:	Not Quoted	The Quotes	Digital Rotary Evaporator system Efficient, fast and reliable distillation requirements. The chemically resistant PTFE vacuum seal for 50ml – 500ml evaporating flask Main Unit specifications 1. Sample volume range: 50ml to 4000ml 2. Rotation speed: 20 to 300rpm 3. Rotation speed setting: Digital 4. Lift mode: Manual lift 5. Lifting stroke: 160mm 6. Head tilt angle: 0° to 60° 7. Condenser column: Diagonal type 8. Motor power: 40W 9. Power supply: 230V ±10% - 50/60Hz ±5% 10.Dimensions (L x W x H): 380x340x692mm Water Bath specifications 1. Temperature range: Ambient to 210°C	Rotary Evaporator with all Accessories Technology & Design Technical Data Max. Rotation speed 20 - 300 rpm Display Color Touch Lift up and down Motorized Rotation speed display LCD Motorized lift stroke 160 mm Head tilt angle (°) 0 – 60 Condenser Vertical or Diagonal Clockwise/counter -clockwise rotation Yes Heating Bath Temperature range Ambient to 230°C Bath material SS with PTFE Coating Temperature control PID	Rotary Evaporator Technical Data Rotation speed indicator 3.5" LCD Display Protection class DIN EN 60529 IP 20 Lift Hand lift Height adjustment speed manual Height adjustment 155 mm Drive brushless DC motor with electronic speed control Heating capacity 1,300 W Temp. range heating bath 20 – 210 °C Temperature accuracy bath ±1K Overheat protection bath cut-off at 5°C over set temperature Bath temperature setting 3.5" LCD Display Heating bath temperature control electronic / digital Secondary overtemp. cut off 250 °C Material heating bath stainless steel AISI 316L	Rotation speed indicator 3.5" LCD Display Protection class DIN EN 60529 IP 20 Lift Hand lift Height adjustment speed manual Height adjustment 155 mm Drive brushless DC motor with electronic speed control Heating capacity 1,300 W Temp. range heating bath 20 – 210 °C Temperature accuracy bath ±1K Overheat protection bath cut-off at 5 °C over set temperature via separate PT 1000 Bath temperature	Rotation speed indicator 3.5" LCD Display Protection class DIN EN 60529 IP 20 Lift Hand lift Height adjustment speed manual Height adjustment 155 mm Drive brushless DC motor with electronic speed control Heating capacity 1,300 W Temp. range heating bath 20 – 210 °C Temperature accuracy bath ±1K Overheat protection bath cut-off at 5°C over set	• Rays Technologies • SU enterprises • Shalimar Scientific Stores	• New Chemical centre bath temperature required(°C) 20 – 210/provided , (°C) 180, Temperature range accuracy required(°C) ±1/ not provided • RAAB Scientific Solutions Authorization letter not attached • Key Scientific Corporations Authorization letter is not attached • Sindh Medical Stores

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

		ty	Technologies	Medical Stores	Centre		International	Stores		Solutions		Corporations	ly Qualified	Disqualified
	Digital Heating bath temperature control electronic / Digital Secondary overtemp. Cut off (°C) 250, Material heating bath (mm) Stainless steel AISI 316L Volume heating bath (l) 4.5liters, Instrument is supplied with Glass evaporating and Receiving operated on 220 volts, Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.			Temperature, rotations, vacuum Gradient settings: Temperature, pressure Temperature unit selection: °C, °K Pressure units selections: hPa, Torr Cooler condensation size: 1200 sq cm (double sprial) Switched vacccum pump: output max 650 VA, input max. 2000 VA Make: BOECO Germany	Wiggens Germany			2. Temperature control mode: PID with self adjustment 3. Overheat cut off protection temp.: Built in 4. Temperature stability: ±1°C 5. Volume capacity: 5 litters 6. Material: Stainless steel 7. Heating power: 1300W 8. Safety: Automatically powered OFF when liquid is absent 9. Power supply: 230V ±10% - 50/60Hz ±5% Model EV400H LabTech Italy	(LCD) Temperature accuracy ±1°C (Water) ±2°C (Oil) Heating power 1300 Watts Bath diameter 250 mm Bath volume 5 Lt Model: EV400 Touch LabtechSRL – Italy	Volume heating bath 4.5 l Complete unit with Glassware set G1 Operated on 220 Volts, Model HEI VAP CORE HL/G1, Heidolph Made in Germany	setting 3.5" LCD Display Heating bath temperature control electronic / digital Secondary overtemp. cut off 250 °C Material heating bath stainless steel AISI 316L Diameter heating bath 255 mm Volume heating bath 4.5 l Instrument is supplied with Glassware set G1 Complete unit as above, Operated on 220 Volts, Model HEI VAP CORE HL/G1, Heidolph Made in Germany.	temperature Bath temperature setting 3.5" LCD Display Heating bath temperature control electronic / digital Secondary overtemp. cut off 250 °C Material heating bath stainless steel AISI 316L Volume heating bath 4.5 l Operated on 220 Volts, Model Hei Vap Core, Heidolph Germany		bath temperature required(°C) 20 – 210/provided, (°C) 180,
24	Rotary Evaporator Vacuum Pump, PTFE Diaphragm Chemistry High Pumping Speed and low Ultimate vacuum Suitable for Rotary Evaporators, a, made of Chemically Resistant Flouro plastics . PTFE Diaphragms Gas ballast Valve for	2	Not Quoted	Chemical Resistant Vacuum Pump Gas tight, leake rate approx. 6 x 10-3 mbar x l/s Maintenance-free ATEX-compliant in accordance with ATEX II 2G IIB+H2 T3X	Rotary Evaporator Vacuum PumpModel No. /Cat # C519 Order # 169510power 220 V, max power 250 W, max. currnet 2.4 A, max. vacuum 8 mbar, max. flow rate 41 L/min, motor speed 1700	Not Quoted	Not Quoted	Vacuum Pump PTFE Diaphragm Chemistry Design two stage provides the advantageous combination of High Pumping Speedand low Ultimate vacuum Suitable for Rotary Evaporators, allpumping parts in contact with pumped media are made of Chemically Resistant Flouroplastics . Technical	LabTech pumps are specifically designed for laboratory operations to meet the highest standard of precision, reliability, and ease of use.Pumping speed: 30L/minPumping Speed: 18liters / minuteVacuum pressure:	Vacuum PumpPTFE Diaphragm Chemistry Design two stage provides the advantageous combination of High Pumping Speedand low Ultimate vacuum Suitable for Rotary Evaporators, allpumping parts in contact with pumped media are made of Chemically Resistant Flouro plastics. PTFE Diaphragms increase	Vacuum Pump PTFE Diaphragm Chemistry Design two stageprovides the advantageous combination of High Pumping Speedand low Ultimate vacuum Suitable for Rotary Evaporators,	24. Vacuum Pump PTFE Diaphragm Chemistry Design two stage TechnicalNumber of Head / Stages 2Maximum Pumping Speed 0.75 m3h/0.9 m3hUltimate Vacuum 12 mbarUltimate	• Shalimar Scientific Stores• RAAB Scientific Solutions • Sindh Medical Store • New Chemical Centre	• Key Scientific Corporations: Authorization letter is not attached• Rays TechnologiesAuthorization letter is not attached, • SU Enterprizes;

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

		R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	ntinuous Condensate Purge with Builtin manual Vacuum Regulator Valve with Lid Gauge for Adjustmentof Pumping Speed, Number of Head / Stages 2, Maximum Pumping Speed 0.75 m3h/0.9 m3h, Ultimate Vacuum 12 mbar, Ultimate Vacuum with Gas Ballast 20 mbarOperated on 220 Volts, Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.			Delivery: 20 l/minVacuum: 8 mbar abs.Operating pressure: 1 barConnectors for tube: ID 10 mmPermissible media and ambient temp: +5...+40°CMake: KNF Laboport Garmany	rpm, outlet 10 mmMake: Wiggens Germany			Specification Number of Head / Stages 2Maximum Pumping Speed 0.75 m3h/0.9 m3hUltimate Vacuum 12 mbarUltimate Vacuum with Gas Ballast 20 mbar MZ1 C Vaccu brand Supplier LMS Germany	20mbarNoise: ≤ 50dBModel: VP18R PlusLabtechSRL – Italy	Reliability and Extended Operation Life. MZ1C is equipped with a Gas ballast Valve for Continuous Condensate Purge with Builtin manual Vacuum Regulator Valve with Lid Gauge for Adjustment of Pumping SpeedTechnical Specification Number of Head / Stages 2Maximum Pumping Speed 0.75 m3h/0.9 m3hUltimate Vacuum 12 mbarUltimate Vacuum with Gas Ballast 20 mbar, Operated on 220 Volts Model MZ1C Vacuubrand Made in Germany	allpumping parts in contact with pumped media are made of Chemically Resistant Flouro plastics. TechnicalNumber of Head / Stages 2Maximum Pumping Speed 0.75 m3h/0.9 m3hUltimate Vacuum 12 mbarUltimate Vacuum with Gas Ballast 20 mbarOperated on 220V Model MZ1C Vacuubrand Germany	Vacuum with Gas Ballast 20 mbarOperated on 220V Model MZ1C Vacuubrand Germany		Specifications are not according to requirement: Vacuum pressure required Vacuum 12 mbar / provided 20mbar
25	Rotary Evaporator Chiller Stainless steel bath vessels, Drain connection at the rear, Working temperature: -25 °C to + 100 °C Temperature stability: 0.05 ±K, Bath volume max: 7.5 L Bath depth: 160 mm, Pump pressure max: 0.2	2	Not Quoted	Boeco Circulation Chiller COR 400 Performance: 1/4 HP Performance 22°C =>7°C: 80 l/hour Minimum temperature: 1°C for water Minimum temperature: -20°C for antifreezing	Rotary Evaporator Chiller Model No / Cat # FL601 Order # 9660006 Stainless steel bath vessels, Working temperature: -20 °C to + 40 °C Temperature stability: ±0.5, Bath volume max: 5.5- 8 L Pump pressure	Not Quoted	Not Quoted	Rotary Evaporator Chiller digital fuzzy controller with Jog-Dial-switch (turn + push) & capacitive touch buttonStainless steel bath vessels, Drain connection at the rear Working temperature: -25 °C to + 150 °C Temperature stability: 0.1°C-display, 0.1°C-control, ±0.2°C at -10°C, PT100 Bath volume max: 8 L Pump pressure max:	LabTech's state-of-the-art water chillers ensure accurate and constant cooling conditions of your instrumentation in the harsh laboratory environment. » Temp. Control Range: -5° to +35°C » Temp. Stability: ±0.3°C (PID/LCD) » Refrigeration Capacity:	Chiller Model ALPHA RA8 • Stainless steel bath vessels • Drain connection at the rear Technical Data: Working temperature: -25 °C to + 100 °C Temperature stability: 0.05 ±K Bath volume max: 7.5 L Bath depth: 160 mm Pump pressure max: 0.2 bar	Temperature: -25 °C to + 100 °C Temperature stability: 0.05 ±K Bath volume max: 7.5 L Bath depth: 160 mm Pump pressure max: 0.2 bar Pump flow max. (Pressure): 15 L/min Operated on	Chiller Temperature: -25 °C to + 100 °C Temperature stability: 0.05 ±K Bath volume max: 7.5 L Bath depth: 160 mm Pump pressure max: 0.2 bar Pump flow max. (Pressure): 15	• RAAB Scientific solutions • Shalimar Scientific Store	• New Chemical Centre temperature:required -25 °C to + 100 °C/ provided -20 °C to + 40 °C. Pump pressure max required 0.2 1 bar/provided 1 bar

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

...m	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
...ar Pump flow max. (Pressure): 15 L/min,Operated on 220 Volts Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.			mix Regulation accuracy: ±1°C Volume of cooling tank: 20 l Displacement pump: 7 m Pump flow: 120 l/hour Cooling gas: R – 134a Make BOECO Germany	max: 1 bar Pump flow max. (Pressure): 23 L/min,Operated on 220 Volts Make: Julabo			7.5 psi Pump flow max. (Pressure): 25 L/min stainless steel bath and body made of powder-coated steel, innovated refrigeration system ensures temperature performance, includes intelligent control for preventing compressor overload, CFC-free (R-404A) innovated powerful circulation pump ensures temperature uniformity: internal and external circulation and 5 steps circulation speed stainless steel flat lid & valve ball included, dome lid optional RS232C interface: remote monitoring and controlling with PC proper liquid level tag in bath user's self-compensation function to control difference between real temperature and indicated temperature (±10.0°C) backlight LCD display CE certified and unique serial number for tracingety mechanism: overheat and over-current protection sensor error detection and leakage breaker low liquid level	500W@25°C » Pump Capacity: 3.5L/min@10psi Model: H50-500 LabtechSRL - Italy	Pump flow max. (Pressure): 15 L/min Operated on 220 Volts, Model Alpha RA8 Lauda-Germany	220 Volts, Model Alpha RA8 Lauda-Germany	L/min Operated on 220V, Model Alpha RA8 Lauda-Germany		• Key Scientific Corporations Authorization letter is not attached • Rays Technologies Authorization letter is not attached • SU Enterprizes: temperature range requiredrequired -25 °C to + 100 °C/provided -5° to +35°C Sindh Medical Store:minimum temperature range required - - 25 °C/provided -20 °C .

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

		R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
								warning and automatic stop function locking mode Operated on 220 Volts Model WCR-8 Witeg LMS Germany						
26	PH Meter Digital Bench Model Microprocessor Controlled With parallel Temperature indication, PH Range -2.0 to 20.0 ±0.005pH,PH Resolution 0.001pH, MV Range ±1200.0mV, Accuracy mV ±-0.3mv,Automatic Temperature Compensation, Temperature Range –5 to +105.0°C, Temperature accuracy ±0.1°C with two/three Point Calibration System, Battery operated operated With 220 Volts, Black Electrode stand with base.,Plastic Beaker 50 ml, 3MKCL Solution 50 ml., Calibration Standard solutions PH 4, 7 & 10 50ml each.PH Electrode	4	Orion Star A211pH Benchtop Meter ROSS Kit pH Range: -2.000to20.000 Resolution:0.1 , 0.01,0.001 Relative Accuracy:±0.002Calibration Points:Up to 5 Calibration Editing:Yes mV/RmV Range: ±2000.0mV Resolution:0.1 mV Relative Accuracy:±0.2 mVor ±0.05 %of reading which ever is greater EH ORP Mode:Yes Temperature Range: -5to105ºC, 23to 221ºF Resolution:0.1 ºC,0.1ºF RelativeAccuracy:±0.1ºC, ±0.1ºF OffsetCalibrati	Multiparameter PH/ORP/Conductivity/TDS /Salinity/ Resisitivity/ Temp. Benchtop Meter Conductivity range: 0.0. to 475 µS/cm Resolution: 0. 1µS/cm Accuracy: ±1% of reading +2µS/cm PH Range -2.0 to 16.0 ,PH Resolution 0.01pH TDS range: 0.001 mg/l to 200.0 g/l Resolution: 0.001/0.01/0.1/1mg/l Accuracy: ±0.5% full scale 0.01/0.1 g/l Salinity range: 0.0 to 80.0 ppt, resolution: ppt, accuracy	PH Meter Digital Bench Top Model No / Cat # 12820643 / Accumet XL150 pH Range: -2.000to20.000 Resolution:0.1, 0.01,0.001 Relative Accuracy:±0.002CalibrationPoints:Up to 5 Calibration Editing:Yes mV/RmV Range: ±2000.0mV Resolution:0.1 mV Relative Accuracy:±0.2mVor ±0.05 %of reading Temperature Range: -5to105ºC, 23to 221ºF Resolution:0.1ºC,0.1ºF RelativeAccuracy:±0.1ºC, ±0.1ºF OffsetCalibration:1point Power AC Adapter:Included—universal,100-	STARA2110 Orion Star™ A211 Benchtop pH Meter Model Orion Star A211 pH/mV/RmV/ORP/Temperature Benchtop Meter Power Supply Universal AC adapter (included) or 4 AA batteries (sold separately) Probe Type pH electrode, ORP electrode, reference half cell electrode, ATC temperature probe, stirrer probe (purchase separately) Range (mV) ±2000.0 mV Range (ORP) ±2000.0mV Range (pH) -2 to 20 Range (Relative mV) ±2000.0mV Relative Humidity Range 5 to 85%, non-condensing Resolution (pH) 0.1, 0.01, 0.001 Resolution (mV) 0.1mV Resolution (Temperature) 0.1°C, 0.1°F Stability Selectable fast, medium, slow or Smart Stability	Not Quoted	pH / Temperature Laboratory Bench Meter SPECIFICATIONS pH Range - 2.00 to 20.00/ 2.000 to 20.000 pH mV Range ±1000/ ±2000mV Temp Range -20.0 a 120.0°C / -4.0 a 248.0°F pH Resolution 0.01/0.001 pH mV Resolution 0.1 mV / 1 Mv Temp Resolution 0.1°C / 0.1 °F mV Accuracy ±0.2 mV / ±1 Mv pH Accuracy ±0.01 Ph pH Automatic Upto 5 point calibration, with 7 memorized buffers Calibration Temperature Compensation automatic, from -20.0 to 120.0°C / -4.0 to 248.0°F with Glass Electrode , black holder stand , calibration pH buffers. Power supply 12 VDC power adapter (included Model MW 151 Milwaukee Made in Europe	Color Touch screen Display 4.3" high-resolution color touch screen has large digits and well-arranged icons — Recognizable icons provide direct, one-touch access to important information including user ID, sample ID, date, time, current calibration group, and sensor performance where you can check detailed calibration data — Return to the main menu from any screen with just one button tap on the display One touch toggling between pH, mV (ORP) and Rel. mV Measurement Range - 2.000...20.000 pH mV Range - 2000.00 to +2000.00 mV Temperature	PH Meter Digital Bench Top The inoLab® pH 7110 is highly suitable for routine measurements in the lab, where automatic documentation is not a priority. Less keys make operation simple and safe. With smooth, easy to clean surface. Parameter pH/mV/Temp Measuring range pH - 2.000 ... 19.999 Measuring range Temperature -5.0 ... 105.0 oC Measuring range mV - 1200.0 ...+1200 / -2000...+2000mV Accuracy pH +/- 0.005/ +/-0.01/0.1 Accuracy mV +/- 0.3 mV/ +/- 1 mV Accuracy Temperature +/-0.1 K With two/three Point Calibration System Battery operated as well as operated With 220 Volts Complete with following accessories:- a) Black Electrode stand with base. b) Plastic Beaker 50	PH Meter Digital Bench Model Microprocessor Controlled With parallel Temperature indication, PH Range -2.0 to 20.0 ±0.005pH, PH Resolution 0.001pH, MV Range ±1200.0mV, Accuracy mV ±-0.3mv, Automatic Temperature Compensation, Temperature Range –5 to +105.0°C, Temperature accuracy ±0.1°C with two/three Point Calibration System, Battery operated as well as operated With 220 Volts Complete with following accessories:- a) Black Electrode stand with base. b) Plastic Beaker 50 ml.	Display 6.5 inch LCD screen Parameters pH, mV, temperature Measuring range -2.00 ~ 18.00 pH Resolution 0.01/0.1 pH Accuracy ±0.02pH mV Measuring range - 1999.00~ 1999.00 mV mV Resolution 1mV mV Accuracy ±0.1%FS Temp Measuring range 0~ 100°C Temp Resolution 0.1°C Temp Accuracy ±0.5°C Temp Compensation 0-100°C, automatic Calibration 1, 2, 3 point, automatic	• Pak Fil Technologies • HA Shah & Sons • S U Enterprizes • Rays Technologies • New Chemical Centre • Shalimar Scientific Stores	• Sindh Medical Stores pH range is not according to our specifications required PH Range -2.0 to 20.0/provided PH Range -2.0 to 16.0 • RAAB Scientific Solutions Authorization letter not attached • Key Scientific Corporation Authorization letter not attached

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

m	R Q ty	Pakfills Technologies	Sindh Medical Stores	Centre		International	Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
ecision Type with Built in Temperature Sensor.Complete Package Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.		on:1point Power AC Adapter:Included—universal,100-240VAC Battery Power:Optional—4AAs BatteryLife:800hrs Make: Thermo Fischer Scientific USA	±0.5% full scale temprature range: -10.0 to 120.0°C resolution 0.1 °C accuracy ±0.4°C pH calibration upto 5 points Make: BOECO Germany	240VAC Make: Fisher Brand USA	setting; Selectable off or Automatic Smart averaging setting Temperature (English) Operating 41°F to 113°F (ambient) Temperature (Metric) Operating 5°C to 45°C (ambient) Temperature Probe Calibration 1 point temperature offset calibration Temperature Range (English) 22.0°F to 221.0°F Temperature Selection Manual or automatic with ATC temperature probe Warranty 3 Year Meter Warranty Weight (English) 2 lb. Weight (Metric) 0.9 kg Unit Size Each Make: Thermo Fisher Scientific			Range -30°C to 130 °C Resolution pH 0.1/0.01/0.001pH Resolution mV 1/0.1/0.01mV Resolution Temperature 0.1°C Accuracy pH ± 0.002 pH Accuracy mV ± 0.03% FS mV Accuracy Temperature ± 0.1°C Buffer Group 8 predefined groups, 1 self define group pH Calibration 1-9 points Memory 1000 sets, with 10*10 calibration data Display Color Touch-Screen LCD Input BNC, impedance >3*10e+12 Ω Cinch, NTC 30 kΩ Output USB & RS232 a) Electrode stand with base. b) Plastic Beaker 50 ml. c) 3MKCL Solution 50 ml. d) Calibration Standard solutions PH 4, 7 & 10 50ml each. e) PH Electrode precision Type with Built in Temperature Sensor.	ml. c) 3MKCL Solution 50 ml. d) Calibration Standard solutions PH 4, 7 & 10 50ml each. e) PH Glass Electrode precision Type with Built in Temperature Sensor. Complete Package Model Inolab PH 7110/Set WTW Made in Germany	c) 3MKCL Solution 50 ml. d) Calibration Standard solutions PH 4, 7 & 10 50ml each. e) PH Glass Electrode precision Type with Built in Temperature Sensor. Complete Package Model Inolab PH 7110/Set WTW Made in Germany. (xylem brand)	Model, S-610L PEAK Instruments USA Authorization letter not attached		

