



# MEHRAN UNIVERSITY OF ENGINEERING AND TECHNOLOGY

JAMSHORO - 76062, SINDH, PAKISTAN

(ISO-9001)  
Certified

**Engr: Munir A. Shaikh**

B.E. (Mech), MBA (Finance), M.A. (Eco)

Director Finance

No. MUET/PS/021

Dated: 14<sup>th</sup> December, 2012

The Director (CB)  
Government of Sindh,  
Sindh Public Procurement Regularity Authority,  
General Administration & Coordination Department  
Sindh Secretariat, Karachi.

Subject: **BID EVALUATION REPORTS.**

Reference: Mehran University Tender hoisted on SPPRA web site on 21-11-12 at SPPRA Tender ID 10074/2012.

Dear Sir,

With reference to your above tender, please find enclosed Bid Evaluation Report of the Tender for the Procurement of Chemicals/Glassware under Pak-US joint Program for the Department of Chemical Engineering MUET Jamshoro; with request to kindly hoist same on SPPRA website at the earliest. A copy of same has also been hoisted on University's Website.

Best Regards,

*Munir A. Shaikh*  
Director Finance  
18/12


SPPRA INWARD ID: 4937  
MA  
Sindh Public Procurement  
Regularity Authority Govt of Sindh 24.12


## Bid Evaluation Report


1. Name of Procuring Agency: **MUET Jam, Under Pak-US joint Project**
2. Tender Reference No: **MUET/PS/018/11/12 of 19<sup>th</sup> November, 2012.**
3. Tender Description/Name of work/item: **Procurement of Chemicals/Glassware**
4. Method of Procurement: **Open Competitive Bidding (Single Stage One Envelop Procedure)**
5. Tender Published: **MUET website on 20-11-2012, SPPRA on 21-11-2012 vide SPPRA ID # 10074/2012.**  
*Print & Electronic Media (SPPRA ID No. & News papers names with dates)*
6. Total Bid documents Sold; **05 (Five)**
7. Total Bids Received: **05 (Five)**
8. Technical Bid Opening date: (if applicable) Not applicable *(Provide details in separate form)*
9. No. of Bid technically qualified (if applicable): Not applicable
10. Bid(s) Rejected: Not applicable
11. Financial Bid Opening date: **11-12-2012**

### 12. Bid Evaluation Report:

S No	Name of Firm or Bidder	Cost offered by the Bidder	Ranking in terms of cost	Comparison with Estimated cost	Reasons for acceptance/rejection	Remarks
0	1	2	3	4	5	6
1.	A					
2.	B	Comparative Statement showing all necessary information with technical recommendations required in this format is enclosed as <b>Annexure-A</b>				
3.	C					

  
Prof. Dr. M. Ali Shah  
Dept of Mining/Convener UPC  
BPS-21

  
Mr. Munir Ahmed Shaikh  
Director Finance / Member UPC  
BPS-20

  
Prof. Dr. M. Y. Khuhawar  
Nominee Chairperson,  
Dept of Chemical Engg  
BPS-22

  
Mr. Abdull Jalil Khan  
Add. Dir. MIS/Member UPC  
BPS-19

  
Mr. Mushtaq Ahmed Panhwar  
Purchase & Store Officer/Member UPC  
BPS-18

**Chemicals and Accessories for Water Research Laboratory of Chemical Engineering Department, Mehran UET, Jamshoro, Sindh**

