

BAHAUDDIN ZAKARIYA UNIVERSITY,
MULTAN.

TENDER DOCUMENT

For

CHEMICALS, GLASSWARE, EQUIPMENT'S AND MISCELLANEOUS LAB.
ITEMS FOR THE INSTITUTE OF CHEMICAL SCIENCES

Last Date of Submission: 15.06.2016

BAHAUDDIN ZAKARIYA UNIVERSITY, MULTAN

www.bzu.edu.Pk

Tel.# 9210071-5 Ext.1305

TENDER FORM OF THE BAHAUDDIN ZAKARIYA UNIVERSITY, MULTAN FOR THE YEAR 2015-2016.

Chemicals, Glassware, Equipment's and Miscellaneous Lab. Items for the Institute of Chemical Sciences ON F.O.R. Basis

Advertised Tender No. T/2015-16/166

Last Date of Receipt of Tender 15-06-2016 12:30PM

Date of Tender Opening 15-06-2016 01:30PM

Tender Price:- Rs.1000/- (Non-refundable)

Earnest Money @5% on Estimated Amount (Refundable)

VENUE TENDER: Treasurer Office B.Z. University, MULTAN.

1. All tender must be submitted on their tender document with sealed envelope and addressed to the Treasurer, Bahauddin Zakariya University, Multan.
2. Any offer not received as per terms & conditions of the tender will be rejected.
3. No offer shall be accepted if:
 - (i) It is received after the time and date fixed for its receipt.
 - (ii) Received without earnest money from the firms.
 - (iii) The tender document is unsigned.
 - (iv) The tender is ambiguous.
 - (v) The offer is conditional.
 - (vi) The offer is from a firm, black listed /suspended or removed from the approved list.
 - (vii) The offer is received by telegram or Fax.
 - (viii) The offer is received with shorter validity than required in tender enquiry.
 - (ix) The offer is not conforming to specifications indicated in the tender enquiry.

Detail

**Earnest Money @5% on Estimated Cost of Chemicals,
Glassware, Equipment's and Miscellaneous Lab. Items is Rs.447,000/-**

DETAIL OF CHEMICALS

Sr. No.	Name	CAS #	Qty	Company Name
1.	1,10-Phenanthroline	5144-89-8	100 g	Sigma/Aldrich or equivalent
2.	p-Benzoquinone dioxime	105-11-3	250 g	Sigma/Aldrich or equivalent
3.	1,5-Di phenyl carbazide	140-22-7	100 g	Sigma/Aldrich or equivalent
4.	1-Butanol	71-36-3	2.5 L	Sigma/Aldrich or equivalent
5.	1-Naphthol	90-15-3	1 kg	Sigma/Aldrich or equivalent
6.	2-Chlorobenzoic acid	118-91-2	1kg	Sigma/Aldrich or equivalent
7.	2-Naphthol	135-19-3	1 kg	Sigma/Aldrich or equivalent
8.	3- Chlorobenzoic acid	535-80-8	1kg	Sigma/Aldrich or equivalent
9.	3-Nitroaniline	99-09-2	1kg	Sigma/Aldrich or equivalent
10.	4-Methoxy benzoic acid	100-09-4	1kg	Sigma/Aldrich or equivalent
11.	4-Nitroaniline	100-01-6	1kg	Sigma/Aldrich or equivalent
12.	4-Nitrobenzoic acid	62-23-7	1kg	Sigma/Aldrich or equivalent
13.	8-Hydroxy quinoline	148-24-3	250g	Sigma/Aldrich or equivalent
14.	Acetic Acid	64-19-7	10 L	Sigma/Aldrich or equivalent
15.	Acetone	67-64-1	20L	Sigma/Aldrich or equivalent
16.	Acetonitrile	75-05-8	5L	Sigma/Aldrich or equivalent
17.	Acetyl chloride	75-36-5	1L	Sigma/Aldrich or equivalent
18.	Activated charcoal	7440-44-0	5 kg	Sigma/Aldrich or equivalent
19.	Alizarin yellow	584-42-9	10 g	Sigma/Aldrich or equivalent
20.	Alumina	1344-28-1	2.5 kg	Sigma/Aldrich or equivalent
21.	Aluminum sulphate	10043-01-3	2 Kg	Sigma/Aldrich or equivalent
22.	Ammonia	7664-41-7	15 L	Sigma/Aldrich or equivalent
23.	Ammonium chloride	12125-02-9	1 kg	Sigma/Aldrich or equivalent
24.	Ammonium hydrogen phosphate	7783-28-0	1 kg	Sigma/Aldrich or equivalent
25.	Ammonium hydroxide	1336-21-6		Sigma/Aldrich or equivalent
26.	Ammonium molybdate	12054-85-2	100 g	Sigma/Aldrich or equivalent
27.	Ammonium per oxydisulphate	7727-54-0	100 g	Sigma/Aldrich or equivalent
28.	Aniline chloride	142-04-1	500 g	Sigma/Aldrich or equivalent
29.	Anthranilic acid	118-92-3	1kg	Sigma/Aldrich or equivalent
30.	Ascorbic acid	50-81-7	250 g	Sigma/Aldrich or equivalent
31.	Barium carbonate	513-77-9	2.5kg	Sigma/Aldrich or equivalent
32.	Barium chloride	10361-37-2	2.5kg	Sigma/Aldrich or equivalent
33.	Barium nitrate	10022-31-8	500g	Sigma/Aldrich or equivalent
34.	Benzaldehyde	100-52-7	2L	Sigma/Aldrich or equivalent
35.	Benzamide	55-21-0	1kg	Sigma/Aldrich or equivalent
36.	Benzene	71-43-2	5L	Sigma/Aldrich or equivalent

