

**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL**  
**SUPPLY OF LABORATORY EQUIPMENT'S FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
 NAME OF ITEM: FULLY AUTOMATIC DIGITAL AUTOCLAVE  
 DEPARTMENT: Store

ITEM NO: 01  
 QUANTITY: 01  
 BID ISSUED: 10  
 BID RECEIVED: 03

|   |  |  |  |                             |   |                                |                 |                                  |               |  |
|---|--|--|--|-----------------------------|---|--------------------------------|-----------------|----------------------------------|---------------|--|
| <b>Tender Specification</b><br>FULLY AUTOMATIC DIGITAL AUTOCLAVE With Vacuum Drying System<br>Features:<br>Three times fractionated pre-vacuum stainless steel chamber<br>LCD Display<br>Equipped with high quality and high performance<br>High quality water pump and valves<br>Independent steam generator<br>Overhead type water storage tank, easy to clean<br>Drying procedure: Dry by vacuum<br>Sterilizing cycles: 7 cycles are | M/s Analytical Measurement System (Pvt) Ltd. | M/s Iqra Scientific Corporation  | M/s S.K Trading Corporation  | M/s Muslim Medical Services | M/s Scientific Technical Corporation (Pvt) Ltd  | M/s Technology Links (Pvt) Ltd | M/s Shamim & Co | M/s Professional Systems Pvt Ltd | M/s Scien Tec | M/s Continental World Wide Trading Company |
|   | Not Quoted                                   | Yes meet the required specification  | No<br>Not meet the required specification  | Not Quoted                  | Yes meet the required specification   | Not Quoted                     | Not Quoted      | Not Quoted                       | Not Quoted    | Not Quoted                                 |
|   |  | FULLY AUTOMATIC DIGITAL AUTOCLAVE With Vacuum Drying System<br><br>MODEL: BTE-23D, BOECCO, GERMANY<br>(For detailed specifications literature is attached) | Bench Top Steam Sterilizer Model: OT 23B Nuve, Turkey - ISO, CE MARK<br>(For detailed specifications literature is attached) |                             | Horizontal Laminar Airflow Cabinet Model: NU-201-230 NUAIRE, USA.<br>(For detailed specifications literature is attached) |                                |                 |                                  |               |  |

*Handwritten notes:*  
 Iqra Scientific Corporation  
 S.K Trading Corporation  
 Muslim Medical Services  
 Scientific Technical Corporation (Pvt) Ltd  
 Technology Links (Pvt) Ltd  
 Shamim & Co  
 Professional Systems Pvt Ltd  
 Scien Tec  
 Continental World Wide Trading Company

available and 3  
 test programs  
 Sterilization  
 temperature :  
 121°C and 134°C  
 Malfunction  
 detection  
 system,  
 corresponding  
 error code will  
 be showed on  
 the display once  
 there's  
 something goes  
 wrong  
 Technical  
 Specifications:  
 Chamber Size:  
 65a. 247 x  
 460mm (23  
 Liter(s)  
 Power : 220V,  
 50Hz  
 Complete with  
 standard  
 accessories  
 UK/USA/JAPAN  
 /GERMANY OR  
 EQUIVALENT

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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**Etrat Hussain Rizvi**  
 Advisor Student Affairs, JSMU  
 Chairman Procurement Committee



**Dr. Azam Khan**  
 Chief Medical Officer  
 Sindh Employees' Social Security  
 Member



**Mahmood Ali Lakho**  
 Advisor to the V. C on P & D Procurement JSMU  
 Member / Secretary

**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
 NAME OF ITEM: LAMINAR FLOW CABINET  
 DEPARTMENT: Store  
 ITEM NO: 02  
 QUANTITY: 01  
 BID ISSUED: 10  
 BID RECEIVED: 04

*Jeegia Huss*

| Tender Specification   | M/S        | M/S Iqra Scientific Corporation   | M/S S.K Trading Corporation   | M/S Muslim Medical Services  | M/S Scientific Technical Corporation (Pvt) Ltd | M/S Technology Links (Pvt) Ltd | M/S Shamim & Co | M/S Professional Systems Pvt Ltd | M/S Scien Tec   | M/S Continental World Wide Trading Company |
|--|------------|---|---|--|--|--------------------------------|-----------------|----------------------------------|---|--|
|  | Not Quoted | No<br>Not meet the required specification   | No<br>Not meet the required specification   | No<br>Not meet the required specification  | Not Quoted                                     | Not Quoted                     | Not Quoted      | Not Quoted                       | Yes meet the required specification   | Not Quoted                                 |
| <p><b>LAMINAR FLOW CABINET</b><br/>                     Large, easy-to-read LED display presents a menu of functional readouts.<br/>                     A pre-filter traps large particles to extend the life of the HEPA filter.</p> <p>Alarms programmed to warn of HEPA Filter when it is blocked.<br/>                     Quiet, variable speed internal blower provides steriles air velocity control.<br/>                     Start-free fluorescent lamp/UV lamp</p> | Not Quoted | <p>LAMINAR FLOW CABINET<br/>                     MODEL: ZHUH2109B,<br/>                     CHINA</p> | <p>Laminar Flow Cabinet<br/>                     Model: BBS-H1100<br/>                     Biobase, China</p> | <p>Laminar Flow Cabinet<br/>                     Model: HRCJ-1D<br/>                     Make: Haier</p> | Not Quoted                                     | Not Quoted                     | Not Quoted      | Not Quoted                       | <p>Vertical Laminar Flow Clean Bench, OptiMair<br/>                     Model No. ACB-4A 1<br/>                     Make ESCO</p> | Not Quoted                                 |

|   |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|--|--|
| <p>for illumination and disinfection purposes.<br/>Non-glare stainless steel work surface for easy cleaning.</p> <p><b>SPECIFICATION</b></p> <p>Capacity: Single user<br/>Filter efficiency: FS209E Class 100<br/>Power: 67 dB (A)<br/>Air Velocity: 0.3 – 0.6 m/s (Stepless)<br/>Illumination: Fluorescent lamp<br/>Power: AC 220V, 50Hz<br/>Working Area(WDH): 900 x 590 x 570<br/>Complete with standard accessories</p> <p>UK/USA/IMPOR TED/JAPAN/GERMANY OR EQUIVALENT</p> |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|--|--|



**Errat Hussain Rizvi**  
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 Chairman Procurement Committee



**Dr. Azam Khan**  
 Chief Medical Officer  
 Sindh Employees' Social Security Member



**Mahmood Ali Iqbal**  
 Advisor to the Director & D Procurement, JSMU  
 Member / Secretary

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**SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
 NAME OF ITEM: LABORATORY MICROSCOPE  
 DEPARTMENT: Store  
 ITEM NO: 03  
 QUANTITY: 45  
 BID ISSUED: 10  
 BID RECEIVED: 05

|  |  |                                     |   |   |  |   |                 |                                     |               |  |
|--|--|-------------------------------------|---|---|--|---|-----------------|-------------------------------------|---------------|--|
| <b>Tender Specification</b><br><br>LABORATORY MICROSCOPE<br>Sharp Image Display with Excellent Optical Function<br>Higher Contrast and Sharper Image with High Quality<br>Objectives<br>Magnification: 40X-1000X<br>Optical Head Compensation Free Binocular<br>Head, 30° inclined, 360° rotatable, interpupillary | M/s Analytical Measurement System (Pvt) Ltd. | M/s Iqra Scientific Corporation     | M/s S.K Trading Corporation               | M/s Muslim Medical Services               | M/s Scientific Technical Corporation (Pvt) Ltd | M/s Technology Links (Pvt) Ltd            | M/s Shamim & Co | M/s Professional Systems Pvt Ltd    | M/s Scien Tec | M/s Continental World Wide Trading Company |
|  | Not Quoted                                   | Not meet the required specification | No<br>Not meet the required specification | No<br>Not meet the required specification | No<br>Not meet the required specification      | No<br>Not meet the required specification | Not Quoted      | Yes meet the required specification | Not Quoted    | Not Quoted                                 |

*12/10/2016*  
*Signature*

(For detailed specifications literature is attached)





| Including Power Cord and Operational Manual<br>UK/USA/JAPAN/GERMANY OR EQUIVALENT |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|
| /   |  |  |  |  |  |  |  |  |  |  |



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**Mahmood Ali Jallo**  
 Advisor to the Vice-Chancellor JSMU  
 Member / Secretary



**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
NAME OF ITEM: HIGH PERFORMANCE LIQUID CROMATOGRAPH SYSTEM (HPLC)  
DEPARTMENT: Store

ITEM NO: 04  
QUANTITY: 01  
BID ISSUED: 10  
BID RECEIVED: 02

| Tender Specification   | Bidders  |                                 |                             |                             |  |                                |  |                                  |               |  |            |
|--|--|---------------------------------|-----------------------------|-----------------------------|--|--------------------------------|--|----------------------------------|---------------|--|------------|
|  | M/s Analytical Measurement System (Pvt) Ltd.   | M/s Iqra Scientific Corporation | M/s S.K Trading Corporation | M/s Muslim Medical Services | M/s Scientific Technical Corporation (Pvt) Ltd | M/s Technology Links (Pvt) Ltd | M/s Shamim & Co  | M/s Professional Systems Pvt Ltd | M/s Scien Tec | M/s Continental World Wide Trading Company |            |
| <p><b>HIGH PERFORMANCE LIQUID CHROMATOGRAPH SYSTEM (HPLC).</b><br/>The HPLC system shall include the following:<br/>● stackable self contained HPLC modules. The HPLC system must be controllable, monitored, capable of performing system maintenance using Microsoft Internet Explorer web</p> | <p>Yes meet the required specification</p> <p>PerkinElmer USA<br/>Flexar Binary LC Pump Platform<br/>Flexar Binary LC Pump</p> | Not Quoted                      | Not Quoted                  | Not Quoted                  | Not Quoted                                     | Not Quoted                     | <p>Yes meet the required specification</p> <p>SHIMADZU HIGH PERFORMANCE LIQUID CHROMATOGRAPH LC-20A Series I GRADIENT SYSTEM) COMPRISING OF:<br/>Pump<br/>228-45001-48<br/>LC-20AT<br/>Pump Unit</p> | Not Quoted                       | Not Quoted    | Not Quoted                                 | Not Quoted |





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SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014

NAME OF ITEM: DOUBLE BEAM SPECTROPHOTOMETER

DEPARTMENT: Store

ITEM NO: 05

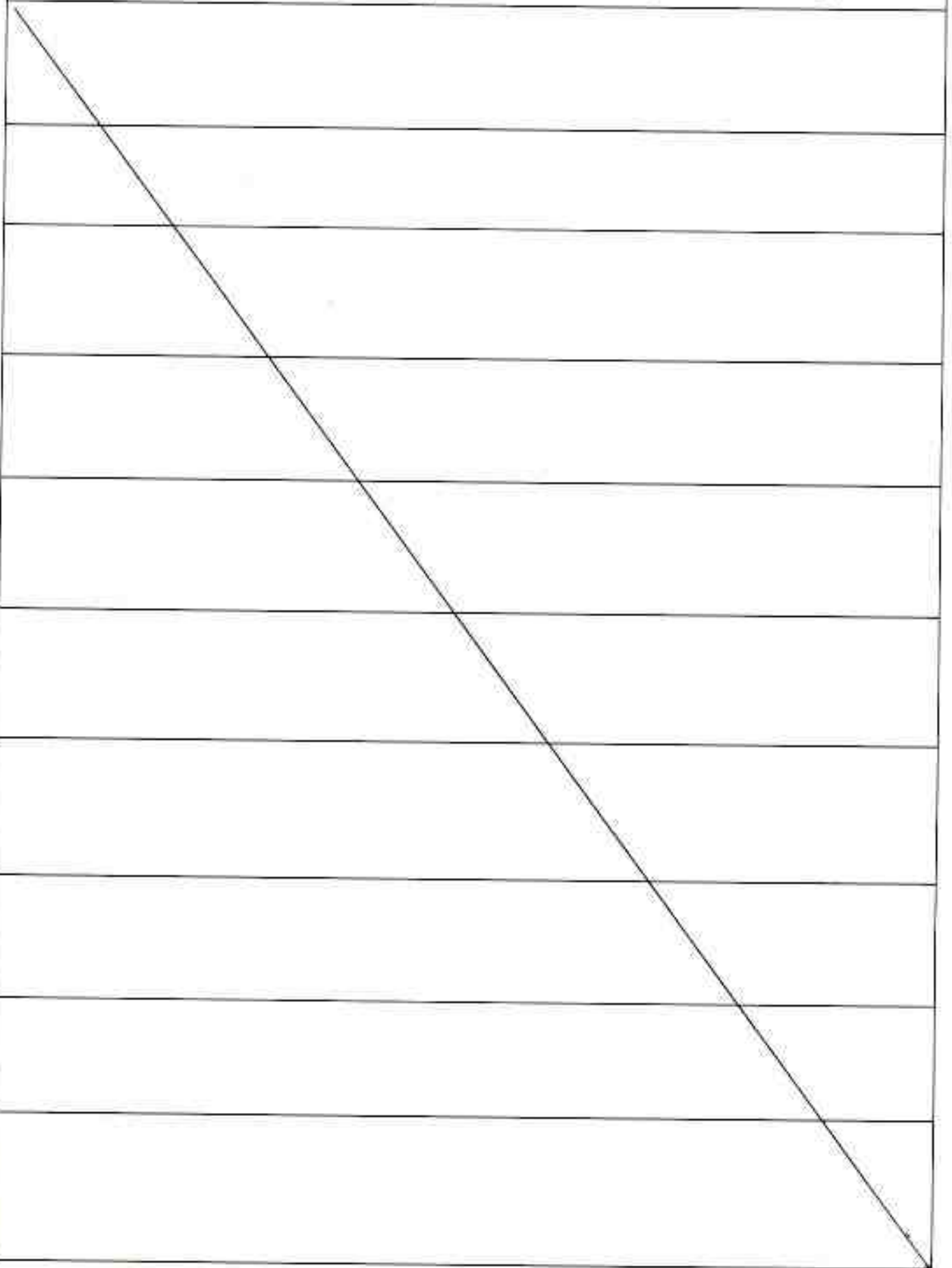
QUANTITY: 04 Sets

BID ISSUED: 10

BID RECEIVED: 05

| Tender Specification   | Bidders   |                                 |  |                             |  |   |   |                                  |               |  |            |
|--|---|---------------------------------|--|-----------------------------|--|---|---|----------------------------------|---------------|--|------------|
|  | M/s Analytical Measurement System (Pvt) Ltd.  | M/s Iqra Scientific Corporation | M/s S.K Trading Corporation  | M/s Muslim Medical Services | M/s Scientific Technical Corporation (Pvt) Ltd   | M/s Technology Links (Pvt) Ltd  | M/s Shamim & Co   | M/s Professional Systems Pvt Ltd | M/s Scien Tec | M/s Continental World Wide Trading Company |            |
| DOUBLE BEAM SPECTROPHOTO METER<br>Specifications:<br>*The spectrophotometer must be able to operate as a stand-alone instrument with MS9-hony ready to save measurement data.<br>*Wavelength range of 190 to 1100nm.<br>*Spectral bandwidth: 1nm or smaller.<br>*Wavelength display: 0.1nm increments.<br>*Wavelength: | PerkinElmer USA Lambda 25 UV WinLab V6.0<br><br>Branded Computer Core i5 LOC Supp Laser Jet Printer | Not Quoted                      | Double beam Spectrophotometer Cat No. UV-8000A METASH Instruments Co., Ltd China CE Mark | Not Quoted                  | UV/VIS Spectrophotometer Model: UV-1602 Double Beam Biotechnology Y Medical Services K. Canada Inc. With Analysis Software. (For detailed specifications literature is attached) | SHIMADZU UV-VIS. SPECTROPHOTOMETER 1800 WITH SOFTWARE (DOUBLE BEAM.)<br>Cells:- ZOO-34442 | Double Beam Spectrophotometer Model No UVD-2950 (Labomed-USA) | Not Quoted                       | Not Quoted    | Not Quoted                                 | Not Quoted |
|  | Yes meet the required specification   | -                               | No Not meet the required specification   | -                           | No Not meet the required specification   | Yes meet the required specification   | No Not meet the required specification                        | -                                | -             | -  |            |

setting: 0.1mm  
 increments.  
 \*Wavelength  
 accuracy: +/-  
 0.1mm.  
 \*Wavelength  
 repeatability: +/-  
 0.1mm  
 \*Wavelength  
 slew rate:  
 6000mm/min.  
 \*Wavelength  
 spinning speed:  
 0mm/min -  
 100mm/min.  
 \*Stray light: less  
 than 0.02% at  
 220nm and  
 340nm (NaI).  
 Less than 1.0%  
 at 198nm (KCl).  
 \*Photometric  
 system: double  
 beam optics  
 type.  
 \*Photometric  
 range: from -0.5  
 Abs to 3.999 Abs  
 Transmittance  
 range: from 0%  
 to 300%T  
 \*Photometric  
 accuracy: +/-  
 0.002 Abs  
 (Abs)  
 0.003 Abs  
 (1.0 Abs)  
 +/- 0.005 Abs  
 (2.0 Abs)  
 \*Photometric  
 repeatability:  
 less than 0.001  
 Abs (at 0.5 and  
 1.0Abs)  
 less than 0.003  
 Abs (at 2.0 Abs)  
 \*Baseline  
 flatness: within  
 +/- 0.0005 Abs  
 (150 - 1100nm)