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

		Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
									Temperature Compensation ATC and MTC Power Supply 240V/50-60Hz, 9 V DC Model: ST5000 Ohaus - USA					
27	Glass ware drying cabinet: capacity 125 L, 3 adjustable shelves, Max temp: ambient +50, Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.	3	Not Quoted	Not Quoted	Glassware Drying cabinetModel No / Cat # 12989968 / LEEC F2 capacity 540 L, 4 adjustable shelves, Max temp: ambient +50Make: Fisher Brand USA	Not Quoted	Not Quoted	Glassware Drying cabinetAir Circulation type ForcedTemp Range Ambient +10°C to 250°C (Ambient +18°F to 482°F)Temp&Time controller Microprocess PID controllerHeater Capacity 2000 WDimension Internal (W×D×H) 555×450×600mmDimension External (W×D×H) 710x615x975mmCapacity 150 LMaterial Internal Stainless SteelMaterial External Steel Plate With Powder Heating CoatedShelves 3 Supplied (17 Maximum)Fan Position Bottom Electrical RequirementsCat. No. DO149FGBSH scinetific USA	Controller Smart Display 4.3" + touch screenNetwork LANUSB YES (saving registration data saving events)Keypad NumericMain Screen Dashboard (all relevant data visible from one main window) Programs 5Program name Free number assignedPriority ParametersSegments 6Data registry max. 10,000 measurement data stored for a maximum of 6 monthsEvents registry YesStatistics YES - only the current cycleTemperature protection class 2.0Device name Fixed (serial number)Alarm Bar YesQuick change Yesmicroprocessor controlled	Universal Oven Capcity 161 Liter Adaptive Multifunctional Digital PID-microprocessor Controller With High-Definition TFT-Color DisplaysTemperature range 10°C above ambient up to + 300°C1 Pt 100 Sensor Din Class A in 4-Wire Circuit Forced air circulation (Fan) Forced air circulation by quite air turbine, adjustable in 10% steps self-diagnostics for fault analysisdigital timer adjustable from 1 minute to 99 days, 23 hours Interior Stainless Steel & Textured Stainless Steel Casing Easy to Clean Interior, Made of Stainless Steel Interior dimension: 560 x 720 x 400 mm, With two stainless steel traysOperated on 220volts Model UF-160 Memmert, Germany	Universal Oven precise drying,Adaptive Multifunctional Digital PID-microprocessor Controller With High-Definition TFT-Color Displays• Temperature range 10°C above ambient up to + 300°C• 1 Pt 100 Sensor Din Class A in 4-Wire Circuit • forced air circulation (Fan) • forced air circulation by quite air turbine, adjustable in 10% steps • self-diagnostics for fault analysis• digital timer adjustable from 1 minute to 99 days, 23 hours• Interior Stainless Steel & Textured Stainless Steel Casing • Over Temperature	Volume of the chamber: 225 litersStandard maximum temperature: 300°CTemperature stability: < ± 0.2 °CInternal dimensions (W x D x H): 500 x 450 x 1000 mmExternal dimensions (W x D x H): 664 x 746 x 1312 mmQuantity of shelves: 2 provided Number of doors: 1Operated on 220Volts, Model XU225France Etuves, France	• Shalimar Scientific Store• SU enterprizes• Rays Technologies	• New Chemical Centre: no feature for regulation of temperature is mentioned; offered model doesnot contain temperature control• RAAB Scientific Solutions:Authorization letter not attached• Key Scientific Corporations:Authorization letter is not attached

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

m	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
								standard version drying oven, forced convection, chamber capacity: 180 liters, stainless steel interior & exterior, Solid door, temperature range: 5°C above ambient temperature...+300°C, temperature resolution every: 0,1°C, Timer: 1 – 365 days, 23hours 59 minutes or continuous, 4,3" full colour touch screen (comfortable use - just like your smartphone), automatic air-flap control, six-segment temperature-time profile, 1 stainless steel wire shelf, access port, test results memory. Shelves: 3Nos. Temperature protection class 2.0 to DIN 12880, RS 232 and USB ports for data transfer, open door alarm, Safety: Over Temp alarm, Over Current Protector, Sensor Error Detector, Auto restart: Auto restart at the same program		Protection• Program Stored in Case of Power Failure • Easy to Clean Interior, Made of Stainless Steel Operated on 220volts, UF Series.Capacity 108 Lit, interior dimension: 560 x 480 x 400 mm, with Three stainless steel trays, Model UF-110, Memmert, Made in Germany.			

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

		Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
									after power resumption. door lock.Model: SLW 180 IG SmartPoleko – Poland (Europe)					
28	Incubator: Adaptive multifunctional Digital PID-Microprocessor controller with High-Definition TFT-Color Display Temperature range 10°C above ambient up to +80°C, Resolution of display for set point values 0.1°C, Double doors (interior glass, exterior stainless steel),Adjustment of pre-heated fresh air admixture by air flap control in 10% steps, digital timer adjustable from 1 minute to 99 days, 23 hours, adjustable electronic overtemperature monitor and mechanical temperature limiter, protection class 1, Double Over Temperature Protection, Interior & Housing made of Stainless Steel,	2	Not Quoted	Not Quoted	Incubator Model No / Cat # 12885873 / IN30 Sepcifications TFT-Color Display Temperature range 5°C to 80°C, temp. accuracy 0.1°C, Interior & Housing made of Stainless Steel, Operated on 220volts,Capacity 32 Lit, Interior dimension: 250 x 4000 x 320mm Make: Fisher Brand (Memmert)	Not Quoted	Not Quoted	Incubator Memmert Temperature range 10°C above ambient up to +80°C Resolution of display for set point values 0.1°C Double doors (interior glass, exterior stainless steel) Adjustment of pre-heated fresh air admixture by air flap control in 10% steps, digital timer adjustable from 1 minute to 99 days, 23 hours adjustable electronic overtemperature monitor and mechanical temperature limiter, protection class 1 Double Over Temperature Protection Interior & Housing made of Stainless Steel Set point WAIT function - the process time does not start until the set temperature is reached Programme Stored in Case of Power Failure Operated on 220volts, IN Series Capacity 32Lit, with	Advantages of the Smart controller: 4,3", clear, full colour touch screen LAN, USB ports for data transfer Multi-segment time and temperature programs Visual and sound alarm Internal memory for programs and data storage Event registry Quick change of program parameters Alarm Bar Operating with gloves on Controller Smart Display 4.3" + touch screen Network LAN USB YES (saving registration data saving events) Keypad Numeric Main Screen Dashboard (all relevant data visible from one main window) Programs 5 Program name Free number assigned Priority	Incubator Capcity 32 Liter Adaptive multifunctional Digital PID-Microprocessor controller with High-Definition TFT-Color Display Temperature range: up to +80°C Double doors (interior glass, exterior stainless steel) Digital timer adjustable from 1 minute to 99 days, 23 hours Adjustable electronic overtemperature monitor and mechanical temperature limiter, protection class 1Double Over Temperature Protection Interior & Housing made of Stainless Steel Programme Stored in Case of Power Failure Interior dimension: 400 x 320 x 250mm With One stainless steel tray, Operated on 220volts Model IN-30, Memmert, Germany	Incubator Memmert Precision Adaptive multifunctional Digital PID-Microprocessor controller with High-Definition TFT-Color Display • Temperature range 10°C above ambient up to +80°C • Resolution of display for set point values 0.1°C • Double doors (interior glass, exterior stainless steel) • Adjustment of pre-heated fresh air admixture by air flap control in 10% steps, • digital timer adjustable from 1 minute to 99 days, 23 hours • adjustable electronic overtemperature monitor and mechanical temperature limiter, protection class	Volume of the chamber: 32 liters Standard maximum temperature: ambient + 5 to 80°C Temperature stability: < ± 0.2 °C Volume of the chamber: 32 liters Internal dimensions (WxDxH): 300 x 270 x 400 mm Quantity of shelves: 2 provided Operated on 220Volts, Model XB032 France Etuves, France	• SU Enterprizes • Rays Technologies • Shalimar Scientific Stores	• New Chemical Centre required digital timer adjustable from 1 minute to 99 days/ not provided • RAAB Scientific Solutions Authorization letter not attached • Key Scientific Corporations Authorization letter is not attached

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
et point WAIT functionOperated on 220volts,Capacity 32 Lit, Interior dimension: 400 x 320 x 250mm with One stainless steel tray, Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.							One stainless steel tray, Model IN-30, Memmert, Supplier LMS Germany	Parameters Segments 6 Data registry max. 10,000 measurement data stored for a maximum of 6 months Events registry Yes Statistics YES - only the current cycle Temperature protection class 2.0 Device name Fixed (serial number) Alarm Bar Yes Quick change Yes Digital microprocessor controlled standard version drying oven, natural convection, chamber capacity: 32 liters, stainless steel interior & exterior, Solid door, temperature range: 5°C above ambient temperature...+100°C, temperature resolution every: 0,1°C, Timer: 1 – 365 days, 23hours 59 minutes or continuous, 4,3" full colour touch screen (comfortable use - just like your smartphone),		1 • Double Over Temperature Protection • Interior & Housing made of Stainless Steel • Set point WAIT function - the process time does not start until the set temperature is reached • Programme Stored in Case of Power Failure Operated on 220volts, IN Series Capacity 32 Lit, Interior dimension: 400 x 320 x 250mm with One stainless steel tray, Model IN-30, Memmert, Made in Germany.			

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

		Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
									automatic air-flap control, six-segment temperature-time profile, 1 stainless steel wire shelf, access port, test results memory, Temperature protection class 2.0 to DIN 12880, RS 232 and USB ports for data transfer, open door alarm, Safety: Over Temp alarm, Over Current Protector, Sensor Error Detector, Auto restart: Auto restart at the same program after power resumption. door lock. Model: CLN 32 IG Smart Poleko – Poland (Europe)					
29	Ultrasonic Cleaning Bath : 20 kHz units are excellent for processing samples from 250 µL to several liters on a flow-through basis. Order calibrated SS temperature probe separately.• Automatic tuning and frequency	5	Not Quoted	Benchtop Ultrasonic Cleaner Capacity: 22 L Tank dimensions: (L × W × H) 500 × 300 × 150 mm Heating Powe: r 400 W Frequency: 40 kHz	Ultrasonic Cleaner Model No / Cat # S-DS-6P Technical Specifications: Stamped Stainless Steel 304 tank without welding gap SUS 304 stainless steel lid, basket and housing	Not Quoted	Not Quoted	Sonicator with Prob Digital microprocessor controlled automatic tuning, energy(joules) monitor, energy controller, programmable digital actual amount of power in watts, with automatic tuning & frequency control automatic amplitude Compensation, high	FEATURES: • Programmable • Variable power output • 10 hours timer • Pulse mode • Wattage and Energy display • Temperature monitoring • Energy setpoint SPECIFICATIONS Processing	Ulrasonic Cell Disruptopr Digital microprocessor controlled Ultrasonic Processor with Timer and Pulser – 150 microliters to 150 milliliters, automatic tuning & frequency control automatic Amplitude compensation, variable power output control	Ultrasonic Cell Disruptor Digital microprocessor controlled programmable digital actual amount of power in watts. Ultrasonic Processor with Timer and Pulser – 150 microliters to 150	Ultrasonic Cell Disruptor • Digital microprocessor controlled • Programmable digital actual amount of power in watts • Ultrasonic Processor with Timer	• Sindh Medical Stores • Shalimar scientific store	• New Chemical Centre : temmperature range required 1°C to 100°C/ provided 1°C to 80°C. •RAAB Scientific Solutions: Authorizati

Chairperson Technical Committee — Member — Member — Member — Member — Member

		Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	...ntrol• Integrated temperature controller from 1°C to 100°C• Stores up to 10 procedures• Real time display• Control process time from 1 second to 10 hours• Shipped complete with a 1/2 in. (13 mm) probe (630-0220) with replaceable tip, tool kit, and instruction manual Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.			Timing: 1 min ~ 30 min Make: Labotonics Scientific Ltd Canada	Cooling fan for prolonged operation:6L and above volume machine Drain pipe on side for easy draining and cleaning Tank and other metal parts are grounded (ESD-safe) Ceramic heaters for better heating effect Side handles for easy handling :3L and above machines Degas mode to get the cleaning started faster Adjustable power for maximum versatility: for DS-P series machines All series machines are with timer and heater Adjustable Heating: 0-80C Make: Stalwart			intensity type capacity to work with Processing volum 200 ul to liter depend on prob ,variable power output control with built in timer Control process time from 1 second to 10 hours, intergrated temperature controller from 1°C to 100°C• Stores up to 10 procedures Real time display frequency 20KHz,500 watt , Complete Unit, operated on 220 Volts Model VCX-500, Sonics, Made in USA . With standard Accessories i) Titanium alloy probe having tip diameter 13mm Cat # 630-0220 ii) Temprature prob iii) Tool kit for above system	Volume: 250µl – 1L Power Output 500 watt maximum Frequency 20kHz Ultrasonic Converter Part # CV334 Diameter 2.5" (64mm) Length 7.25" (183mm) Standard Probe Part # 630-0220 Tip Diameter 0.5" (13mm) with replaceable tip Length 5.5" (139mm) Material Ti6Al4V titanium alloy Converter Cable Part # 201-0300 Length 6 ft. (1.8m) Model: VCX 500 Sonics – USA	with built in timer, Net power output: 130 Watts. with probe: Tip diameter: 1⁄8" (3 mm) Model VCX-130, Sonics, USA	milliliters, automatic tuning & frequency control automatic amplitude compensation, variable power output control with built in timer, Net power output: 130 Watts. frequency 20KHz, STANDARD probe: Tip diameter: 1⁄8" (3 mm). Model VCX-130, Sonics, Made in USA.	and Pulser – 150 microliters to 150 milliliters, • Automatic tuning & frequency control automatic • With built in timer, • Net power output: 130 Watts. • Frequency 20 KHz, • With probe: Tip diameter: 1⁄8" (3 mm). Model VCX-130, Sonics, USA		on letter not attached • Key Scientific Corporations: Authorization letter is not attached • Rays Technologies:temmperature range required 1°C to 100°C/ notprovided • SU Enterprizes: Authorization letter is not attached
30	Conductivity Meter Digital Bench Top MicroprocessorControlled with parallel temperature indication, ConductivityRang	2	STARA2125Orion Star A212 Conductivity Benchtop Meter KitTechnical Specifications Conductivity Range:	Not Quoted	Orion Star A212 Conductivity Benchtop Meter KitTechnical Specifications Conductivity Range: 0.001µS to	STARA2125Orion Star A212 Conductivity Benchtop Meter KitTechnical Specifications Conductivity Range: 0.001µS to 3000mSResolution:0.001µS minimum, auto	Not Quoted	Conductivity meter Digital bench TypeCombined logging with GLP EC/TDS/NaCl/Temp bench meter; range: EC 0.00 to 2999 µS/cm; 30.0 to 299.0 µS/cm; 3 to 29.99	Measurement range Conductivity range: 0.0 µS/cm to 199.9 mS/cmTDS range: 0.1 mg/l to 199.9 g/l Salinity range: 0.00 to 19.99psu	Conductivity Meter Digital Bench TopParameter Conductivity/Salinity/spec. resistivity, TDSConductivity 0.001 µS/cm ... 1000 mSSpezischer Widerstand 0.00...	Conductivity Meter Digital Bench Top Microprocessor Controlled with parallel temperature indication, Conductivity	Display 6.5 inch LCD screenParameters conductivity, resistivity, TDS, salinity, temperatureConductivity	• Pak Fil Technologies • HA Shah & Sons • New Chemical Centre	• Shalimar Scientific StoresConductivity range is not according our specifications Range

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
0.0 us/cm to 1000 ms/cm, Accuracy 0.5%, Temperature Range -5.0 to +105.0°C, Salinity 0.0-70.0, TDS 0-1999 mg/l,Reference Temperature 20 or 25°C Selectable, With following accessories:- Conductivity Electrode Model Tetracon 325, Electrode Stand with Base , Standard solution 50 ml, Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.		0.001µS to 3000mSResolution 0.001µS minimum, auto ranging, upto 4 significant digitsRelative Accuracy:0.5% of reading ±1digit > 3µS, 0.5% of reading±0.01µS ≤ 3µSReference Temperature: 5,10,15,20,25ºCTemperature Compensation :Linear (0to 10.0%/ºC), non linear nLFn &nLFu, EP (USP), offCompatible Cell Constants:0.001to 199. 9 Calibration Points:Up to 5 points Calibration Editing:YesResistivity Range:2ohmto 100meg-ohmResolution: 1ohmor0.1meg-ohm, auto rangingRelative Accuracy:0.5% reading ±1 digitSalinity Type:Practical salinity or		3000mSResolution:0.001µS minimum, auto ranging, upto 4 significant digitsRelative Accuracy:0.5% of reading ±1digit > 3µS, 0.5% of reading±0.01µS ≤ 3µSReference Temperature: 5, 10,15,20,25ºCTemperature Compensation: Linear (0to 10.0%/ºC), nonlinear nLFn &nLFu, EP (USP), offCompatible Cell Constants:0.001to 199.9Calibration Points:Up to 5 pointsCalibrationEditingYesResistivity Range:2ohmto 100meg-ohmResolution:1ohmor0.1meg-ohm, auto rangingRelativeAccuracy:0.5% reading ±1 digitSalinity Type:Practical salinity or natural sea waterRange:0.06to80.00psu, 0.05to 42.00pptResolution:0.01psu,0.	ranging, upto 4 significant digitsRelative Accuracy:0.5% of reading ±1digit > 3µS, 0.5% of reading±0.01µS≤ 3µSReference Temperature:5,10,15, 20,25ºCTemperature Compensation:Linear (0to 10.0%/ºC), nonlinear nLFn &nLFu, EP (USP), offCompatible Cell Constants:0.001to 199.9Calibration Points:Up to 5 pointsCalibrationEditing:YesResistivity Range:2ohmto 100meg-ohmResolution:1ohmor0.1meg-ohm, auto rangingRelativeAccuracy:0.5% reading ±1 digitSalinity Type:Practical salinity or natural sea waterRange:0.06to80.00psu, 0.05to 42.00pptResolution:0.01psu,0.01pptRelativeAccuracy:0.5% reading ±1 digitTDS Range: 0.001to200.0pptResolution:0.001pptminimum, auto ranging, upto 4 significant digitsRelativeAccuracy:±0.5% reading ±1 digitTDS Factor Range:Linear, 0.02to 9.99Temperature Range:-5to105ºC, 23to 221ºFResolution:0.1º		mS/cm; 30.0 to 200.0 mS/cm; to 500.0 mS/cm without cat; TDS range 0.00 to 14.99 mg/L (ppm); 150 to 1499 mg/L (ppme); 1.50 to 14.99 g/L (ppt); 15.0 to 100 g/L (ppt); to 400.0 g/L; NaCl range 0 to 400%. Temp range: -9.9 to 120.0°C. 1 point calibration for EC with 6 memorized values. NaCl with 1 point. Supplied with MA814DB/1 probe, electrode holder MA9315, software Mi5200, RS232 connection with 2 meter cable, 12 VDC adapter and calibration solutions.Model MI 170 Milwaukee Made in Europe.	Temperature range: 0˚C to 100 ˚CResolution Automatic range: 0.1˚CError Limits ± 0.5 % Measured Value. ± 0.3 ˚CCalibration 1 point. 3 predefined standardsMemory 99 measurements. Last recent calibration dataPower Supply 110-240V/50Hz, DC 12V Display White backlight liquid crystalInput Mini-DinTemperature Compensation Linear: 0.00 %/˚C...10.00 %/˚C Reference Temp.:(20 - 25˚C)Housing Material ABSStandard Solution 50ml Model: STARTER 3100COhaus - USA	199 MOhm cmSalinity 0.0 ..70.0TDS 0 ... 1999m g/lTemperature -5.0 ... 105.0 °C ±0.1 °C (23 ... 221 °F)Cell constant 0.450...0.500 cm-1, 0.09 ... 0.110 cm cm-1, 0.800 to 0.880 cm-1, 0.25 ... 2.5 cm-1, fix 0,01 cm-1Calibration 1-pointTref 20 °C/25 °C (68 °F/77 °F)Temperature compensation nLF, linear 0.000 to 3.000 %, can be switched-offResolution Conductivity 0.1 µS/cm Salinity 0.1Accuracy Temperature +/- 1 digit 0.1 KAccuracy Messwerte +/- 1 digit +/- 0.5 %With following accessories:- a) Conductivity Electrode with built in Temperature Sensor b) Electrode Stand with Basec) Standard solution 50 mlComplete package Model Inolab Cond 7110/Set operated on 220 Volts WTW Made in Germany	Range 0.0 us/cm to 1000 ms/cm, Accuracy 0.5%, Temperature Range -5.0 to +105.0°C, Salinity 0.0-70.0, TDS 0-1999 mg/l, Reference Temperature 20 or 25°C Selectable With following accessories. a) Conductivity Electrode with built in Temperature Sensor b) Electrode Stand with Basec) Standard solution 50 mlComplete package Model Inolab Cond 7110/Set operated on 220 Volts WTW Made in Germany	measuring range (0.00~20.00) µS/cm (20.0~200.0)µS/cm (200~2000) µS/cm (2.00~20.00) mS/cm (20.0~200.0) mS/cmConductivity resolution 0.01/0.1/1µS/cm 0.01/0.1mS/cmConductivity Accuracy Electrode: ±1.0%FSInstrument: ±1.50%FSResistivity measuring range 0 ... 100 MΩ•cmTDS 0.00mg/L ~100 g/LSalinity 0~100 pptTemp measuring range (0~100)°CTemp resolution 0.1°CTemp accuracy ±0.5°C Data storage 300 setsModel, S-611L PEAK Instruments USA		required 0.0 us/cm to 1000 ms/cm/ provided EC 0.00 to 2999 µS/cm • SU Enterprizes Conductivity range is not according our specifications 0.0 us/cm to 1000 ms/cm 0.0 µS/cm to 199.9 mS/cm • RAAB Scientific SolutionsAuthorization letter not attached • Key Scientific CorporationsAuthorization letter is not attached • Rays TechnologiesAuthorization letter is not attached