37.	Benzoic acid	65-85-0	2.5 kg	Sigma/Aldrich or equivalent
38.	Benzyl chloride	100-44-7	2L	Sigma/Aldrich or equivalent
39.	Bismuth Carbonate	5892-10-4	500g	Sigma/Aldrich or equivalent
40.	Bismuth nitrate	10035-06-0	1Kg	Sigma/Aldrich or equivalent
41.	Bromine	7726-95-6	2L	Sigma/Aldrich or equivalent
42.	Buffer Tablets		pH 4, 7, 9	Sigma/Aldrich or equivalent
43.	Butyric acid	107-92-6	500 mL	Sigma/Aldrich or equivalent
44.	cadmium acetate	5743-04-4	500g	Sigma/Aldrich or equivalent
45.	Cadmium carbonate	513-78-0	500g	Sigma/Aldrich or equivalent
46.	cadmium iodide	7790-80-9	500g	Sigma/Aldrich or equivalent
47.	Cadmium nitrate	10022-68-1	1 kg	Sigma/Aldrich or equivalent
48.	Calcium chloride	10043-52-4	5 kg	Sigma/Aldrich or equivalent
49.	Calcium sulphate	10101-41-4	B5 kg	Sigma/Aldrich or equivalent
50.	Carbon tetrachloride	56-23-5	5 L	Sigma/Aldrich or equivalent
51.	Chloroacetic acid	79-11-8	2.5 L	Sigma/Aldrich or equivalent
52.	Chloroform	67-66-3	10L	Sigma/Aldrich or equivalent
53.	Chromium chloride	10049-05-5	1 kg	Sigma/Aldrich or equivalent
54.	Chromium nitrate	7789-02-8	500g	Sigma/Aldrich or equivalent
55.	Citric Acid	77-92-9	500 g	Sigma/Aldrich or equivalent
56.	Cobalt chloride	7646-79-9	1 kg	Sigma/Aldrich or equivalent
57.	Cobalt nitrate	10026-22-9	2.5 kg	Sigma/Aldrich or equivalent
58.	Congo red	573-58-0	25 g	Sigma/Aldrich or equivalent
59.	Copper acetate	142-71-2	1 kg	Sigma/Aldrich or equivalent
60.	Copper nitrate	10031-43-3	1 kg	Sigma/Aldrich or equivalent
61.	Copper sulphate	7758-98-7	3kg	Sigma/Aldrich or equivalent
62.	di-Ammonium hydrogen phosphate	7722-76-1	1 kg	Sigma/Aldrich or equivalent
63.	Dichloromethane	75-09-2	10L	Sigma/Aldrich or equivalent
64.	Diethyl ether	60-29-7	10L	Sigma/Aldrich or equivalent
65.	Dimethyl glyoxime	95-45-4	100 g	Sigma/Aldrich or equivalent
66.	Dithiooxamide	79-40-3	25 g	Sigma/Aldrich or equivalent
67.	Dithizone	60-10-6	25 g	Sigma/Aldrich or equivalent
68.	DMF	68-12-2	10L	Sigma/Aldrich or equivalent
69.	DMSO	67-68-5	10L	Sigma/Aldrich or equivalent
70.	Dodecyl amine	124-22-1	25 ml	Sigma/Aldrich or equivalent
71.	EDTA sodium salt	6381-92-6	2.5 kg	Sigma/Aldrich or equivalent
72.	Eriochrome black t	1787-61-7	25 g	Sigma/Aldrich or equivalent
73.	Ethanol	64-17-5	10 L	Sigma/Aldrich or equivalent
74.	Ethanol (local brand)	64-17-5	100L	Sigma/Aldrich or equivalent
75.	Ethyl acetate	141-78-6	50L	Sigma/Aldrich or equivalent
76.	Ethylene diamine	107-15-3	1L	Sigma/Aldrich or equivalent
77.	Ethylene glycol	107-21-1	1 L	Sigma/Aldrich or equivalent
78.	Ferric nitrate	7782-61-8	1 kg	Sigma/Aldrich or equivalent
79.	Ferric chloride	7705-08-0	1 kg	Sigma/Aldrich or equivalent
80.	Ferrous ammonium sulphate	10045-89-3	5 kg	Sigma/Aldrich or equivalent
81.	Ferrous chloride	13478-10-9	1 kg	Sigma/Aldrich or equivalent
82.	Ferrous sulphate	7782-63-0	10 kg	Sigma/Aldrich or equivalent