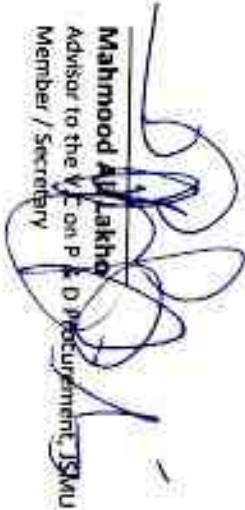
| compliant<br>System must be<br>complete in all<br>respect and<br>ready to operate<br>on 220V 50 Hz<br>including above<br>accessories and<br>installation at<br>site by qualified<br>engineers.<br>USA/JAPAN<br>ROPE OR<br>EQUIVALENT |  |  |  |  |  |  |  |  |  |  |
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| /  |  |  |  |  |  |  |  |  |  |  |



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 Member



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 Advisor to the VC on P. D Procurement, JSMU  
 Member / Secretary

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**SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
 NAME OF ITEM: DISTILLATION APPARATUS  
 DEPARTMENT: Store  
 ITEM NO: 06  
 QUANTITY: 01  
 BID ISSUED: 10  
 BID RECEIVED: 03

| Tender Specification | M/s Analytical Measurement System (Pvt) Ltd.   | M/s Iqra Scientific Corporation  | M/s S.K Trading Corporation  | M/s Muslim Medical Services               | M/s Scientific Technical Corporation (Pvt) Ltd   | M/s Technology Links (Pvt) Ltd            | M/s Shamim & Co | M/s Professional Systems Pvt Ltd | M/s Scien Tec | M/s Continental World Wide Trading Company |
|----------------------|--|--|--|---|--|---|-----------------|----------------------------------|---------------|--|
|                      | DISTILLATION APPARATUS Stainless steel Type with Low water and over-heating cut<br>Distillation flow rate approx 8/10 ltrs/hr<br>Heater:<br>6000 WATT or More Cooling water: | Not Quoted   | Yes meet the required specification  | No<br>Not meet the required specification | Not Quoted   | No<br>Not meet the required specification | Not Quoted      | Not Quoted                       | Not Quoted    | Not Quoted                                 |
|                      |  | DISTILLATION APPARATUS Stainless steel Type with Low water and over-heating cut<br>MODEL: MS-8000, BOECCO, GERMANY | Water Distiller with Storage Tank<br>Model: ND 8 Nuve, Turkey - ISO, CE Mark<br>8 lit / hr |   | Water Distillation Apparatus Model: BMS-4CE Biotechnology Medical Services K. Canada Inc<br>(For detailed specifications literature is attached) |   |                 |                                  |               |  |



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|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| approx 60<br>liters<br><br>Sealing :<br>Silicon<br>gasket<br><br>Power:<br>220V, 50HZ<br><br>Complete<br>with<br>standard<br>accessories<br><br>UK/USA/JAP<br>AN/GERMAN<br>Y OR<br>EQUIVALENT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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**Mahmood Alf Lakh**  
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**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL**  
**SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014

NAME OF ITEM: CONDUCTIVITY METER

DEPARTMENT: Store

ITEM NO: 07

QUANTITY: 04

BID ISSUED: 10

BID RECEIVED: 04

*Yes* *See* *Yes*

| Tender Specification  | M/S Analytical Measurement System (Pvt) Ltd. | M/S Iqra Scientific Corporation                   | M/S S.K Trading Corporation   | M/S Muslim Medical Services                              | M/S Scientific Technical Corporation (Pvt) Ltd  | M/S Technology Links (Pvt) Ltd | M/S Shanmim & Co | M/S Professional Systems Pvt Ltd | M/S Scien Tec | M/S Continental World Wide Trading Company |
|---|--|---|---|--|---|--------------------------------|------------------|----------------------------------|---------------|--|
| conductivity Meter Simultaneous displays of conductivity, salinity or TDS with temperature measurements. Environment one calibration. Calibration data is stored in memory and is ready for use on power up. Adjustable TDS coefficient, reference temperature and temperature coefficient Uses one | Not Quoted                                   | CONDUCTIVITY METER. MODEL: CT-480, BOECO, GERMANY | Conductivity/ TDS/Salinity/ Resistivity/°C /°F Meter Model: BANTE950 BANTE Instruments, China | Conductivity Meter Model: Starter 3000C Made: Ahaus, USA | Conductivity/ TDS/Salinity/ Resistivity /OC/OF Meter Model: BANTE950 Precision BANTE Instruments Co., Ltd. USA. | Not Quoted                     | Not Quoted       | Not Quoted                       | Not Quoted    | Not Quoted                                 |
|   |  | Yes meet the required specification               | No Not meet the required specification  | No Not meet the required specification                   | Yes meet the required specification   |                                |                  |                                  |               |  |
|   |  |   |   |  | (For detailed specifications literature is attached)  |                                |                  |                                  |               |  |

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|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <p>conductivity cell for conductivity, salinity and TDS measurement</p> <p>Accepts 4-wire conductivity cells with K=0.475 cell constant and 2-wire</p> <p>K=0.1 cell constant for lowered flexibility and accuracy</p> <p>50 data set reviewable memory</p> <p>Automatic shut off function (30 minutes of non-use)</p> <p>Battery life approx 200-500 hours</p> <p>Low battery indicator</p> <p>IP65 waterproof case</p> <p>Specification:<br/>Conductivity K = 0.475</p> <p>Range Resolution Accuracy</p> <p>0.0 to 475µS/cm<br/>0.1µS/cm 11% of reading</p> <p>+2µS/cm</p> <p>475 to 4750µS/cm</p> <p>1µS/cm</p> <p>±1% of reading</p> <p>+5µS/cm</p> <p>4.75 to 47.50mS/cm</p> <p>0.01mS/cm 11% of reading</p> <p>+0.05mS/cm</p> <p>47.5 to</p> |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

0,0mS/cm  
0,1mS/cm  $\pm 2,5\%$   
of reading

$\pm 0,5$ mS/cm  
Conductivity K =

0,1

Range

Resolution

Accuracy

0,00 to

99,99 $\mu$ S/cm

0,01 $\mu$ S/cm  $\pm 1\%$   
of reading

to

500 $\mu$ S/cm

0,1 $\mu$ S/cm  $\pm 1\%$  of  
reading

Salinity

Range

Resolution

Accuracy

0,0 to 70,0 ppt

0,1 ppt  $\pm 0,2\%$

Full Scale

Temperature

Range

Resolution

Accuracy

-10,0 to 90,0 °C

0,1 °C

$\pm 0,2\%$  or  $\pm 1\%$   
Full Scale  
whichever is  
greater

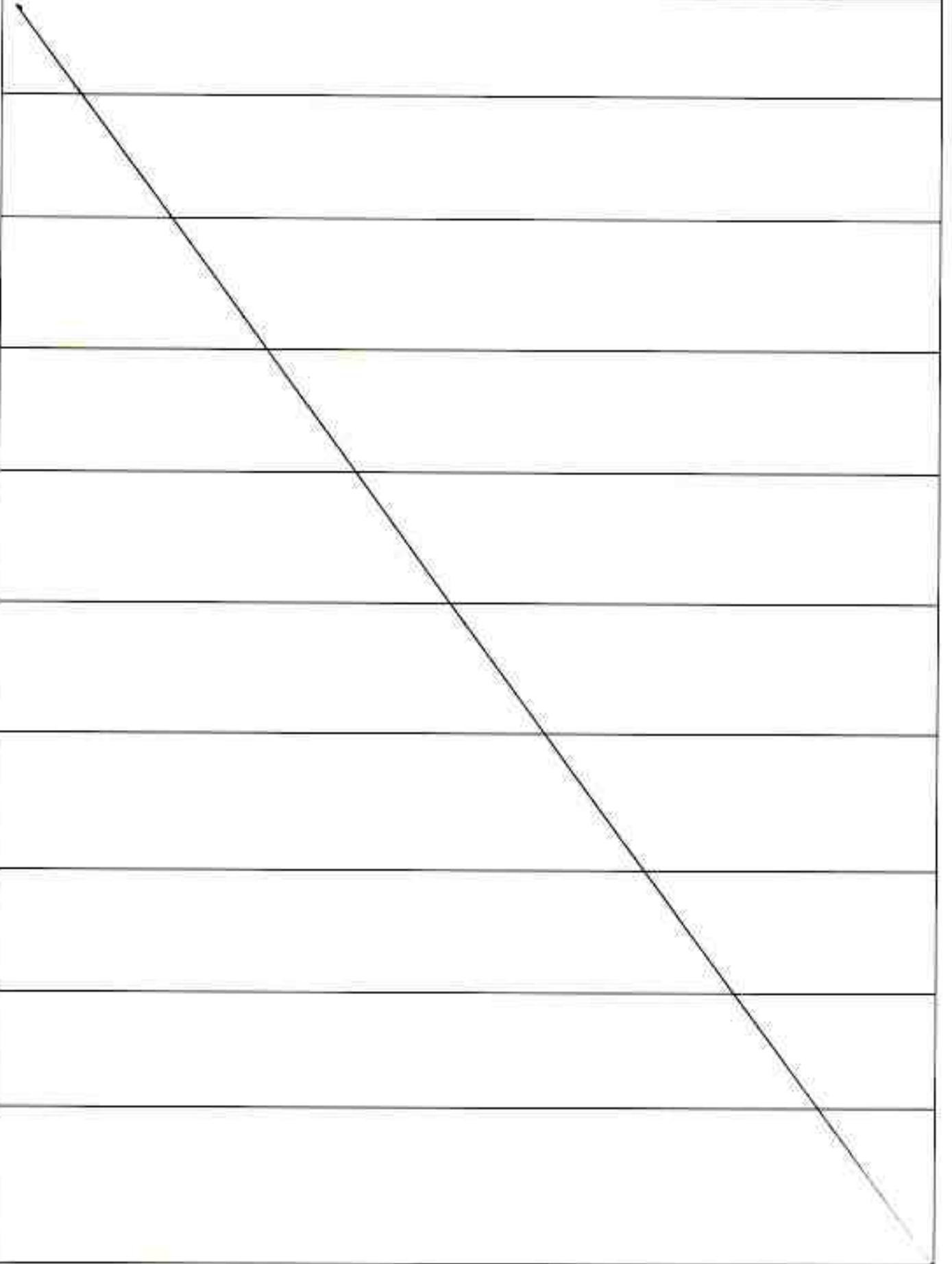
Reference

0

From 15,0 to  
25,0 °C, default is  
25,0 °C

Temperature  
Coefficient  
From 0,000 to  
4,00 °C, default  
is 1,91 °C

TDS:  
Constant: From  
0,30 to 1,00,  
default is 0,65  
Cell Constant:  
4 wire



209 58


|   |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|
| conductivity cell:<br>K = 0.475<br>ATC:<br>Thermistor, 10K<br>ohms, at 25°C<br>Power:<br>9 Volt battery<br>incl. the<br>following<br>standard<br>accessories:<br>[redacted] wires<br>conductivity cell<br>3020P with<br>K=0.475<br>1 x 9 V battery, 1<br>x Operating<br>Manual, 1 x<br>carrying case<br>UK/USA/JAPAN<br>/<br>GERMANY OR<br>EQUIVALENT |  |  |  |  |  |  |  |  |  |  |
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TENDER OPENED ON: 07-07-2014  
 NAME OF ITEM: DIGITAL ABBE REFRACTOMETER  
 DEPARTMENT: Store  
 ITEM NO: 08  
 QUANTITY: 01  
 BID ISSUED: 10  
 BID RECEIVED: 02

|  |  |                                     |                             |                             |  |                                |                 |                                  |               |  |
|--|--|-------------------------------------|-----------------------------|-----------------------------|--|--------------------------------|-----------------|----------------------------------|---------------|--|
| Tender Specification   | M/s Analytical Measurement System (Pvt) Ltd. | M/s Iqra Scientific Corporation     | M/s S.K Trading Corporation | M/s Muslim Medical Services | M/s Scientific Technical Corporation (Pvt) Ltd | M/s Technology Links (Pvt) Ltd | M/s Shamim & Co | M/s Professional Systems Pvt Ltd | M/s Scien Tec | M/s Continental World Wide Trading Company |
|  | Not Quoted                                   | Yes meet the required specification | Not Quoted                  | Not Quoted                  | Not Quoted                                     | Not Quoted                     | Not Quoted      | Not Quoted                       | Not Quoted    | Yes meet the required specification        |
| DIGITAL ABBE REFRACTOMETER<br>Used to measure Brx (Bx) of the sugar solution and to correct the affect of temperature on Brx<br>Brx<br>Mathematically<br><b>SPECIFICATION:</b><br>Measuring range : 1.300-1.700<br>Refractive Index NO : 0.95%<br>Brx BX-TC : 0.95%<br>Measuring accuracy :<br>Refractive Index ND:<br>+0.0002 |  |                                     |                             |                             |  |                                |                 |                                  |               |  |
| MODEL:<br>BOECO,<br>GERMANY<br>Abbe Refractometer Model:NAR-1T SOLID (Atago-Japan)   |  |                                     |                             |                             |  |                                |                 |                                  |               |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| +0.1%<br>Error #X:<br>+0.1%<br>Temperature<br>Temperature<br>displaying range<br>: 0-50°C<br>Power :<br>220V, 50Hz<br>Complete with<br>standard<br>accessories<br>including<br>1 X Standard<br>sample<br>1 x bottle<br>naphthalene<br>bromide<br>1 x Inne-<br>hexagon<br>spanner<br>3 x illuminating<br>bulb<br>1 x Plastic cover<br>hood<br>3 x fuse<br>1 x operating<br>instruction<br>Aluminium<br>carrying case<br>UK/USA/JAPAN<br>/GERMANY OR<br>EQUIVALENT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|



**Etrat Hussain Rizvi**  
 Advisor Student Affairs, JSMU  
 Chairman Procurement Committee



**Dr. Azam Khan**  
 Chief Medical Officer  
 Sindh Employees' Social Security  
 Member



**Mahmood Aslamkhan**  
 Advisor to the V.C on P & D Procurement, JSMU  
 Member / Secretary

**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
 NAME OF ITEM: POLARIMETER  
 DEPARTMENT: Store  
 ITEM NO: 09  
 QUANTITY: 01  
 BID ISSUED: 10  
 BID RECEIVED: 02

*Handwritten signature/initials*

| Tender Specification  | M/s Analytical Measurement System (Pvt) Ltd. | M/s Iqra Scientific Corporation | M/s S.K Trading Corporation | M/s Muslim Medical Services | M/s Scientific Technical Corporation (Pvt) Ltd  | M/s Technology Links (Pvt) Ltd | M/s Shamim & Co | M/s Professional Systems Pvt Ltd | M/s Scien Tec | M/s Continental World Wide Trading Company   |
|---|--|---------------------------------|-----------------------------|-----------------------------|---|--------------------------------|-----------------|----------------------------------|---------------|--|
| <b>POLARIMETER</b><br>Automatic Polarimeter<br>Provisional specifications,<br>Measurement mode: Optical rotation<br>Measurement range: $\pm 259.72$<br>Resolution: 0.01<br>Accuracy: $\pm 0.01^\circ$<br>Measuring time: $\pm 90^\circ$ : 15<br>Wave length: 589 nm<br>Temp. Measurement: 0-99.9 $^\circ\text{C}$<br>Temp. Accuracy | Not Quoted                                   | Not Quoted                      | Not Quoted                  | Not Quoted                  | Yes meet the required specification<br>Automatic Polarimeter<br>Model: WZZ-2A<br>BANTE Instruments Co., Ltd, USA.<br>(For detailed specifications literature is attached) | Not Quoted                     | Not Quoted      | Not Quoted                       | Not Quoted    | No<br>Not meet the required specification<br>Polarimeter<br>Model: POLAX-2L (Atago - Japan)<br>Alternate:<br>Automatic Polarimeter AP-300<br>Manufacturer: ATAGO - JAPAN |



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Calibration : Aut<br>omatic (Menu-<br>driven)<br>Display :<br>LCD<br>Operating : Touc<br>h screen<br>Interface :<br>RS232 (printer)<br>Power supply :<br>100<br>V, 50/60 Hz<br>Slope of supply :<br>PRG-100-<br>E & PRG-200-E<br>Dimensions (Wx<br>HxD)<br>46, 5x20x35 cm<br>ICLUMSA compli<br>nt<br>UK/USA/JAPAN<br>/GERMANY OR<br>EQUIVALENT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