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

Qty	Pakfilt Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprises	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	natural sea waterRange:0.06to80.00psu, 0.05to 42.00pptResolution:0.01psu, 0.01pptRelative Accuracy:0.5% reading ±1 digitTDS Range: 0.001to200.0pptResolution: 0.001ppt minimum, auto ranging, upto 4 significant digitsRelative Accuracy:±0.5% reading ±1 digitTDS Factor Range:Linear, 0.02to 9.99Temperature Range:-5to105ºC, 23to 221ºFResolution:0.1ºC,0.1ºFRelative Accuracy:±0.1ºC, ±0.1ºFOffset Calibration:1pointPower AC Adapter:Included—universal, 100-240VACBattery Power:Optional—4AAsBatteryLife:800hrsMak		01pptRelativeAccuracy:0.5% reading ±1 digitTDS Range: 0.001to200.0pptResolution:0.001pptminimum, auto ranging, upto 4 significant digitsRelativeAccuracy:±0.5% reading ±1 digitTDS Factor Range:Linear, 0.02to 9.99Temperature Range:-5to105ºC, 23to 221ºFResolution:0.1ºC,0.1ºFRelativeAccuracy: ±0.1ºC, ±0.1ºFOffset Calibration:1pointMake: Thermo Fischer Scientific USA	C,0.1ºFRelativeAccuracy:±0.1ºC, ±0.1ºFOffset Calibration:1pointMake: Thermo Fischer Scientific USA							

Chairperson Technical Committee | Member | Member | Member | Member | Member

		R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
			e: Thermo Fischer Scientific USA											
31	Spectrophotometer Visible: Grating 1200 Lines /mm § Both round / Square Cuvette, § Automatic Zero Function Digital microprocessor controlled range 320-1000nm, Data processing Microprocessor Display 3 ½ digit LCD, Optical system grating 1200 lines/mm zero blank set automatic Zero and blank setting automatic, bandwidth 6nm, Complete Unit with 10cm path length glass cells, Complete set operated On 220 Volts, Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.	2	AQ7100 AquaMate 7100 Visible Spectrophotometer Include TECHNICAL SPECS Accuracy (Photometric) ±0.002Aat 0.5A Detector Type Dual Silicon Photodiodes Dimensions (Lx Wx H) 35.5x 38.5x 19.5cm Display 7-inch color touchscreen, fixed, high definition, 800× 1280pixels Drift <0.0010A/Hr (At500nm after 1hourwarmup) Height(Metric) 19.5cm Lamp Tungsten-Halogen(>1000hoursTypical) Length(Metric) 35.5cm Noise (RMSat500nm 60consecutive measurements) ≤0.0002DAat	Touchscreen UV-Visible Spectrophotometer Optical system: Double beam Wavelength range: 190 nm ~ 1100 nm Spectral bandwidth: 0.5 nm ,1 nm, 2 nm, 4 nm, 5 nm Wavelength accuracy: ± 0.3 mm Wavelength repeatability : 0.1 nm Display: 9 inches VGA Detector: Silicon photodiode Scan speed: HIGH, MEDIUM, LOW Stray light: 0.05 % T at 220 nm,360 nm Light source: Tungsten and Deuterium Power: AC 110 V,50 Hz AC 220 V,60 Hz Make:	Visible Spectrophotometer Model No / Cat # STV-4300 Optical system: Single beam Wavelength range: 325 nm ~ 1000 nm Spectral bandwidth: 2nm Wavelength accuracy: ± 2nm Wavelength repeatability: 0.5 nm Detector: Silicon photodiode Light source: Tungsten Make: Stalwart	Not Quoted	Not Quoted	Spectrophotometer with color screen display Specification Wavelength Range: 320 to 1100nm Spectral Bandwidth: 6nm Transmittance accuracy: ±0.5% T (NIST 930 Filter) Transmittance repeatability: 0.2% T Baseline flatness: ± 0.002 Abs (330-1090nm) Noise level: 0.001 Abs (500nm) Baseline stability: 0.001 Abs/h (500nm) after 2 hours warm up Stray light: 0.5% T Wavelength controlled variable: 0.2nm Wavelength accuracy: ± 1nm Wavelength repeatability: 2400nm/min (0,2 sampling interval without filter) Wavelength scan speed: (0,2 sampling interval without filter) Wavelength move speed: to any specified position within 1sec. Absorbance: -0.3 to 1.999 Transmittance: 0 to 199.9% Spectrum Scanning: Yes	Specifications Wavelength Range 340-1000nm Wavelength Width 10nm in entire region Wavelength Accuracy ±2nm at 365 and 546nm Wavelength Scale 2nm scale Spectroscope Sigle beam, Diffraction grating 1200 lines/nm Stray Radiant Energy <0.5%T typical at 340nm with appropriate light filter Display 3-1/2 digit LCD Photometric Range 0-1.999ABS, 0-100%T, 0-1999C Photometric Accuracy ±2%T Detector High sensitivity silicon photocell Light Source Long-life Tungsten lamp with lens Sample Volume 1.0ml(Minimum) Power Requirements 100-240VAC, 50/60Hz, 15W Standard Accessories Square cuvette	Spectrophotometer Visible Digital microprocessor controlled range 320-1000nm Data processing Microprocessor Display 3 ½ digit LCD Bandwidth 6nm Grating 1200 Lines /mm Both round / Square Cuvette Automatic Zero Function With 10cm path length glass cells, Operated On 220 Volts, Model SP-300, Optima Japan	Features § Grating 1200 Lines /mm § Both round / Square Cuvette § Automatic Zero Function Digital microprocessor controlled range 320-1000nm, Data processing Microprocessor Display 3 ½ digit LCD Optical system grating 1200 lines/mm zero blank set automatic Zero and blank setting automatic, bandwidth 6nm, Complete Unit with 10cm path length glass cells, Complete set operated On 220 Volts, Model SP-300, Optima Made in Japan	Digital microprocessor controlled range 320-1000nm Data processing Microprocessor Display 3 ½ digit LCD Bandwidth 6nm Grating 1200 Lines /mm Both round / Square Cuvette Automatic Zero Function With 10cm path length glass cells, Operated On 220 Volts, Model SP-300, Optima Japan	• Sindh Medical Stores • Shalimar Scientific Stores • Pak Fil Technologies • New Chemical Centre	• S U Enterprizes wavelength range is not according required specifications required 320-1000nm/provided Range 340-1000nm • RAAB Scientific Solutions Authorization letter is not attached • Key Scientific Corporations Authorization letter is not attached • Rays Technologies Authorization letter is not attached

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

		R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
			0A at 260and 500nm ≤0.00030Aat 1A at 260and 500nm ≤0.00040Aat 2A at 260and 500nm OpticalDesign Dual beam Photometric Accuracy Instrument ±0.002Aat 0.5A±0.004Aa t 1.0A±0.008Aa t 2.0APhotomet ric Display 3A to +5A Photometric Range −3A to +3.5A Photometric Repeatability ±0.001Aat 1A measured at1.0Aat 546nm Printer Snap-onprinteravail able Range (Photometric) −3A to +3.5A SampleVolum e (Metric) Multiple ScanSpeed Automatic – upto 1800nm/min SpectralBand width 5nm StrayLight <0.05%Tat 340nm and	Labotronics Scientific Ltd Canada				Concentration: -300 to 1999 Selectable Resolution: 1, 0.1, 0.01 or 0.001 Light source: Tungsten Halogen lamp Detector: Silicon photodiode Power requirement: AC, 100-240V, 50/60Hz Model S-200 Vis BOECO Germany	2pc Round Cuvette 10pcs Power cord 1pc Vinyl dust cover 1pc Operation manual 1 copy Model: PD303 Apel - Japan					

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

		Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
			400nm Type Vis Wavelength Accuracy ±0.5nm Wavelength Data Interval 0.2nm, 0.5nm, 1nm, 2nm, 5nm Wavelength Range 325nm –1100nm Wavelength Repeatability <±0.2nm Wavelength Scan Speed Automatic – upto 1800nm/min Weight(Metric) 7.5kg Width(Metric) 38.5cm Warranty 1 Year Make: Thermo Fischer Scientific USA											
32	Abbe Refractometer: index measurement range is required small contract, laboratories or applications where sample throughput is relatively, low. display.Range 1.30 - 1.70 RI (0 - 95 °Brix) Resolution (Scale Division) 0.0005 (0.25	2	DR201-95 DIGITAL HAND-HELD REFRACTOMETERS P/N: DR201-95 Technical Specifications Measure mentrange: 1.3330–1.5318nD 0–95%Brix Accuracy: ±0.0003nD ±0.2%Brix	Boeco Digital Abbe Refractometer Measuring range Refractive index ND: 1.3000-1.7000 Brix BX - TC: 0-95 % Brix BX: 0-95 % Measuring accuracy Refractive	Not Quoted	173453 ABBEMAT 3200 AUTOMATIC REFRACTOMETER (173453) Measuring range: Accuracy refractive index: Temperature control: Temperature control range 1.30 – 1.72 nD • 0.0001 nD *) Internal temperature control by Peltier 15°C to 60°C Temperature probe	Not Quoted	Abbe Refractometer in sturdy housing with light viewing area. Connections for water bath 589 nm LED illumination. Digital thermometer 0-99 °C Measuring range: 1,3000-1.7200 nD; 0-95 %Brix Accuracy: +/-0.0002 nD; +/-0.1 %Brix Scale division: 0.0005 nD; 0.25 %Brix Power supply: 90-240	Abbe Refractometer Illumination Scale illumination, LED-illumination (590 nm) for prism Accuracy 0.1% Brix; 0.0002nD Measurement range 0-95% Brix solids content (sugar scale); 1.3000-1.7000 nD Power supply 220 V, switchable Scale division	Abbe Refractometer Refractometer ideally suited for use where a wide refractive index measurement range is required such as in small contract laboratories or applications where sample throughput is relatively low. The instrument features both refractive index and Brix scales, with the prism temperature being	Range 1.30 - 1.70 RI (0 - 95 °Brix) Resolution (Scale Division) 0.0005 (0.25 °Brix) Operating Temperature 5 – 75 °C Temperature Resolution 0.1°C Temperature Accuracy ±1°C Model Abbe 5, Bellingham &	Polarimeter Analogue Model WXG-4 Made in China	• Shalimar Scientific Stores • S U Enterprizes • RAAB Scientific Solutions	• Pak Fil Technologies Temprature range is not according to our requirements, required 5 – 75 °C/ provided 0–40°C • Sindh Medical Stores Temperature range is

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

	Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
Brix)Operating Temperature 5 – 75 °C Temperature Resolution 0.1°C Temperature Accuracy ±1°C, Complete unit with all standard accessories, Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.		Resolution: 0.0001nD 0.1%Brix Temperature measurement: 0–40°C Temperature accuracy: ±0.5°C Temperature compensation : 10–40°C Prism: Optical glass Housing: Plastic Dimensions in cm: 13.0x 8.0x 4.0 Weight: 200 g Power supply: 1.5 V Battery Make: A.KRUSS Optronic GmbH Germany	index ND: ± 0.0002 Brix BX - TC: ± 0.1 % Brix BX: ± 0.1 % Temperature Temperature displaying range: 0-50°C Correcting range of BX versus temperature : 15-45°C Make: BOECO Germany		accuracy 0.05 C * Minimum sample amount: Approx. 0.5 mL Measuring wavelength 589 nm Light Source LED Adjustment: One point adjustment *) valid at refractometric standard conditions (T= 20.0 °C, 589.3 nm, ambient temperature 23°C) 1.3. Software Features Default Methods: Refractive index, Brix, glucose, fructose, invert sugar, sucrose, further methods can be uploaded Supported languages: English, German, others will follow and can be uploaded Data memory: 2000 measuring results (ring buffer) Data export: • Printer • Memory Stick • Network server 1.4. General Technical Data Interfaces: • 2 # USB • 1 # USB seriell • RS-232 • Ethernet LIMS and Printer Supported input/output devices (PC): • Keyboard • Barcode Reader Display 5.8" colour		V, 50/60 Hz Model AR4 Kruss LMS Germany	0.25% Brix, 0.0005 nD Thermometer Digital thermometer: -40° bis 120°C Special features Adjustable scale, prisms can be temperature-controlled Model: AR4 Kruss – Germany	monitored electronically and displayed on the integral digital display Technical Specification Range 1.30 - 1.70 RI (0 - 95 °Brix) Resolution (Scale Division) 0.0005 (0.25 °Brix) Operating Temperature 5 – 75 °C Temperature Resolution 0.1°C Temperature Accuracy ±1°C Complete unit with all standard accessories, Model Abbe 5, Bellingham & Stanley Ltd. England	Stanley Ltd England. (xylem brand)			not according to our specifications required 5 – 75 °C/ provided 0-50°C • HA Shah & Sons Operating temperature is not according to our requirements required 5 – 75 °C/ provided 15°C to 60°C • Rays Technologies Authorization letter not attached • Key Scientific Corporations Authorization letter is not attached

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

		Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
						display Keyboard Touch screen Prism Synthetic Sapphire Material in contact with samples: Synthetic Sapphire, stainless steel, FFKM Power supply: AC 100 to 240 V; 50/60 Hz Power consumption: Min. 10W to max. 120W depending on sample set temperature and ambient temperature 92322 REFRACTOMETER REFERENCE LIQUID 20ML WATER, 1.332ND, PTB CERTIFICATE Make: Anton Paar GmbH								
33	Digital Melting Point Apparatus: - Digital selection & display of temperature - High accuracy - no. of samples 2,Temperature range Ambient to 300°C, Temperature accuracy ± 1.0°C at 20°C, ± 2.5°C at 300°C, Display Three digit LED, Temperature resolution 1°C, Sensor Platinum resistance PT100Ramp rates 20°C per minute to plateau, 20°C	2	M3000Melting point meter for semi-automatic SPECIFICATIONS:MEASUREMENT RANGE: 30–360°CMEASUREMENT ACCURACY: ±0.3°C(30–200°C), ±0.5°C(200–360°C)RESOLUTION: 0.1 °CPREHEATING RATE: To200 °C approx. 4.0minTo300° C approx.	Automatic Melting Point Meter Temperature range: RT - 350 °CDetection method: Fully automatic (compatible with Semi-automatic)Camera and Video: Camera and VideoSD card capacity: 8 GBTemperature gradients:	Not Quoted	Not Quoted	Not Quoted	Melting Point Apparatus Colorful Touch Screen Display. Temperature Range Room Temperature to 320°C Resolution 0.1°CTemperature Increase Speed 0.1°C-10°C (100temperature point infinitely adjustable)Temperature Control Method PID control temperature,fully closed design of furnace bodyAccuracy ±0.4°C (<250°C) ,±0.7°C (>250°C) Repeatability When 0.1°C/Min,repeatability ±0.3°CDisplay ETF	Melting Point ApparatusMEASUREMENT RANGE 30–360 °CMEASUREMENT ACCURACY ±0.3 °C (30–200 °C) ±0.5 °C (200–360 °C)RESOLUTION 0.1 °CPREHEATING RATE To 200 °C approx. 4.0 min To 300 °C approx. 8.0 minHEATING RATE 1 °C min-1OBSERVATION LENS 10xNO. OF CAPILLARIES 3CAPILLARY Ø 1.4mmINTERFACE RS232IP CODE:	Digitl Melting Point ApparatusNumber of samples 2 Temperature Ambient to 300°C Temperature accuracy ± 1.0°C at 20°C, ± 2.5°C at 300°CDisplay Three digit LEDTemperature resolution 1°C Sensor Platinum resistance PT100 Ramp rates 20°C per minute to plateau 20°C per minute to melt Dimensions (w x d x h) 160 x 220 x 170 mmNet weight 1.8 kgElectrical supply 230V, 50Hz, 75WComplete unit	Number of samples 2 Temperature Ambient to 300°C Temperature accuracy ± 1.0°C at 20°C, ± 2.5°C at 300°C Display Three digit LED Temperature resolution 1°C Sensor Platinum resistance PT100 Ramp rates 20°C per minute to plateau 20°C per minute to melt	Number of samples 2 Temperature range Ambient to 300°C Temperature accuracy ± 1.0°C at 20°C, ± 2.5°C at 300°C Display Three digit LED Temperature resolution 1°C Sensor Platinum resistance PT100 Ramp rates 20°C per minute to plateau	• Shalimar Scientific Stores • S U Enterprizes Pak Fil Technologies	• RAAB Scientific SolutionsAuthorization letter not attached • Key Scientific CorporationsAuthorization letter is not attached • Rays TechnologiesAuthorization letter is not attached • Sindh Medical Stores

hairperson
echnical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

		Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	per minute to meltDimensions (w x d x h) 160 x 220 x 170 mm, Net weight 1.8 kgElectrical supply 230V, 50Hz, 75W,Complete unit with pack of 100 melting point tubes, closed, at both ends,Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.		8.0minHEATING RATE: 1°Cmin-1OBSERVATION LENS: 10xNO.OF CAPILLARIES: 3CAPILLARY Ø: 1.4mmINTERFACE: RS-232IP CODE: IP20POWER SUPPLY: 90–264VDIMENSIONS (WXHXD): 210mm x 360mm x 230mmWEIGHT: 4.3kgMake: A.KRUSS Optronic GmbH Germany	0.1 °C ~ 20.0 °C / minTemperature accuracy: ± 0.3 °C（< 250 °C）± 0.5 °C（> 250 °C）Repeatability: ± 0.1 °C（At 0.1 °C / min）Exploration model: NoVideo playback: NoMagnification: 7Operator account: 8Curve storage: 10Display: TFT touch screenInterface: USB, RS232, SD card Standard capillary size: Inner diameter-1.0 mmOuter diameter-1.4 mmMake: Labotronic Scientifc Ltd Canada				High Solution Color Touch ScreenOutput RS232 interfaceSample Tube external diameter ϕ1.6mm, internal diameter :ϕ1.2mmVoltage 100V-240V 50HZ-60HZPower 100WModel DMP 600 A &E Lab UK. with pack of 100 melting point tubes	IP20POWER SUPPLY 90-264 VModel: M3000Kruss - Germany	with pack of 100 melting point tubes, Model SMP10, Stuart England	Dimensions (w x d x h) 160 x 220 x 170 mm Net weight 1.8 kg Electrical supply 230V, 50Hz, 75WComplete unit with pack of 100 melting point tubes, Model SMP10, Stuart England	20°C per minute to melt Dimensions (w x d x h) 160 x 220 x 170 mm Net weight 1.8 kg Electrical supply 230V, 50Hz, 75WComplete unit with pack of 100 melting point tubes, closed at both ends, Model SMP10, Stuart England		No specification is mentioned.
34	Universal Oven Precise drying, Adaptive Multifunctional Digital PID-microprocessor	2	Not Quoted	Not Quoted	Universal Oven Model No / Cat # 12686977 / Memmert UN55 Temperature	51014542 Vacutherm vacuum heating and drying ovens dimenstions (Lx W x H) 57x74.4x57.6 cm, frequency 50/60 HZ	Not Quoted	Universal Oven With Fan Circulation With Forced circulation Adaptive Multifunctional Digital PID-microprocessor	Universal Oven Precise drying All the units in the IG Smart version are equipped with a PID	Universal Oven Capcity 32 liter Adaptive Multifunctional Digital PID-microprocessor Controller	Universal Oven Precise drying, Adaptive Multifunctional Digital PID-microprocessor	Volume of the chamber: 58 liters Standard maximum temperature:	• Rays Technologies • SU Enterprizes	• RAAB Scientific Solutions Authorization letter not