83.	Formaldehyde	50-00-0	2.5 L	Sigma/Aldrich or equivalent
84.	Formic acid	64-18-6	1L	Sigma/Aldrich or equivalent
85.	Glycerine	56-81-5	250 mL	Sigma/Aldrich or equivalent
86.	Glycine	56-40-6	50 g	Sigma/Aldrich or equivalent
87.	Hydrazine (98% pure)	302-01-2	5L	Sigma/Aldrich or equivalent
88.	Hydro quinone	123-31-9	1L	Sigma/Aldrich or equivalent
89.	Hydrochloric acid	7647—01-0	50L	Sigma/Aldrich or equivalent
90.	Hydrogen peroxide	7722-84-1	500 mL	Sigma/Aldrich or equivalent
91.	Hydroxyl amine hydro chloride	5470-11-1	500 g	Sigma/Aldrich or equivalent
92.	Iodoform	75-47-8	1kg	Sigma/Aldrich or equivalent
93.	Isatin	91-56-5	100 g	Sigma/Aldrich or equivalent
94.	Methyl isobutyrate	547-63-7	500mL	Sigma/Aldrich or equivalent
95.	Lead nitrate	10099-74-8	2.5 kg	Sigma/Aldrich or equivalent
96.	Lead acetate	6080-56-4	2.5kg	Sigma/Aldrich or equivalent
97.	Magnesium chloride	7786-30-3	2.5 kg	Sigma/Aldrich or equivalent
98.	Magnesium sulphate	7487-88-9	2.5 kg	Sigma/Aldrich or equivalent
99.	Maleic acid	110-16-7	1kg	Sigma/Aldrich or equivalent
100.	Malonic acid	141-82-2	1kg	Sigma/Aldrich or equivalent
101.	Manganese Chloride	13446-34-9	1 kg	Sigma/Aldrich or equivalent
102.	Manganese sulphate	10034-96-5	1 kg	Sigma/Aldrich or equivalent
103.	Mercury (II) chloride	7487-94-7	1 kg	Sigma/Aldrich or equivalent
104.	Mercuric nitrate	7783-34-8	1 kg	Sigma/Aldrich or equivalent
105.	Methanol	67-56-1	10 L	Sigma/Aldrich or equivalent
106.	Methyl acetate	79-20-9	5 L	Sigma/Aldrich or equivalent
107.	Methyl orange	547-58-0	100 g	Sigma/Aldrich or equivalent
108.	Methyl red	493-52-7	50 g	Sigma/Aldrich or equivalent
109.	Methylene blue	61-73-4	50 g	Sigma/Aldrich or equivalent
110.	Murexide	3051-09-0	25 g	Sigma/Aldrich or equivalent
111.	Naphthalene	91-20-3	1 kg	Sigma/Aldrich or equivalent
112.	n-Hexane	110-54-3	2.5L	Sigma/Aldrich or equivalent
113.	Nickel acetate	6018-89-9	2.5 kg	Sigma/Aldrich or equivalent
114.	Nickel chloride	7718-54-9	2.5 kg	Sigma/Aldrich or equivalent
115.	Nickel nitrate	13138-45-9	2.5 kg	Sigma/Aldrich or equivalent
116.	Nickel sulphate	7786-81-4	2.5 kg	Sigma/Aldrich or equivalent
117.	Ninhydrin	485-47-2	25 g	Sigma/Aldrich or equivalent
118.	Nitric acid	7697-37-2	20L	Sigma/Aldrich or equivalent
119.	Oleylamine	112-90-3	100 g	Sigma/Aldrich or equivalent
120.	Oxalic acid	6153-56-6	5 kg	Sigma/Aldrich or equivalent
121.	Paraffin oil (local brand)	8012-95-1	100L	Sigma/Aldrich or equivalent
122.	Petroleum ether	8032-32-4	50L	Sigma/Aldrich or equivalent
123.	Phenol	108-95-2	2.5 kg	Sigma/Aldrich or equivalent
124.	Phenol red	143-74-8	50 g	Sigma/Aldrich or equivalent
125.	Phenolphthalein	77-09-8	500 g	Sigma/Aldrich or equivalent
126.	Phenyl acetic acid	103-82-2	1kg	Sigma/Aldrich or equivalent
127.	Phthalic acid	88-99-3	1kg	Sigma/Aldrich or equivalent
128.	Picric acid	88-89-1	100g	Sigma/Aldrich or equivalent
129.	Potassium nitrate	7757-79-1	2.5 kg	Sigma/Aldrich or equivalent