*[Signature]*

**Etrat Hussain Rizvi**  
 Advisor Student Affairs, JSMU  
 Chairman Procurement Committee

*[Signature]*

**Dr. Azam Khan**  
 Chief Medical Officer  
 Sindh Employeers' Social Security  
 Member

*[Signature]*  
**Mahmood Allakhrip**  
 Advisor to the VC on P & D Procurement, JSMU  
 Member / Secretary

**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014

NAME OF ITEM: DIGITAL WATER BATH

DEPARTMENT: Store

ITEM NO: 10

QUANTITY: 03

BID ISSUED: 10

BID RECEIVED: 05

| Tender Specification   | M/s  |                                 |   |  |   |                                |   |                                  |   |  |
|--|--|---------------------------------|---|--|---|--------------------------------|---|----------------------------------|---|--|
|  | M/s Analytical Measurement System (Pvt) Ltd. | M/s Iqra Scientific Corporation | M/s S.K Trading Corporation   | M/s Muslim Medical Services  | M/s Scientific Technical Corporation (Pvt) Ltd  | M/s Technology Links (Pvt) Ltd | M/s Shamim & Co   | M/s Professional Systems Pvt Ltd | M/s Scien Tec   | M/s Continental World Wide Trading Company |
| DIGITAL WATER BATH<br>Microprocessor Controlled Capacity: 10 Liters<br>Timer : 99hrs, 59mins<br>No. of Holes: 06 Nos.<br>(80mm dia) Temperature : Ambient to 100°C | Not Quoted                                   | Not Quoted                      | Water Bath Model: NB 20 Nuve Turkey<br>No meet the required specification | Digital Water Bath Model: HRCU-600 Made: Haier<br>No meet the required specification | Digital Precise Water Bath With Digital Fuzzy Control System Model: WB-22<br>No meet the required specification | Not Quoted                     | <u>DIGITAL WATER BATH</u><br>Complete with standard accessories<br>No meet the required specification | Not Quoted                       | JB Nova Unstirred Digital water bath<br>Yes meet the required specification | Not Quoted                                 |
|  |  |                                 |   |  |   |                                |   |                                  | Model: JBN 26<br>Make: Grant Instruments                                    |  |



**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014

NAME OF ITEM: MAGNETIC STIRRER

DEPARTMENT: Store

ITEM NO: 11

QUANTITY: 02

BID ISSUED: 10

BID RECEIVED: 05

*12/11/2014*  
*Signature*

| Tender Specification   | M/s Analytical Measurement System (Pvt) Ltd. | M/s Iqra Scientific Corporation   | M/s S.K Trading Corporation                                       | M/s Muslim Medical Services      | M/s Scientific Corporation (Pvt) Ltd   | M/s Technology Links (Pvt) Ltd      | M/s Shamim & Co   | M/s Professional Systems Pvt Ltd      | M/s Scien Tec  | M/s Continental World Wide Trading Company      |
|--|--|---|---|----------------------------------|--|-------------------------------------|---|---------------------------------------|--|---|
| <b>MAGNETIC STIRRER</b><br>With Hot Plate<br>Ceramic Top<br>Speed range :<br>1110 liter/min<br>Temperature range: ambient upto 450°C or more<br>Maximum stirring volume: | Not Quoted                                   | <b>M/s Iqra Scientific Corporation</b><br>No meet the required specification            | M/s S.K Trading Corporation<br>No meet the required specification | M/s Muslim Medical Services<br>- | M/s Scientific Corporation (Pvt) Ltd<br>Yes meet the required specification  | M/s Technology Links (Pvt) Ltd<br>- | M/s Shamim & Co<br>No meet the required specification         | M/s Professional Systems Pvt Ltd<br>- | M/s Scien Tec<br>No meet the required specification    | M/s Continental World Wide Trading Company<br>- |
|  |  | MAGNETIC STIRRER<br>Complete with standard accessories<br>MODEL: MSH-420, BOECO, GERMAN | Magnetic Stirrer<br>Model: MS 300 BANTE Instruments, China        | Not Quoted                       | Digital Hotplate Stirrer<br>With Digital Feedback Control<br>Model: Maxtir 500 WITEG, GERMANY. Manufactured By: DAIHAN SCIENTIFIC. | Not Quoted                          | <b>MAGNETIC STIRRER</b><br>Complete with standard accessories | Not Quoted                            | <b>Digital Hot Plate with Stirrer</b><br>Make: Corning | Not Quoted                                      |



**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014

NAME OF ITEM: ROTARY EVAPORATOR

DEPARTMENT: Store

ITEM NO: 13

QUANTITY: 01

BID ISSUED: 10

BID RECEIVED: 03

*Saqib Hussain*

| Tender Specification  | M/s Analytical Measurement System (Pvt) Ltd. | M/s Iqra Scientific Corporation | M/s S.K Trading Corporation               | M/s Muslim Medical Services | M/s Scientific Technical Corporation (Pvt) Ltd | M/s Technology Links (Pvt) Ltd | M/s Shamim & Co | M/s Professional Systems Pvt Ltd | M/s Scien Tec | M/s Continental World Wide Trading Company   |
|---|--|---------------------------------|---|-----------------------------|--|--------------------------------|-----------------|----------------------------------|---------------|--|
| <b>ROTARY EVAPORATOR</b><br>• With digital display and control<br>• Water bath<br>• Motorized lift<br>• Built in vacuum controller<br>• function of pressure and temperature gradient<br>• Variable inclination angle of evaporating flask<br>• With vertical condenser<br>• fitted PC- | Not Quoted                                   | Not Quoted                      | No<br>Not meet the required specification | Not Quoted                  | No<br>Not meet the required specification      | Not Quoted                     | Not Quoted      | Not Quoted                       | Not Quoted    | Yes meet the required specification<br><br>Rotavapor • R-210/V (Buchi – Switzerland)<br><br>X Alternate<br><br>Rotavapor • R-3 (Buchi – Switzerland) |

|  |  |  |  |
|--|--|--|--|
| <p>based<br/>evaporation<br/>control<br/>software<br/>Technical<br/>details:<br/>Evaporating<br/>flask:<br/>20 - 4000 ml<br/>Rotation<br/>speed:<br/>0 - 280 rpm<br/>temperature:<br/>max. 100°C for<br/>water filling<br/>max. 180°C for<br/>oil filling<br/>Regulation<br/>accuracy:<br/>± 1°C up to<br/>100°C<br/>± 3°C up to<br/>180°C<br/>Pressure<br/>measurement:<br/>absolute<br/>Pressure<br/>difference:<br/>adjustable 1-<br/>500 mbar.<br/>Digital settings<br/>temperature,<br/>rotations,<br/>vacuum<br/>Gradient<br/>settings:<br/>Temperature,<br/>pressure<br/>Temperature<br/>unit selection:<br/>°C, °K<br/>Pressure units<br/>selection:<br/>hPa, Torr</p> | <p>Digital Rotary<br/>Evaporator<br/>Model: WEV-<br/>1001L<br/>WITEG,<br/>GERMANY.<br/>Manufacture<br/>d By: DAIHAN<br/>SCIENTIFIC</p> <p>(For detailed<br/>specifications<br/>literature is<br/>attached)</p> |  |  |
|--|--|--|--|





**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014

NAME OF ITEM: DIGITAL ELECTRON MICROSCOPE SCANNING TRANSMISSION (STEM) SYSTEM

DEPARTMENT: Store

ITEM NO: 14

QUANTITY: 01

BID ISSUED: 10

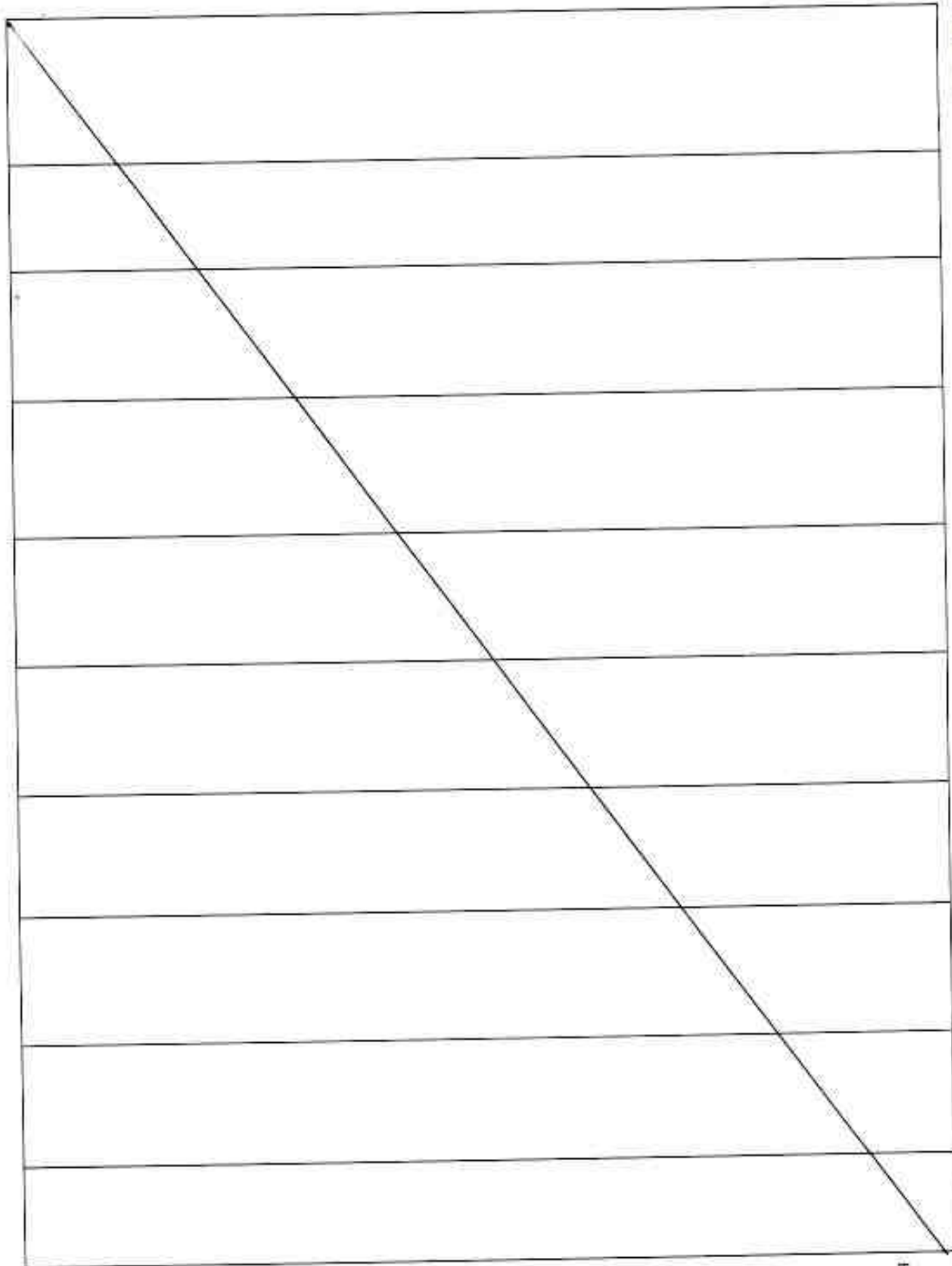
BID RECEIVED: 01

*Handwritten signature*

| Tender Specification  | M/s Analytical Measurement System (Pvt) Ltd. | M/s Iqra Scientific Corporation | M/s S.K Trading Corporation | M/s Muslim Medical Services | M/s Scientific Technical Corporation (Pvt) Ltd | M/s Technology Links (Pvt) Ltd | M/s Shamim & Co | M/s Professional Systems Pvt Ltd    | M/s Scien Tec | M/s Continental World Wide Trading Company |
|---|--|---------------------------------|-----------------------------|-----------------------------|--|--------------------------------|-----------------|-------------------------------------|---------------|--|
| Digital Electron Microscope Scanning Transmission (STEM) system Comprising of<br>* High resolution<br>STEM for nano scale analysis.<br>* High magnification and wide field of view image observation for specimen structure/orie ntation and particle size analysis.<br>* All necessary STEM operations are | Not Quoted                                   | Not Quoted                      | Not Quoted                  | Not Quoted                  | Not Quoted                                     | Not Quoted                     | Not Quoted      | Yes meet the required specification | Not Quoted    | Not Quoted                                 |

embedded in the system.  
 • Bright Field (BF) and Dark Field (DF) detectors and display of BF-STEM and DF-STEM images is supported.  
 • By means of STEM, Z-contrast imaging facilitates further chemical/structural analyses.  
 • All STEM images are archived and managed in the EMIP database software, the same as TEM images.  
 Functions such as CD measurement, Line profiling  
 • Auto Drive are also supported for STEM images.  
 • Data are stored in TIFF (16 bit) or BMP or JPEG format.  
 • Combined with EDX, perform compositional analysis of

small selected areas.  
 Specification  
 Image resolution: 1.5nm (BF-STEM, 100kV, defined by measuring the gap of scattered gold particles)  
 Detectors: BF-STEM/DF-STEM (Option)  
 Magnification: x1,000~x800,000 (High Mag mode)  
 x1,000~x100,000 (Normal mode)  
 x100~x2,000 (Low Mag mode)  
 Scanning mode: Normal scan  
 Selected area scan  
 Digital scan  
 Area analysis  
 Digital scan (option)  
 Data format: TIFF, BMP, JPEG  
 Data bit: 16 bits (TIFF)  
 Image recording: 640 x 480 pixel  
 1,280 x 960 pixel





**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014

NAME OF ITEM: SOXHELT EXTRACTION APPARATUS

DEPARTMENT: Store

ITEM NO: 15

QUANTITY: 05

BID ISSUED: 10

BID RECEIVED: 02

*Waqar*

| Tender Specification   | M/s Analytical Measurement System (Pvt) Ltd. | M/s Iqra Scientific Corporation | M/s S.K Trading Corporation | M/s Muslim Medical Services | M/s Scientific Corporation (Pvt) Ltd   | M/s Technology Links (Pvt) Ltd | M/s Shamim & Co | M/s Professional Systems Pvt Ltd | M/s Scien Tec  | M/s Continental World Wide Trading Company |
|--|--|---------------------------------|-----------------------------|-----------------------------|--|--------------------------------|-----------------|----------------------------------|--|--|
| SOXHELT EXTRACTION APPARATUS For Continuous extraction of solids with a variable solvent unit comprising of: Extractor top joint: 45/50 Extractor lower joint: 24/40 Extractor I.D | Not Quoted                                   | Not Quoted                      | Not Quoted                  | Not Quoted                  | Yes meet the required Specification<br>6 place Analog Multi Heating Mantle<br>Mode: DH.WHM122 93 with 230V WITEG,<br>GERMANY. Manufactured By: DAIHAN SCIENTIFIC | Not Quoted                     | Not Quoted      | Not Quoted                       | No. Not meet the Specification<br>Soxhelt Extraction Apparatus | Not Quoted                                 |





**OFFICE OF THE PLANNING & DEVELOPMENT  
DEPARTMENT  
JINNAH SINDH MEDICAL UNIVERSITY KARACHI**

Ref#: JSMU/P.D/4332

Date: 29<sup>th</sup> October, 2014

To,  
Mr. Mohammad Ayub Ali Khan  
Deputy Director  
Sindh Public Procurement Regulatory Authority  
Karachi

Subject: **Postpone of Financial Proposals of Tenders of Jinnah Sindh Medical University, Karachi**

It is hereby informed that the financial proposals of the following tenders are hereby postponed until the technical proposals observations may not be resolved which were raised by the M/s.Iqra Scientific Corporation.

1. Supply of Laboratory Equipment for D-Pharmacy Department of JSMU, Karachi.
2. Supply of Laboratory Equipment for Bio-Chemistry Department of JSMU, Karachi.

✓  
29/10  
DD (A.P.P.)

  
**Mahmood Ali Lakho**  
Advisor P & D/ Procurement  
JSMU, Karachi

NO. 7264  
29-10-14

**Copy to:**

- Mr.Etrat Hussain Rizvi  
Advisor to V.C. on Students Affairs.  
Chairman Procurement Committee
- Mr. Azam Khan, Additional Director,  
Sindh Employees Social Security Institution  
Member Procurement Committee
- PS to Vice Chancellor, JSMU, Karachi.

20863



OFFICE OF THE PROJECT DEPARTMENT  
JINNAH SINDH MEDICAL UNIVERSITY KARACHI.

Ref#: JSMU/P.D/1105

Date: 15<sup>th</sup> Oct, 2014

**The Director SPPRA,**  
Sindh Public Procurement Regular Authority,  
Sindh Secretariat, Government of Sindh,  
Karachi.