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

	R Q TY	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
controllerwith High-Definition TFT-Color Displays Temperature range 10°C above ambient up to +300°C, Single DISPLAY, forced air circulation (Fan), forced air circulation by quite air turbine, adjustable in 10% steps for each segment individually, self-diagnostics for fault analysis, digital timer adjustable from 1 minute to 99 days, 23 hours, Multiple Overtemperature Protection with audible and visual alarm, Interior Stainless Steel & Textured Stainless Steel Casing Operated on 220volts, UF Series. Capacity 53 Lit, interior dimension: 400 x400x330mm, with single stainless steel tray Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the				range up to +300°C, capacity 53 L, depth; 330 mm, Display TFT Length: 514 mm, Interior Dimensions(h*l *w) 340*400*400 mm Make: Fisher Brand USA	temperature 300/ 400°C voltage 230V capacity 53L Dimensions (Interior) 37.1 x41.5x 34.5 cm type: shelf heating with multichnnel controller Make: Thermo Fisher Scientific USA		Controller with High-Definition TFT-Color Displays Temperature range 5°C above ambient up to +300°C, Single DISPLAY, natural convection, adjustment of pre-heated fresh air admixture by air flap control in 10% steps for , each segment individually self-diagnostics for fault analysis forced air circulation (Fan) digital timer adjustable from 1 minute to 99 days, 23 hours Multiple Overtemperature Protection with audible and visual alarm Interior Stainless Steel & Textured Stainless Steel Casing Operated on 220volts, UF Series. Capacity 53Lit, interior dimension: 400 x400x330mm with single stainless steel tray, Model UF-55, Memmert, LMS Germany	microprocessor controller with an LCD graphic display and illuminated touch buttons. Advantages of the Smart controller: 4,3", clear, full colour touch screen LAN, USB ports for data transfer Multi-segment time and temperature programs Visual and sound alarm Internal memory for programs and data storage Event registry LabDesk software and user manual for direct download Quick change of program parameters Alarm Bar Operating with gloves on Controller Smart Pro Display 4.3" + touch screen Network LAN USB YES (saving registration data saving events) Keypad Numeric Main Screen Dashboard (all relevant data visible from one main window)	With High-Definition TFT-Color Displays Temperature range: up to +300°C Single DISPLAY Self-diagnostics for fault analysis Digital timer adjustable from 1 minute to 99 days, 23 hours Multiple Overtemperature Protection with audible and visual alarm Interior Stainless Steel & Textured Stainless Steel Casing Interior dimension: 400 x400x330mm With single stainless steel tray, Operated on 220volts, Model UN-55, Memmert Germany	Controller With High-Definition TFT-Color Displays • Temperature range 5°C above ambient up to +300°C • Single DISPLAY • natural convection • adjustment of pre-heated fresh air admixture by air flap control in 10% steps for each segment individually • self-diagnostics for fault analysis • digital timer adjustable from 1 minute to 99 days, 23 hours • Multiple Overtemperature Protection with audible and visual alarm • Interior Stainless Steel & Textured Stainless Steel Casing Operated on 220volts, UN Series. Capacity 53 Lit, interior dimension: 400 x400x330mm with single stainless steel tray, Model UN-55,	Ambient +10 degree to 300°C Temperature stability: < ± 0.2 °C Internal dimensions (W x D x H): 400 x 360 x 400 mm Quantity of shelves: 1 provided Operated on 220Volts, Model XU058 France Etuves, France	• Shalimar Scientific Store • New Chemical centre	attached • Key Scientific Corporations Authorization letter is not attached • H. A. Shah & Sons: Specifications are notaccording to requirments 10°C above ambient up to +300°C/provided temperature 300/ 400°C

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
Manufacturers/foreign principals must be attached.								Programs 5 Program name Free number assigned Priority Parameters Segments 6 Data registry max. 10,000 measurement data stored for a maximum of 6 months Events registry Yes Statistics YES - only the current cycle Temperature protection class 2.0 Device name Fixed (serial number) Alarm Bar Yes Quick change Yes Additional software for PC LabDesk Digital microprocessor controlled standard version drying oven, natural convection, chamber capacity: 56 liters, stainless steel interior & exterior, Solid door, temperature range: 5°C above ambient temperature...+300°C, temperature resolution every:		Memmert, Made in Germany.			

airperson
chnical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

		Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
									0,1°C, Timer: 1 – 365 days, 23hours 59 minutes or continuous, 4,3" full colour touch screen (comfortable use - just like your smartphone), automatic air-flap control, six-segment temperature-time profile, 1 stainless steel wire shelf, access port, test results memory, Temperature protection class 2.0 to DIN 12880, RS 232 and USB ports for data transfer, open door alarm, Safety: Over Temp alarm, Over Current Protector, Sensor Error Detector, Auto restart: Auto restart at the same program after power resumption. door lock. Model: SLN 53 IG Smart Poleko – Poland					
35	Electric Water Bath: Water Bath Basic class for standard temperature, control tasks, Temperature range min. 5 °C above ambient		Not Quoted	Thermostatic Water Bath Interior dimension: 580 x 280 x 130 mm Capacity: 20 L Temperature	Electric Water Bath Model No / Cat # 17188974 / Memmert WTB15 dimenions: 349*554*245	TSSWB15 SHAKING WATER BATHS Amperage 9.0-10.5 / 4.3-5.0 (120V/230V) Chamber Material 304 Stainless Steel Controller Type Digital Description 15L Shaking Water Bath	Not Quoted	Water Bath Microprocessor PID-temperature controller with integrated autodiagnostic system with fault indicator Integrated digital timer from 1 min. to	Water Bath Type Digital Microprocessor Control Working Temperature Range Ambient +5°C to 100°C Reservoir Capacity	Water Bath Digital Microprocessor Control Working Temperature Range Ambient +5°C to 100°C Reservoir Capacity 28 Liters	Water Bath Capacity 14 Lit Basic class for standard temperature control tasks Temperature range min. 5 °C above ambient	Not Quoted	•Shalimar Scientific Stores • S U Enterprizes • HA	• RAAB Scientific Solutions Authorization letter not attached

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

		R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	up to +95 °C, with additional boiling mode (+100 °C), State-of-the-art control technology of the Basic and models, Microprocessor PID-temperature controller with, ntegrated autodiagnostic system with fault indicator, integrated digital timer from 1 min. to 99,59 hours, Overtemperature Protection (double), Interior Stainless Steel Tank & Textured Stainless Steel Casing,Fitted With Gabled Cover,Capacity 14 Lit., interior dimension 350x290x140mm , Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.			range: RT+5 °C to 99 °C Temperature tolerance: ± 1 °C Temperature homogeneity: ± 1 °C Power: 1500 W Voltage: 110 V/60 Hz 220 V/50 Hz Make: labotronics Scientifc Ltd Canada	mm display: 3.5 inch color graphic display with touch capacity: 17.5 L, temperature; 5 - 100°C, Timer from 1 min upto 999 hrs Make: Fisher Brand USA	Dimensions (L x W x H) 15.5 x 24.9 x 9.8 in. (394 x 632 x 249 mm) Display Monochrome LCD Heating Capacity 1200 w Includes Stainless Steel Gable Cover and Rubber Duck Material Epoxy Powder-coated Cold Rolled Steel Model Precision SWB 15 Temperature Presets 4 Temperature Stability ±0.1°C Temperature Uniformity ±0.05°C Capacity (Metric) 15 L Certifications/Compliance UL, CE Electrical Requirements Global Voltage 100/115 V 200/230 V 50/60 Hz Temperature Range Ambient +5° to 100°C Unit Size Each Make: Fisher Brand USA		99,59 hours, 1min resolution Capacity 14 liters Temperature range min. 5 °C above ambient up to +95 °C with additional boiling mode (+100 °C) Resolution: 0.1°C, Variation: ±0.1°C State-of-the-art control technology of the Basic and models Overtemperature Protection (double) Interior Stainless Steel Tank & Textured Stainless Steel Casing Fitted Operated on 220volts, WNB Series.., Model WNB14, Memmert LMS Germany	28 Liters Reservoir/Tank Material Stainless Steel Reservoir Cover Hinged Gable Temperature Stability ±0.1°C Temperature Uniformity ±0.2°C at 37°C Temperature Calibration Capability 1-point Display 3.25" LCD Timer 1 – 99hour or continuous Flammability Class (DIN 12876-1) I (NFL) Over-Temperature Protection Yes Failsafe Heater Control Yes Reservoir Drain Yes Maximum Ambient Temperature 40°C Model: WB28 Polyscience – USA	Reservoir/Tank Material Stainless Steel Reservoir Cover Hinged Gable Temperature Stability ±0.1°C Temperature Uniformity ±0.2°C at 37°C Temperature Calibration Capability 1-point Display 3.25" LCD Timer 1 – 99hour or continuous Flammability Class (DIN 12876-1) I (NFL) Over-Temperature Protection Yes Failsafe Heater Control Yes Reservoir Drain Yes Maximum Ambient Temperature 40°C Model: WB28 Polyscience – USA	up to +95 °C State-of-the-art control technology of the Basic and models Microprocessor PID-temperature controller Integrated digital timer from 1 min. to 99,59 hours Over temperature Protection (double) Interior Stainless Steel Tank & Textured Stainless Steel Casing Fitted With Gabled Cover interior dimension 350x290x140mm Operated on 220voltsModel WNB14, Memmert Germany		Shah & Sons • Sindh Medical Stores • New Chemical Centre	
36	ZF-20D ultraviolet analyzer: Sample room size: 250 * 170* 230mmSample	1	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	UV Lamp with Viewing Cabinet2x8 Watt lamp UV lamp, wavelength 254/366 nmObject size 20x20cm x 2mm thicknessA timer	UV Lamp Viewing Cabinet UV Lamp dual wavelengthThe stand holds the lamp in a	UV Lamp with Viewing Cabinet • 2x8 Watt lamp UV lamp, wavelength	• Rays Technologies	• RAAB Scientific SolutionsAuthorization letter not attached•

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

	Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
mm door size: 200 * 110 mmTwo: UV filter size 150mm * 70mmThree: UV lamp power: 8W 254nm * 28W 365nm2 branchesFour: Power supply voltage: 220V frequency: 50HZ Five :Lamp life of 1000 hours or moreSix :The ultraviolet transmittance of the filter is more than 20 w/ square metersGermany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.									automatically turns off after 10 minutes A glass filter in the viewing window, Shock Resistant HousingViewing box is made of shock resistant plastic fitted with high Intensity 8 watt lamps of 254/366nm wavelength, Operated on 220 Volts, Camag Made in Switzerland	position. It shields off extraneous light on three sides. Objects up to 2mm thickness can be pushed through under the back screen.Specifications:• 2x8 Watt lamp UV lamp, wavelength 254/366 nm.• Object size 20x20cm x 2mm thickness.• A timer automatically turns off after 10 minutes.• A glass filter in the viewing window.• Shock Resistant HousingViewing box is made of shock resistant plastic fitted with high intensity 8 watt lamps of 254/366nm wavelength, The Lamp is equipped with a timer that automatically turns off after 10 minutesreduces the risk of exposure to radiation operated on 220 Volts,	254/366 nm.• Object size 20x20cm x 2mm thickness.• A timer automatically turns off after 10 minutes.• A glass filter in the viewing window.• Shock Resistant HousingViewing box is made of shock resistant plastic fitted with high Intensity 8 watt lamps of 254/366nm wavelength, Operated on 220 Volts, Camag Made in Switzerland		Key Scientific CorporationsAuthorization letter is not attached

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

	Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
Luminescence Spectrometer: capability of measuring fluorescence, phosphorescence or chemiluminescence, and bioluminescence. Pulse rate, delay and gate times can be varied. Source Xenon flash lamp, pulsed at line frequency (50 or 60 Hz). Pulse width at half peak height < 10µs, power equivalent to 20 kW at continuous operation. Delay (td) and gate time (tg) can be varied to measure phosphorescence. Source can be turned off for measuring chemiluminescence and bioluminescence. Optics Monk-Gillieson type monochromators using low stray light, holographic gratings cover the following ranges: Excitation 200-800 nm with zero order selectable	1	Not Quoted	Not Quoted	Not Quoted	G9800AA Cary Eclipse Bundle includes WinFLR Software and standard accessories. Computer-controlled ratioing fluorescence spectrophotometer with measurement modes for fluorescence, phosphorescence, chemiluminescence and bioluminescence. Czerny-Turner 0.125 m monochromators, 190–1100 nm wavelength range, fixed selectable SBW from 1.5 to 20 nm, full spectrum Xenon pulse lamp with exceptionally long lifetime, pulsed at 80 Hz. Pulse width at half peak height ~2 µs, peak power equivalent to 75 kW. single source with exceptionally long life, horizontal beam geometry, dual R928 PM tubes. Synchronous scanning is available with constant wavelength or constant frequency difference. Excitation spectra are automatically corrected. All reflective optical system with quartz overcoated optics, Schwarzschild source	Not Quoted	Not Quoted	Fluorescence mode: Fluorescence, Luminescence (Chemiluminescence, Bioluminescence, Electroluminescence Source: High intensity 150W continuous xenon lamp Optical: Double continuous spectroscoptic monochromator Gratings: Holographic Concave grating Excitation: 64x64mm, blaze at 400nm Emission: 64x64mm, blaze at 400nm Wavelength range: 200-900nm Wavelength accuracy: +/- 2.0nm Wavelength reproducibility: +/-1.0nm Detector: Photomultiplier tube R928, continuously adjustable negative high voltage 0-900V Spectra Bandwidth: Excitation: selecable 1, 2.5, 5, 10 20nm	Not Quoted	Camag Made in Switzerland. Not Quoted	Not Quoted	• H.A. Shah & Sons • SU Enterprizes	

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

R Q TY	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
...ission 200-650 nm with zero order selectable (standard photomultiplier) 200-900 nm with zero order R928 photomultiplier (optional) Synchronous scanning is available with constant wavelength or constant frequency difference. Excitation spectra are automatically corrected. An excitation filter wheel is incorporated into the optical unit and inserts a 390 nm cut-off filter as an excitation spectrum is scanned through 410 nm. Excitation and Emission Polarizers consisting of 2 filter wheels, each with horizontal and vertical polarizer elements are included. Wavelength accuracy + 1 nm Wavelength + 0.5 nm reproducibility Spectral bandpass The excitation slits				optics for increased energy throughput and precise imaging and focusing, scan rates from 0.01 to 24 000 nm/min, 80 data points per second maximum measurement rate in fluorescence mode, non-measurement phase stepping wavelength drive, room light immunity in fluorescence mode, centrally controlled by computer with MicrosoftR WindowsR 2000 or XP operating system. The Agilent Cary Eclipse Fluorescence spectrophotometer is manufactured according to a Quality system certified to ISO 9001. These guaranteed specifications are based on the ±4 sigma statistical confidence level of the final acceptance tests performed at the factory. Source can be turned off for measuring chemiluminescence and bioluminescence Source Xe pulse lamp with exceptionally long lifetime, pulsed at 80 Hz. Pulse width at half peak height ~2 µs, peak power equivalent to 75 kW. Monochromators Excitation: Czerny-			Emission: slectable 1, 2.5, 5, 10 20nm Wavelength scan speed: Max 30,000nm/min Selectable from 30, 60, 240, 1200, 2400, 12000, 30,000nm/min Scan Interval: 0.2-10.0nm Sensitivity: Signal to noise level using the Raman peak of water excitation 350nm, is 1200:1 RMS measuring noise on background (BG) Linearity: 0.995 (quinine sulfate solution) Baseline drift: <0.3% (within 10 minutes) Fluorescence value drift: <1.5% Ex: 352nm, EM: 450nm, (within 10min) Fluorescence value range: 0 to 70,000 Computer + Pinter + UPS included Model: FL970 Techcomp – Singapore Accessories Micro Powder						

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

	R Q TY	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
15 nm and emission slits 2.5-20 nm can be varied and selected in 0.1 nm increments. Scanning speed The scanning speed can be selected in increments of 1 nm from 10–1500 nm/minute. Data can also be collected with respect to time. Emission filters Computer selectable cut-off filters, 290, 350, 390, 430 and 515 nm, a blank (to act as a shutter), a 1 % attenuator, and a clear beam position. Sensitivity Minimum signal-to-noise level using the Raman band of water, excitation 350 nm, is 750:1 RMS measuring noise on the Raman peak, and 2500:1 RMS measuring noise on the baseline. Standard A single position water thermostatted holder for 10 mm cuvettes.Should includes a host of automated accessories and software to					Turner, f3.6, 0.125 m focal length Emission: Czerny-Turner, f3.6, 0.125 m focal length Monochromator Gratings Excitation: 30 x 35 mm, 1200 l/mm, blaze at 370 nm Emission: 30 x 35 mm, 1200 l/mm, blaze at 440 nm Detectors: High performance R928 photomultiplier detectors. Separate R928 PMT for reference signal. Optional R3896 PMT for enhanced sensitivity above 700 nm. Wavelength range Mechanical excitation: 190–1100 nm. Zero order selectable. Mechanical emission: 190–1100 nm. Zero order selectable. Operational excitation: 200–900 nm with standard PM tube. Zero order selectable. Operational emission: 200–900 nm with standard PM tube. Zero order selectable Wavelength accuracy ± 1.5 nm Wavelength reproducibility ± 0.2 nm Sensitivity (Raman band of water)> 500:1 RMS: 500 nm			sample Holder Variable angle Powder sample holder Polarizer cell holder 1.7ml micro fluorescence cell 1ml micro fluorescence cell 0.7ml micro fluorescence cell 0.35ml micro fluorescence cell 1.4ml micro fluorescence cell					

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

	Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
...ross a wide range of bioresearch applications. Whether your application requires fluorescence, phosphorescence, chemi – or bioluminescence. Compatible PC Printer with UPS or recomended accessoriesGermany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.					excitation, excitation and emission slits 10 nm, 1 s Signal Averaging time. > 750:1 RMS: 350 nm excitation, excitation and emission slits 10 nm, 1 s Signal Averaging time. Sample compartment Dimensions: 198 x 273 x 205 mm (width x depth x height) Access: Front and top Instrument purging Sample compartment windows and sample compartment Operational Spectral bandwidth Excitation: 1.5, 2.5, 5, 10, 20 nm and 10 nm round Emission: 1.5, 2.5, 5, 10, 20 nm and 10 nm round Filters Excitation: Computer-selectable fi lters including 2 bandpass fi lters (250–395 nm, 335–620 nm), 2 cutoff fi lters (550 nm, 695 nm), a shutter and open beam position. Emission: Computer-selectable fi lters including 1 bandpass fi lter (250–395 nm), 4 cutoff fi lters (295, 360, 430 and 550 nm), a 3% attenuator, a shutter and an open beam position.								

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

QTY	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
				Signal averaging Fluorescence: 0.0125 to 999 s Phosphorescence: 1 µs to 10 s (Gate time) Bio/Chemi-luminescence: 40 µs to 10 s (Gate time) Wavelength scan rate 0.010–24 000 nm/min Maximum slew rate 24 000 nm/min (400 nm/s) Maximum scan rate 24 000 nm/min (400 nm/s) Data interval (nm): 0.15–30 cm-1:9.3711–140.0566 A: 1.5–300 eV: 0.0012–0.0174 Photometric display ±1000 arbitrary units (a.u.) Gain Selection of Low, Medium and High with manual control from 400 to 1000 V in increments of 1 V. Maximum sensitivity ~5000 times that of Low. Data collection rate (kinetics studies) 1 cell: 4800 points/min per cell 4 cells: 6 points/min per cell 4 cells (0.0125 s SAT, 0.013 s Dwell time): 55 points/min per cell Repetitive scanning 9910103000 Kit Powder Cell , Single Crystal Holder G9800AA#325 Cary WinFLR								

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

		Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
						Academic Option Adds five free of charge software copies for academic customers. G9809A Single Cell Holder, Water Thermostatted Compatible Computer System with Laser Jet Printer Compatible Branded UPS Make Agilent Technologies USA								
38	Glassy Carbon Working Electrode	5	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted		
39	Ag/AgCl Electrode	5	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted		
40	Pt Counter Electrode	5	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted		
41	HPLC System HPLC system Complete with PDA detector and accessories1- Solvent Managementi Flow rate range (0.01-10.0 ml/min, in 0.01 ml increments)i Eleven gradient curve shapes (linear, 2 step, 4 convex, 4 concave)i Delay volume is <650 ul (including Sample Management delay volume) – unlike other systems, this volume is independent of	1	Not Quoted	Not Quoted	Not Quoted	G7111A 1260 Infinity II Quaternary Pump VL 1260 Infinity II Quaternary Pump VL, maximum pressure 400bar. Includes quaternary pump, column, connecting capillaries, solvent cabinet, solvent bottles and CAN cable. G4208A Infinity Series Instant Pilot Handheld local controller for all Agilent HPLC systems with color screen LCD, keyboard, and holder. Includes CAN cable and USB slot for method and sequence transfer. Performance	Waters e2695 XC Alliance HPLC System • Waters Quaternary Gradient Alliance HPLC System with Built-in Auto sampler having Sample Heating and Cooling, 4 channel In-line degasser, Column Heater / Cooler, PDA Detectors & Empower QS software which is US FDA Approved & 21 CFR part 11 ready compliant.The e2695 Separations Module has integrated solvent, sample management and includes both a sample heater/cooler and a column heater/Cooler. The	Not Quoted	Not Quoted	HPLC System Quaternary Gradient Wetted Materials: Stainless Steel Flow Rate: Programmable (Analytical: 0.001 - 10.000 ml/min) Flow Accuracy: ± 1.0 % 1.000 ml / min Flow Precision: ± 0.1 % RSD 1.000 ml/min Pressure Range: 0 – 40 MPa (0 – 6000 PSI) Pressure Pulsation: typical < 0.1 MPa or < 1.0 % Compressibility Compensation: user-adjustable for different solvents Dimensions: (W x H x D) 310 x 165 x 478 mm	HPLC System Quaternary Gradient Routine HPLC System Consisting of: HPLC Pump System Model S1125G, Quaternary Gradient, Programmable dual-piston pump head for low pulsation Stainless Steel (Analytical) Programmable dual-piston pump head for low pulsation, camshaft constantly lubricated, with	Wetted Materials: Stainless Steel Baseline Noise: ± 1 x 10-5 AU (@240 nm, 1sec. Risetime) Baseline Drift: <3 x 10-4 AU/h Number of Diode: 256 Wavelength Range: 190 – 720nm Wavelength Accuracy: 0.5 nm (256 Diodes) Mean Pixel Pitch: 2.2 nm	• Kamstech international	• Key Scientific Corporations Authorization letter is not attached • Rays Technologies required deuterium arc lamp/provided duetrium-tungsten lamp • H A Shah and Sons: Higher Delay volume