Companies participated in Bid		Scientific Supplies (Pvt.) Ltd.				LABSCO Enterprises				Analytical Measuring Systems (Pvt.) Ltd.				Scientific Technical Corporation (Pvt.) Ltd.				CMS Technologies				
S#	Name of Item	Tender Quantity	Brand	Packing	price	Remarks	Brand	Packing	price	Remarks	Brand	Packing	price	Remarks	Brand	Packing	price	Remarks				
1	Sodium chloride	500g	Not given	500g	32181	Without brand not acceptable	Sigma Aldrich	500g	1300	Lowest	Sigma Aldrich	500g	3072	Higher	NQ	NQ	11Q	Higher	Sigma Aldrich	500g	3145	Higher
2	Potassium chloride	500g	Not given	500g	4744	Without brand not acceptable	Sigma Aldrich	500g	1400	Lowest	Sigma Aldrich	500g	4529	Higher	NQ	NQ	11Q	Higher	Sigma Aldrich	500g	4637	Higher
3	Cobalt (II)nitrate	500g	Not given	500g	37987	Without brand not acceptable	Sigma Aldrich	500g	5900	Lowest	Sigma Aldrich	500g	36260	Higher	NQ	NQ	11Q	Higher	Sigma Aldrich	500g	37123	Higher
4	Copper (II)chloride	500g	Not given	500g	7001	Without brand not acceptable	Sigma Aldrich	500g	2400	Lowest	Sigma Aldrich	500g	6682	Higher	NQ	NQ	11Q	Higher	Sigma Aldrich	500g	6841	Higher
5	Ferrous ammonium sulphate	500g	Not given	1kg	7498	Without brand not acceptable	Sigma Aldrich	500g	1600	Lowest	Sigma Aldrich	1kg	7157	Higher	NQ	NQ	11Q	Higher	Fluka	1kg	7328	Higher
6	Manganese (II)chloride	500g	Not given	500g	5242	Without brand not acceptable	Sigma Aldrich	500g	1800	Lowest	Sigma Aldrich	500g	5003	Higher	NQ	NQ	11Q	Higher	Aldrich	500g	5123	Higher
7	Ammonium molybdate	500g	Not given	500g	54426	Without brand not acceptable	LABSCAN	500g	12500	Lowest	Sigma Aldrich	500g	51953	Higher	NQ	NQ	11Q	Higher	Fluka	500g	53189	Higher
8	Silver nitrate	25g	Not given	100g	18850	Without brand not acceptable	Sigma Aldrich	25g	3600	Lowest	Sigma Aldrich	100g	17400	Higher	NQ	NQ	11Q	Higher	Sigma Aldrich	100g	18270	Higher
9	Aluminium chloride	500g	Not given	1kg	5291	Without brand not acceptable	Sigma Aldrich	500g	3950	Lowest	Sigma Aldrich	1kg	5049	Higher	NQ	NQ	11Q	Higher	Sigma Aldrich	1kg	5170	Higher
10	Chromium chloride	500g	Not given	500g	8360	Without brand not acceptable	Sigma Aldrich	500g	5900	Lowest	Sigma Aldrich	500g	7981	Higher	NQ	NQ	11Q	Higher	Sigma Aldrich	500g	81170	Higher
11	Magnesium chloride	500g	Not given	1kg	5323	Without brand not acceptable	Sigma Aldrich	500g	2200	Lowest	Sigma Aldrich	1kg	5082	Higher	NQ	NQ	11Q	Higher	Aldrich	1kg	5203	Higher
12	Nickel chloride	500g	Not given	500g	14480	Without brand not acceptable	Sigma Aldrich	500g	3500	Lowest	Sigma Aldrich	500g	13821	Higher	NQ	NQ	11Q	Higher	Sigma Aldrich	500g	14151	Higher
13	Calcium chloride	500g	Not given	1kg	8641	Without brand not acceptable	Sigma Aldrich	500g	1600	Lowest	Sigma Aldrich	1kg	8249	Higher	NQ	NQ	11Q	Higher	Sigma Aldrich	1kg	8445	Higher
14	Sodium nitrate	500g	Not given	500g	5374	Without brand not acceptable	Sigma Aldrich	500g	2600	Lowest	Sigma Aldrich	500g	5131	Higher	NQ	NQ	11Q	Higher	Sigma Aldrich	500g	5252	Higher


  
 Prof: Dr. Inam Bhatti.


  
 Prof: Dr. Khadija.


  
 Prof: Dr. M.Y. Khattar.