16/10  
DD(AA)

**Subject: Hoisting of Technical Bid Evaluation Report on the SPPRA Web site.**

Dear Sir,


The University is sending following Technical Bid Evaluation Report on your web site.

1. Supply of Laboratory Equipments for Bio Chemistry Department JSMU, Karachi.
2. Supply of Laboratory Equipments for D - Pharmacy Department JSMU, Karachi.

The Technical Bid Evaluation Report is enclosed for your necessary action.

Thanking you,

Encl. Technical Bid Evaluation Report Proposal complete set



**Mahmood Ali Lakho**  
Advisor P & D / Procurement

Copy to:

- PS to Vice Chancellor
- IT In charge (01 set of Technical Bid Evaluation Report for Hoisting on University web site)
- Office Copy

SPPRA INWARD LETTER  
NO. 67-86  
DATED: 16-10-14

**Rafiqi H.J. Shaheed Road, Karachi. Postal Code# 75510**  
**Tel: 99204776, 35223811-15 Ext. 350, Fax # 99201372 www.jsmu.edu.pk**



**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED DN: 07-07-2014

NAME OF ITEM: FULLY AUTOMATIC DIGITAL AUTOCLAVE

DEPARTMENT: Store

ITEM ND: 01

QUANTITY: 01

BID ISSUED: 1D

BID RECEIVED: 03

*Handwritten notes:*  
1st bid ✓  
2nd bid ✓  
3rd bid ✓

| Tender Specification  | M/s Analytical Measurement System (Pvt) Ltd. | M/s Iqra Scientific Corporation   | M/s S.K Trading Corporation  | M/s Muslim Medical Services | M/s Scientific Technical Corporation (Pvt) Ltd  | M/s Technology Links (Pvt) Ltd | M/s Shamim & Co | M/s Professional Systems Pvt Ltd | M/s Selen Tec | M/s Continental World Wide Trading Company |
|---|--|---|--|-----------------------------|---|--------------------------------|-----------------|----------------------------------|---------------|--|
| FULLY AUTOMATIC DIGITAL AUTOCLAVE With Vacuum Drying System<br>Features:<br>Three times fractionated pre-vacuum stainless steel chamber<br>LCD Display<br>Equipped with high quality and high performance pump<br>High quality water pump and valves<br>Independent steam generator<br>Overhead type water storage tank, easy to clean<br>Drying procedure: Dry by vacuum<br>Sterilizing cycles: 7 cycles are | Not Quoted                                   | Yes meet the required specification   | No<br>Not meet the required specification  | Not Quoted                  | Yes meet the required specification   | Not Quoted                     | Not Quoted      | Not Quoted                       | Not Quoted    | Not Quoted                                 |
|   |  | FULLY AUTOMATIC DIGITAL AUTOCLAVE With Vacuum Drying System<br>MODEL: BTE-23D, BOECO, GERMANY<br>(For detailed specifications literature is attached) | Bench Top Steam Sterilizer Model: OT 23B Nuve, Turkey - ISO, CE Mark<br>(For detailed specifications literature is attached) |                             | Horizontal Laminar Airflow Cabinet Model: NU-201-230 NUAIRE, USA.<br>(For detailed specifications literature is attached) |                                |                 |                                  |               |  |

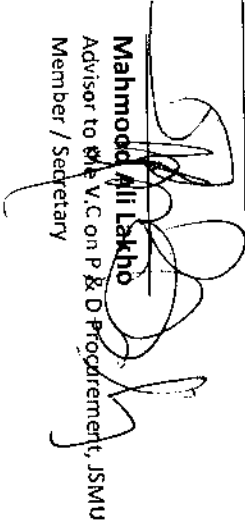
|   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| available and 3<br>test programs<br>Sterilization<br>temperature :<br>121 °C and 134°C<br>Malfunction<br>detection<br>system,<br>corresponding<br>error code will<br>be showed on<br>the display once<br>there's<br>something goes<br>wrong<br><b>Technical</b><br><b>Specification:</b><br>Chamber Size:<br>dia. 247 x<br>460mm (23<br>Liters)<br>Power : 220V,<br>50Hz<br>Complete with<br>standard<br>accessories<br>UK/USA/JAPAN<br>/GERMANY OR<br>EQUIVALENT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|



**Etrat Hussain Rizvi**  
 Advisor Student Affairs, JSMU  
 Chairman Procurement Committee



**Dr. Azam Khan**  
 Chief Medical Officer  
 Sindh Employees' Social Security  
 Member



**Mahmood Ali Lakhio**  
 Advisor to the V.C on P & D Procurement, JSMU  
 Member / Secretary

**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
 NAME OF ITEM: LAMINAR FLOW CABINET  
 DEPARTMENT: Store  
 ITEM NO: 02  
 QUANTITY: 01  
 BID ISSUED: 10  
 BID RECEIVED: 04

| Tender Specification   | M/s Analytical Measurement System (Pvt) Ltd. | M/s Iqra Scientific Corporation   | M/s S.K Trading Corporation   | M/s Muslim Medical Services  | M/s Scientific Technical Corporation (Pvt) Ltd | M/s Technology Links (Pvt) Ltd | M/s Shamim & Co | M/s Professional Systems Pvt Ltd | M/s Scien Tec   | M/s Continental World Wide Trading Company |
|--|--|---|---|--|--|--------------------------------|-----------------|----------------------------------|---|--|
| LAMINAR FLOW CABINET<br>Large, easy-to-read LED display presents a menu of functional readouts.<br>A pre-filter traps large particles to extend the life of the HEPA filter.<br>Alarms programmed to warn of HEPA Filter when it is blocked.<br>Quiet, variable speed internal blower provides steeples air velocity control.<br>Glare-free fluorescent lamp/UV lamp | Not Quoted                                   | LAMINAR FLOW CABINET<br>MODEL: ZHJHZ109B,<br>CHINA<br>No<br>Not meet the required specification | Laminar Flow Cabinet<br>Model: BBS-H1100<br>Biobase, China<br>No<br>Not meet the required specification | Laminar Flow Cabinet<br>Model: HRCJ-1D<br>Make: Haier<br>No<br>Not meet the required specification | Not Quoted                                     | Not Quoted                     | Not Quoted      | Not Quoted                       | Vertical Laminar Flow Clean Bench, OptiMair<br>Model No. ACB-4A 1<br>Make ESCO<br>Yes meet the required specification | Not Quoted                                 |

*Signature Here*



**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014

NAME OF ITEM: LABORATORY MICROSCOPE

DEPARTMENT: Store

ITEM NO: 03

QUANTITY: 45

BID ISSUED: 10

BID RECEIVED: 05

| Tender Specification  | M/S Analytical Measurement System (Pvt) Ltd. | M/s Iqra Scientific Corporation                            | M/s S.K Trading Corporation  | M/s Muslim Medical Services   | M/s Scientific Technical Corporation (Pvt) Ltd  | M/s Technology Links (Pvt) Ltd | M/s Shamim & Co                                     | M/s Professional Systems Pvt Ltd | M/s Scien Tec | M/s Continental World Wide Trading Company |
|---|--|--|--|---|---|--------------------------------|---|----------------------------------|---------------|--|
| LABORATORY MICROSCOPE<br>Sharp Image Display with Excellent Optical Function<br>Higher Contrast and Sharper Image with High Quality Objectives<br>Magnification: 40X-1000X<br>Optical Head: Compensation Free Binocular<br>Head, 30° inclined, 360° rotatable, Interpupillary | Not Quoted                                   | LABORATORY MICROSCOPE Body<br>MODE: BM-120, BOECO, GERMANY | Microscope Model: BS-2022 CE & ISO<br>Bestscope International Ltd, China | Laboratory Microscopes Model: B1-220A<br>Motic - Germany (Assembled in China) | Binocular Compound Microscope Model: Lx 400<br>Labomed Labo America Inc, USA.<br><br>(For detailed specifications literature is attached) | Not Quoted                     | Laboratory Microscope Model No LB-200 (Labomed-USA) | Not Quoted                       | Not Quoted    | Not Quoted                                 |
|   |  | No   | No   | No  | No  |                                | Yes meet the required specification                 |                                  |               |  |

*Signature*

507 38



|                 |                             |            |                                |   |   |            |               |        |                |                          |               |                     |   |                |   |                           |             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|-----------------------------|------------|--------------------------------|---|---|------------|---------------|--------|----------------|--------------------------|---------------|---------------------|---|----------------|---|---------------------------|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Fine Division 2 | microns safety<br>autofocus | stop unit. | Condenser:<br>Abbe Brightfield | condenser, n.A.<br>1.25, Integrated<br>iris | diaphragm and<br>filter tray. With<br>rack & pinion<br>height | adjustment | illumination: | 6V 20W | Halogen, light | intensity<br>adjustable. | Body / power: | Sturdy body<br>with | supportive<br>rubber and<br>inbuilt power<br>supply | Complete with: | Dust cover, blue,<br>filter, immersion<br>oil,<br>2 spare Halogen<br>bulb | Complete with<br>standard | accessories |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------|-----------------------------|------------|--------------------------------|---|---|------------|---------------|--------|----------------|--------------------------|---------------|---------------------|---|----------------|---|---------------------------|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

7 of 38

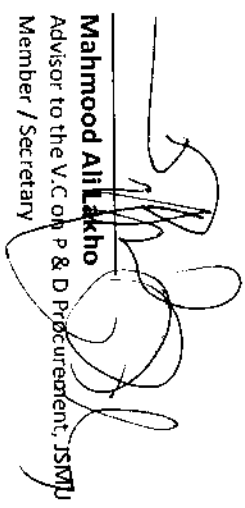
| Including Power Cord and Operational Manual |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|
| UK/USA/JAPAN /GERMANY OR EQUIVALENT         |  |  |  |  |  |  |  |  |  |  |



**Etrat Hussain Rizvi**  
 Advisor Student Affairs, JSMU  
 Chairman Procurement Committee



**Dr. Azam Khan**  
 Chief Medical Officer  
 Sindh Employees' Social Security  
 Member



**Mahmood Ail Lakhio**  
 Advisor to the V.C on P & D Procurement, JSMU  
 Member / Secretary



**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
 NAME OF ITEM: HIGH PERFORMANCE LIQUID CHROMATOGRAPH SYSTEM (HPLC)  
 DEPARTMENT: Store  
 ITEM NO: 04  
 QUANTITY: 01  
 BID ISSUED: 10  
 BID RECEIVED: 02

| Tender Specification   | M/s  |                                 |                             |                             |  |   |                 |                                  |               |  |
|--|--|---------------------------------|-----------------------------|-----------------------------|--|---|-----------------|----------------------------------|---------------|--|
|  | M/s Analytical Measurement System (Pvt) Ltd.                         | M/s Iqra Scientific Corporation | M/s S.K Trading Corporation | M/s Muslim Medical Services | M/s Scientific Technical Corporation (Pvt) Ltd | M/s Technology Links (Pvt) Ltd  | M/s Shamim & Co | M/s Professional Systems Pvt Ltd | M/s Scien Tec | M/s Continental World Wide Trading Company |
| HIGH PERFORMANCE LIQUID CHROMATOGRAPH SYSTEM (HPLC). The HPLC system shall include the following individual stackable self-contained HPLC modules. The HPLC system must be controllable, monitored, capable of performing system maintenance using Microsoft Internet Explorer web | Yes meet the required specifications                                 | -                               | -                           | -                           | -  | Yes meet the required specifications  | -               | -                                | -             | -  |
|  | PerkinElmer USA Flexar Binary LC Pump Platform Flexar Binary LC Pump |                                 |                             |                             |  | SHIMADZU HIGH PERFORMANCE LIQUID CHROMATOGRAPH LC-20A Series (GRADIENT SYSTEM) COMPRISING OF: Pump 228-45001-48 LC-20AT Pump Unit |                 |                                  |               |  |

*Handwritten notes:*  
 M/s Analytical Measurement System (Pvt) Ltd. ✓  
 M/s Technology Links (Pvt) Ltd. ✓

Browser.  
Modules must be connected via fiber optic noise resistant high-speed transmission  
Technology to enhance the reliability and sensitivity of the HPLC system comprising of

\*Solvent Delivery System for Micro, Semi-Micro,  
Analytical, Semi-Prep Flow Rates  
\*On-line  
Degasser

\*Photodiode Array (PDA) UV-Vis Detector  
\*Auto-Sample Injector  
\*Column Oven  
\*System Controller  
\*Oata Management System

DATA MANAGEMENT SYSTEM  
Including Personal Computer and laser printer

SOFTWARE  
with 32 bit MS Vista based.

All modules must be GLP compliant

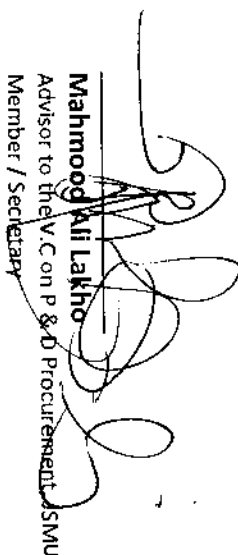
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|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| System must be complete in all respect and ready to operate on 220v 50 hz including above accessories and installation at site by qualified engineers. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| UK/USA/JAPAN /EUROPE OR EQUIVALENT   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