130.	Potassium aluminium sulphate	7784-24-9	2.5 kg	Sigma/Aldrich or equivalent
131.	Potassium bromide	7758-02-3	5kg	Sigma/Aldrich or equivalent
132.	Potassium carbonate	584-08-7	5 kg	Sigma/Aldrich or equivalent
133.	Potassium chloride	7447-40-7	1 kg	Sigma/Aldrich or equivalent
134.	Potassium chromate	7789-00-6	2.5 kg	Sigma/Aldrich or equivalent
135.	Potassium cyanide	151-50-8	100 g	Sigma/Aldrich or equivalent
136.	Potassium di chromate	7778-50-9	5 kg	Sigma/Aldrich or equivalent
137.	Potassium hydrogen pthalte	877-24-7	1 kg	Sigma/Aldrich or equivalent
138.	Potassium hydroxide	1310-58-3	2.5 kg	Sigma/Aldrich or equivalent
139.	Potassium iodate	7758-05-6	100 g	Sigma/Aldrich or equivalent
140.	Potassium iodide	7681-11-0	3kg	Sigma/Aldrich or equivalent
141.	Potassium Iodide	7681-11-0	2.5 kg	Sigma/Aldrich or equivalent
142.	Potassium nitrate	7757-79-1	2.5 kg	Sigma/Aldrich or equivalent
143.	Potassium nitrite	7758-09-0	2.5 kg	Sigma/Aldrich or equivalent
144.	Potassium oxalate	6487-48-5	2.5 kg	Sigma/Aldrich or equivalent
145.	Potassium permanganate	7722-64-7	1kg	Sigma/Aldrich or equivalent
146.	Potassium pyroantimonate	12208-13-8	100 g	Sigma/Aldrich or equivalent
147.	Potassium sodium tartarate	304-59-6	5kg	Sigma/Aldrich or equivalent
148.	Potassium sulphate	7778-80-50	2.5 kg	Sigma/Aldrich or equivalent
149.	Potassium sulfide	37199-66-9	2.5 kg	Sigma/Aldrich or equivalent
150.	Potassium sulfite	10117-38-1	2.5 kg	Sigma/Aldrich or equivalent
151.	Potassium tartarate	868-14-4	1 kg	Sigma/Aldrich or equivalent
152.	Potassium thiocyanate	333-20-0	2kg	Sigma/Aldrich or equivalent
153.	Propanol	67-63-0	2.5 L	Sigma/Aldrich or equivalent
154.	Resorcinol	108-46-3	500 g	Sigma/Aldrich or equivalent
155.	Rodozonate acid (Disodium salt)	523-21-7	10 g	Sigma/Aldrich or equivalent
156.	Salicylaldoxime	94-67-7	250g	Sigma/Aldrich or equivalent
157.	Silica gel for column chromatography	112926-00-8	20Kg	Sigma/Aldrich or equivalent
158.	Silica gel for TLC	112926-00-8	20Kg	Sigma/Aldrich or equivalent
159.	Silver Nitrate	7761-88-8	200 g	Sigma/Aldrich or equivalent
160.	Sodium acetate	127-09-3	1 kg	Sigma/Aldrich or equivalent
161.	Sodium bicarbonate	144-55-8	2.5 kg	Sigma/Aldrich or equivalent
162.	Sodium bisulphate	7681-38-1	1 kg	Sigma/Aldrich or equivalent
163.	Sodium carbonate	497-19-8	2.5 kg	Sigma/Aldrich or equivalent
164.	Sodium chloride	7647-14-5	5 kg	Sigma/Aldrich or equivalent
165.	Sodium citrate	68-04-2	1kg	Sigma/Aldrich or equivalent
166.	Sodium cobaltinitrite	13600-98-1	500g	Sigma/Aldrich or equivalent
167.	Sodium hydroxide	1310-73-2	5 kg	Sigma/Aldrich or equivalent
168.	Sodium nitrate	7631-99-4	1 Kg	Sigma/Aldrich or equivalent
169.	Sodium nitrite	7632-00-0	2 Kg	Sigma/Aldrich or equivalent
170.	Sodium oxalate	62-76-0	2.5 kg	Sigma/Aldrich or equivalent