15 Zinc acetate	500g	Not given	500g	6403	Without Brand not acceptable	Sigma Aldrich	500g	3700	Lowest	Sigma Aldrich	500g	6112	Higher	NQ	NQ	NQ	FIQ	Sigma Aldrich	500g	6257	Higher
16 Arsenic (III) oxide	100g	Not given	NQ	NQ	Without Brand not acceptable	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	FIQ	NQ	NQ	NQ	NQ
17 Arsenic (V) oxide	100g	Not given	NQ	NQ	Without Brand not acceptable	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	FIQ	NQ	NQ	NQ	NQ
18 Tellurium chloride	500g	Not given	NQ	NQ	Without Brand not acceptable	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	FIQ	NQ	NQ	NQ	NQ
19 Tin (IV) chloride	500g	Not given	250g	8442	Without Brand not acceptable	Sigma Aldrich	500g	4500	Lowest	Aldrich	250g	8059	Higher	NQ	NQ	NQ	FIQ	Aldrich	250g	8250	Higher
20 Cadmium nitrate	500g	Not given	500g	20816	Without Brand not acceptable	Sigma Aldrich	500g	11700	Lowest	Sigma Aldrich	500g	19871	Higher	NQ	NQ	NQ	FIQ	Sigma Aldrich	500g	20344	Higher
21 Lead acetate	500g	Not given	1kg	14385	Without Brand not acceptable	Sigma Aldrich	500g	2200	Lowest	Sigma Aldrich	1kg	13712	Higher	NQ	NQ	NQ	FIQ	Sigma Aldrich	1kg	14038	Higher
22 Antimony (III) chloride	100g	Not given	100g	5887	Without Brand not acceptable	NQ	NQ	NQ	NQ	Sigma Aldrich	100g	5620	Higher	NQ	NQ	NQ	FIQ	Sigma Aldrich	100g	5754	Higher
23 Mercury nitrate	100g	Not given	50g	6452	Without Brand not acceptable	Sigma Aldrich	100g	7500	Lowest	Sigma Aldrich	50g	6158	Higher	NQ	NQ	NQ	FIQ	Sigma Aldrich	50g	6305	Higher
24 Strontium nitrate	100g	Not given	NQ	NQ	Without Brand not acceptable	Sigma Aldrich	100g	3500	Single bidder	NQ	NQ	NQ	NQ	NQ	NQ	NQ	FIQ	NQ	NQ	NQ	NQ
25 Sodium borohydride	500g	Not given	NQ	NQ	Without Brand not acceptable	Applichem Germany	500g	82500	Single bidder	NQ	NQ	NQ	NQ	NQ	NQ	NQ	FIQ	NQ	NQ	NQ	NQ
26 Hydrochloric acid	2.5 L	Not given	NQ	NQ	Without Brand not acceptable	LABSCAN	2.5 L	4200	Single bidder	NQ	NQ	NQ	NQ	NQ	NQ	NQ	FIQ	NQ	NQ	NQ	NQ
27 Nitric acid	2.5 L	Not given	NQ	NQ	Without Brand not acceptable	LABSCAN	2.5 L	2800	Single bidder	NQ	NQ	NQ	NQ	NQ	NQ	NQ	FIQ	NQ	NQ	NQ	NQ
28 Sulphuric acid	2.5 L	Not given	NQ	NQ	Without Brand not acceptable	Not given	2.5 L	4800	Single bidder	NQ	NQ	NQ	NQ	NQ	NQ	NQ	FIQ	NQ	NQ	NQ	NQ
29 Ethylene diamine tetra acetic acid (EDTA)	500g	Not given	500g	6618	Without Brand not acceptable	Sigma Aldrich	500g	2600	Lowest	Sigma Aldrich	500g	6316	Higher	NQ	NQ	NQ	FIQ	Sigma Aldrich	500g	6467	Higher
30 Methanol	2.5 X5L	Not given	2.5L	1044	Without Brand not acceptable	LABSCAN	2.5 L	850	Lowest	Sigma Aldrich	2.5L	3750	Higher	NQ	NQ	NQ	FIQ	Sigma Aldrich	2.5 L	928	Higher