**Errat Hussain Rizvi**  
 Advisor Student Affairs, JSMU  
 Chairman Procurement Committee



**Dr. Azam Khan**  
 Chief Medical Officer  
 Sindh Employees' Social Security  
 Member



**Mahmood Ali Lakho**  
 Advisor to the V.C on P & D Procurement JSMU  
 Member / Secretary

**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014

NAME OF ITEM: DOUBLE BEAM SPECTROPHOTOMETER

DEPARTMENT: Store

ITEM NO: 05

QUANTITY: 04 Sets

BID ISSUED: 10

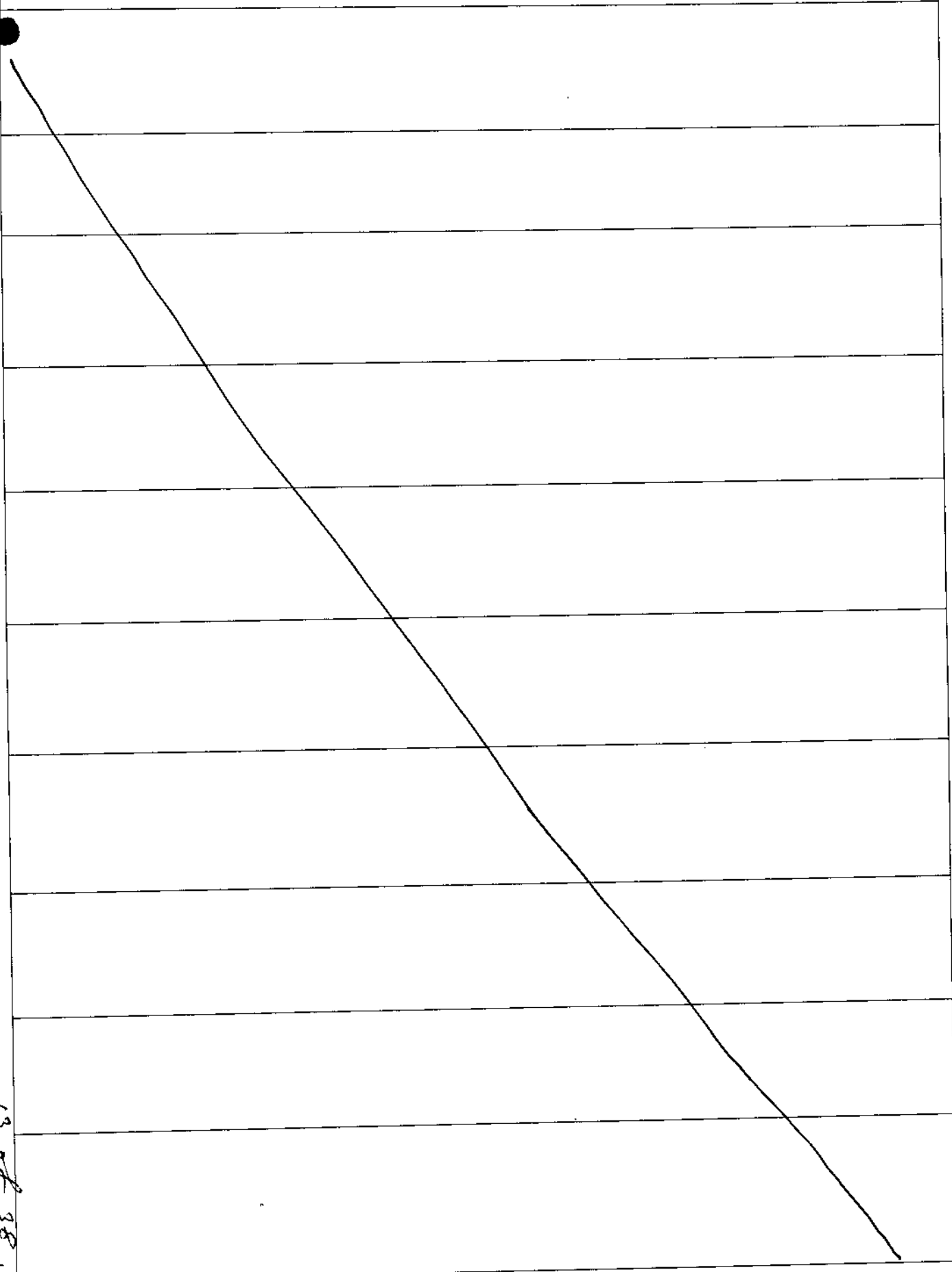
BID RECEIVED: 05

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| Tender Specification   | Bid Evaluation                               |  |                                    |  |  |   |                                    |                                  |               |  |
|--|--|--|------------------------------------|--|--|---|------------------------------------|----------------------------------|---------------|--|
|  | Yes meet the required specification          | Not Quoted   | No meet the required specification | Not Quoted   | No meet the required specification   | Yes meet the required specification                           | No meet the required specification | Not Quoted                       | Not Quoted    | Not Quoted                                 |
| DOUBLE BEAM SPECTROPHOTOMETER<br>Specifications<br>*The spectrophotometer must be able to operate as a stand-alone instrument with USB- memory ready to save measurement data.<br>*Wavelength range of 190 to 1100nm.<br>*Spectral bandwidth: 1nm or smaller.<br>*Wavelength display: 0.1nm increments.<br>*Wavelength | M/s Analytical Measurement System (Pvt) Ltd. | M/s Iqra Scientific Corporation  | M/s S.K Trading Corporation        | M/s Muslim Medical Services  | M/s Scientific Technical Corporation (Pvt) Ltd   | M/s Technology Links (Pvt) Ltd                                | M/s Shamim & Co                    | M/s Professional Systems Pvt Ltd | M/s Scien Tec | M/s Continental World Wide Trading Company |
| PerkinElmer USA<br>Lambda 2S UV WinLab V6.0  | Not Quoted                                   | Double beam Spectrophotometer Cat No. UV-8000A<br>METASH Instruments Co., Ltd<br>China CE Mark | Not Quoted                         | UV/VIS Spectrophotometer Model: UV-1602 Double Beam<br>Biotechnology Medical Services K. Canada Inc. With Analysis Software.<br>(For detailed specifications literature is attached) | SHIMADZU UV-VIS. SPECTROPHOTOMETER TDMETER 1800 WITH SOFTWARE (DOUBLE BEAM.)<br>Cells:-<br>200-34442 | Double Beam Spectrophotometer Model No UVD-2950 (Labomed-USA) | Not Quoted                         | Not Quoted                       | Not Quoted    | Not Quoted                                 |

setting: 0.1nm increments.  
 \*Wavelength accuracy: +/- 0.1nm.  
 \*Wavelength repeatability: +/- 0.1nm  
 \*Wavelength slew rate: 6000nm/min.  
 \*Wavelength scanning speed: 3000nm/min ~ 10nm/min.  
 \*Stray light: less than 0.02% at 220nm and 340nm (NaI).  
 less than 1.0% at 198nm (KCl)  
 \*Photometric system: double beam optics type.  
 \*Photometric range: from -0.5 Abs to 3.999 Abs  
 Transmittance range: from 0% to 300%T  
 \*Photometric accuracy: +/- 0.002 Abs (0.5Abs)  
 +/- 0.003 Abs (1.0 Abs)  
 +/- 0.006 Abs (2.0 Abs)  
 \*Photometric repeatability: less than 0.001 Abs (at 0.5 and 1.0Abs)  
 less than 0.003 Abs (at 2.0 Abs)  
 \*Baseline flatness: within +/- 0.0006 Abs (190 ~ 1100nm)



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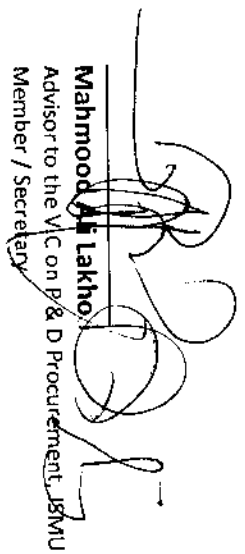
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|--|--|--|--|--|--|--|--|--|--|--|--|--|
| compliant<br>System must be<br>complete in all<br>respect and<br>ready to operate<br>on 220v 50 hz<br>including above<br>accessories and<br>installation at<br>site by qualified<br>engineers.<br><br>UK/USA/JAPAN<br>/EUROPE OR<br>EQUIVALENT |  |  |  |  |  |  |  |  |  |  |  |  |
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**Etrat Hussain Rizvi**  
 Advisor Student Affairs, JSMU  
 Chairman Procurement Committee



**Dr. Azam Khan**  
 Chief Medical Officer  
 Sindh Employees' Social Security  
 Member



**Mahmood Ali Lakhani**  
 Advisor to the V/C on P & D Procurement, JSMU  
 Member / Secretary

**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014

NAME OF ITEM: DISTILLATION APPARATUS

DEPARTMENT: Store

ITEM NO: 06

QUANTITY: 01

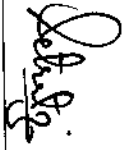
BID ISSUED: 10


BID RECEIVED: 03


| Tender Specification   | M/s  |  |  |                             |  |                                |                  |                                  |               |  |
|--|--|--|--|-----------------------------|--|--------------------------------|------------------|----------------------------------|---------------|--|
|  | M/s Analytical Measurement System (Pvt) Ltd. | M/s Iqra Scientific Corporation  | M/s S.K Trading Corporation  | M/s Muslim Medical Services | M/s Scientific Technical Corporation (Pvt) Ltd   | M/s Technology Links (Pvt) Ltd | M/s Shannim & Co | M/s Professional Systems Pvt Ltd | M/s Scien Tec | M/s Continental World Wide Trading Company |
| DISTILLATION APPARATUS Stainless steel Type with Low water and over-heating cut out Distillation flow rate approx 8/10 ltrs/hr Heater : 6000 WATT or More Cooling water: | Not Quoted                                   | Yes meet the required specification  | No Not meet the required specification   | Not Quoted                  | No Not meet the required specification   | Not Quoted                     | Not Quoted       | Not Quoted                       | Not Quoted    | Not Quoted                                 |
|  |  | DISTILLATION APPARATUS Stainless steel Type with Low water and over-heating cut out MODEL: MS-8000, BOECO, GERMANY | Water Distiller with Storage Tank Model: ND 8 Nuve, Turkey - ISO, CE Mark 8 lit / hr 0 |                             | Water Distillation Apparatus Model: BMS-4CE Biotechnology Medical Services K. Canada Inc. (For detailed specifications literature is attached) |                                |                  |                                  |               |  |



|   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| approx 60<br>liters                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sealing :<br>Silicon<br>gasket                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Power:<br>220V, 50Hz                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Complete<br>with<br>standard<br>accessories   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| UK/USA/JAP<br>AN/GERMAN<br>Y OR<br>EQUIVALENT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

  
**Etrat Hussain Rizvi**  
 Advisor Student Affairs, JSMU  
 Chairman Procurement Committee

  
**Dr. Azam Khan**  
 Chief Medical Officer  
 Sindh Employees' Social Security  
 Member

  
**Mahmood Ali Lakhoo**  
 Advisor to the V.C. and P & D Procurement, JSMU  
 Member / Secretary

**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014

NAME OF ITEM: CONDUCTIVITY METER

DPARTMENT: Store

ITEM NO: 07

QUANTITY: 04

BID ISSUED: 10

BID RECEIVED: 04

| Tender Specification   | M/s  |  |  |   |   |                                |                 |                                  |               |  |
|--|--|--|--|---|---|--------------------------------|-----------------|----------------------------------|---------------|--|
|  | M/s Analytical Measurement System (Pvt) Ltd. | M/s Iqra Scientific Corporation                                      | M/s S.K Trading Corporation  | M/s Muslim Medical Services   | M/s Scientific Technical Corporation (Pvt) Ltd  | M/s Technology Links (Pvt) Ltd | M/s Shamim & Co | M/s Professional Systems Pvt Ltd | M/s Scien Tec | M/s Continental World Wide Trading Company |
| conductivity Meter Simultaneous displays of conductivity, salinity or TDS with temperature measurements. Convenient one point calibration. Calibration data is stored in memory and is ready for use on power up. Adjustable TDS coefficient, reference temperature and temperature coefficient Uses one | Not Quoted                                   | Yes meet the required specification<br>MODEL: CT-480, BDECO, GERMANY | No<br>Not meet the required specification<br>Conductivity/TDS/Salinity/Resistivity/°C<br>Model: BANTE950<br>BANTE Instruments, China | No<br>Not meet the required specification<br>Conductivity Meter<br>Model: Starter 3000C<br>Made: Ahaus, USA | Yes meet the required specification<br>Conductivity/TDS/Salinity/Resistivity /0C/0F Meter<br>Model: BANTE950 Precision BANTE Instruments Co., Ltd. USA.<br>(For detailed specifications literature is attached) | Not Quoted                     | Not Quoted      | Not Quoted                       | Not Quoted    | Not Quoted                                 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <p>conductivity cell for conductivity, salinity and TDS measurement<br/>         Accepts 4-wire conductivity cells with k=0.475 cell constant and 2-wire<br/>         K=0.1 cell constant for improved flexibility and accuracy<br/>         50 data set reviewable memory<br/>         Automatic shut off function (30 minutes of non-use)<br/>         Battery life approx 200-500 hours<br/>         Low battery indicator<br/>         IP65 waterproof case<br/>         Specification:<br/>         Conductivity K = 0.475<br/>         Range Resolution<br/>         Accuracy 0.0 to 475µS/cm<br/>         0.1µS/cm ±1% of reading<br/>         +2µS/cm<br/>         475 to 4750µS/cm<br/>         1µS/cm<br/>         ±1% of reading<br/>         +5µS/cm<br/>         4.75 to 47.50mS/cm<br/>         0.01mS/cm ±1% of reading<br/>         +0.05mS/cm</p> |  |  |  |  |  |  |  |  |  |  |  |  |  |
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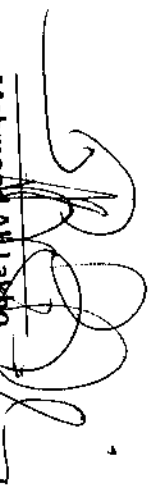
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|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| conductivity cell:<br>K = 0.475<br>ATC:<br>Thermistor, 10K<br>ohms, at 25°C<br>Power :<br>9 Volt battery<br>Incl. the<br>following<br>standard<br>accessories:<br>1 x 4-wire<br>conductivity cell<br>3020P with<br>K=0.475<br>1 x 9 V battery, 1<br>x Operating<br>Manual, 1 x<br>carrying case<br>UK/USA/JAPAN<br>/<br>GERMANY OR<br>EQUIVALENT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|



**Etrat Hussain Rizvi**  
 Advisor Student Affairs, JSMU  
 Chairman Procurement Committee



**Dr. Azam Khan**  
 Chief Medical Officer  
 Sindh Employees' Social Security  
 Member



**Mahmood Ali Lakho**  
 Advisor to the V.C on P & D Procurement, JSMU  
 Member / Secretary

**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014

NAME OF ITEM: DIGITAL ABBE REFRACTOMETER

DEPARTMENT: Store

ITEM NO: 08

QUANTITY: 01

BID ISSUED: 10

BID RECEIVED: 02

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| Tender Specification   | M/s  |  |                             |                             |  |                                |                  |                                  |               |  | Yes meet the required specification |  |
|--|--|--|-----------------------------|-----------------------------|--|--------------------------------|------------------|----------------------------------|---------------|--|-------------------------------------|--|
|  | M/s Analytical Measurement System (Pvt) Ltd. | M/s Iqra Scientific Corporation                      | M/s S.K Trading Corporation | M/s Muslim Medical Services | M/s Scientific Technical Corporation (Pvt) Ltd | M/s Technology Links (Pvt) Ltd | M/s Sharmim & Co | M/s Professional Systems Pvt Ltd | M/s Scien Tec | M/s Continental World Wide Trading Company |                                     |  |
| DIGITAL ABBE REFRACTOMETE R<br>Used to measure Brix (Bx) of the sugar solution and to correct the affect of temperature on the Brix automatically<br><u>SPECIFICATION:</u><br>Measuring range : 1.300-1.700<br>Refractive Index ND : 0-95%<br>Brix BX-TC : 0-95%<br>Measuring accuracy :<br>Refractive Index ND :<br>+0.0002 | Not Quoted                                   | Yes meet the required specification                  | Not Quoted                  | Not Quoted                  | Not Quoted                                     | Not Quoted                     | Not Quoted       | Not Quoted                       | Not Quoted    | Not Quoted                                 | Not Quoted                          | Yes meet the required specification                  |
|  |  | DIGITAL ABBE REFRACTDM ETER<br>MODEL: BOECD, GERMANY |                             |                             |  |                                |                  |                                  |               |  |                                     | Abbe Refractometer Model: NAR-1T SOLID (Atago-Japan) |



**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
 NAME OF ITEM: POLARIMETER  
 DEPARTMENT: Store  
 ITEM NO: 09  
 QUANTITY: 01  
 BID ISSUED: 10  
 BID RECEIVED: 02

*Waqar Ijaz*

| Tender Specification   | M/s Analytical Measurement System (Pvt) Ltd. | M/s Iqra Scientific Corporation | M/s S.K Trading Corporation | M/s Muslim Medical Services | M/s Scientific Technical Corporation (Pvt) Ltd  | M/s Technology Links (Pvt) Ltd | M/s Shamin & Co | M/s Professional Systems Pvt Ltd | M/s Scien Tec | M/s Continental World Wide Trading Company   |
|--|--|---------------------------------|-----------------------------|-----------------------------|---|--------------------------------|-----------------|----------------------------------|---------------|--|
| POLARIMETER<br>Automatic Polarimeter:<br>Provisional specifications,<br>Measurement mode: Optical rotation<br>Measurement range L +/- 90°, 259° Z<br>Resolution: 0.01°<br>Accuracy: +/- 0.01°<br>Measuring time +/- 90°: 15<br>Wave length: 589 nm<br>Temp. Measurement: 0-99.9 °C<br>Temp. Accuracy | Not Quoted                                   | Not Quoted                      | Not Quoted                  | Not Quoted                  | Yes meet the required specification<br><br>Automatic Polarimeter<br>Model: WZZ-2A<br>BANTE Instruments Co., Ltd. USA.<br><br>(For detailed specifications literature is attached) | Not Quoted                     | Not Quoted      | Not Quoted                       | Not Quoted    | No<br>Not meet the required specification<br><br>Polarimeter Model: POLAX-2L (Atago - Japan)<br><br><b>Alternate:</b><br>Automatic Polarimeter AP-300<br>Manufacturer: ATAGO - JAPAN |



|   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| +/-0.2 °C<br>Calibration : Automatic (Menu-driven)<br>Display : LCD<br>Operating : Touch screen<br>Interface : RS232 (printer)<br>Power supply : 100-240 V; 50/60 Hz<br>Scope of supply : PRG-100-E & PRG-200-E<br>Dimensions (WxHxD) : 46.5x20x35 cm<br>ICLUMSA compliant<br>UK/USA/JAPAN /GERMANY OR EQUIVALENT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|



**Errat Hussain Rizvi**  
 Advisor Student Affairs, JSMU  
 Chairman Procurement Committee



**Dr. Azam Khan**  
 Chief Medical Officer  
 Sindh Employees' Social Security Member



**Mahmood Ali Lakho**  
 Advisor to the VC on P & D Procurement, JSMU  
 Member / Secretary

**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
 NAME OF ITEM: DIGITAL WATER BATH  
 DEPARTMENT: Store  
 ITEM NO: 10  
 QUANTITY: 03  
 BID ISSUED: 10  
 BID RECEIVED: 05

| Specification   | M/s Analytical Measurement System (Pvt) Ltd. | M/s Iqra Scientific Corporation | M/s S.K Trading Corporation               | M/s Muslim Medical Services                    | M/s Scientific Technical Corporation (Pvt) Ltd   | M/s Technology Links (Pvt) Ltd | M/s Shamim & Co   | M/s Professional Systems Pvt Ltd | M/s Scien Tec  | M/s Continental World Wide Trading Company |
|---|--|---------------------------------|---|--|--|--------------------------------|---|----------------------------------|--|--|
| DIGITAL WATER BATH  | Not Quoted                                   | Not Quoted                      | No<br>Not meet the required specification | No<br>Not meet the required specification      | No<br>Not meet the required specification  | Not Quoted                     | No<br>Not meet the required specification                       | Not Quoted                       | Yes meet the required specification  | Not Quoted                                 |
| Microprocessor Controlled Capacity: 20 Liters<br>Timer : 99hrs, 59mins<br>No. of Holes: 06 Nos.<br>(80mm dia) Temperature: Ambient to 100°C |  |                                 | Water Bath Model: NB 20 Nuve Turkey       | Digital Water Bath Model: HRCU-600 Made: Haier | Digital Precise Water Bath With Digital Fuzzy Control System Model: WB-22<br>WITEG, GERMANY. Manufactured By: DAIHAN SCIENTIFIC. |                                | <u>DIGITAL WATER BATH</u><br>Complete with standard accessories |                                  | JB Nova Unstirred Digital water bath<br>Model: JBN 26<br>Make: Grant Instruments |  |