171.	Sodium phosphate	7601-54-9	1 Kg	Sigma/Aldrich or equivalent
172.	Sodium sulphate	7757-82-6	50 g	Sigma/Aldrich or equivalent
173.	Sodium sulphite	7757-83-7	2.5 kg	Sigma/Aldrich or equivalent
174.	Sodium tartarate	6106-24-7	1 Kg	Sigma/Aldrich or equivalent
175.	Sodium thio Sulphate	7772-98-7	1 kg	Sigma/Aldrich or equivalent
176.	Span 20	1338-39-2	500 g	Sigma/Aldrich or equivalent
177.	Span 40	26266-57-9	500 g	Sigma/Aldrich or equivalent
178.	Span 80	1338-43-8	500 g	Sigma/Aldrich or equivalent
179.	Stearic acid	57-11-4	50 g	Sigma/Aldrich or equivalent
180.	Strontium carbonate	1633-05-2	500g	Sigma/Aldrich or equivalent
181.	Strontium nitrate	10042-76-9	500g	Sigma/Aldrich or equivalent
182.	Sucrose (sugar)	57-50-1	1kg	Sigma/Aldrich or equivalent
183.	Sulphuric Acid	7664-93-9	5 L	Sigma/Aldrich or equivalent
184.	Sulphuric acid (local brand)	7664-93-9	50L	Sigma/Aldrich or equivalent
185.	THF	109-99-9	20L	Sigma/Aldrich or equivalent
186.	Thiobenzoic acid	98-91-9	500 g	Sigma/Aldrich or equivalent
187.	Thionylchloride	7719-09-7	5L	Sigma/Aldrich or equivalent
188.	Thiourea	62-56-6	2.5 kg	Sigma/Aldrich or equivalent
189.	Thymol blue	76-61-9	100 g	Sigma/Aldrich or equivalent
190.	Titanium (III) sulphate	19495-80-8	500g	Sigma/Aldrich or equivalent
191.	Toluene	108-88-3	10 L	Sigma/Aldrich or equivalent
192.	Tranexamic acid	1197-18-8	200 mg	Sigma/Aldrich or equivalent
193.	Tri calcium phosphate	7758-87-4	2 Kg	Sigma/Aldrich or equivalent
194.	Triethanol amine	102-71-6	1 Kg	Sigma/Aldrich or equivalent
195.	Triethylamine	121-44-8	1kg	Sigma/Aldrich or equivalent
196.	Trimesic acid	554-95-0	100 g	Sigma/Aldrich or equivalent
197.	Tween 40	9005-66-7	500 g	Sigma/Aldrich or equivalent
198.	Tween 20	9005-64-5	500 g	Sigma/Aldrich or equivalent
199.	Tween 80	9005-65-6	500 g	Sigma/Aldrich or equivalent
200.	Urea	57-13-6	2.5 kg	Sigma/Aldrich or equivalent
201.	Zinc nitrate	19154-63-3	1 kg	Sigma/Aldrich or equivalent
202.	Tetra ethyl orthosilicate		1L	Sigma/Aldrich or equivalent
203.	3-aminopropyltriethoxysilane		1L	Sigma/Aldrich or equivalent
204.	Ethylene glycol dimethacrylate		1L	Sigma/Aldrich or equivalent
205.	Azobisisobutyronitrile		500g	Sigma/Aldrich or equivalent
206.	Vinyl triethoxysilane		1L	Sigma/Aldrich or equivalent
207.	SPE cartridges (C18)		1 Packet	Sigma/Aldrich or equivalent
208.	Hplc sample filtration discs		1 Packet	Sigma/Aldrich or equivalent
209.	Vinyl acetate		1L	Sigma/Aldrich or equivalent
210.	Acrylic acid		1L	Sigma/Aldrich or equivalent
211.	Benzoyl peroxide		500g	Sigma/Aldrich or equivalent