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*Phub!*

31 Acetonitrile	1L	Not 2.5 given	4060	Without Brand not acceptable	LABSCAN	2.5 L	3750	Lowest	Sigma Aldrich	2.5L	3016	Higher	NQ	NQ	NQ	Sigma Aldrich	2.5L	3480	Higher
32 Tetrabhydrofuran	1L	Not 2.5 given	4060	Without Brand not acceptable	LABSCAN	2.5 L	3800	Lowest	Sigma Aldrich	2.5L	3167	Higher	NQ	NQ	NQ	Sigma Aldrich	2.5L	3480	Higher
33 Sodium acetate	500g	Not given	6950	Without Brand not acceptable	Sigma Aldrich	500g	1900	Lowest	Sigma Aldrich	500g	6633	Higher	NQ	NQ	NQ	Sigma Aldrich	500g	6791	Higher
34 Acetic acid	1L	Not 2.5 given	6960	Without Brand not acceptable	Glacia, Labscan, S.A	2.5L	1800	Lowest	Sigma Aldrich	2.5L	6112	Higher	NQ	NQ	NQ	Sigma Aldrich	2.5L	6257	Higher
35 Ammonium acetate	500g	Not given	5278	Without Brand not acceptable	Sigma Aldrich	500g	2900	Lowest	Sigma Aldrich	500g	4793	Higher	NQ	NQ	NQ	Sigma Aldrich	500g	5033	Higher
36 Boric acid	500g	Not given	5220	Without Brand not acceptable	Sigma Aldrich	1kg	1800	Lowest	Sigma Aldrich	1kg	4083	Higher	NQ	NQ	NQ	Sigma Aldrich	1kg	4287	Higher
37 Sodium tetra borate	500g	Not given	9953	Without Brand not acceptable	Sigma Aldrich	500g	2600	Lowest	Sigma Aldrich	2.5kg	9500	Higher	NQ	NQ	NQ	Sigma Aldrich	2.5kg	9727	Higher
38 Sodium bicarbonate	500g	Not given	3052	Without Brand not acceptable	Sigma Aldrich	1kg	1900	Lowest	Sigma Aldrich	1kg	2914	Higher	NQ	NQ	NQ	Sigma Aldrich	1kg	2982	Higher
39 Sodium carbonate	500g	Not given	3333	Without Brand not acceptable	Sigma Aldrich	500g	1800	Lowest	Sigma Aldrich	500g	3182	Higher	NQ	NQ	NQ	Sigma Aldrich	500g	3257	Higher
40 Ammonium chloride	500g	Not given	5191	Without Brand not acceptable	Applichem Germany	1kg	2600	Lowest	Sigma Aldrich	500g	4954	Higher	NQ	NQ	NQ	Sigma Aldrich	500g	5073	Higher
41 Bifan thrin	1g	Not given	12058	Without Brand not acceptable	NQ	NQ	NQ	NQ	Fluka	100mg	11511	Higher	NQ	NQ	NQ	Sigma Aldrich	1g	11784	Higher
42 Thiophanate	1g	Not given	37940	Without Brand not acceptable	NQ	NQ	NQ	NQ	Supelco	1000mg	36216	Higher	NQ	NQ	NQ	Sigma Aldrich	1000mg	37078	Higher
43 Difencanazole	1g	Not given	11527	Without Brand not acceptable	NQ	NQ	NQ	NQ	Fluka	250mg	11004	Higher	NQ	NQ	NQ	Sigma Aldrich	250mg	11266	Higher
44 Peconazole	1g	Not given	NQ	Without Brand not acceptable	NQ	NQ	NQ	NQ	NQ	NQ	NQ	Higher	NQ	NQ	NQ	NQ	NQ	NQ	NQ
45 Sodium dihydrogen phosphate	500g	Not given	6204	Without Brand not acceptable	Sigma Aldrich	1kg	2100	Lowest	Sigma Aldrich	1kg	5922	Higher	NQ	NQ	NQ	Sigma Aldrich	1kg	6063	Higher
46 Disodium hydrogen phosphate	500g	Not given	5706	Without Brand not acceptable	Sigma Aldrich	500g	2100	Lowest	Sigma Aldrich	1kg	5447	Higher	NQ	NQ	NQ	Sigma Aldrich	1kg	5576	Higher

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	P	Germany	Brand	rop	JENCONS, England	Lower and reputed	
20-200ul	1	Germany	Not reputed Brand	rop	JENCONS, England	1 11020	Higher
Universal Work Station	1	APP Germany	9150	Eppend rop	Switzerland	1 27260	Higher
Hot plate Magnetic stirrer 1500 rpm, 500°C	1	NQ	NQ	NQ	JENCONS, England	1 11020	Lower and reputed
	Coming	Korea (No company)	29500	Coming	Imported (No)	1 12017	Higher
					DAIHAN Korea	1 30740	Reputed brand

1. All chemicals quoted by LABSCO Enterprises are lowest and branded, item No. 1 to 51 quoted by LABSCO be ordered to provide
2. Item 51, Distillation Apparatus quoted by Scientific Technical Corporation (Pvt.) Ltd. is technically sound. And made by reputed company i.e. BMS Canada.
3. Item 53, Adjustable Volume micropipets with universal work station, quoted by Scientific Technical Corporation (Pvt.) Ltd. From JENCONS England are technically better with small difference of lowest bidder.
4. Item 54, Hot plate Magnetic Stirrer, quoted by Scientific Technical Corporation (Pvt.) Ltd. From DAIHAN Korea is technically better with small difference of lowest bidder.