*Signature*

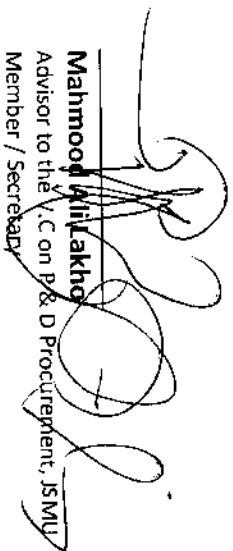
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|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Power:<br>220V, 50Hz                          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Complete<br>with<br>standard<br>accessories   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| UK/USA/JAP<br>AN/GERMAN<br>Y OR<br>EQUIVALENT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



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**Mahmood M. Lakho**  
 Advisor to the V.C on P & D Procurement, JSMU  
 Member / Secretary

**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
 NAME OF ITEM: MAGNETIC STIRRER  
 DEPARTMENT: Store  
 ITEM NO: 11  
 QUANTITY: 02  
 BID ISSUED: 10  
 BID RECEIVED: 05

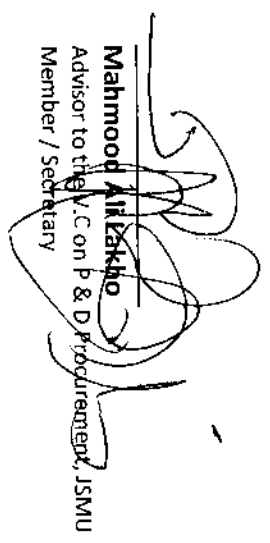
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 (Sd/-)

| Tender Specification   | M/s Analytical Measurement System (Pvt) Ltd. | M/s Iqra Scientific Corporation           | M/s S.K Trading Corporation               | M/s Muslim Medical Services | M/s Scientific Technical Corporation (Pvt) Ltd   | M/s Technology Links (Pvt) Ltd | M/s Shanim & Co  | M/s Professional Systems Pvt Ltd | M/s Scien Tec  | M/s Continental World Wide Trading Company |
|--|--|---|---|-----------------------------|--|--------------------------------|--|----------------------------------|--|--|
| MAGNETIC STIRRER<br>With Hot Plate<br>Ceramic Top<br>Speed range :<br>60-1110 liter/min<br>Temperature range:<br>ambient upto 450°C<br>or more<br>Maximum stirring volume: | Not Quoted                                   | No<br>Not meet the required specification | No<br>Not meet the required specification | Not Quoted                  | Yes meet the required specification<br>Digital Hotplate Stirrer<br>With Digital Feedback Control<br>Model: MAXIR 500<br>WITTEG,<br>GERMANY.<br>Manufactured By: DAIHAN SCIENTIFIC. | Not Quoted                     | No<br>Not meet the required specification<br>Complete standard accessories | Not Quoted                       | No<br>Not meet the required specification<br>Digital Hot Plate with Stirrer<br>Make: Corning | Not Quoted                                 |

|                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| upto 15.0 liter or more            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hot platform                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| size :                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 200 x 200mm                        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hot platform material:             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Glass-ceramic                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Power: 220V, 50Hz                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Complete with standard accessories |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| UK/USA/JAPAN/GERMANY OR EQUIVALENT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



**Etrat Hussain Rizvi**  
 Advisor Student Affairs, JSMU  
 Chairman Procurement Committee



**Mahmood Ali Zaidi**  
 Advisor to the V.C on P & D Procurement, JSMU  
 Member / Secretary

**Dr. Azam Khan**  
 Chief Medical Officer  
 Sindh Employees' Social Security  
 Member

**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
 NAME OF ITEM: ROTARY EVAPORATOR  
 DEPARTMENT: Store  
 ITEM NO: 13  
 QUANTITY: 01  
 BID ISSUED: 10  
 BID RECEIVED: 03

*Sheeraz Nadeem*

| Tender Specification | M/s Analytical Measurement System (Pvt) Ltd.  | M/s Iqra Scientific Corporation | M/s S.K Trading Corporation | M/s Muslim Medical Services   | M/s Scientific Technical Corporation (Pvt) Ltd | M/s Technology Links (Pvt) Ltd  | M/s Shammim & Co | M/s Professional Systems Pvt Ltd | M/s Scien Tec | M/s Continental World Wide Trading Company |
|----------------------|---|---------------------------------|-----------------------------|---|--|---|------------------|----------------------------------|---------------|--|
|                      | ROTARY EVAPORATOR<br>* With digital display and control<br>* Water bath<br>* Motorized lift<br>* Built in vacuum controller<br>* function of pressure and temperature gradient<br>* Variable inclination angle of evaporating flask<br>* With vertical condenser<br>* fitted PC | Not Quoted                      | Not Quoted                  | No<br>Not meet the required specification<br>ROTARY EVAPORATOR Model: EV311VA Labtec, Italy | Not Quoted                                     | No<br>Not meet the required specification<br>Digital Rotary Evaporator Model: WEV-1001V DR Model: WEV-1001L (PLEASE SELECT ONE MODEL WHILE PLACING ORDER) WITTEG, GERMANY. Manufactured by: DAIHAN SCIENTIFIC | Not Quoted       | Not Quoted                       | Not Quoted    | Not Quoted                                 |

|   |  |  |  |  |  |  |   |  |  |  |  |
|---|--|--|--|--|--|--|---|--|--|--|--|
| <p>based evaporation control software<br/> <b>Technical details:</b><br/> Evaporating flask:<br/> 20 - 4000 ml<br/> Rotation speed:<br/> 0 - 280 rpm<br/> Bath temperature:<br/> max. 100°C for water filling<br/> max. 180°C for oil filling<br/> Regulation accuracy:<br/> ± 1°C up to 100°C<br/> ± 3°C up to 180°C<br/> Pressure measurement:<br/> absolute<br/> Pressure difference:<br/> adjustable 1-500 mbar.<br/> Digital settings:<br/> : Temperature, rotations, vacuum<br/> Gradient settings:<br/> Temperature, pressure<br/> Temperature unit selection:<br/> °C, °K<br/> Pressure units selection:<br/> hPa, Torr</p> |  |  |  |  |  |  |   |  |  |  |  |
|   |  |  |  |  |  | <p>Digital Rotary Evaporator<br/> Model: WEV-1001L<br/> WITTEG, GERMANY.<br/> Manufactured By: DAIHAN SCIENTIFIC</p> | <p>(For detailed specifications literature is attached)</p> |  |  |  |  |

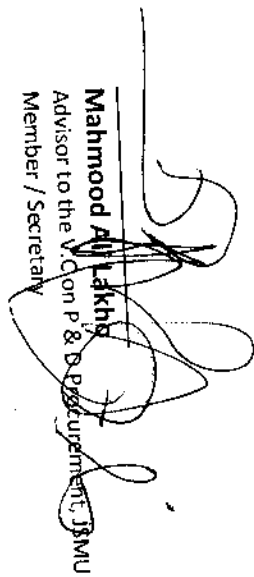
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| Cooler<br>condensation<br>size :<br>1200 sq cm<br>Switched<br>vacuum pump:<br><br>output max<br>650 VA, input<br>max: 2000 VA<br>Power supply :<br>230 V ±10%,<br>50 Hz<br>Power input:<br>max. 2000 W<br><br>(excluding<br>vacuum pump)<br><br>UK/USA/JAPA<br>N/GERMANY<br>OR<br>EQUIVALENT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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**Etrat Hussain Rizvi**  
 Advisor Student Affairs, JSMU  
 Chairman Procurement Committee



**Dr. Azam Khan**  
 Chief Medical Officer  
 Sindh Employees' Social Security  
 Member



**Mahmood Ali Lakh**  
 Advisor to the  
 Member / Secretary  
 Con P & D Procurement JSMU



**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT ISMU, KARACHI**

TENDER OPENED ON: 07-07-2014

NAME OF ITEM: DIGITAL ELECTRON MICROSCOPE SCANNING TRANSMISSION (STEM) SYSTEM

DEPARTMENT: Store

ITEM NO: 14

QUANTITY: 01

BID ISSUED: 10

BID RECEIVED: 01

| Tender Specification  | M/s   |                                 |                             |                             |  |                                |                 |   |               |  |
|---|---|---------------------------------|-----------------------------|-----------------------------|--|--------------------------------|-----------------|---|---------------|--|
|   | M/s Analytical Measurment System (Pvt) Ltd. | M/s Iqra Scientific Corporation | M/s S.K Trading Corporation | M/s Muslim Medical Services | M/s Scientific Technical Corporation (Pvt) Ltd | M/s Technology Links (Pvt) Ltd | M/s Shamim & Co | M/s Professional Systems Pvt Ltd  | M/s Scien Tec | M/s Continental World Wide Trading Company |
| Digital Electron Microscope Scanning Transmission (STEM) system Comprising of<br>* High resolution<br>STEM for nano scale analysis.<br>* Low magnification and wide field of view image observation for specimen structure/orientation and particle size analysis.<br>* All necessary STEM operations are | Not Quoted                                  | Not Quoted                      | Not Quoted                  | Not Quoted                  | Not Quoted                                     | Not Quoted                     | Not Quoted      | Yes meet the required specification<br>FEI TECNAI G2 SPIRIT TWIN DIGITAL ELECTRON MICROSCOPE SCANNING TRANSMISSION (STEM) SYSTEM DIGITAL SCANNING TRANSMISSION ELECTRON MICROSCOPE (STEM)<br>USA/EUROPE | Not Quoted    | Not Quoted                                 |

*Handwritten signature*

embedded in the system.  
\* Bright Field (BF) and Dark Field (DF) detectors and display of BF-STEM and DF-STEM images is supported.  
\* By means of DF-STEM, Z-contrast imaging facilitates further chemical/structural analyses.  
\* All STEM images are archived and managed in the EMIP database software, the same as TEM images.  
Functions such as CD measurement, Line profiling and Auto Drive are also supported for STEM images.  
\* Data are stored in TIFF (16 bit) or BMP or JPEG format.  
\* Combined with EDX, perform compositional analysis of



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|---|--|--|--|--|--|--|--|--|--|--|
| <p>2,560 x 1,920 pixel<br/>5,120 x 3,840 pixel<br/>System must be complete in all respect and ready to operate on 220v 50 hz including above accessories and installation at site by qualified engineers.</p> <p>UK/USA/JAPA N/EUROPE OR EQUIVALENT</p> |  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|



**Etrat Hussain Rizvi**  
 Advisor Student Affairs, JSMU  
 Chairman Procurement Committee



**Dr. Azam Khan**  
 Chief Medical Officer  
 Sindh Employees' Social Security  
 Member



**Mahmood Ali Ilakho**  
 Advisor to the V, P & D Procurement, JSMU  
 Member / Secretary

**COMPARATIVE STATEMENT BID EVALUATION OF TECHNICAL PROPOSAL  
SUPPLY OF LABORATORY EQUIPMENTS FOR D-PHARMACY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
 NAME OF ITEM: SOXHLELT EXTRACTION APPARATUS  
 DEPARTMENT: Store  
 ITEM NO: 15  
 QUANTITY: 05  
 BID ISSUED: 10  
 BID RECEIVED: 02

*Wage Sw*

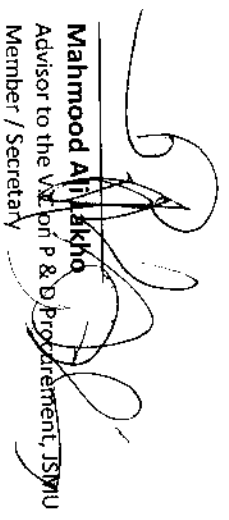
| Tender Specification   | M/s Analytical Measurment System (Pvt) Ltd. | M/s Iqra Scientific Corporation | M/s S.K Trading Corporation | M/s Muslim Medical Services | M/s Scientific Technical Corporation (Pvt) Ltd   | M/s Technology Links (Pvt) Ltd | M/s Shamim & Co | M/s Professional Systems Pvt Ltd | M/s Scien Tec                         | M/s Continental World Wide Trading Company |
|--|---|---------------------------------|-----------------------------|-----------------------------|--|--------------------------------|-----------------|----------------------------------|---------------------------------------|--|
| SOXHLELT EXTRACTION APPARATUS For Continuous extraction of solids with a suitable solvent unit comprising of: Extractor top joint : 45/50 Extractor lower joint: 24/40 Extractor I.D | Not Quoted                                  | Not Quoted                      | Not Quoted                  | Not Quoted                  | 6 place Analog Multi Heating Mantle<br>Mode: DH.WHM122 93 with 230V WITTEG, GERMANY. Manufacture d By: DAIHAN SCIENTIFIC | Not Quoted                     | Not Quoted      | Not Quoted                       | Soxhelt Extraction Apparatus          | Not Quoted                                 |
|  |   |                                 |                             |                             | <i>Yes meet the reported Specification</i>   |                                |                 |                                  | <i>No. Not meet the Specification</i> |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 38mm<br>Capacity :<br>85ml<br>Glass<br>thimble:<br>33/80 mm<br>Flash<br>capacity:<br>250ml<br>Complete as<br>above |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| USA/UK/JAP<br>AN/EUROPE<br>OR<br>EQUIVALENT  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



**Etrat Hussain Rizvi**  
 Advisor Student Affairs, JSMU  
 Chairman Procurement Committee

**Dr. Azam Khan**  
 Chief Medical Officer  
 Sindh Employees' Social Security  
 Member



**Mahmood Ali Akhro**  
 Advisor to the Vice-Chancellor  
 Member / Secretary

|  |  |
|--|--|
| <p>10mm<br/>Aspiration volume programmable :<br/>200-9000ul<br/>Storage :<br/>More than 3000 sample results<br/>More than 1000 QC results<br/>Interface:<br/>RS-232, USB Port (2.0) for Keyboard<br/>Aspiration volume Programmable :<br/>200-9000ul<br/>Light source : Tungsten – halogen<br/>lamp 6V/10W<br/>Power :<br/>220V, 50Hz</p> <p>Complete with standard accessories<br/>Including free installation at site<br/><b>UK/USA/JAPAN/GERMANY OR<br/>SIMILAR</b></p> | <p>volume<br/>0.5ml in<br/>square<br/>cuvette &amp; 1<br/>ml in round<br/>cuvette<br/>Error<br/>message<br/>Excellent<br/>stability even<br/>in low<br/>wavelength<br/>range<br/>Convenience<br/>of<br/>concentratio<br/>n &amp; factor<br/>feeding<br/>Long life<br/>lamp, easily<br/>replaceable<br/>Analogue<br/>output cable<br/>is to pass on<br/>results to<br/>recorder<br/>Flexible<br/>power<br/>source<br/>Grating<br/>monochrom<br/>atic built-in<br/>filters<br/>Reliability,<br/>accuracy &amp;<br/>precision<br/>ensured</p> |
| <p><del> </del></p>  |  |

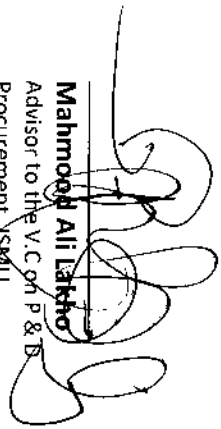
|                           |  |  |  |  |  |  |
|---------------------------|--|--|--|--|--|--|
| Spectrophotometric System |  |  |  |  |  | (For detailed specifications literature is attached) |
|---------------------------|--|--|--|--|--|--|