DETAIL OF GLASSWARE

Sr. No.	Items	Specification	Quantity
1.	Beakers 25 ml, 50 ml, 100 ml, 250 ml, 500 ml, 1000 ml, 2000 ml	Pyrex Glass	20, 40, 800, 200, 50, 30, 10 respectively
2.	Burette 50 ml		150
3.	Burette 25 ml		20
4.	Capillary tube (fine)		60 Pack
5.	Capillary tube (ordinary)		60 Pack
6.	Column 2' diameter 2.5 feet 24/29 size		20
7.	Column 2' diameter 3 feet 24/29 size		40
8.	Condenser quick fit 12' 24/29 size		100
9.	Conical Flasks 50 ml, 100 ml	Pyrex Glass	100 each
10.	Cylinder 5ml, 10ml, 25ml, 50ml, 100 ml		50 each
11.	Desiccators with vacuum stopper		15
12.	Distillation head		24/29
13.	Dropping bottle 100ml		100
14.	Dropper		100
15.	Erlenmeyer flask		
16.	Filtering flask		
17.	Funnel 3" Diameter, 6" Diameter		100 each
18.	Fusion tube (local brand)		100 packets
19.	Fusion Tubes		5 packets
20.	Glass vials		20 dozens
21.	Iodine Flasks 100 ml, 250 ml		30, 20 respectively
22.	Measuring Flasks 50 ml, 100 ml, 250 ml, 500 ml, 1000 ml		50, 50, 10, 10, 10 respectively
23.	Petri Dishes		50
24.	Pipette 1 ml, 5 ml, 10 ml		10, 10, 50 respectively
25.	Pipette Filler bulb		200
26.	Receiving adapter		24/29
27.	Reflux condenser		5
28.	Round bottom flask quick fit 50 ml, 100ml, 250 ml	Pyrex	25 each
29.	Separating funnel 250 ml		50
30.	Separating funnel 500 ml		50
31.	Single bulb ball tube 24/29 size both sides 500 ml		5
32.	Specific Gravity Bottles 25 ml		100
33.	Stalagmometer		100
34.	Stirring rod		10
35.	Soxhlet Apparatus		
36.	Test tube small 3ml		100

37.	Test Tubes		500
38.	Thermometers 110°C, 360°C		20 each
39.	TLC Jars		10
40.	TLC tank length 2.5 feet, width 1.5 feet		2
41.	Two neck (R/B) flask 100ml 24/29		100
42.	Viscometers		100
43.	Volumetric flask 50 ml, 100 ml, 250 ml, 500 ml, 1000 ml 2000 ml		50, 100, 50, 50, 50, 25 respectively
44.	Watch Glass		100

TENDER DOCUMENT

DETAIL OF INSTRUMENT

Sr. No.	Item	Specification	Qty														
1.	Conductivity Meter	<p>Digital Bench Top Microprocessor Controlled with parallel temperature indication, Conductivity Range 0.0 us/cm to 500 ms/cm, Accuracy 0.5%, Temperature Range -5.0 to +99.9°C, Salinity 0.0-70.0, TDS 0-1999 mg/l, Reference Temperature 20 or 25°C Selectable with following accessories.</p> <p>a) Conductivity Electrode with built in Temperature Sensor b) Electrode Stand with Base c) Standard solution 50 ml</p> <p>Complete package Model Inolab Cond 7110/Set operated on 220 Volts WTW Made in Germany</p>	02														
2.	Magnetic Stirrer with Hot Plate	<p>Temperature range up to 370°C, Variable Speed Control upto 1200rpm Heating Plate Ø: 155mm, Stirring capacity: 15 liter Power: 630 Watt, with PTFE follower, operated on 220 volts, Model AREVelp, Made in Italy.</p>	05														
3.	Melting Point Apparatus	<p>Digital Model SMP20</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 60%;">Number of samples</td> <td>2</td> </tr> <tr> <td>Temperature range</td> <td>Ambient to 300°C</td> </tr> <tr> <td>Temperature accuracy at 300°C</td> <td>± 1.0°C at 20°C ± 2.5°C</td> </tr> <tr> <td>Display</td> <td>Four digit LED</td> </tr> <tr> <td>Display resolution</td> <td>0.1°C</td> </tr> <tr> <td>Ramp rates 20°C per minute to plateau</td> <td>Variable between 1 and 10°C per minute to melt</td> </tr> <tr> <td>Dimensions (w x d x h)</td> <td>160 x 220 x 170 mm</td> </tr> </table> <p>Complete unit with pack of 100 melting point tubes, closed at both ends, Model SMP20, Stuart England.</p>	Number of samples	2	Temperature range	Ambient to 300°C	Temperature accuracy at 300°C	± 1.0°C at 20°C ± 2.5°C	Display	Four digit LED	Display resolution	0.1°C	Ramp rates 20°C per minute to plateau	Variable between 1 and 10°C per minute to melt	Dimensions (w x d x h)	160 x 220 x 170 mm	01
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4.	pH Meter	<p>Digital Bench Model Microprocessor Controlled with parallel Temperature indication, PH Range - 2.0 to 20.0 ±0.1pH, pH Resolution 0.005pH, MV Range ±1200.0mV, Accuracy mV ±- 0.3mv, Automatic Temperature Compensation, Temperature Range -5 to +105.0°C, Temperature accuracy ±0.1°C with two/three point Calibration System, Battery operated as well as operated with 220 Volts Complete with following accessories:-</p>	02														