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

Company	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
...pressure) ...od linking; ...tomated ...ystem shut down/ Built in high efficiency, low volume, and vacuum degassing system with separate vacuum chambers for each solvent.¡ Flow precision of </= 0.075% RSD with flow accuracy of +/- 1%. ¡ Compositional accuracy is <0.5% and compositional precision is <0.5%, both measured at 1 ml/min.¡ Must Include In-Built LCD for System Preparation, an automated software assisted purge function for ease of solvent changing and system purging/priming and other applicationsWarranty on system sub-assemblies ¡ - Solvent manager drive mechanics - 2 years or 200,000 injections, whichever occurs first ¡ - Sample manager drive				Specifications: Hydraulic system: Dual piston in series pump with servo-controlled variable stroke drive, power transmission by gears and ball screws, floating pistons Settable flow range: Set points 0.001 – 10 mL/min, in 0.001 mL/min increments Recommended flow Range: 0.2 – 10.0 mL/min Flow precision: ≤0.07 % RSD, or ≤0.02 min SD whatever is greater Flow accuracy: ± 1 % or 10 µL/min whatever is greater, pumping degassed H2O at 10 MPa (100 bar) Composition accuracy: <0.2% RSD Composition precision: <0.2% RSD Pressure operating range: Operating range up to 40 MPa (400 bar, 5880 psi) Pressure pulsation:< 2 % amplitude (typically < 1.0 %), or < 0.3 MPa (3 bar, 44 psi), whatever is greater, at 1 mL/min isopropanol, at all pressures > 1 MPa (10 bar, 145 psi) Compressibility Compensation: User-selectable, based on mobile phase	system features quaternary solvent delivery and sample introduction via a direct inject sample manager. The system may be configured for a broad range of applications supported by HPLC optical detectors and mass detectors, with a choice of instrument control and data management software. The following items are included as part of the core system: • e2695 XC Separations Module • Integrated Degasser and Plunger Seal-wash • Sample Compartment (Autosampler) with Heater/Cooler (4-40C) • Column Heater / Cooler (4-65) • System Start Up Kit • User Documentation Overall System - Low dispersion fluidics (< 650uL, independent of back pressure) enhance fast gradients and rapid system equilibration - System Prep capability for unattended system priming, purging and equilibration of system - Remote operation via Waters Empower, Millennium32 or MassLynx software			Operated on 220 volts Sykam, Made in Germany	interface RS 232C, digital I/O and analog pressure outlet; Flow rate : 0.001 – 10.000 ml/min Pressure range : 0 – 40 MPa (0-6000 PSI) Power Supply : 100-250V (47 - 63 Hz) Operated on 220 volts Sykam, Made in Germany With four Channel Degasser built in pump Specification:- Wetted Materials: Stainless Steel Baseline Noise: ± 1 x 10-5 AU (@240 nm, 1sec. Risetime) Baseline Drift: <3 x 10-4 AU/h Number of Diode: 256 Wavelength Range: 190 – 720nm Wavelength Accuracy: 0.5 nm (256 Diodes) Mean Pixel Pitch: 2.2 nm (256 Diodes) Resolution (λ FWHM): 7 nm (256 Diodes) Linearity: >	(256 Diodes) Resolution (λ FWHM): 7 nm (256 Diodes) Linearity: > 2.0 AU Flow cell built in Light Source Deuterium Lamp, Tungsten Lamp Autosampler Automatic Sample Injector System Wetted Materials: Stainless Steel / PEEK*, PPS, PVDF Sample Capacity: 60/80 (1.5 ml), 98 (microtiter plates) Injection Volume: Programmable 0.1 - 999.9 µl Injection Precision: < 0.5 % Variable Volume Injection (10 µl; typically ~0.25 %) Linearity: Correlation Factor > 0.999 (10 µl		than required which disperses peaks and affect peak sharpness. Not equipped with Built-in LCD Warrenty on sample Manager Derive Mechanics not offered. two lamps system causes the problem of lamp solarization and increased cost of maintenance • RAAB Scientific Solutions, wavelength range is not according to requirment. Incomplete specification provided

...erson ...cal Committee Member Member Member Member Member

Scanned with CamScanner

Key	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
				compressibility Recommended pH range: 1.0 – 12.5, solvents with pH < 2.3 should not contain acids which attack stainless steel Gradient formation: Low pressure quaternary mixing/gradient capability using proprietary high-speed proportioning valve. Gradient curves are available for linear, concave and convex. Delay volume: 600 – 900µL, Settable composition range: 0 – 100 % in 0.1 % increments Composition precision: < 0.2 % RSD or < 0.04 min SD, whatever is greater Integrated degassing unit: Built in high efficiency, low volume, and vacuum degassing system with separate vacuum chambers for each solvent Number of channels: 4 Internal volume per channel: 1.5 mL Warranty on system sub-assemblies- Solvent manager drive mechanics - 2 years or 200,000 injections Seal pack assembly - 1 year or 15,000	- Direct programming via intuitive user interface - 5,000 psi (345 bar) system pressure capability for Solvent/Sample Management fluidics - 316 grade stainless steel based fluidic pathway supplemented with zirconia ceramic, sapphire, ruby, and polymeric materials 2. Solvent Management - Solvent conditioning via four-channel high efficiency vacuum in-line degasser - Low volume degassing chambers (< 500 uL) enhance rapid solvent changeovers - Pulse free solvent delivery with £ 0.075%RSD flow precision (0.200 to 5.000 mL/min) - Eleven available gradient curve profiles; linear, step, concave and convex - Automated, continuous solvent compressibility compensation - Low pressure mixing, quaternary solvent proportioning - Automated, continuous plunger seal wash - Serial flow path with only 2 check valves - Tool-free, simple				2.0 AU Flow cell built in Light Source Deuterium Lamp, Tungsten Lamp Autosampler Automatic Sample Injector System Wetted Materials: Stainless Steel / PEEK*, PPS, PVDF Sample Capacity: 60/80 (1.5 ml), 98 (microtiter plates) Injection Volume: Programmable 0.1 - 999.9 µl Injection Precision: < 0.5 % Variable Volume Injection (10 µl; typically ~0.25 %) Linearity: Correlation Factor > 0.999 (10 µl injection volume, 500 µl Syringe) Carry Over: < 0.05 % with wash program Dimensions: (W x H x D) 310 x 210 x 478 mm Operated on 220 volts	injection volume, 500 µl Syringe) Operated on 220 volts, Model S5250 Column Oven Wetted Materials: Stainless Steel / PEEK1, PPS1 Temperature range: 5°C - 100°C; Temperature Accuracy: < 0.1 °C; Column oven comes by default with one column holder Column chamber: 439 x 133 x 75 mm Safety Features: Temperature Fuse; Operated on 220 volts, Model S4120 Fraction Collector System • Integrated collect/drain valve • Exchangeable collection racks • Free position		

...ics - 2 ...s or 200,000 ...ctions, whichever occurs first / - Seal pack assembly - 1 year or 15,000 injections, whichever occurs first 2- Sample Management with Sample Cooling:i temperature control module for controlling the sample temperature compartment between 4 and 40°C in 1° increments.i Automatic routines for adding, mixing and injecting derivatized samples.i Needle wash system that uses fresh solvent with each injection. i Random access to any vial for multi-method operation.i Programmable needle height control to help protect the needle from damage and allow greater flexibility when using advanced routines.i All electric design for convenience

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

Item	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
...uracy i ...ion is <0.5% ...injections ...rom 5-80 ul. Linearity is >0.999 coefficient of deviation from 1-100 ul. Carryover is <0.0025% from previous injection (Caffeine).i 0.1 to 2000 ul Injection range with up to 99 injections per vial. Sample capacity is 120 (2ml) vials. Limited volume inserts allow as little as 0.1ul from 7ul.¡ Events include 2 inject starts, inject stop and programmable contact closure.3- Column Oven ¡ - Forced air recirculation Peltier-based column heater module ¡ - 4 to 65° C ¡ - Integral mounting clips for column(s) and tubing's ¡ - Must have cooling option. 4- Photo Diode Array Detector:¡ Low noise sensitivity = <10 µAU ¡ 190-800 nm with 1.2 nm Digital and Optical					injections G4208A Infinity Series Instant Pilot, Infinity Series Instant Pilot Handheld local controller for all Agilent HPLC systems with color screen LCD, keyboard, and holder. Includes CAN cable and USB slot for method and sequence transfer. automated software assisted purge function for ease of solvent changing and system purging/priming and other applications Sample manager with sample cooling 4 - 40 °C G7129A 1260 Infinity II Vialsampler For use up to 600 bar. Includes 100uL metering device and a 100 uL sample loop plus integrated needle flush port. Includes 2 drawers each for 66 vials (2 mL). HPLC design Autosampler up to 600 bar for 0.1 to 100 mL Injections.Includes: • Two drawers, each 66 sample vials (2mL) 132 vials total Capacity. • Automatic routines for adding, mixing and injecting derivatized samples • Needle wash system	access to plungers, plunger seals, plunger wash seals 3. Sample Management - 120 sample capacity via industry-standard 2 mL vials configured in 5 x 24 vial carousels - Alphabetically indexed and color-coded carousels for multiple users - Compatible with Waters unique range of HPLC Certified vials - Sample delivery precision < 0.5% RSD (5 to 80 uL) - Programmable variable-volume injection volume range of 0.1 to 2,000 uL - Syringe (standard) 250µL with 100µL loop - Tool-free replacement of needle wash frit - Programmable needle height in 1 mm increments - User- settable stat runs, auto additions and auto standards routines - Programmable dynamic needle wash (i.e. no wash vial) minimizes sample carryover 4. Sample Temperature Control Option (P/N WAT270802) - Forced air recirculation Peltier-based sample				Model S5250 Column Oven Heating/Cooling electronic defect. Wetted Materials: Stainless Steel / PEEK1, PPS1 Temperature range: 5°C - 100°C; Temperature Accuracy: < 0.1 °C; Column oven comes by default with one column holder Column chamber: 439 x 133 x 75 mm Safety Features: Temperature Fuse; Leakage Sensor; Operated on 220 volts, Model S4120 Fraction Collector System • Integrated collect/drain valve • Exchangeable collection racks • Free position selection • Simple I/O interface Model S6410 Add-on: HPLC instrument Control	selection Model S 6410 Chromatography Software 21 CFR Part 11 complaint software for a single HPLC system (1 time base) Upgradable to 4 independent systems Integration Overlay Calibration Automated measuring support Add-on: HPLC instrument Control With following accessories:- a. HPLC Column C18 size 250 x 4.6mm 5µ 1-No b. Ferrules, Stainless Steel tubing, Screws complete for installation with 1000vials c. Branded Computer Core i5 & 22" LED & Laser Printer		

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

S. No	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	optimization to maximize the signal-to-noise across the entire wavelength range with a single Deuterium lamp i Flexible sampling rates for normal and fast LC separations from 1 to 80 Hz i Independent optimization of Data Rate and Time Constant.i Lamp Optimization Software – ensures the same light energy output for the entire life of the detector lamp.i One lamp – not two – cuts the cost of maintenance and avoids the problem of lamp solarization, which is seen in two lamp systems, when the light from one lamp hazes the glass of the second lamp.i Only one moving part – which means fewer parts to wear.i Software can run detector as a				that uses fresh solvent with each injection programmable Standard needle wash/flush port and peristaltic pump • Random access to any vial for multi-method operation • Programmable needle height control to help protect the needle from damage and allow greater flexibility when using advanced routines • Precision:<0.25 % RSD of peak areas from <5 µL to 100 µL • Linearity is >0.9999 in the range of 0.1-100 ul • Carryover is <0.0009% for caffeine under specified conditions and for routine analysis <0.004 % (40 ppm) with needle wash • 0.1 to 1800 ul Injection range with up to 99 injections per vial • Sample capacity 132 vials of 2 mL • Limited volume inserts allow as little as 0.1ul from 7ul.i • Events include 2 inject starts, inject stop and programmable contact closure applications ranging from microbore to	temperature control - 4 deg C to 40 deg C temperature range, darkened sample compartment 5. Column temperature control - Column Heating Option (P/N 186186301) - Forced air recirculation Peltier-based column heater/cooler module - 4 °C to 65 °C - Integral mounting clips for column(s) and tubing's - Forced air recirculation Peltier-based column heater/cooler module - Ambient minus 15° C or 4° C (whichever is greatest) up to 65° C - Integral mounting clips for column(s) and tubing's 6. Warranty on system sub-assemblies - Solvent manager drive mechanics - 2 years or 200,000 injections, whichever occurs first - Sample manager drive mechanics - 2 years or 200,000 injections, whichever occurs first - Seal pack assembly - 1 year or 15,000 injections, whichever occurs first Alliance (B) Series Bottle Tray Waters Extended flow kit with injection				Instrument control for HPLC instruments Add-On: Multi-Com 1xUSb to 6x RS232 Converter With 1-No HPLC Column C18 size 250 x 4.6mm 5µ With Ferrules, Stainless Steel tubing, Screws complete for installation with 1000vials With Branded Computer Core i5 & 22" LED & Laser Printer With 3KVA UPS for HPLC (Locally Supplied) Complete as above, Sykam, Made in Germany	d. 3KVA UPS (Locally Supplied) Complete as above, Sykam, Germany		

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

	Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
ngth, wavelength spectral detector. I Specialized routines such as MaxPlot, Purity determinations and spectral libraries.I Collect 8 channels of 2D data at user defined bandwidth for user optimization of 2D detection.5-Fraction CollectorThe Fraction Collector III is an easy-to-use, stand-alone fraction collector designed for use with HPLC, Preparative HPLC, and MS applications.Compatible with flow rates as high as 300 mL per minute, the Fraction Collector III handles a variety of adapter racks and collection vessels within a compact footprint. Its flexible design accommodates fraction sizes compatible with microtiter plates up to multiple liter containers:&					semi preparative chromatography Includes a needle flush port for rinsing of outside needle to maintain lowest carryover during routine work Low internal volume for minimum contribution to a system's total internal volume, which can be even further, reduced using "bypass" mode Overlapped injections for increased productivity Injection program available for customizing advanced injections as well as for sample preparation steps upfront injection Performance Specifications Injection range 0.1 – 100 µL in 0.1 µL increments upto 1800uL Precision <0.25 % RSD of peak areas from <5 µL to 100 µL Pressure range0 – 60 MPa (0 – 600 bar, 0 – 8702 psi) 0 – 40 MPa (0 – 400 bar, 0 – 5801 psi) Sample viscosity range 0.2 – 5 cp • Sample capacity 132 x 2 mL vial (two trays default)100 x 2 mL vial (two classic trays optional)	volume range from 0.1 - 2000 ul. Includes 2000 ml coiled sample loop & 2500 ul multi-draw syringe 2998 Photodiode Array Detector with Analytical Flowcell The 2998 Photodiode Array (PDA) Detector offers advanced optical detection, providing unprecedented trace impurity detection and quantitation in conjunction with spectral analysis capabilities. It is the ideal detector for any lab application from compound identification to method development. For routine analyses, the 2998 PDA detector is reliable, easy-to-use, and has enhanced software control to provide flexibility for simultaneous 2D and 3D operation. Features include - Patented Tapersite™ flow cell ensures high sensitivity while maintaining optimal spectral performance - Low noise performance of <10 µAU - Wide, linear dynamic range with constant optical bandpass - Simultaneous quantification of high and low level								

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

	R Q TY	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
purpose tionality in a small footprint§ intuitive keypad and screen view make setup easy§ Review results in real time, or via a post-run results table§ Remote management with MassLynx™ Software for MS applications, Choose from several task-specific sample run modes of operation (time, signal, peak numbers, etc.)6-Software:Complete system with original CDS software fully compliant with 21 CFR Part 11 guidelines. Software must have option to multi-vendor system connectivity. Software must have LIMS / LMS supportSystem must control mass spectrometry data with mass spectrometer upgradation. Must include System suitability for HPLC & DetectorSystem qualification					36 x 6 mL vials (two trays optional) Injection cycle time 18 s for draw speed 200 µL/min Ejection speed: 200 µL/mim Injection volume: 1 µL G7129A#010 Standard drawer (6x11 vials) x 2 G7129A#101 Agilent InfinityLab Sample Thermostat Agilent InfinityLab Sample Thermostat provides sample temperature control in the range of 4°C up to 40°C G7116A Agilent 1260 InfinityIIMutli-Column Thermostat Operating principle Thermostatted column compartment with dual, independent Peltier-element. Solvent pre-heating and still-air operation for reduction of chromatographic band-broadening under UHPLC-conditions. Include Agilent Quick Connect Column kit for easy Hassle free column Connection, Integral mounting clips for column(s) and tubing's Temperature range 10 °C below ambient (minimum 4 °C) to 85 °C settable in steps of	components within a single chromatographic separation - Flexible sampling rates for normal and fast LC separations from 1 to 80 Hz - Independent optimization of sampling rate and time constant gives you the ability to tune your detector to your separation goals - Definitive compound identification & co-elution detection - Spectral exposure optimization to maximize the signal-to-noise across the entire wavelength range with a single Deuterium lamp - Lamp optimization for the best s/n performance over the lifetime of a Deuterium lamp - Console software for simple control, monitoring, and diagnostics - Thermal wander management for maximum baseline stability - Flow cell options to match your separation scale and type Mobile phase bottles Empower QS Personal Single System Software Add On. - (US FDA Approved & 21 CFR Part 11 compliant)								

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
...ices (IQ/OQ) ...h original ...cumentation. advanced system control data acquisition, and custom reporting features of Software, System must provide documentation to meet GxP and 21 CFR. 7- Accessories:- C18. 4.6x250, 5um (Carbon Load 18%, pH Range 1-12, 130A) 03 Nos. - PM Kit for Diode Array Detector 01 No.- PM Kit for separation module (Pump & Autosampler) 01 No.(PM Kit: one diffuser assembly, one filter insert assembly, four stainless steel solvent filters, four face seals, 2 fluoroloy seals, one syringe, one compression screw, one sealwash injector tube, one needlewash frit, five sealwash seals, two seals, one spacer, two plungers, one PTFE washer, two plunger seal wash, one lithium battery, one					0.1 K Temperature stability ±0.1 °C Temperature accuracy ±0.5 °C (with calibration for 40 °C) Temperature precision 0.05 °C Independent Temperature zones 2in single device Column capacity 4 columns of up to 300 mm length plus InfinityLab Quick-Connect fittings or pre-column Number of precolumn Quick-Connect Heat Exchangers is scalable – each column can be equipped with individual heat exchanger for best performance 4-column selector valve is available to access each column without replumbing Heat-up/cool-down time 5 min from ambient to 40 °C 10 min from 40 °C to 20 °C <25 min from 25 °C to 85 °C Solvent heat exchangers Photo Diode Array Detector G7115A Agilent1260 InfinityIIDiode Array Detector Detection type 1024-element photodiode array Light source	- original CDS software fully compliant with 21 CFR Part 11 guidelines. - Software have option to multi-vendor system connectivity. - Software must have LIMS / LMS support - System have option to control mass spectrometry data with mass spectrometer upgradation. - Include System suitability for HPLC & Detector - System qualification services (IQ/OQ) with original documentation. advanced system control data acquisition, and custom reporting features of Software, System must provide documentation to meet GxP and 21 CFR. Waters Fraction Collector The Fraction Collector III is an easy-to-use, stand-alone fraction collector designed for use with HPLC, Preparative HPLC, and MS applications. Compatible with flow rates as high as 300 mL per minute, the Fraction Collector III handles a variety of adapter racks and collection vessels within a compact footprint. Its flexible							

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

	Technologies	Medical Stores	Centre	...Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
...e wash ..., one filter ...tainer, thin walled PTFE tubing, two check valve cartridge assemblies, powder-free gloves, one injector needle and one injector needle ferrule.)- 2ml Glass vial Pre-slit septa-amber 1000 vials- Branded Computer (Core i5) with 22" LED and laser jet printer and Microsoft compatible windows.- Branded online 3KVA UPS with dry batteries 30 minutes backup) Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.				Deuterium and tungsten lamps The UV-lamp is equipped with RFID tag that holds lamp typical information. Data rate up to 120 Hz Wavelength range 190 – 950 nm Short term noise (ASTM) Single and Multi-Wavelength < ± 0.7•10-5 AU at 254 and 750 nm Drift < 0.9•10-3 AU/h at 254 nm Linear absorbance range > 2 AU (5 %) at 265 nm Wavelength accuracy ± 1 nm Self-calibration with deuterium lines, verification with holmium oxide filter Wavelength bunching 1 – 400 nm Programmable in steps of 1 nm Slit width 1, 2, 4 , 8, 16 nm Programmable slit Diode width < 1 nm Digital and Optical Resolution. Spectral exposure optimization to maximize the signal-to-noise across the entire wavelength range with a D2 and Tungsten lamp. Flexible sampling rates for normal and fast LC separations from 120 Hz Independent	design accommodates fraction sizes compatible with microtiter plates up to multiple liter containers: § Multi-purpose functionality in a small footprint § Intuitive keypad and screen view make setup easy § Review results in real time, or via a post-run results table § Remote management with MassLynx™ Software for MS applications Choose from several task-specific sample run modes of operation (time, signal, peak numbers, etc.) Rack, Multi-Purpose, WFC WFC Series Rack, 17MM OD Scintil. Vials Scintillation vial rack of 16.5 mm (rack with 120 scintillation vials, 16.5 mm OD & 54 mm height. Waters Hybrid XBridge BEH C18 Column, 5 µm, 4.6 mm X 250 mm pH Range: 1-12.5 Carbon Load: 18% 2690/95 PERFORMANCE MAINTENANCE KIT The Waters® Performance Maintenance Kit for the 2690 Separations Module contains all the Waters Quality							

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

Key	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shallmar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
				optimization of Data Rate and Time Constant. Lamp Optimization Software – ensures the same light energy output for the entire life of the detector lamp Time programmable Wavelength, polarity, peak width, lamp bandwidth, autobalance, wavelength range, threshold, spectra storage mode Spectral tools Data analysis software for spectra evaluation, including spectral libraries and peak purity functions Software can run detector as a single wavelength, multi-wavelength or spectral detector. Specialized routines such as MaxPlot, Purity determinations and spectral libraries. Collect 8 channels of 2D data at user defined bandwidth for user optimization of 2D detection Safety and maintenance Extensive diagnostics, error detection and display (through control module and ChemStation), leak detection, safe leak handling, leak output signal for shutdown of pumping system. Low	Parts® necessary to keep your instrument operating at peak performance on an annual basis. The Waters® Performance Maintenance Kit includes the following parts: one diffuser assembly, one filter insert assembly, four stainless steel solvent filters, four face seals, 2 fluoroloy seals, one syringe, one compression screw, one sealwash injector tube, one needlewash frit, five sealwash seals, two seals, one spacer, two plungers, one PTFE washer, two plunger seal wash, one lithium battery, one needle wash filter, one filter retainer, thin walled PTFE tubing, two check valve cartridge assemblies, powder-free gloves, one injector needle and one injector needle ferrule. ACQUITY PDA 2998 Detector Performance Maintenance Kit The Waters® Performance Maintenance Kit includes the following parts: PerformancePLUS™ Long Life Lamp. Acquity PDA 2998 Detector Flow cell PM Re-build Kit LC-GC Certified Amber Glass 12 x 32 mm							