**Etrat Hussain Rizvi**  
 Advisor Student Affairs, JSMU  
 Chairman



**Dr. Azam Khan**  
 Chief Medical Officer  
 Sindh Employees' Social Security  
 Member



**Mahmood Ali Lakhro**  
 Advisor to the V.C on P & B  
 Procurement, JSMLU  
 Member / Secretary



**COMPARATIVE STATEMENT TECHNICAL BID EVALUATION  
SUPPLY OF LABORATORY EQUIPMENTS FOR BIO - CHEMISTRY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
 NAME OF ITEM: DIGITAL PHOTOELECTRIC COLORMETER  
 DEPARTMENT: Store  
 ITEM NO: 02  
 QUANTITY: 02  
 No of participated bidders  
 Bid Issued: 07  
 Bid Received: 03

|  |                                 |  |   |                  |                  |                              |  |
|--|---------------------------------|--|---|------------------|------------------|------------------------------|--|
| Tender Specification   | M/s Iqra Scientific Corporation | M/s S.K Trading Corporation  | M/s Scientific Technical Corporation (Pvt) Ltd  | M/s Shamim & Co  | M/s Scien Tec    | M/s Seico Scientific Traders | M/s Muslim Trading Agencies  |
|  | -                               | Not Meet the required specification  | Not Meet the required specification   | -                | -                | -                            | Yes Meet the required specification  |
| DIGITAL PHOTOELECTRIC COLORMETER<br>SPECIFICATION:<br>Detector :<br>Silicon photo-diode<br>- Filter : interchangeable glass filter (420nm, 470nm, 546nm, 620nm, 660nm)<br>- light source : Halogen Lamp 6V, 1A<br>- Display :<br>3-digit LED (T%/ABS/CONC)<br>- Range : Transmittance 0-110% T%<br>Absorbance 0-2.00 ABS<br>Concentration C1 0~19.99 | Not Participated                | Digital Photoelectric Colorimeter<br>Model: AP-120<br>APEL Co., Ltd<br>Japan, ISO, CE<br>Mark<br><br>Country of Origin:<br>Japan | Spectrophotometer Model: VIS-110D<br><br>Biotechnology Medical Services K. CANADA.<br><i>(For detailed specifications literature is attached)</i> | Not Participated | Not Participated | Not Participated             | PHOTOELECTRIC COLORMETER (DIGITAL)<br>Model: AP-101<br>Apel - Japan<br><br>Specification:<br>•High electric stability.<br>•Direct reading of concentration.<br>•Long life span |

*(Signature)*

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|--|--|--|--|--|--|--|
| <p>C2 0-199.9<br/>C3 0~1999</p> <p>- Sample container: Round type test tube (10mm dia. I.D.)<br/>- Power Source: 220V 50Hz</p> <p>Complete with standard accessories<br/>Or equivalent</p> <p>UK/USA/JAPAN/GERMANY or equivalent</p> <p><i>Digital photo electric colorimeter.</i></p> |  |  |  |  |  | <p>of the lamp &amp; flexible power source.</p> <ul style="list-style-type: none"> <li>• Square &amp; round cuvetts useable.</li> <li>• The smaller sample volume 1.0 ml.</li> <li>• Digital indicator.</li> <li>• LED's for selected mode.</li> <li>• Optical filter.</li> <li>• One year warranty.</li> </ul> <p><i>(For detailed specifications literature is attached)</i></p> |
|  |  |  |  |  |  |  |

**Etrat Hussain Rizvi**  
Advisor Student Affairs, JSMU  
Chairman

**Dr. Azam Khan**  
Chief Medical Officer  
Sindh Employees' Social Security  
Member

**Mahmood Ali Lakhio**  
Advisor to the V.C or P & D  
Procurement, JSMU  
Member / Secretary

**COMPARATIVE STATEMENT TECHNICAL BID EVALUATION**  
**SUPPLY OF LABORATORY EQUIPMENTS FOR BIO - CHEMISTRY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
 NAME OF ITEM: SEMI-AUTOMATED CLINICAL CHEMISTRY ANALYZER  
 DEPARTMENT: Store  
 ITEM NO: 03  
 QUANTITY: 04  
 Bid Issued: 07  
 Bid Received: 06

|   |  |   |  |  |  |  |  |
|---|--|---|--|--|--|--|--|
| Tender Specification  | M/s Iqra Scientific Corporation                      | M/s S.K Trading Corporation   | M/s Scientific Technical Corporation (Pvt) Ltd   | M/s Shammim & Co   | M/s Scien Tec  | M/s Seico Scientific Traders   | M/s Muslim Trading Agencies                                      |
|   | Not Meet the required specification                  | Not Meet the required specification   | Not Meet the required specification  | Not Meet the required specification                                  | Not Participated   | Not Meet the required specification  | Yes! Meet the required specification                             |
| SEMI-AUTOMATED CLINICAL CHEMISTRY ANALYZER  | SEMI-AUTOMATED CLINICAL CHEMISTRY ANALYZER           | Chemistry Analyzer  | Clinical Chemistry Analyzer  | Blood Chemistry Analyzer (With Battery) (BTS-350) (Biosystems-Spain) | Not Participated   | Semi Automated Chemistry Analyzer Model: Pictus Basic CE Marked, ISO 9001      | Semi Automatic Biochemistry Analyzer Model: RX Monza Randox – UK |
| <ul style="list-style-type: none"> <li>• Semi-automated clinical chemistry analyzer</li> <li>• 60 programmable tests</li> <li>• Broad test menu</li> <li>• Full size screen and qwerty keyboard</li> <li>• No warm up time</li> <li>• Easy-to-train, operate and maintain</li> <li>• Bi-directional host connection</li> <li>• Up to 12 programmable wavelengths</li> </ul> Specifications: | MODEL: MICROLAB 300<br>LX, VITAL SCIENTIFIC, HOLLAND | Model: NB-201<br>Caretium Medical Instruments Co., Ltd China - ISO, CE Mark | Model: DPTIZEN 1412HF<br>MECASYS Co., Ltd. KOREA. (For detailed specifications literature is attached) | One Year Warranty  | Manufacturer: Diatron Hungary<br>Warranty: Two years from the date of installation | Desktop semi automated clinical chemistry analyzer. Reagent volume 30% or less |  |

*R. Khan*

|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
| <p>- Light source : Quartz-iodine Lamp</p> <p>- Wavelength range : Optical unit with 12 position filter 340,405,505,546,578,620nm standard</p> <p>6 positions for optional filters</p> <p>- Photometric range : -0.1 to 2.3 Absorbance</p> <p>- Detector : Photo Diode (320-1000nm)</p> <p>- Membrane keyboard for direct function and alpha numeric</p> <p>- High contrast graphical LCD display</p> <p>Power : 220V 50Hz</p> <p>Complete with standard accessories</p> <p><b>UK/USA/JAPAN/GERMANY/NETHERLAND or equivalent</b></p> |  |  |  | <p>• No warm-up time:</p> <p>Always ready to measure</p> <p>• Interface Protocol (Report Display)</p> <p>RS232 Output</p> <p>• CE marked / FDA approved</p> <p>• Power supply 220-240 Volts, 50~60Hz with surge protector / fuse protection.</p> <p>Analysis modes</p> <p>• Absorbance</p> <p>• 1 point end</p> <p>• 2 point end</p> <p>• 1 point rate</p> <p>• 2 point rate</p> <p>• Chronometric (coagulation parameters)</p> <p><b>Sample Types</b></p> <p>• Serum, Urine, Plasma, CSF, and others</p> <p>• Automatic with chemical Standards</p> |  |  |  |
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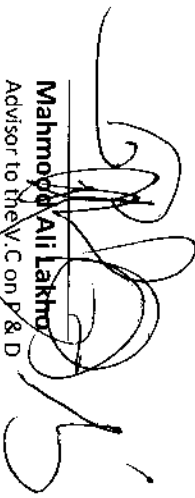
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| Semi-automated<br>Clinical Chemistry<br>Analyzer. |  |  |  |  |  | -Adjustable<br>angle screen<br>Keyboard<br>-Water proof<br>keyboard<br>(For detailed<br>specifications<br>literature is<br>attached) |
|---|--|--|--|--|--|--|



**Etrat Hussain Rizvi**  
Advisor Student Affairs, JSMU  
Chairman



**Dr. Azam Khan**  
Chief Medical Officer  
Sindh Employees' Social Security  
Member



**Mahmood Ali Lakho**  
Advisor to the V.C on P & D  
Procurement, JSMU  
Member / Secretary

**COMPARATIVE STATEMENT TECHNICAL BID EVALUATION  
SUPPLY OF LABORATORY EQUIPMENTS FOR BIO - CHEMISTRY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
 NAME OF ITEM: WATER DISTILLATION PLANT ALL GLASS  
 DEPARTMENT: Store  
 ITEM NO: 04  
 QUANTITY: 01  
 Bid Issued: 07  
 Bid Received: 04

| Tender Specification  | M/s Iqra Scientific Corporation   | M/s S.K Trading Corporation   | M/s Scientific Technical Corporation (Pvt) Ltd   | M/s Shamim & Co                                      | M/s Scien Tec   | M/s Seico Scientific Traders | M/s Muslim Trading Agencies |
|---|---|---|--|--|---|------------------------------|-----------------------------|
| <b>WATER DISTILLATION PLANT ALL GLASS</b><br>standard water stiller with integrated low-water cut-out, continuous production of high pure water, free of dissolved metals and pyrogens<br>Distillate flow rate: approx 4 l/h<br>Conductivity of distilled water: (20 °C) 2.5 µS/cm<br>Wattage: 2,600 W<br>Heater element: Silica heater<br>Material of glass parts : Borosilicate glass 3.3<br>Water consumption: aprox 60 l/hr | Yes 'Meet the required specification'   | Not Meet the required specification   | Not Meet the required specification  | Not Participated                                     | Not Meet the required specification   | Not Participated             | Not Participated            |
|   | WATER DISTILLATION PLANT ALL GLASS<br>standard water stiller with integrated low-water cut-out, continuous production of high pure water, free of dissolved metals and pyrogens | Distillation Apparatus Model: W4L 220/240V 50/60Hz PLT Scientific Malaysia<br>Country of Origin: Malaysia | Water Distillation Apparatus Model: BMS-ACE<br>Biotechnology Medical Services K. Canada Inc. | (For detailed specifications literature is attached) | Water Distillation unit (single Distillation)<br>(For detailed specifications literature is attached) |                              |                             |



|  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
| <p>Complete with standard accessories<br/>Or equivalent</p> <p><b>UK/USA/JAPAN/GERMANY or<br/>equivalent</b></p> | <p>Distillate flow<br/>rate:<br/>aprox 4 l/h</p> <p>Conductivity<br/>of distilled<br/>water:<br/>(20 °C) 2.5<br/>µS/cm</p> <p>Wattage:<br/>2.600 W</p> <p>Heater<br/>element:<br/>Silica heater</p> <p>Material of<br/>glass parts:<br/>Borosilicate<br/>glass 3.3</p> <p>Water<br/>consumption:<br/>aprox 60 l/hr</p> <p>Complete<br/>with standard<br/>accessories</p> <p><b>MODEL:<br/>DEST-4,<br/>BOECO,<br/>GERMANY</b></p> |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |

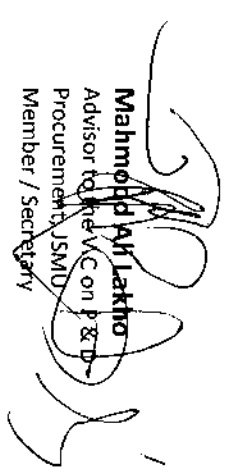
Water Distillation Plant - AM glass.



**Etrat Hussain Rizvi**  
Advisor Student Affairs, JSMU  
Chairman



**Dr. Azam Khan**  
Chief Medical Officer  
Sindh Employees' Social Security  
Member



**Mahmood Ali Lakhro**  
Advisor to the VC on P & D-  
Procurement, JSMU  
Member / Secretary

**COMPARATIVE STATEMENT TECHNICAL BID EVALUATION**  
**SUPPLY OF LABORATORY EQUIPMENTS FOR BIO - CHEMISTRY DEPARTMENT JSMU, KARACHI**

NAME OF ITEM: WATER DEIONIZER WALL MOUNTED

DPARTMENT: Store

ITEM NO: 05

QUANTITY: 01

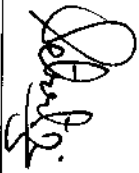
Bid Issued: 07

Bid Received: 02

| Tender Specification  | Yes  | Not   | Not Participated   | Not Participated                    | Not Participated                  | Not Participated                                 | Not Participated                                |
|---|--|---|--|-------------------------------------|-----------------------------------|--|---|
|   | Meet the required specification                                    | Meet the required specification   |  |                                     |                                   |  |   |
| <b>WATER DEIONIZER WALL MOUNTED</b><br>pressure less plastic system consisting of a practical disposable cartridge, an analog conductivity meter, a hose set and wall mount. Excellently suited for the preparation of small volumes of water to fulfill daily requirements of up to 10 liters.<br><b>Specification:</b><br>Flow rate: 50 l/h<br>Capacity at 10° G5G: 425 l<br>Quality: 0.1 - 20 µS/cm<br>Temperature max: 30°C<br>Material Polyethylene<br>Size: 100 x 600 mm (incl. cond. meter) (04 SPARE CATRIDGES)<br>equivalent | M/s Iqra Scientific Corporation<br>Meet the required specification | M/s S.K Trading Corporation<br>Meet the required specification<br>Water Deionizer Model: DW 200<br>Chin can Trading Co., Ltd China CE, ISO Mark | M/s Scientific Technical Corporation (Pvt) Ltd<br>Not Participated | M/s Shamim & Co<br>Not Participated | M/s Scien Tec<br>Not Participated | M/s Seico Scientific Traders<br>Not Participated | M/s Mushim Trading Agencies<br>Not Participated |

UK/USA/JAPAN/GERMANY  
Or equivalent

water to fulfill  
daily  
requirements  
of up to 10  
liters.  
**Specification:**  
Flow rate:  
50 l/h  
Capacity at  
10° GSG: 425  
l  
Quality:  
0,1 - 20  
µS/cm  
Temperature  
max:  
30°C  
Material  
Polyethylene  
Size:  
100 x 600 mm  
(incl. cond.  
meter)  
(04 SPARE  
CATRIDGES)  
**MODEL: DI-  
425, BOECO,  
GERMANY**

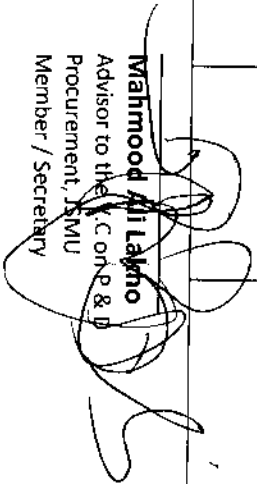


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Sindh Employees' Social Security  
Member

**Mahmood Ali Lamo**  
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Member / Secretary



**COMPARATIVE STATEMENT TECHNICAL BID EVALUATION  
SUPPLY OF LABORATORY EQUIPMENTS FOR BIO - CHEMISTRY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
NAME OF ITEM: DIGITAL LABORATORY INCUBATOR 01 NO  
DEPARTMENT: Store  
ITEM NO: 06  
QUANTITY: 01  
Bid Issued : 07  
Bid Received : 04

|  |   |   |  |                  |  |                              |   |
|--|---|---|--|------------------|--|------------------------------|---|
| Tender Specification   | M/s Iqra Scientific Corporation   | M/s S.K Trading Corporation   | M/s Scientific Technical Corporation (Pvt) Ltd   | M/s Shanmim & Co | M/s Scien Tec  | M/s Seico Scientific Traders | M/s Muslim Trading Agencies   |
|  | Not Participated  | Not Meet the required specification   | Not Meet the required specification  | Not Participated | Not Meet the required specification  | Not Participated             | Yes Meet the required specification   |
| Digital Laboratory Incubator NO.<br>With Microprocessor PID Controlled and interior glass door<br>Interior made of stainless steel<br>Capacity: 60 Liters<br>Timer: 99hrs, 59mins, 1 min increment Controller: Digital PID auto tuning<br>Insulation Material: NON Flammable polystyrene<br>No. of shelves: 02 NOS. stainless steel wire electro | Digital Laboratory Incubator<br>Model: BJPX-Hilo 80Liter<br>Biobase Group, China, CE FDA Mark | Digital Laboratory Incubator<br>Model: BJPX-Hilo 80Liter<br>Biobase Group, China, CE FDA Mark | (A) Incubator Forced Convection Type<br>Digital Fuzzy Control System<br>WITEG, GERMANY.<br>Manufactured By: DAIHAN SCIENTIFIC. | Not Participated | Forced Convection Laboratory Incubator<br>Microprocessor Controlled Dual Display Digital Capacity 110 litres<br>Model: IFA-110<br>Make: ESCO | Not Participated             | Digital Laboratory Incubator<br>Model: RI-S3 BINDER - Germany<br>Features<br>• Volume 53 litre.<br>• WXHXD (mm) : 400X400X330<br>• APT-Line Pre Heating Technology.<br>• Temp. Range up |

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|   |                                  |  |  |  |
|---|----------------------------------|--|--|--|
| <p>02 NOS. stainless steel wire electro polish<br/> Heater:<br/> 300 watt incology pin type<br/> Temperature:<br/> Ambient upto 70°C</p> <p>Complete with standard accessories or equivalent</p> <p><b>UK/USA/JAPAN/GERMANY or equivalent</b></p> | <p><b>Origin:</b><br/> China</p> |  | <p><b>(For detailed specifications literature is attached)</b></p> | <ul style="list-style-type: none"> <li>•Temp. Range up to 99.90C.</li> <li>•Microprocessor PID Controller with LED Display.</li> <li>•Timer 0-99 hrs.</li> <li>•Ventilation Slide &amp; Exhaust Duct.</li> <li>•Inner Glass Door.</li> <li>•ISO-9001 Certified.</li> </ul> <p><b>Alt Digital Laboratory Incubator Model: RI – 115 BINDER – Germany</b></p> <p><b>Features:</b></p> <ul style="list-style-type: none"> <li>•wide temperature range from ambient +5°C above room temperature to 99.9°C</li> <li>•proven APT. line preheating chamber technology, homogeneous spatial temperature distribution and excellent</li> </ul> |
|---|----------------------------------|--|--|--|

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temporal  
temperature  
constancy  
•air circulation by  
means of natural  
thermal  
convection  
•exact  
temperature  
control by  
microprocessor  
controller R3  
•controller with  
well exposed LED  
display (20 mm  
high), accuracy  
0.1 degree, ramp  
function and  
timer (0 – 99.59 h  
or permanent  
operation)  
•overheat  
protection by  
safety device  
class 2 with red  
pilot lamp  
•excellent  
thermal  
insulation by 60  
mm strong heat  
insulator, highest  
working safety,  
low energy  
consumption and  
short heating up  
times  
•inner chamber

|   |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| <p>made of stainless steel, robust and extremely easy to care</p> <ul style="list-style-type: none"> <li>• inner chamber with integrated shelves</li> <li>• 2 ergonomic shelves (chrome-plated)</li> <li>• self-adjusting 2-point door lock for optimal closing of the door and maximum energy saving</li> <li>• robust powder-coated, galvanized sheet steel case</li> <li>• awarded design</li> <li>• in conformity with EN 61010, tested acc. to VDE-GS</li> <li>• dimensions of the inner chamber in mm: 600 x 480 x 400 (W,H,D)</li> </ul> <p>(For detailed specifications literature is attached)</p> |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|



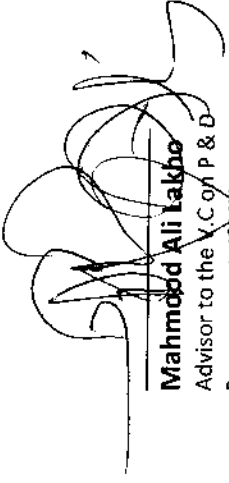
Digital Laboratory Incubator.