		<p>a) Black Electrode stand with base. b) Plastic Beaker 50 ml. c) 3MKCL Solution 50 ml. d) Calibration Standard solutions PH 4, 7 & 10 50ml each. e) pH Electrode precision Type with Built in Temperature Sensor. Complete Package Model Inolab PH 7110/Set WTW Made in Germany.</p>			
5.	Milli Q Water Deionizing System	<p>Dimensions (H x W x D)</p> <p>Operating weight</p> <p>Electric power supply voltage</p> <p>Electric power supply frequency</p> <p>Milli-Q® Integral main unit data connection</p> <p>Q-POD® & E-POD® dispensers</p> <p>Dimensions (H x D)</p> <p>Operating weight</p> <p>Dispenser tubing length</p> <p>Distance from production unit to Q-POD®</p> <p>Electric power cable length</p>	<p>500 x 332 x 484 mm (19.7 x 13.0 x 19.0 in)</p> <p>24 - 28 kg (52.9 - 61.7 lb)</p> <p>100 - 230 V +/- 10%</p> <p>50 - 60 Hz +/- 10%</p> <p>Ethernet (RJ45)</p> <p>579 x 230 mm (22.8 x 9.0 in)</p> <p>4.7 kg (12.1 lb)</p> <p>0.8 m (31.5 in)</p> <p>2.9 m (9.5 ft)</p> <p>2.9 m (9.5 ft)</p>	01	

		Q-POD® data connection	Parallel port (25-pin D-Sub)																														
6.	Buchi Rotavapor R-300	<p>Technical data</p> <table border="1"> <thead> <tr> <th colspan="2">Rotavapor® R-300</th> </tr> </thead> <tbody> <tr> <td>Dimension (WxHxD)</td> <td></td> </tr> <tr> <td>Instrument</td> <td>400 x 615 x 320 mm</td> </tr> <tr> <td>Shipping box</td> <td>700 x 605 x 590 mm</td> </tr> <tr> <td>Weight</td> <td>13.5 kg (electronic lift) 13.0 kg (manual lift)</td> </tr> <tr> <td>Connection voltage</td> <td>100 – 240 VAC</td> </tr> <tr> <td>Power consumption</td> <td>100 W</td> </tr> <tr> <td>Frequency</td> <td>50/60 Hz</td> </tr> <tr> <td>Protection class</td> <td>IP21</td> </tr> <tr> <td>Immersion angle adjustable</td> <td>40 °</td> </tr> <tr> <td>Stroke distance</td> <td>220 mm</td> </tr> <tr> <td>End stop position adjustment range</td> <td>170 mm (electronic lift) 100 mm (manual lift)</td> </tr> <tr> <td>Rotation speed</td> <td>10 – 280 rpm</td> </tr> <tr> <td>Maximum flask load</td> <td>3 kg</td> </tr> <tr> <td>Approvals</td> <td>CE, VDE</td> </tr> </tbody> </table>	Rotavapor® R-300		Dimension (WxHxD)		Instrument	400 x 615 x 320 mm	Shipping box	700 x 605 x 590 mm	Weight	13.5 kg (electronic lift) 13.0 kg (manual lift)	Connection voltage	100 – 240 VAC	Power consumption	100 W	Frequency	50/60 Hz	Protection class	IP21	Immersion angle adjustable	40 °	Stroke distance	220 mm	End stop position adjustment range	170 mm (electronic lift) 100 mm (manual lift)	Rotation speed	10 – 280 rpm	Maximum flask load	3 kg	Approvals	CE, VDE	01
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7.	Eppendorf Laboratory Shaker	bench-top / orbital / digital		01																													

Note: For all the Brands mentioned in this tender (if any), the term “or equivalent” is hereby added and shall be considered as per PPRA rules.