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
				voltages in major maintenance areas. GLP features RFID for electronics records of flow cell and UV lamp conditions (path length, volume, product number, serial number, test passed, usage) Early maintenance feedback (EMF) for continuous tracking of instrument usage in terms of lamp burn time with user-setable limits and feedback messages. Electronic records of maintenance and errors. Verification of wavelength accuracy with built-in holmium oxide filted Standard flow cell 10mm, 13uL, 120bar G1364E 1260 Infinity II Preparative Fraction Collector Maximum flow rate up to 100 mL/min. The Fraction Collector must easy-to-use Make Agilent Technologies USA GMa Agilent Technologies USA7115A#018 standalone fraction collector designed for use with HPLC, Preparative HPLC, and MS applications. Compatible with flow	Screw Neck Vial, with Cap and Preslit PTFE/Silicone Septum, 2 mL Volume, 100/pk Branded Desktop Computer Core i5 with 22" LED, Laser jet Printer & Windows Branded Online 3 KVA UPS with stabilizer with 30 min backup Startup accessories for HPLC sample preparations: - Ultra-Sonic Bath - Glass Filtration Assembly - 25 mm x 0.45 um & 25 mm x 0.2 um membrane filters (100 each) he prices are inclusive of the following items with no extra charges. 1. Installation at your facility by Kamstec Engineer 2. Comprehensive Operators training and front line maintenance at your facility. 3. Branded computer with printer & UPS for HPLC system will be provided locally by Kamstec 4. All types of chemicals/solvents & glassware are customer responsibility. 5. IQ /OQ will be Performed for HPLC systems by Kamstec								

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
			rates as high as 100 mL per minute, the Fraction Collector handles a variety of adapter racks and collection vessels within a compact footprint. Its flexible design accommodates fraction sizes compatible with microtiter plates up to multiple liter containers: Multi-purpose functionality in a small footprint Intuitive keypad and screen view make setup easy Review results in real time, or via a post-run results Table Remote management with Software for MS applications, choose from several task-specific sample run modes of operation (time, signal, peak numbers, etc.) Must include one standard rack that holds up to 120 tubes (with 12x18 mm OD & 90 to 180 mm height) Must include HPLC rack of 24x 2 ml vials Must include one multi-purpose rack Must include Scintillation vial rack of 16.5 mm (rack with 120 scintillation	Engineer at no extra charge							

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
				vials, 16.5 mm OD & 54 mm height. Minimum system flow: Depending on the recommended flow rates of the installed tubing Plates/Trays 4 x well-plates full tray (MTP) * (for use with deep well plates only) 2 × well-plates std. tray (MTP) (for use with deep well plates, only) + 10 × 2 mL vials* (+ 1 half tray) 100 x 2 mL in std. tray (+ 1 half tray)* 3 x 40 x 2 mL in half tray* 3 x 15 x 6 mL in half tray* Full tray with 40 test tubes (30 mm OD, max. height 100 mm, 45 mL / tube) Full tray with 60 test tubes (25 mm OD, max. height 100 mm, 25 mL / tube) Full tray with 126 test tubes (16 mm OD, max. height 100 mm, 12 mL / tube) Full tray with 215 test tubes (12 mm OD, max. height 100 mm, 7 mL / tube) Installed trays are automatically detected and identified. Only one type of well-							

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

Ra ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
				plates can be used at a time in one tray. Only the 96 deep well-plates can be used (without closing mats) Fraction Collector is an easy-to-use, stand-alone fraction collector designed for use with HPLC, Preparative HPLC, and MS applications. Compatible with flow rates as high as 100 mL per minute, the Fraction Collector handles a variety of adapter racks and collection vessels within a compact footprint. Its flexible design accommodates fraction sizes compatible with microtiter plates up to multiple liter containers. Multipurpose functionality in a small footprint. Intuitive keypad and screen view make setup easy. Review results in real time, or via a post-run results table. Remote management with CDS Software for MS applications, Choose from several task-specific sample run modes of operation (time, signal, peak numbers, etc. M8418AA								

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
					OpenLab CDS VL Workstation Plus software includes VL software with built-in content management and 1 instrument connection. Software is 21 CFR PART II compliant Features One software for Agilent GC, LC, GC/MS, LC/MS and other vendors' instruments provides same user experience and allows viewing data across techniques and instruments with the same user interface. Support for Mass Spectrometry including data acquisition, data processing, and reporting. Data integrity features to ensure work quality, manage records effectively, and enhance data security. New user interface displays only the relevant tools and information you need for your current work. Built-in custom calculations eliminate errors caused by data export. Software:Complete system with original CDS software fully compliant with 21 CFR Part 11 guidelines.								

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
			Software must have option to multi-vendor system connectivity. Software must have LIMS / LMS supportSystem must control mass spectrometry data with mass spectrometer upgradation. Must include System suitability for HPLC & Detector System qualification services (IQ/OQ) with original documentation. Advanced system control data acquisition, and custom reporting features of Software, System must provide documentation to meet GxP and 21 CFR HPLC Column C18. 4.6x250, 5um (Carbon Load 18%, pH Range 1-12, 130A) 2140-0820 PM Kit for Diode Array Detector G1310-68741 PM kit for 1260 Quaternary Pump Includes seal caps, seal wash gasket 6/pk, PTFE Frits 5/pk, Piston Seal PTFE G7129-68740 PM Kit 1260 Inf II Autosampler Includes: needle assembly (100ul), needle seat, rotor seal, gripper finger caps							

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

		Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
						5190-9063-100 HPLC Vials, ambrscrw write on 2ml 100/pk 5185-5820 PTFE Caps for HPLC Vials 500/pk Computer Branded Computer (Core i5) with 22" LED and laser jet printer and Microsoft compatible windows Printers Branded online 3KVA UPS with dry batteries 30 minutes backup)								
-2	Ice Flake MachineCompact body size to fit to under counterWide door design for easy to take ice out of binSmart protections: Protection from unusual electrical conditionFlask backside for space saving installationIce production capacity: 120kg/day with ice storage bin 60kg, air cooled type complete unit Operated on: 220V, 50 Hzflaked ice machine preferred for lab, clinical and education use. CurranTaylor Scotsman self contained flake (crushed) ice	1	Not Quoted	Flake Ice Maker Ice making capacity: 250 kg / 24 hrsIce storage: 60 kgPower: 1100 WRefrigerant: R134aCooling type: Air coolingWater supply: Tap waterVoltage: 220 V ; 50 HzDimensions: 680 x 740 x 1100 mmMake: Labotronics Scientifc Ltd Canada	Ice Flake MachineModel No / Cat # SIM-200F ice production capacity: 200 kg/24 hrs, storage bin: 60 kg, temperature : 10-43CMake: Stalwart	Not Quoted	Not Quoted	ICE FLAKE MAKERIce making capacity 120 Kg per day/24h Ben capacity 129 KG (D105)Air cool compressor CFC refrigerationAutomatic startup ,Operating on 220-240V 50HzModel F120 C Ice maticCastle MAC SpAMade in Italy	Compact body size to fit to under counterWide door design for easy to take ice out of binSmart protections: Protection from unusual electrical conditionFlask backside for space saving installationIce production capacity: 120kg/day with ice storage bin 55kg, air cooled type complete unit Operated on: 220V, 50 HzModel: SPR120Simag – Italy	Ice Flake Maker Feet: Nr 4 made in plastic material, adjustable in height for levelingDoor: in the front part of the appliance is located the door plasticmade that closes the storage bin Water inlet and outlet: both located in the rear part of the appliance. The water inlet is 3/4" size, while the water outlet is 24 mm Ø. Both the pipes for the water inlet and outlet are included in the machine, the one for the inlet is about 100 cm long, while the outlet is about 50 cmKind of ice: flakeProduction (Kg/24h): 150 Bin capacity (Kg): 40 Water consumption (liters/Kg): 1 (version A), 6,4 (version W) Refrigerant: R404a CFC-free Voltage (V/ph/Hz): 220-	Not Quoted	Ice Flake Maker• Water inlet and outlet: both located in the rear part of the appliance. The water inlet is 3/4" size, while the water outlet is 24 mm Ø. Both the pipes for the water inlet and outlet are included in the machine, the one for the inlet is about 100 cm long, while the outlet is about 50 cm• Kind of ice: flake• Production (Kg/24h): 150• Bin capacity (Kg):	• SU Enterprizes • Shalimar Scientific Store• Sind medicalStores • New Chemical Store	• RAAB Scientific SolutionsAuthorization letter not attached• Key Scientific CorporationsAuthorization letter is not attached

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

		Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	...s tightly and ...quickly.Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.									230/1/50 Breakers: Nr 1 glass cartridge fuse with a rating of 10A, at protection of the appliance Noise level (dB(A)) : ≤ 50 Dimensions (W x D x H cm): 74 x 69 x 105 Model FIM140 Evermed Made in Italy		40• Refrigerant: R404a CFC-free• Breakers: Nr 1 glass cartridge fuse with a rating of 10A, at protection of the appliance• Noise level (dB(A)) : ≤ 50• Dimensions (WxDxH cm): 74 x 69 x 105Model FIM140 Evermed Made in Italy		
43	Electronic aspirator pipette: Lightweight, Weight: .48lbs/.22k Battery life: 8 hrs. Battery charging time: Autoclavability: Nose piece, pipette holder & filter Pipette types: Glass or plastic, 1 to 100mL Electrical: 120 - 240V. Self standing, 2 membrane filters 0.45 µm. Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from	2	Not Quoted	Not Quoted	Not Quoted	Electronic aspirator pipette: 4430000018 easypet 3, single channel, incl, mains/power supply device wall mounting device, shelf tsnag 2, membrane filters 0.45 µm, 0.1 to 100mL Make: Eppendorf Germany AG	Not Quoted	Electronic Aspirator Pipette controller electrical pipette aid 0.1-100 ml - Eight possible speeds selectable - handy and lightweight for fatigue-free pipetting - LCD display indicating low battery and selected speed - Pipette adapter autoclavable at 121°C - „Gravity drain" - mode opens a valve which affects that the content of the pipette tip can drain out without using any motor in confirmation with the European standards Scope of supply: WITOPED Eco, battery charger, one additional replacement filter	Levo ME pipette filler has an excellent feature and ergonomic design, suitable for almost all commonly used glass or plastic pipettes. Features • Enabling single-handed operation with minimum effort • Appropriate for most of the plastic and glass pipettes from 0.1 ~100ml • Easily adjusted speed control • 0.45µm replaceable Hydrophobic filter • Stable and reliable performance,	Macroman pipetting aid Unique Comfort & Controlled Pipetting with built-in Filter, Stable, safe & easy to pick up, Soft & fatigue free pipetting Optimal comfort, Precise & smooth dosing button control, Safety & easy maintenance Performance For all plastic & glass pipettes from 1 to 100mL Continuously adjustable speed: 25mL in 4sec Environmentally friendly NiMH battery for 8 hours operation Replaceable batteries, Operated on 220Volts Model, Macroman, Gilson France	Not Quoted	Pipetting Aid • Unique Comfort & Controlled Pipetting with built-in Filter • Stable, safe & easy to pick up • Soft & fatigue free pipetting • Optimal comfort • Precise & smooth dosing button control: • Safety & easy maintenance Performance For all plastic & glass pipettes from	• H. A. Shah& Sons •Shalimar Scientific Store •SU Enterprizes	

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

		Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	...ufacturers/fo... ...eign principals must be attached.							preventing liquids from entering the instrument Witeg LMS Germany	elegant appearance • High capacity Li-ion battery enable long runtime of operation Aspirate Speeds 25ml < 7s Dispense Speeds Motor / Gravity Battery Lithium-Ion Battery Service Life More than 8 Hours of Intermittence Use Charging Time 2~3 Hours Pipette Types Glass or Plastic Pipette (0.1~100mL), Pasteur Pipettes Filter 0.45 µm Hydrophobic Model: Levo ME DLAB - USA			1 to 100mL Replaceable batteries, Operated on 220Volts Model, Macroman, Gilson France		
44	MICRO Analytical balance: 60/220gram/0.01 mg/0.1mg Internal Automatic Calibration Pan size: Ø85mm Counting pieces Under-hook weighing RS232 output connection Unit Display : gr, mg, ct 3 Sliding Doors for wind		Not Quoted	Double Display Balance Weighing capacity: 1000 g Minimum weighing: 0.01 g Pan size: 115 mm Operational temperature : 5 °C - 25 °C Calibration system: External	Not Quoted	Not Quoted	Not Quoted	Semi Micro digital balance Capacity 82g/220g Resolution 0.01/0.1mg Calibration Automatic internal Pan size Ø 80 mm Linearity ± 0.1mg / ± 0.2mg Response time (sec.) ≤6 Minimum Load 10 mg Display	MICRO Analytical Balance Capacity (g) 82/220gm Readability (g) 0,00001/0,0001gm Repeatability (STDEV) 0,00002/0,0001gm Linearity + 0,0001gm Stabilization Time (s) 10 second Sensitivity Temperature Drift	• Digital Microprocessor Controlled • Dual-Range semi-micro with Latest UniBlock Technology, • Automatic calibration by pressing keys with internal calibration weight • Easy setting, expanded piece counting function comparator function, formulation modes Technical: Weighting Capacity:	Electronic Analytical Balance Digital Microprocessor Controlled Dual-Range semi-micro with Latest UniBlock Technology, Automatic calibration by pressing keys with internal calibration weight, Easy setting,	Electronic Analytical Balance Digital Microprocessor Controlled Dual-Range semi-micro with Latest UniBlock Technology, UniBlock designs replaces 70 parts of Electromagnetic	•Rays Technologies •Shalimar scientific Stores •S U Enterprizes	•Sindh Medical Stores: weight is not according to our requirements 60/220gram/0.01mg/0.1mg/ provided 0.01 g - 1000g

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

	Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
...ection. ...mensions WxHxD (mm): 210x335x335 Chamber Dimensions WxHxD (mm): 172x230x172 Optional Anti-Vibration Table Printers Density kit for solids and liquids Rack for under-hook weighing. Additional LCD display Computer software Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.			calibration Interface: RS232 Display Dual: LCD (optional) Power: 220 V / 110 V Make: Labotronics Scientific Ltd Canada				LCD Tare Range (Subtractive) 82g/220g Span Drift In +10...+30°c ± 2 ppm/°C Interface RS232 Windshield Type And Dimensions 3 sliding windows / 162x171x225 mm Working Temperature 5 - 35°C (15-30°C for verified models) Power Supply 110-230Vac. 50/60Hz, output 24V 500mA 13VA Power Consumption (Max) 2 Watt Balance Dimensions (W X L X H) 215 x 345 x 345 mm Model HPBG 2285Di Bel Engineering Made in Italy	0.8 PPM/K Units Milligram, Gram, Kilogram, Ounce, Pound, Carat, Pennyweight, Ounce Troy, Grain, Newton, Hong Kong Tael, Singapore Tael, Taiwan Tael, Momme, Tical (MM), Mesghal, Tola (India), 1 Custom unit Units (Approved Models) g, mg, ct Applications Basic Weighing, Parts Counting, Percent Weighing, Animal Weighing, Density Determination Pan Size 80mm dia Power Supply Power Input: 240V ~ 200mA 50 – 60Hz 12 –18VA Power Output: 12 VDC 0,5A Communication RS232 and USB Operating Temperature Range 10 °C to 30 °C Model: PX225D Ohaus – USA	220gm/82gm Minimum display: 0.1mg/0.01mg Pan size (mm): Ø80 approx. Operated on 220V Model AUW-220D Shimadzu, Japan OPTIONAL FOR ABOVE IF REQUIRED i. Local Anti-Vibration Table ii. Printers iii. Density kit iv. LCD display Additional if needed	expanded piece counting function comparator function, formulation modes Technical: Weighting Capacity: 220gm/82gm Minimum display: 0.1mg/0.01mg Pan size (mm): Ø80 approx. Operated on 220Volts. Model AUW-220D Shimadzu, Japan	balances and ensures stable results Technical Specification: Weighting Capacity: 220gm/82gm Minimum display: 0.1mg/0.01mg Pan size (mm): Ø80 approx. Features: - Automatic calibration by pressing keys with internal calibration weight - Easy setting, expanded piece counting function comparator function, formulation modes - Windows direct communication function, send balance data to excel without any data software with optional RS232C interface. Complete		• RAAB Scientific Solutions Authorization letter is not attached • Key Scientific Corporations Authorization letter is not attached

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

		QTY	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
												unit, operated on 220Volts. Model AUW-220D Shimadzu, Japan. OPTIONAL FOR ABOVE a. Anti-Vibration Table Local b. Printers c. Density kit d. Additional LCD display Note:- Computer software no need built-in with balance		
45	Vacuum Pressure Pump: Vacuum Pump PTFE Diaphragm Chemistry Design two stageprovides the advantageous combination of High Pumping Speedand low Ultimate vacuum Suitable for Rotary Evaporators, allpumping parts in contact with pumped media are made of Chemically Resistant Flouro plastics. PTFE Diaphragms	2	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Vacuum PumpPTFE Diaphragm Chemistry Design two stage provides the advantageous combination of High Pumping Speedand low Ultimate vacuum Suitable for Rotary Evaporators, allpumping parts in contact with pumped media are made of Chemically Resistant Flouroplastics . PTFE Diaphragms increaseReliability and Extended Operation Life. MZ1C is Equipped with a Gas ballast Valve for Continuous Condensate Purge with Built in manual	Not Quoted	Vacuum PumpPump PTFE Diaphragm Chemistry Design two stageprovides the advantageous combination of High Pumping Speedand low Ultimate vacuum Suitable for Rotary Evaporators, all pumping parts in contact with pumped media are made of Chemically Resistant Flouro plastics. PTFE Diaphragms increase Reliability and Extended Operation Life. MZ1C is equipped with a Gas ballast Valve for Continuous Condensate Purge with Builtin manual Vacuum Regulator	PTFE Diaphragm Chemistry Design two stageprovides the advantageous combination of High Pumping Speedand low Ultimate vacuum Suitable for Rotary Evaporators, allpumping parts in contact with pumped media are made of Chemically Resistant Flouro plastics. TechnicalNumber of Head /	Vacuum Pump PTFE Diaphragm Chemistry Design two stage TechnicalNumber of Head / Stages 2Maximum Pumping Speed 0.75 m3h/0.9 m3hUltimate Vacuum 12 mbarUltimate Vacuum with Gas Ballast 20 mbarOperated on 220V Model MZ1C Vacuubrand Germany	•RAAB Scientific solutions • Shalimar Scientific Store	•Key Scientific CorporationsAuthorization letter is not attached•Rays TechnologiesAuthorization letter is not attached

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

		R Q TY	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	...rease ...eliability and Extended Operation Life is equipped with a Gas ballast Valve for Continuous Condensate Purge with Builtin manual Vacuum Regulator Valve with Lid Gauge for Adjustment of Pumping Speed Technical Specification Number of Head / Stages 2Maximum Pumping Speed 0.75 m3h/0.9 m3hUltimate Vacuum 12 mbarUltimate Vacuum with Gas Ballast 20 mbar Operated on 220 Volts Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached							Vacuum Regulator Valve with Lid Gauge for Adjustment of Pumping Speed Technical Specification Number of Head / Stages 2Maximum Pumping Speed 0.75 m3h/0.9 m3hUltimate Vacuum 12 mbarUltimate Vacuum with Gas Ballast 20 mbar MZ1 C Vaccu brand Supplier LMS Germany		Valve with Lid Gauge for Adjustment of Pumping Speed Technical Specification Number of Head / Stages 2Maximum Pumping Speed 0.75 m3h/0.9 m3hUltimate Vacuum 12 mbarUltimate Vacuum with Gas Ballast 20 mbar, Operated on 220 Volts Model MZ1C Vacuubrand Made in Germany	Stages 2Maximum Pumping Speed 0.75 m3h/0.9 m3hUltimate Vacuum 12 mbarUltimate Vacuum with Gas Ballast 20 mbarOperated on 220V Model MZ1C Vacuubrand Germany			
46	Professional Analytical Balance: - 1200g/10mg Programmable IR Proximity sensors for Zeroing/Tarring/ Printout Weighing Pan - 195*195 mm		Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Professional Analytical Balance With resolution from 0.001g to 0.1g this serie offers a wide choice of models for many application with the simplicity of a touch screen interface. Capacity 4200g	Analytical Balance Capacity (g) 6200 Readability (g) +0.01 Repeatability std (g) +0.01 Linearity (g) +0.02 Stabilization Time (sec) ≤1	Electronic balance digital top loading with Uni-block technology, Fully automatic calibration with touch key at any time with Readability: 0.01gm, Capacity: 4200gm Built in under weighing hook, piece	Electronic balance digital top loading with Uni-block technology, Fully automatic calibration with touch key at any time with internal weight or by	Electronic balance digital top loading with Uni-block technology, Fully automatic calibration with touch key at any	• Shalimar Scientific Stores • S U Enterprizes •Rays Technologies	• RAAB Scientific Solutions Authorization letter not attached • Key Scientific Corporations