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Sindh Employees' Social Security  
Member



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Advisor to the V.C on P & D  
Procurement, JSMU  
Member / Secretary

**COMPARATIVE STATEMENT TECHNICAL BID EVALUATION**  
**SUPPLY OF LABORATORY EQUIPMENTS FOR BIO - CHEMISTRY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
 NAME OF ITEM: BENCHTOP PH/MV/TEMPERATURE METER  
 DEPARTMENT: Store  
 ITEM NO: 07  
 QUANTITY: 01  
 Bid Issued: 07  
 Bid Received: 04

| Tender Specification   | M/s Iqra Scientific Corporation  | M/s S.K Trading Corporation  | M/s Scientific Technical Corporation (Pvt) Ltd  | M/s Shamim & Co  | M/s Scien Tec    | M/s Seico Scientific Traders | M/s Muslim Trading Agencies   |
|--|--|--|---|------------------|------------------|------------------------------|---|
| <b>BENCHTOP PH/MV/TEMPERATURE METER</b><br><br><b>PH METER</b><br>* Large display with backlight<br>* Simultaneous display of pH / ORP and temperature readings<br>* Dual buffer set selection: (4,01, 7,00 10,01) or 4,00, 6,86, 9,18)<br>* Calibration data is stored in memory and is ready for use on power up.<br>* Resolution to 0,1 mV for Ion measurement<br>* Automatic or manual temperature compensation<br>* Automatic lock mode and end point sensing are available to lock in stable | Not Meet the required specification<br><br>BENCHTOP PH/MV/TEMPERATURE METER<br><br>MODEL: BT-600, BOECO, GERMANY | Not Meet the required specification<br><br>Precision pH/mV/ORP/°C/°F Meter<br><br>Model: BANTE 920<br><br>BANTE Instruments Co., Ltd China<br><br>CE, ISO Mark<br><br>Country of Origin: China | <input checked="" type="checkbox"/> Yes<br>Meet the required specification<br><br>pH Meter<br><br>Model: BANTE920<br><br>BANTE Instruments Co., Ltd. USA.<br><br>BANTE92 Series meters includes models 920, 921 and 922 | Not Participated | Not Participated | Not Participated             | Not Meet the required specification<br><br>pH/MV & Temp Meter Bench Top Model: STARTER-3100 Ohaus-USA |

|   |  |          |
|---|--|----------|
| <p>readings</p> <ul style="list-style-type: none"> <li>* AC adaptor or battery power (low battery indicator)</li> <li>* IP54 waterproof case</li> </ul> <p>The BT-675 will be delivered incl. the following standard ACCESSORIES:</p> <ul style="list-style-type: none"> <li>1 x ATC probe, each 1 x 500 ml Buffer solution pH 4,01, pH 7,00</li> <li>1 x AC adaptor, 1 x operating Manual, 1 x flexible electrode holder and glass electrode</li> </ul> <p><b>SPECIFICATION:</b></p> <p><b>pH Range Resolution Accuracy</b><br/> 0 to 14,00 pH    0.01 pH ± 0,01mV</p> <p><b>Range Resolution Accuracy</b><br/> -1999,9 to 1999,9mV 0,1 mV ± 0,4 mV (-1500,0 -1500,0); ± 1 mV (-1999,9 - -1500.0</p> <p><b>Temperature</b><br/> and 1500.0 - 1999.9)</p> <p><b>Range Resolution Accuracy</b><br/> 0.0 to 100,0°C 0.1°C ±0,2°C</p> <p>pH buffer recognition:<br/> US (4,01, 7,00, 10,01) or NIST (4,00, 6,86, 9,18) user selectable</p> <p>Buffer temp. range<br/> 0 - 60,0 °C</p> <p>pH calibration:<br/> 1,2 or 3 point calibration</p> <p>pH electrode :offset<br/> Recognition:<br/> ±1,50 pH</p> <p>pH electrode :slope<br/> Recognition:<br/> ±30% at pH 4,00, 4,01, 9,18</p> | <p>for the measurement of pH and oxidation-reduction potential (ORP) in liquids.</p> <p><b>Features:-</b></p> <ul style="list-style-type: none"> <li>Microprocessor based.</li> <li>High resolution and accuracy (up to ± 0.002 pH accuracy) for precise measurement.</li> <li>Calibrate up to 3 points for pH using USA or NIST buffer sets.</li> <li>Auto buffer reorganization eliminates calibration mistakes and ensures calibration accuracy.</li> <li>Automatic temperature compensation for best accuracy</li> </ul> | <p> </p> |
|---|--|----------|

or

10,01 pH temp. compensation:

Auto / manual 0,0 to 100°C

Input impedance: 1013 ohms

Temperature sensor: Thermistor, 10K ohms at 25°C

Power requirement:

AC adaptor and 6 x

1,5 Volt AAA batteries

Or Equivalent

**UK/USA/JAPAN/GERMANY or equivalent**

under fluctuating temperatures

Meters automatically calculate and display elements electrode slope.

Automatic message prompts to help your easy to operate meter

Expanded memory

stores and recalls up to 99 data sets

USB

Communication interface can be sent data to computer

**Meters included:**

pH Electrode, pH Buffers,

Temperature Probe,

Electrode

Holder Arm,

9V Power

Adapters,

ORP





**COMPARATIVE STATEMENT TECHNICAL BID EVALUATION**  
**SUPPLY OF LABORATORY EQUIPMENTS FOR BIO - CHEMISTRY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
 NAME OF ITEM: JUSTER  
 DPARTMENT: Store  
 ITEM NO: 08  
 QUANTITY: 10  
 Bid Issued: 07  
 Bid Received: 05

| Tender Specification   | M/s Iqra Scientific Corporation   | M/s S.K Trading Corporation  | M/s Scientific Technical Corporation (Pvt) Ltd   | M/s Shamim & Co  | M/s Scien Tec    | M/s Seico Scientific Traders | M/s Muslim Trading Agencies  |
|--|---|--|--|--|------------------|------------------------------|--|
| JUSTER<br>FIX VOLUME WITH TIP EJECTER OF CAPACITY 100ul, 1000ul,2000ul,5000ul<br>Or Equivalent<br>UK/USA/JAPAN/<br>GERMANY or equivalent | Not Meet the required specification<br>JUSTER<br>FIX VOLUME WITH TIP EJECTER OF CAPACITY 100ul, 1000ul,2000ul, 5000ul<br>BOECO, GERMANY | Not Meet the required specification<br>Fixed Pipette Tomos Life Sciences Group Pte Ltd Singapore<br>Country of Origin: China | Not Meet the required specification<br>(A)Sealpipette, Fixed Volume Single Channel Pipettors Cat. No: 480-010<br>JENCONS, ENGLAND.<br>(For detailed specifications literature is attached) | Not Meet the required specification<br>JUSTER<br>CAPP-DENMARK<br>Fixed Pipette 100 ul<br>Fixed Pipette 1000 ul<br>Fixed Pipette 2000 ul<br>Fixed Pipette 5000 ul | Not Participated | Not Participated             | Yes, Meet the required specification<br>Micropipette Justers (Fixed) Proline (Biohit)<br>Specification:<br>•100 µl<br>•1000 µl<br>•2000 µl<br>•5000 µl<br>Alt 08- Micropip |

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**COMPARATIVE STATEMENT TECHNICAL BID EVALUATION**  
**SUPPLY OF LABORATORY EQUIPMENTS FOR BIO - CHEMISTRY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
 NAME OF ITEM: VERTICAL ELECTROPHORESIS SYSTEM 4-GEL  
 DEPARTMENT: Store  
 ITEM NO: 09  
 QUANTITY: 01  
 Bid Issued: 07  
 Bid Received: 01

| Tender Specification   | M/s Iqra Scientific Corporation | M/s S.K Trading Corporation            | M/s Scientific Technical Corporation (Pvt) Ltd | M/s Shamim & Co  | M/s Scien Tec    | M/s Seico Scientific Traders | M/s Muslim Trading Agencies |
|--|---------------------------------|--|--|------------------|------------------|------------------------------|-----------------------------|
| <b>VERTICAL ELECTROPHORESIS SYSTEM 4-GEL</b><br>4-gel vertical electrophoresis system,<br>1.0 mm gel thickness,<br>Includes companion module,<br>2 casting stands,<br>4 casting frames,<br>10-well combs,<br>5 short plates,<br>5 spacer plates<br>Complete with power supply 3-digit<br>LED display output 75W maximum<br>with automatic cross over timer 1 min<br>99hrs 59sec adjustable | Not Participated                | Yes<br>Meet the required specification | Not Participated                               | Not Participated | Not Participated | Not Participated             | Not Participated            |

|   |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|
| <p>safety features: No-load detection;<br/>         rapid resistance change detection,<br/>         ground leak detection, overload/short<br/>         circuit detection, over voltage<br/>         protection, over-temperature<br/>         protection system complete as above</p> |  | <p>790<br/>         Gel tray slots num ber:<br/>         3 as standard<br/>         Internal unit sizes 125 x<br/>         255 x 55<br/> <b>Digital Power Supply</b><br/> <b>Model EFD- 300</b><br/> <b>Eletrofor s.a.s, Italy</b><br/>         300V.400mA.<br/>         Voltage output DC: 1-<br/>         300 V<br/>         Current output DC:<br/>         1-400 mA<br/>         Max power output: 120<br/>         W<br/>         Timer:<br/>         9h:59min<br/>         Resolution :<br/>         1 digit<br/> <b>Country of Origin:</b><br/>         Italy</p> |  |  |  |  |  |
|---|--|--|--|--|--|--|--|

**Etrat Hussain Rizvi**  
 Advisor Student Affairs, JSMU  
 Chairman

**Dr. Azam Khan**  
 Chief Medical Officer  
 Sindh Employees' Social Security  
 Member

**Mahmood Ali Lakho**  
 Advisor to the V.C on P & B  
 Procurement, JSMU  
 Member / Secretary

**COMPARATIVE STATEMENT TECHNICAL BID EVALUATION**  
**SUPPLY OF LABORATORY EQUIPMENTS FOR BIO - CHEMISTRY DEPARTMENT JSMU, KARACHI**

TENDER OPENED ON: 07-07-2014  
 NAME OF ITEM: DIGITAL WATER BATH  
 DPARTMENT: Store  
 ITEM NO: 10  
 QUANTITY: 01  
 Bid Issued: 07  
 Bid Received: 06

*Handwritten mark*

| Tender Specification   | M/s Iqra Scientific Corporation   | M/s S.K Trading Corporation  | M/s Scientific Technical Corporation (Pvt) Ltd  | M/s Shamim & Co   | M/s Scien Tec  | M/s Seico Scientific Traders | M/s Muslim Trading Agencies   |
|--|---|--|---|---|--|------------------------------|---|
| DIGITAL WATER BATH<br>Microprocessor controlled<br>Bath capacity : 8liters or more<br>Temperature : ambient + 5°C to 99.99°C<br>Temperature setting : 0.1°C<br>Input Power: 600W<br>Water Outlet: YES<br>Power: 220V, 50Hz | Not Meet the required specification<br>DIGITAL WATER BATH<br>MODEL: PWB-8, BOECO, GERMANY | Not Meet the required specification<br>Water Bath<br>Model: NB 20 Nuve, Turkey - ISO CE, Mark<br>Specification: 15 liters<br>Country of Origin: Turkey | Yes : Meet the required specification<br>Digital Precise Water Bath With Digital Fuzzy Control System<br>Model: WB-11 WITEG, GERMANY.<br>Manufactured By: DAIHAN SCIENTIFIC.<br>Applications & Features:<br>PL (Product Liability) Insurance. CE-Certificate. | Nnt Meet the required specification<br>DIGITAL WATER BATH | Not Meet the required specification<br>JB Nova Unstirred Digital water bath<br>Display 3-digit bright, wide-angle view LED<br>Model: JBN 12<br>Make: Grant Instruments | Not Participated             | Not Meet the required specification<br>Digital Water Bath<br>Model: HRCU-600<br>Made: Haier |

Complete with standard accessories  
Dr equivalent

**UK/USA/JAPAN/  
GERMANY or equivalent**


CE-Certificate.  
Ideal for  
Biotechnology,  
Clinical,  
Environmental,  
Medical,  
Petroleum, Food  
Industry  
Pharmaceutical  
and Industrial  
Applications.  
User's Self-  
compensation  
function to  
control difference  
between real  
temperature and  
indicated  
temperature.  
( $\pm 10.0^{\circ}\text{C}$ )  
304 Stainless Steel  
Bath and lid for  
Superior  
Durability & High  
Thermal  
Efficiency/constant  
Digital Timer  
Function (99hr  
59min); 'Delay  
Time' and  
'Operation Time'  
can be controlled.  
Storage function  
for the Set Values  
of Temperature  
and Timer.  
Locking Mode  
supported for  
Experimental  
Safety. (Input to


Jog-Shuttle can be disabled).  
Digital Fuzzy Control system implementing superior Temp. Accuracy.  
Patented Jog-Shuttle control system and Digital LCD display.


**Technical Specification**  
Capacity: 11 Lit.  
Temp. Range: Ambient +5°C ~ 100°C  
Temp. Accuracy: ±0.1°C  
Temp. Resolution: 0.1°C - display, 0.1°C - control  
Temp. Uniformity: ±1.0°C  
Temp. Probe: PT 100  
Heating power: 1 kW  
Timer & Alarm: 99hr 59min (Delay & Continuous run), error status and timer end  
Display: Digital LCD display with Back light function  
Controller: Digital Fuzzy

|  |   |  |  |  |  |
|--|---|--|--|--|--|
|  |   |  |  |  |  |
|  |   |  |  |  |  |
|  |   |  |  |  |  |
|  |   |  |  |  |  |
|  | <p>Controller with Jog - Shuttle Switch (Turn + Push)</p> <p>Origin: Korea /Germany.</p> <p>Port of Shipment: Korea.</p> <p>Safety Circuit: Over Temp. / Current Protector, Sensor Error Detection</p> <p>Material Internal: Stainless Steel (# 304)</p> <p>Material External: Powder Coated Steel</p> <p>Lid: Included</p> <p>Stainless Steel Flat Lid (included) or dome lid (option)</p> <p>Drain Valve: None</p> <p>Dimension (w x d x h):</p> <p>Effective space (mm): 302 x 240 x 110</p> <p>Dimension (w x d x h) Bath (mm): 302 x 240 x 150</p> <p>Power Supply: AC 220V, 50/60Hz</p> <p>(For detailed specifications literature is attached)</p> |  |  |  |  |

Digital Water Bath

  
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