Certificate

1. We / I hereby confirm to have read carefully the terms & conditions of your Tender Enquiry dated for opening on ----- for the purchase of -----.
We agree to abide by all these terms & conditions/instructions.
2. Certified that the prices quoted against advertises tender dated-----are not more than the prices charged from any other purchasing Agencies in the country in the financial year ----- and in case of any discrepancy, we/I hereby undertake to refund the price charged in excess if and when asked to do so.
3. Certified that the prices quoted by our firm are inclusive of G.S.T and all taxes as per rules and regulations.

1. NAME OF FIRM-----
2. ADDRESS-----
3. INCOME TAX NO-----
4. SALE S TAX REGN NO-----
5. NAME OF TENDERER-----
6. NAME OF BANK AND A/C NO.-----
7. C.N.I.C NO.-----
8. SIGNATURE OF TENDERER -----
9. DATE AND STAMP -----

CRITERIA FOR TECHNICAL EVALUATION OF THE TENDER

The quotation /bid who secure 60% marks will qualify for the competition.

Sr. No.	Parameter	Weight age
1	Technical Specification of Product	45%
2.	Age of Company/Firm	10%
4.	Financial strength of the vender	15%
5.	H.R. Strength	05%
6.	On site back up support	10%
7.	Relevant experience	10%
8.	Certified Engineer	05%
<u>Total</u>		100%

TENDER DOCUMENT

TERMS & CONDITIONS

- i. Sealed bids are invited for the purchase of Chemicals, Glassware, Equipment's and Miscellaneous Lab. Items for the Institute of Chemical Sciences, B.Z. University Multan.
- ii. The interested bidders shall submit their bids under Single stage- two envelope procedures as defined by Govt. of Punjab Procurement Regulatory Authority.
- iii. The bidders will submit their bid in the two envelopes shall contain technical and financial proposals separately and clearly marked as "TECHNICAL PROPOSAL" & "FINANCIAL PROPOSAL" in bold letters. The financial proposal should accompany earnest money @5% of the Estimated Cost, in the form of call deposit in favor of the Treasurer, B.Z University Multan.
- iv. In the first stage, only the envelopes containing "TECHNICAL PROPOSAL" shall be opened in the presence of bidders (or their authorized representatives) who may like to attend the tender opening meeting.
- v. The "TECHNICAL PROPOSAL" shall be evaluated and no amendments in the "TECHNICAL PROPOSAL" permitted.
- vi. Financial bid will be opened after the completion of all codal formulation of evaluation of the Technical Bid on the date, and time which will be communicated to the bidders.
- vii. Financial bid will be opened for those bidders who submitted their Technical bids OR fulfill the Technical requirement in the presence of the bidders in case any bidder after written call will not be present at the time of opening due to any reason then any claim by him will not be accepted in future. Otherwise their Financial Bids shall be returned un-opened to the respective bidder.
- viii. Bahauddin Zakariya University, Multan reserves the right to drop any items given in the tender without assigning any reason and also reserves the right to reject any or all bids.
- ix. Sole distributor certificate (if any) should be attached with the bids.
- x. The quotations offering sub standard product can be screened out to ensure quality procurement of Chemicals, Glassware, Equipment's and Miscellaneous Lab. Items.
- xi. The rates will be valid up for 120-days from the date of opening the tender.
- xii. A University Inspection committee will inspect the Chemicals, Glassware, Equipment's and Miscellaneous Lab. Items and further will recommend for payment.
- xiii. The firm must attach photocopy of income tax and Sales Tax Registration with the quotation, otherwise quotation will not be accepted.
- xiv. Attached proforma/Certificate should invariable be filled and submitted with the quotation.
- xv. All bids should reach the office of Treasurer, Bahauddin Zakariya University, Multan on or before **15.06.2016 at 12:30 p.m.** The bids will be opened on the same date at **01:30 p.m.**
- xvi. Price of each item should be mentioned including GST/ all Taxes in Tender.
- xvii. The tender should be quoted on the basis of free delivery of Chemicals, Glassware, Equipment's and Miscellaneous Lab. Items at the Institute of Chemical Sciences, B.Z. University Campus.
- xviii. Quotation should be submitted in print output/typed condition preferably.
- xix. Conditional bid will not be accepted.

TREASURER
UAN. 111229988 Ext.1305