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

	Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
...de Range of Applications - Animal Weighing, Parts Counting, GMP/GLP, Percentage Weighing, Air Density Correction, Density Determination, Statistics, Filling and more Display - Touch Screen Electronic Level Indicator Internal Calibration Metal Anti-Draft Shield Large Database which enables various users and recording Weighments, Products, Tarring and ALIBI Memory Interfaces - 2×USB, 2×RS 232, 1×Ethernet, Wi-Fi 802.11 b/g/n, 4 inputs / 4 outputs (digital) Optional Accessories Thermal Printer Anti Vibration Table Additional display monitor Computer Software Density determination kit Germany or UK or Japan or USA							Resolution 0.01g Calibration Automatic internal Pan sizeØ 160mm Repeatibility 0.01g Response time (sec.) ≤3 Linearity ± 0,04g Display TOUCH-SCREEN 5" Tare Range (Subtractive) 4200 g Interface RS232 Database Capacity 3000 Working Temperature 5 - 35°C Power Supply 110-230Vac. 50/60Hz, output 9V 1,2A 10VA Model M5-L4202i Bel Engineering Italy	Power Requirements AC Adapter Input: 100-240 VAC 0.6A 50-60 Hz Operating Humidity Range 20% to 85% Display Type Full-color VGA graphic display, 4-wire resistive touch screen Display Size 5.7 in / 145 mm (diagonal) Communication RS232, USB Operating Temp Range 50°F (10°C) to 86°F (30°C) Storage Conditions -14°F (-10°C) to 140°F (60°C) at 10% to 90% relative humidity, non-condensing Pan Size 130mm (dia) IR Sensor 04 Nos Software Included Density Determination Kit Included Model: EX6202 Ohaus – USA	counting function built in, RS 232C Data interface, overlaod protection, windows direct function, No software required, stainless steel pan 170x180mm with draft shield, Operated on 220 volts, Model UW-4200H, Shimadzu, Japan	temperature detection and or user preset times. One single block non breakable, this brings various advantages fast Response, high stability, long life operation, Readability: 0.01gm Capacity: 4200gm Built in under weighing hook, piece counting function built in, RS 232C Data interface, overlaod protection, windows direct function, No software required, stainless steel pan 170x180mm with draft shield, Operated on 220 volts, Model UW-4200H, Shimadzu, Japan OPTIONAL FOR ABOVE a. Anti-Vibration Table Local b. Printers	time with Readability: 0.01gm, Capacity: 4200gm Built in under weighing hook, piece counting function built in, RS 232C Data interface, overlaod protection, windows direct function, No software required, stainless steel pan 170x180mm with draft shield, Operated on 220 volts, Model UW-4200H, Shimadzu, Japan		Authorization letter is not attached

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

		Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	equivalent note: Valid authorized certificate from the manufacturers/foreign principals must be attached.										c. Density kit d. Additional LCD display Note:- Computer software no need built-in with balance			
47	lab referigerator: Capacity: approx 260-520 L Temperature Range: 2~8°C Refrigerant: R134a, CFC free Refrigeration System: International famous compressor and Germany EBM fan motor Controller: Microprocessor Control with LCD Display Audible alarm: High/Low temp, door alarm and system failure alarm. Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.	1	Not Quoted	Not Quoted	Lab Refrigerator Model No / Cat # STF-395P capacity: 395 L, Tempearure 2~8°C Refrigerant CFE free Make: Stalwart	Not Quoted	Not Quoted	Lab Refrigerator Total capacity : 519 L (Freezer 204 L, Refrigerator 315 L) Upper Part (refrigerator) : Temperature range : 2 to 8°C Cooling performance : 2°C Shelves : 4 storage rack 1 shelve Interior lighting : LED Internal dimension (W×D×H) : 750×610×740 mm Door lock : yes Cooling : Forced air cooling Lower Part (freezer) : Freezer section : '-10 to '-40°C Cooling performance : '-40°C Drawers : 3 (2 sections on each drawer) Interior lighting : LED Door lock : yes Insulation thickness : 50 mm Cooling : Direct cooling Internal dimension (W×D×H) : 650×560×565 mm Common features :	Controller Smart Display 4.3" + touch screen Network LAN USB YES (saving registration data saving events) Keypad Numeric Main Screen Dashboard (all relevant data visible from one main window) Programs 5 Program name Free number assigned Priority Parameters Segments 6 Data registry max. 10,000 measurement data stored for a maximum of 6 months Events registry Yes Statistics YES - only the current cycle Temperature protection class 2.0 Device name Fixed (serial number)	Cold Cabinet Temperature uniformity, Sample safety and protection, Condensation prevention, Microprocessor controller simplifies operation, Intuitive design, Flexible storage options, Timer-Controlled Off-Cycle Defrosting Technical Data: External dimensions 610 x 716 x 1886(W x D x H)mm Internal dimensions 516 x 550 x 1467(W x D x H) mm Volume 400 Liters Temperature control range +4°C to +14°C Controller Microprocessor with non-volatile memory Temperature display Digital Temperature sensor Thermistor Cooling method Forced cool air circulation Defrost method Timer Cycle defrost Refrigerant HFC	Refrigerators that are designed for general laboratory storage with user-friendly features. The combination of temperature control accuracy, interior temperature uniformity, quick recovery and resistance to high ambient temperature delivers a quality storage refrigerator that characterizes our commitment to engineering, storage safety and reliability Technical Data: External dimensions 610 x 716 x 1886(W x D x H)mm Internal dimensions	Temperature control: 2°-14°C Temperature display Digital (1° C increments) Interior dimensions: 720W x 350D x 1435H mm External Dimensions 800W x 465D x 1800H mm Effective capacity: 340 liters (12.0 cu.ft.) Net Weight 100Kg (220lbs) Internal cabinet: Stainless steel. Insulation polyurethane foam Doors: Sliding glass doors, double-paned glass With heat-	•Shalimar Scientific Store •SU Enterprizes •Key Scientific Corporation •New Chemical Centre	•Rays Technologies Authorization letter is not attached •RAAB Scientific Solutions: Authorization letter is not attached

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
						Ambient temperature : 16 to 32°C Rollers for portability : 4 wheels Inner material : Stainless steel External material : Steel with powder coating Compressor : 2 Door with heater : Yes, hot gas surrounding External lock : optional Display : digital Access test port : 2 Insulation thickness : 100 mm Packaging dimension : 990×855×2062 mm Power Supply : 110V/220V, 60Hz /50Hz Model LRFC-A15 Labtron UK	Alarm Bar Yes Quick change Yes Type: Digital microprocessor controlled Housing Stainless steel Interior stainless steel 0H17 (DIN 1.4016) interior Door: solid door with internal glass door or Glass Door Refrigeration type Forced air circulation. Capacity: 300 liters Temperature range: 0°C to +15°C Temperature resolution: 0.1°C temperature protection class: 1.0 Shelves: 2 stainless steel wire shelves, adjustable slides, max unit workload 20kg Access port φ = 30 mm Memory: Test results memory Port: USB Lock: Door lock Alarm: Open door alarm Light: Internal LED light Model: CHL 5 CS Smart	(CFC-Free) Insulation Rigid polyurethane foamed insulation (CFC-free) Exterior material Painted steel Interior material Vacuum molding (ABS resin) Outer doors 1 (Plastic sash with 2-layer glass window) Outer door lock Y (Cylinder key lock) Shelves 5 (polyethylene-coated wire Casters 4 (2 levelling foot) Alarms High temperature & Low temperature Operated on 220Volts Model LPR-400-PE PHCBi (New Name of Panasonic) Japan	516 x 550 x 1467(W x D x H) mm Volume 400 Liters Temperature control range +4°C to +14°C Controller Microprocessor with non-volatile memory Temperature display Digital Temperature sensor Thermistor Cooling method Forced cool air circulation Defrost method Timer Cycle defrost Refrigerant HFC (CFC-Free) Insulation Rigid polyurethane foamed insulation (CFC-free) Exterior material Painted steel Interior material Vacuum molding (ABS resin) Outer doors 1 (Plastic sash with 2-layer glass window) Outer door lock Y (Cylinder key	reflective film Shelves: Hard Steel Wire Lighting / Casters: LED/2 casters Compressor Hermetic type, 160 W Refrigerant HFC Defrosting cyclical defrosting & evaporator temp. detection system Defrosting heaters 101 W Door ajar alarm: Buzzer/door ajar lamp Complete as above MPR-S313 Panasonic / PHCbi (New Name of Panasonic) Made in Japan		

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

		R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
									Poleko – Poland (Europe)		lock) Shelves 5 (polyethylene-coated wire Casters 4 (2 levelling foot) Alarms High temperature & Low temperature Operated on 220Volts Model LPR-400-PE PHCBi (New Name of Panasonic) Japan			
48	Ice Buckets: multi-purpose containers are highly insulative, stackable, unbreakable, lightweight and leak-proof. Containers will not "sweat" or deform and have a textured finish on the bottom to prevent slipping on the benchtop. Ideal for use with ice, dry ice (-78°C), liquid nitrogen (-196°C), alcohol or saline solutions, or warm solutions (+93°C). Available in five sizes and seven vibrant colors. It can be cleaned with soap and water, 10% bleach or 70% alcohol.	20	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	ICE BUCKETSice pans and buckets are multi-purpose pans and buckets that are a great non-toxic alternative to conventional ice pans. EVA has little or no odor, is inert and used in biomedical engineering applications such as drug delivery devices. The multi-purpose containers are highly insulative, stackable, unbreakable, lightweight and leak-proof. Containers will not "sweat" or deform and have a textured finish on the bottom to prevent slipping on the benchtop. Ideal for use with ice, dry ice (-78°C), liquid nitrogen (-196°C), alcohol or saline solutions, or warm solutions (+93°C).	Not Quoted	Not Quoted	Not Quoted	Not Quoted	•Shalimar Scientific stores	

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

		Qty	Technologies	Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.							Available in five sizes and seven vibrant colors. It can be cleaned with soap and water, 10% bleach or 70% alcohol sixe 250x230 Cat # FBT-RD01 Crystal Germany						
49	Laminar Flow Cabinet Horizontal : Space-saving desk-top type with compact design Open type large air exhaust area for airflow uniformity SUS304 working area Adjustable fan unit & one-button velocity selection High efficiency & low power consumption(Country of Origin: China) Manufactured by Suzhou Antai Airtech ChinaTechnical Specifications: Exterior Dimensions 1220*650*920 (W x D x H(mm)Work Zone Dimensions 1120*490*575 (W x D x H(mm)Work Zone Height 40(cm)Controller	1	Not Quoted	Not Quoted	Laminar Flow Cabinet Horizontal Model No / Cat # L-H-13 external size: 1300*820*2040mm, internal size: 1200*500*570 mm work surface height: 750 mm Make: Medfuture, USA	Not Quoted	Not Quoted	Horizontal Laminar Flow Cabinet External dimension : 1300 × 820 × 2040 mm Internal dimension : 1200 × 500 × 570 mm Work surface height : 750 mm Display : LCD Airflow velocity : Average of 0.3 to 0.5 m/s Material main body : Cold rolled steel with anti- bacteria power coating Material work table : 304 stainless steel Side and Front windows : 5 mm touchened glass, anti UV Pre- filter : Polyester fiber, washable HEPA Filter : 99.999% efficiency at 0.3 µm Noise : < 65 dB Front window : Motorized Max opening : 430 mm Illuminating lamp : LED lamp 12 W × 1 UV Lamp : 30 W × 1 Emission of 253.7 nanometer Caster : Universal	Internal Dimension (WxDxH) in mm:940 x 580 x 540 Display: LED digital display Pre-filter: Disposable, non washable polyester filter Filter efficiency: > 99.999% at 0.3um Airflow velocity: average of 0.3 to 0.5m/s Noise level: <60dBA Fluorescent lamp: 21W UV Lamp: 20W Power consumption: 340W Front sash: Tempered glass, no less than 5mm, anti-ultraviolet radiation Main Body Material: Adopting cold roll steel plate with corrosion proof coating Base stand height: 650mm	Horizontal Laminar Flow Cabinet Space-saving desk-top type with compact design, Open type large air exhaust area for airflow uniformity, Adjustable fan unit & one-button velocity selection, High efficiency & low power consumption Technical Data: Exterior Dimensions 1220*650*920 (W x D x H (mm) Work Zone Dimensions 1120*490*575 (W x D x H (mm) Work Zone Height 40 (cm) Blower AT Blower Noise dB (A) <65 HEPA Filter H13,≥99.99% (@≥0.3µm) (Country of Origin: China) Operated on 220 Volts Model HD-1220-U, Airtech, Japan	Space-saving desk-top type with compact design Open type large air exhaust area for airflow uniformity SUS304 working area Adjustable fan unit & one-button velocity selection High efficiency & low power consumption (Country of Origin: China) Technical Specifications: Exterior Dimensions 1220*650*920 (W x D x H (mm) Work Zone Dimensions 1120*490*575 (W x D x H (mm) Work Zone Height 40 (cm) Controller Switch Blower AT	• Space-saving desk-top type with compact design • Open type large air exhaust area for airflow uniformity • Adjustable fan unit & one-button velocity selection • High efficiency & low power consumption Technical Data: Exterior Dimensions 1220*650*920 (W x D x H (mm) Work Zone Dimensions 1120*490*575 (W x D x H (mm) Work Zone Height 40 (cm) Blower AT Blower	• Rays Technologies • Shalimar Scientific Store •SU Enterprizes	•New Chemical Centre Athorization letter is not valid •RAAB Scientific SolutionsAuthorization letter not attached •Key Scientific Corporations Authorization letter is not attached

Chairperson Technical Committee — Member — Member — Member — Member — Member

		Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	...ochBlower AT BlowerMain Power Switch YesFoot-pad YesNoisedB(A) <65 HEPA Filter H13,≥99.99% (@≥0.3µm)Operated on 220 Volts Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.							caster with levelling feet Waterproof socket : Two, total load ? 500 W Packing dimension : 1450 × 1060 × 1650 mm Power consumption : 400 W Power supply : AC 220V ±10%, 50/60 Hz, 110V±10%, 60Hz Gross weight : 254 kg Model LHAC-A10 Labtron UK	Power: 220V, 50Hz Model: RTL1210 Robus Technology Ltd		Blower Main Power Switch Yes Foot-pad Yes Noise dB(A) <65 HEPA Filter H13,≥99.99% (@≥0.3µm) Manufactured by Suzhou Antai Airtech in China in Collaboration with Airtech Japan Operated on 220 Volts Model HD-1220-U	Noise dB (A) <65 HEPA Filter H13,≥99.99% (@≥0.3µm) Country of Origin: China Operated on 220 Volts Model HD-1220-U, Airtech, Japan		
50	SpectraMax Plus 384 Microplate Reader: A microplate spectrophotometer with a built-in cuvette port. Wavelength range 190–1000 nm Wavelength selection Monochromator, tunable in 1.0 nm increments Wavelength bandwidth 2 nm Wavelength accuracy ±1.0 nm Wavelength repeatability ±0.2 nm Photometric range 0–4.000 OD Photometric	1	Not Quoted	Not Quoted	Not Quoted	A51119600C Multiskan SkyHigh Microplate Spectrophotometer Description Multiskan SkyHigh with touchscreen Light Source Xenon flash lamp Product Line Multiskan™ Reading Options 6–48, 96 and 384 well plates, Thermo Scientific µDrop Plates Read-out Range 6–48, 96 and 384 well plates, Thermo Scientific µDrop Plates Software Type SkanIt Software; Open License Software; Multi-Instrument Software	Not Quoted	Not Quoted	· Monochromator-based optical system for free selection of wavelengths from 200nm to 1000nm. · No filter is needed for these readings. · INNO is able to read microplate with 6 ~ 384 wells · INNO can perform endpoint, Kinetics reading, and spectral scanning· Both photometric acuity and linearity of INNO-M, it should be 0-2,000 OD +/- 1%. · INNO is able to be used in all studies such as	Nano Drop Spectrophotometer BioDrop Duo+ Technical Data Display 7" Touch screen display Configuration Split Beam Lamp Pulsed Xenon lamp with 3 year warranty Languages English, French, German, Spanish, Italian, Japanese, Chinese Sample Volume Minimum 0.5 µL Sample ports Standard cuvette port + Microvolume port Pathlength 10mm + 0.5mm Applications Single Wavelength, Concentration, Wavescan, Kinetics,	Features -Precise wavelength control in increments of 1 nm -Precise readings from 6 to 384-well microplate -Minimum maintenance utilizing semi-permanent Xenon lamp -Convenient operation with either PC or tablet software Technical Data Detection Mode Absorbance Reading Methods End-Point, Kinetic,	Detection Mode Absorbance Microplate Types 6 to 384 well Microplate Reader Specification Light Source Xenon Flash Lamp Detector Photodiode Wavelength Selection Monochromator Wavelength Range 185-1,000 nm (1nm increments) Monochromator Bandwidth	• H.A. Shah & Sons	•RAAB Scientific Solutions Authorization letter not attached •Key Scientific Corporations Authorization letter is not attached •Rays Technologies Authorization letter is not attached •SU Enterprizes Microplate well

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

001 to 4,800,000

	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
...olution 0.001 OD Photometric accuracy (microplate) < ±0.006 OD ±1.0%, 0–2 OD Photometric accuracy (cuvette) < ±0.005 OD ±1.0%, 0–2 OD Photometric precision < ±0.003 OD ±1.0%, 0–2 OD Baseline flatness < 0.001 OD Stray light < 0.05% @ 230 nm Light source Xenon flash lamp Microplate read time (normal mode) 96 wells in 9 seconds 384 wells in 29 seconds Microplate read time (speed read mode) 96 wells in 5 seconds 384 wells in 16 seconds.Temperature regulation Temp. range Ambient +4°C to 45°C Temp. uniformity (microplate) ±0.5°C at 37°C General specifications Dimensions (in.) 8.6 (H) x 22.8 (W)					Plate Type 6-48, 96 and 384 well plates, Thermo Scientific µDrop Plates Cuvettes No Wavelength Selection Monochromator Wavelength Range 200-1000 nm Bandwidth < 2.5 nm Photometric Linearity 0–2.5 Abs, 2% @ 450 nm Resolution 1 nm Accuracy (Photometric) 1.0% + 0.003 Abs (0–2.0 Abs), 2.0% (2.0–2.5 Abs) @ 450 nm Incubator Temperature Ambient + 2°C to 45°C Shaking Linear shaking Measurement Speed 96-well microplate: 6 seconds (fast mode)384-well microplate: 10 seconds (fast mode) Spectral Scanning Speed 10 s from 200 to 1000 nm Interface Touchscreen display and SkanIt PC software Software Language Versions English, German, French, Spanish, Italian, Portuguese, Russian, Chinese, Japanese Depth (Metric) 44.5 cm Depth (English) 17.5 in. Width (Metric) 29.5 cm			routine biology tests, protein analysis, nucleic acidity. · Nano-V can analyze DNA/RNA quantities. (Micro volume plate / 24well supported) · Plate capable of quantitative analysis with 2ul. · The light source of INNO is the Xenon lamp. · The software to be supplied with INNO-M; Abs, UV-Abs, and modes, Endpoint, Kinetic and Spectral scanning. · INNO-M is able to report result graphics in excel file format. · INNO-M software supports Linear, Quadratic regression, Cubic regression, Log regression, Exponential regression, Linear logarithmic regression, point-to-point, and 4PL regression graphic options. Wavelength Accuracy ±2 nm Electrical Requirements ±2 nm Micro plate type 6 ~ 384 well plate	Standard Curve, Substrate, Equation Editor Life Science Applications DNA, RNA, Oligo, Fluorescent Dye, Tm Calculation, Protein Dye, Protein UV and Colorimetric protein methods Measurement Time <4 seconds Wavelength Range 190 - 1100 nm Wavelength Accuracy ±2 nm Wavelength Reproducability ±1 nm Spectral Bandwidth 5 nm Stray Light <0.5 %T @ 220 nm NaI, <0.5%T @ 340 nm NaNO2 Photometric Accuracy ±0.01A + 1.5% of the reading @ 546 nm Photometric Reproducability ±0.003A (0 to 0.5A), ±0.007A(0.5 to 1.0A) Noise 0.005A peak to peak, 0.002A RMS Power Input 120 to 240V~ 50/60Hz, 40VA Max Dimensions Height 190 mm x Width 280 mm x Depth 410 mm (521 mm with printer) Weight Approx. 3.55 kg (4 kg with printer), Complete unit with 10 mm cuvette holder and 0.5 mm micro-volume port Model BioDrop Duo+,	Spectral Scanning, Well-Area Scanning Microplate Types 6 to 384 well Microplate Power 100- 240 V AC, 50/;60Hz Dimensions/Weight 396 x 364 x 207 mm/ 9.0 kg Reader Specification Light Source Xenon Flash Lamp Detector Photodiode Wavelength Selection Monochromator Wavelength Range 185-1,000 nm (lnm increments) Monochromator Bandwidth 5nm Dynamic Range 0-4.00D Resolution 0.00010D Wavelength Accuracy ± 1.0 nm Wavelength Repeatability ±0.1 nm Pathlength Correction Available OD Accuracy ± 1% at 2.0 OD, 3% at 3.0 OD Operated on 220Volts	5nm Dynamic Range 0-4.00D Resolution 0.00010D Wavelength Accuracy ± 1.0 nm Wavelength Repeatability ±0.1 nm OD Accuracy ± 1% at 2.0 OD, 3% at 3.0 OD Operated on 220Volts, Model MOBI MicroDigital Korea		options are not mentiond required 96 and 384 well/provided not mentioned. Microplate read times not mentioned required 96 wells in 9 seconds 384 wells in 29 seconds/provided Nill

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

		Qty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	15 (D) Dimensions (cm) 22 (H) x 58 (W) x 38 (D) Weight 30 lbs. (13.6 kg) Power consumption < 250 watts Power source 100–240 Vac, 4 A 50/60 Hz Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.					Width (English) 11.6 in Height (Metric) 26.5 cm Height (English) 10.4 in. Weight (Metric) 10.8 kg Weight (English) 23.8 lbs Unit Size Each Make: Thermo Fisher Scientific			Detector Photodiode Light source Xenon flash Wavelength Range 200 to 999 nm Wavelength selection Monochromatic Application Wavelength scanning, end point, Kinetic, Area scan Dynamic range 0 ~ 4.0 OD OD accuracy 0 ~ 2 OD ±1% OD linearity 0 ~ 2 OD ±1% OD repeatability 0 ~ 2 OD ±1% Shaking Two step speed DNA/RNA Micro Volume plate (NANO-V) 24well / 2ul Sample (Option) Software INNO X (Windows Software) Supported software regression Linear, Quadratic, Cubic, Log, Exponential, Linear logarithmic, point-to-point, 4PL Model: Inno LTEK – Korea	Biochrom, Made in USA	Model MOBI MicroDigital Made in Korea			
51	CO2 Regulator Two Stage: Two stage	2	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	CO2 Regulator Two Stage Two stage regulator is designed	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Shalimar Scientific Store	

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

		R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	15 (D) Dimensions (cm) 22 (H) x 58 (W) x 38 (D) Weight 30 lbs. (13.6 kg) Power consumption < 250 watts Power source 100–240 Vac, 4 A 50/60 Hz Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.					Width (English) 11.6 in Height (Metric) 26.5 cm Height (English) 10.4 in. Weight (Metric) 10.8 kg Weight (English) 23.8 lbs Unit Size Each Make: Thermo Fisher Scientific			Detector Photodiode Light source Xenon flash Wavelength Range 200 to 999 nm Wavelength selection Monochromatic Application Wavelength scanning, end point, Kinetic, Area scan Dynamic range 0 ~ 4.0 OD OD accuracy 0 ~ 2 OD ±1% OD linearity 0 ~ 2 OD ±1% OD repeatability 0 ~ 2 OD ±1% Shaking Two step speed DNA/RNA Micro Volume plate (NANO-V) 24well / 2ul Sample (Option) Software INNO X (Windows Software) Supported software regression Linear, Quadratic, Cubic, Log, Exponential, Linear logarithmic, point-to-point, 4PL Model: Inno LTEK – Korea	Biochrom, Made in USA	Model MOBI MicroDigital Made in Korea			
51	CO2 Regulator Two Stage: Two stage	2	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	CO2 Regulator Two Stage Two stage regulator is designed	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Shalimar Scientific Store	

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

		R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	...ulator is designed for CO2 gas delivering precise and stable pressure control.Germany or UK or Japan or USA or equivalent							for CO2 gas delivering precise andstable pressure control England.						
52	96-Microplate visible smart Absorbance Reader: Control and Display: touch screen (800 x 480 pixels)Light Source Quartz-halogen lamp 6V/10WWavelength Range 340-750nm Half-Bandwidth of filter 3~9nmReadout Range 0~4.000 AbsLinearity (405nm) 0~2.000 Abs <+1%0~4.000 Abs <+2%Precision CV</= 0.2% (0-3) AbsCV</= 01.0% (3-4) AbsTest Speed <6 sec. for 96 well platewith Shaking. User Interface Integrated software, touch screen controlPorts USB ports for PC, printer, mouse and flash driveDimensions 295 x 440 x 225 mm (11.6 x 17 x	1	Not Quoted	Not Quoted	96-Microplate Smart Absorbance Reader Model No / Cat # 11590685 Wavelength Range 340-850nm, fast reading of both 96 and 384 well plates, shaking and incubation up to 50 C. Make: Fisher Brand USA	A51119600C Multiskan SkyHigh Microplate Spectrophotometer Description Multiskan SkyHigh with touchscreen Light Source Xenon flash lamp Product Line Multiskan™ Reading Options 6-48, 96 and 384 well plates, Thermo Scientific µDrop Plates Read-out Range 6-48, 96 and 384 well plates, Thermo Scientific µDrop Plates Software Type SkanIt Software; Open License Software; Multi-Instrument Software Plate Type 6-48, 96 and 384 well plates, Thermo Scientific µDrop Plates Cuvettes No Wavelength Selection Monochromator Wavelength Range 200-1000 nm Bandwidth < 2.5 nm Photometric Linearity 0–2.5 Abs, 2% @ 450 nm	Not Quoted	Microplate Reader Light Source : controller tungsten halogen lamp Wavelength Range : 400 nm to 800 nm Standard Filters : 405, 450, 492, 630 nm and 4 optional Reading range : 0.000 to 4.000 Abs Resolution : 0.001 OD Accuracy : ± 1.0 % at 1.0 OD, 450 nm Reproducibility : 0.2% Stability : ±0.003 Abs Reading Speed : Single wavelength- 3 s Double wavelength- 6 s Display : Approx. 6 inch LCD display Shaking : Linear shaking, 3 speeds Printer : Built-in thermal printer, external printer is optional Interface connections : 2xUSB, 1XRS-232, PS2 mouse keyboard Power supply : 100 to 240 V, 50/60 Hz Weight : 10 kg Model LMPR-A12 Labtron UK	• Intuitive, 7 inch color touch screen control panel • Filter based system with wavelength range from 340 to 750nm • Operates as a standalone system, or connects to a PC or printer • Absorbance range: 0.0 to 4.0000 Abs • 8 channel vertical optical path, with zero dispersion • Integrated, multispeed plate shaker Technical Specifications Control and Display: 7 inch touch screen (800 x 480 pixels} Light source Quartz-halogen lamp 6V/1OW Wavelength range 340-750nm (405,450, 492 and 630nm filters included) Half-Bandwidth of	Microplate Readers Features EZ Read 400 ELISA Measures flat, round and v-bottomed 96-well micro plates and strip wells with standard ANSI SBS footprints are measured , Accurate measurements ensured by automatic lamp calibration prior to each reading , USB 2.0 PC connection Technical Specification Lamp Source Tungsten Halogen Measurement Range 0-3.3 OD Reproducibility/Precision 0.25% at 1.0 OD at 450 nm Accuracy 0.5% at 1.0 OD at 450 nm Standard Filters 405, 450, 492, 620 nm Wavelength Selection Filters Wavelength Range 400-750nm Plate Types flat, round and v-bottomed 96-well plates Data Output Export to PC Detection System Single channel silicon	• Measures flat, round and v-bottomed 96-well micro plates and strip wells with standard ANSI SBS footprints are measured • Accurate measurements ensured by automatic lamp calibration prior to each reading • USB 2.0 PC connection Technical Specification Lamp Source Tungsten Halogen Measurement Range 0-3.3 OD Reproducibility/ Precision 0.25% at 1.0 OD at 450 nm Accuracy 0.5% at 1.0 OD at 450 nm Standard Filters 405, 450, 492, 620 nm Wavelength Selection Filters	Micro Plate Reader Lamp Source Tungsten Halogen Measurement Range 0-3.3 OD Reproducibility/Precision 0.25% at 1.0 OD at 450 nm Accuracy 0.5% at 1.0 OD at 450 nm Standard Filters 405, 450, 492, 620 nm Wavelength Selection Filters Wavelength Range 400-750nm Detection System Single channel silicon photodiode Linearity 0.25% and 0.0025 OD from 0.1 -2.5 OD at 492 nm Computer Interface USB 2.0	•H A Shah and Sons •New Chemical Centre •S.U Enterprises	•RAAB Scientific Solutions Athorization letter is not attached •Key Scientific Corporations Authorization letter is not attached •Rays Technologies Authorization letter is not attached •Shalimar Scientific Store: Wavelength range not according to requirement, required 340-750nm /provided 400 nm to 800 nm control and display is not according

Chairperson Technical Committee | Member | Member | Member | Member | Member

Scanned with CamScanner

		R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	...ers) ...Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.					Resolution 1 nm Accuracy (Photometric) 1.0% + 0.003 Abs (0–2.0 Abs), 2.0% (2.0–2.5 Abs) @ 450 nm Incubator Temperature Ambient + 2°C to 45°C Shaking Linear shaking Measurement Speed 96-well microplate: 6 seconds (fast mode)384-well microplate: 10 seconds (fast mode) Spectral Scanning Speed 10 s from 200 to 1000 nm Interface Touchscreen display and SkanIt PC software Software Language Versions English, German, French, Spanish, Italian, Portuguese, Russian, Chinese, Japanese Depth (Metric) 44.5 cm Depth (English) 17.5 in. Width (Metric) 29.5 cm Width (English) 11.6 in Height (Metric) 26.5 cm Height (English) 10.4 in. Weight (Metric) 10.8 kg Weight (English) 23.8 lbs Unit Size Each Make: Thermo Fisher Scientific			filters 3-9nm Read-out range D-4.000Abs Linearity (405nm) 0-2.000Abs <+1%, 2-4.000Abs <+2% Resolution 0.001Abs Accuracy (405nm) +1% (0-3.Abs)/+2% (3-4Abs) Precision (405nm) CV 0.2% (0-3) Abs/ CV 1.0% @-4 Abs Test speed <6 sec. for 96 well plate Temperature Control Ambient +5°C ro50°C/Accuracy ±0.5°C@ 37°C/ Uniformity ± 0.5°C @ 37°C Shaking 3 modes: slow, medium and fast User interface integrated software, touch screen control Storage 200 programs and 100,000 test records Ports USB ports, for PC, printer, mouse and flash drive Model: MARTREADER 96 Cat # MR9600-T-E Accuris Instruments – USA	photodiode Reading Speed 25 seconds Linearity 0.25% and 0.0025 OD from 0.1 - 2.5 OD at 492 nm Computer Interface USB 2.0 Optical System Filters Mode of Operation PC Control Analysis Software Galapagos Software only Operated on 220 Volts Model EZ Read 400 Biochrom Made in England	Wavelength Range 400-750nm Detection System Single channel silicon photodiode Linearity 0.25% and 0.0025 OD from 0.1 -2.5 OD at 492 nm Computer Interface USB 2.0 Optical System Filters Mode of Operation PC Control Analysis Software Galapagos Software only Operated on 220 Volts Model EZ Read 400 Biochrom England	Optical System Filters Mode of Operation PC Control Analysis Software Galapagos Software only Operated on 220 Volts Model EZ Read 400 Biochrom England		to our requirment required touch screen/not provided

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

		R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	UV Transilluminator Transilluminator allows selection of 8 watt long wave, midrange or shortwave in one compact unit. View gels using long wave UV for extended periods of time reducing photo nicking damage, Switch to midrange to increase the fluorescence for photo documentation, Use shortwave to irradiate samples, Compact size, High Performance, Stainless steel filter assembly, Single Intensity 254/302/365nm UV, Filter Size 20 x 20cm. Germany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.	1	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	UV Transilluminator Filter size 20 x 24 cm long life filter BioGlow® UV Transilluminator provide exceptional performance in a compact size. They are easy to maneuver, save valuable benchtop space, and have an optimized anti-glare filtered glass area with uniform illumination. Each unit is uniquely designed with a two-position intensity control device offering you both HIGH (100%) intensity and LOW (50%) intensity mode settings. This is specifically designed to meet the needs of researchers who work with both DNA and RNA. Each CTI BioGlow® UV Transilluminator comes with a UV protection cover. wavelength 365 nm operated on 220 Volts Model ZT-30A, Crystal Germany	One unit can switch one wavelength. (ON / OFF switch) The filter area is wide, and clear observation with high contrast is possible. With protective cover Filter size 200 x 200 mm Outside dimensions 330 x 270 x 130 mm Number of discharge tubes 8W x 11 Peak wavelength 312/365 nm Model: UVT-2020 Optima - Japan	UV Transilluminator UV Transilluminator Filter size 20 x 20 cm long life filter Wavelength 312 nm with intensities dual, high and low cover frame material stainless steel with UV Blocking cover Operated on 220 Volts (Country of Origin: Taiwan) Model MD-20, Wealtec, USA	Features • Low cost excitation source for gel documentation • High / Low intensity selectable switch • UV radiation blocking cover • Long life time UV tubes Technical Data: Filter size (mm) 200 x 200 Filter type Low background filter Wavelength (nm) 365 Light source 8 Watt x 6 tubes Switch High / Low intensity switchable Cover frame material 316 Stainless steel Protection cover Yes (UV Blocking cover) Operated on 220 Volts (Country of Origin: Taiwan) Model MD-20, Wealtec, USA	UV Transilluminator Filter size 20 x 20 cm long life filter Wavelength 312 nm with intensities dual, high and low cover frame material stainless steel with UV Blocking cover Operated on 220 Volts (Country of Origin: Taiwan) Model MD-20, Wealtec, USA.	Nill	•S.U Enterprises Athorization letter is not attached •RAAB Scientific Solutions Athorization letter is not attached •Key Scientific Corporations Authorization letter is not attached •Shalimar Scientific Store:Wave lenght ranges long, midm short required/ one wavlenght is provided •Rays Technologies: Wavelength ranges long, midm short required/ one wavlenght is provided
54	Vortex MixerAdapters available for tubes etc. Continuous or	6	Not Quoted	Vortexer Rotating speed: 2,800 rpmMixing Method::	Vortex MixerModel No / Cat # BT928 Standard Head suitable for	88882010Digital Vortex MixersCertifications/Compliance cCSAus, CE, Certificate of	Not Quoted	Vortex Mixer mixing solutions in test tubes or small flasks with circular, oscillating movementspeed 0 -	Quiet and compact stable designAdapters available for tubes etc. (sold	Vortex MixerVibrating motion continuously Analog dial speed controlElectronic speed regulation: up	Vibrating motion continuously Analog dial speed	Vibrating motion continuously Analog dial speed	•SU Enterprizes•Rays Technologies•Shal	•RAAB Scientific StoreAuthorization letter is not

Chairperson Technical Committee Member Member Member Member Member

Scanned with CamScanner

em	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
ouch operation, Electronic speed control for constant speed even during changes in load, Steel base, silicone feet for ultra stability and vibration damping, Speed range 0-2500rpm, Shaking movement Orbital, 4mm diaGermany or UK or Japan or USA or equivalent Note: Valid authorized certificate from the manufacturers/foreign principals must be attached.			Circular Shaking (Vortexing)Shaking Orbit: 4.5 mmLoading Capacity: (1 tube) 50 mLMotor Input / Output Power: 1.2 W / 0.8 WDimensions: Φ110 × 80 mmMake: Labotronics Scientific Ltd Canada	tube and container (Included Convex Pad (Included), Speed range 0-2500rpm, Shaking movement Orbital, 4mm dia, power: 60WMake: BT Lab	Analysis (COA), Certificate of Analysis (COA)Dimensions (L x W x H) Exterior 8.1 in. x 5.9 in. x 5.2 in., 20.5 cm x 15.1 cm x 13.1 cmModel Digital Vortex MixerWarranty 2 YearsSpeed 200-3000 rpmHeight (English) Exterior 5.2 in.Length (English) Exterior 8.1 in.Width (English) Exterior 5.9 in.Height (Metric) Exterior 13.1 cmLength (Metric) Exterior 20.5 cmWidth (Metric) Exterior 15.1 cmLoad Bearing Capacity 0.5kgShipping Weight (English) 6.6 kg / 14.6 lbsShipping Weight (Metric) 6.6 kg / 14.6 lbsVoltage 230VPlatform Material Rubber, plasticHertz 50/60HzItem Description Digital Vortex Mixer, 230V EU/UK/CHN PlugOperating Modes Touch, ContinuousPlug Type 230V EU/UK/CHN PlugFor Use With (Equipment) Rocker, Rotator, mixerElectrical Requirements AC 100VFor Use With Rocker, Rotator, mixerDimensions (L x W) 390 x 370 x 340 mm / 15.4 x 14.6 x 13.4 in.Unit Size Pack		3,300 rpm orbital motion inclusive platform head Ø76 mm and pop-off cup head 3-position power switch for continuous run or „touch-on" step less adjustable speed by turning the dial-knob tough metal housing and reliable suction cups ensure stable motion, low noise and safe working Model VM-10 Witeg LMS Germany	separately)Continuous or touch operationElectronic speed control for constant speed even during changes in loadSteel base, silicone feet for ultra stability and vibration dampingSpeed range: 0-2500rpmShaking movement: Orbital, 4mm diaMotor type: Eccentric, oil less bearingsPower: 60WMotor rating output: 10WModel: MX-SDLAB - USA	to 3000 rpm Vibration orbit 4.5 mm, switchOperating modes: touch, continuousOperated on 220 Volts, Model ZX3, Velp Made in Italy	controlElectronic speed regulation: up to 3000 rpm Vibration orbit 4.5 mm, switchOperating modes: touch, continuousOperated on 220 Volts, Model ZX3, Velp Made in Italy	controlElectronic speed regulation: up to 3000 rpm Vibration orbit 4.5 mm, switchOperating modes: touch, continuousOperated on 220 Volts, Model ZX3, Velp Made in Italy	imar Scientific Stores•Sind medical stores•H A Shah and Sons •New Chemical Centre	attached•Key Scientific CorporationsAuthorization letter is not attached

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

		RQty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shallmar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
						of 1 88880118Accessories for the LP Vortex MixerDescription Rubber PlatformFor Use With Vortex MixerType Rubber PlatformFor Use With (Equipment) Vortex MixerUnit Size EachMake: Thermo Fisher Scientific								
55	TGA: Balance: Type Horizontal Differential Type Temperature: Range Ambient to 1,100°C Ambient to 1,000°C Ambient to 1,500°C TG Baseline drift 1): <10 ug TG Baseline Stability 2): <10 ug DSC Function: Standardly equipped Specific Heat Capacity Measurement: Available Temperature Precision: +/- 0.07°C Temperature Accuracy: +/- 0.2°C Gas Control: Integrated Mass Flow controllerBalance : Type Horizontal Differential Type Temperature: Range Ambient to 1,100°C Ambient to	1	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Discovery SDT 650 - Simultaneous DSC-TGA From the world's leader in Thermal Analysis, the new Discovery SDT 650 provides a true simultaneous measurement of heat flow (DSC) and weight change (TGA) on the same sample from ambient to 1500°C Alumina Sample Cups, Disposable, 90 µL (pkg. of 20): Disposable SDT and HP-TGA alumina sample cups. Branded Desktop Computer Core i5, HP Laser jet Printer (M402N or equivalent), 22" LED (Brand New) Utility Gas Cylinder with Regulator Make: TA instuments	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	•Kamstech international	

Chairperson Technical Committee

Member

Member

Member

Member

Member

Scanned with CamScanner

.em		R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
	,000°C Ambient to 1,500°C TG Baseline drift 1): <10 ug TG Baseline Stability 2): <10 ug DSC Function: Standardly equipped Specific Heat Capacity Measurement: Available Temperature Precision: +/- 0.07°C Temperature Accuracy: +/- 0.2°C Gas Control: Integrated Mass Flow controller. Germany or UK or Japan or USA or equivalent Note:Valid authorized certificate from the manufacturers/foreign principals must be attached.													
56	Bomb Calorimeter: Working temperature:15-70°C Storage temperature:0-70°C Temperature Resolution:0.000001°C Reproducibility/Repeatability: <0.01% RSD Resolution: 0.0001 MJ/Kg Results per hour:	1	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Oxygen Bomb Calorimeter Temperature measurement range: 10-35C Temperature resolution: 0.001 oC Repeatability error: ≤0.2% Endured pressure in oxygen bomb: 20MPa Operation environment temperature: 15~28 C Temperature fluctuation: Not more	Not Quoted	Bomb Calorimeter Working Temperature 15-70°C. Storage Temperature: 0-70°C Temperature Resolution: 0.000001°C Reproducibility/Repeatability: <0.01% RSD Resolution: 0.0001 MJ/Kg Results per hour: Up to 8-9 samples per hour using 3 bayonet bomb	Working (Operating) Temperature 15-70°C Storage Temperature: 0-70°C Temperature Resolution 0.000001°C Reproducibility/ Repeatability <0.01% RSD Resolution 0.0001 MJ/Kg Results per	Working Temperature: 15-70°C Storage Temperature: 0-70°C Temperature Resolution: 0.000001°C Reproducibility/Repeatability: <0.01% RSD Resolution: 0.0001 MJ/Kg Results per	• Rays Technologies	• Shalimar Scientific Stores Max. Temperature range is not according to our specifications required5-70°C/ provided 10-35C • RAAB

Chairperson Technical Committee — Member — Member — Member — Member — Member

Scanned with CamScanner

of item	R Q ty	Pakfills Technologies	Sindh Medical Stores	New Chemical Centre	H. A. Shah & Sons	Kamstech International	Shalimar Scientific Stores	SU Enterprizes	RAAB Scientific Solutions	RAYS Technologies	Key Scientific Corporations	Technically Qualified	Technically Disqualified
12 samples per hour using 3 bayonet bomb vessels Measuring range max: 99MJ, 99000MJ Working temperature min: 0°C Working temperature max: 50°C Germany or UK or Japan or USA or equivalent							than 1oC during a test Ambient humidity: Less than 85% Heat capacity: 14000~15000J/K Power supply: AC 220V±5%, 50Hz Model LBC-C21 Labtron UK		vessels and 2 Air Coolers Measuring range max.: 99MJ, 99000J Working temperature min.: 1˚C Working temperature max.: 50˚C Model 3K-F, DDS South Africa	hour Up to 8-9 samples per hour using 3 bayonet bomb vessels and 2 Air Coolers Measuring range max. 99MJ, 99000J Working temperature min. 1˚C Working temperature max. 50˚C Temperature Measurement Resolution 10ppm (parts per million) Cooling Medium Air Model 3K-F, DDS South Africa Terms & Conditions:- Offer Validity : 180 days Delivery Period : 90 days Warranty : One year from the date of installation by our engineer.	hour: Up to 8-9 samples per hour using 3 bayonet bomb vessels and 2 Air Coolers Measuring range max.: 99MJ, 99000J Working temperature min.: 1˚C Working temperature max.: 50˚C Model 3K-F, DDS South Africa		Scientific Solutions Authorization letter is not attached • Key Scientific Corporations Authorization letter is not attached

Scanned with CamScanner