Prof. Dr. M. Y. Khuhawar

*M. Y. Khuhawar*

Prof. Dr. Khadija Qureshi

*Khadija*

Dr. Inamullah Bhatti

*Inamullah Bhatti*

Chemicals and Accessories for Water Research Laboratory of Chemical Engineering Department, Mehran UET, Jeddah, Saudi

Companies participated in Bid			Scientific Supplies (Pvt.) Ltd.				LABSCO Enterprises				Analytical Measuring Systems (Pvt.) Ltd.				Scientific Technical Corporation (Pvt.) Ltd.				CMS Technologies			
S #	Name of Items	Tender Qty	Brand	Packing	price	Remarks	Brand	Packing	price	Remarks	Brand	Packing	price	Remarks	Brand	Packing	price	Remarks	Brand	Packing	price	Remarks
1	Sodium chloride	500g	Not given	500g	32181	Without brand not acceptable	Sigma Aldrich	500g	1300	Lowest	Sigma Aldrich	500g	3072	Higher	NQ	NQ	11Q		Sigma Aldrich	500g	3145	Higher
2	Potassium chloride	500g	Not given	500g	4744	Without brand not acceptable	Sigma Aldrich	500g	1400	Lowest	Sigma Aldrich	500g	4529	Higher	NQ	NQ	11Q		Sigma Aldrich	500g	4637	Higher
3	Cobalt (II)nitrate	500g	Not given	500g	37987	Without brand not acceptable	Sigma Aldrich	500g	5900	Lowest	Sigma Aldrich	500g	36260	Higher	NQ	NQ	11Q		Sigma Aldrich	500g	37123	Higher
4	Copper (I)chloride	500g	Not given	500g	7001	Without brand not acceptable	Sigma Aldrich	500g	2400	Lowest	Sigma Aldrich	500g	6682	Higher	NQ	NQ	11Q		Sigma Aldrich	500g	6841	Higher
5	Ferrous ammonium sulphate	500g	Not given	1kg	7498	Without brand not acceptable	Sigma Aldrich	500g	1600	Lowest	Sigma Aldrich	1kg	7157	Higher	NQ	NQ	11Q		Fluka	1kg	7328	Higher
6	Manganese (II)chloride	500g	Not given	500g	5242	Without brand not acceptable	Sigma Aldrich	500g	1800	Lowest	Sigma Aldrich	500g	5003	Higher	NQ	NQ	NQ		Aldrich	500g	5123	Higher
7	Ammonium molybdate	500g	Not given	500g	54426	Without brand not acceptable	LABSCAN	500g	12500	Lowest	Sigma Aldrich	500g	51953	Higher	NQ	NQ	NQ		Fluka	500g	53189	Higher
8	Silver nitrate	25g	Not given	100g	18850	Without brand not acceptable	Sigma Aldrich	25g	3600	Lowest	Sigma Aldrich	100g	17400	Higher	NQ	NQ	P.Q.		Sigma Aldrich	100g	18270	Higher
9	Aluminum chloride	500g	Not given	1kg	5291	Without brand not acceptable	Sigma Aldrich	500g	3950	Lowest	Sigma Aldrich	1kg	5049	Higher	NQ	NQ	NQ		Sigma Aldrich	1kg	5170	Higher
10	Chromium chloride	500g	Not given	500g	8360	Without brand not acceptable	Sigma Aldrich	500g	5900	Lowest	Sigma Aldrich	500g	7981	Higher	NQ	NQ	NQ		Sigma Aldrich	500g	81170	Higher
11	Magnesium chloride	500g	Not given	1kg	5323	Without brand not acceptable	Sigma Aldrich	500g	2200	Lowest	Sigma Aldrich	1kg	5082	Higher	NQ	NQ	NQ		Aldrich	1kg	5203	Higher
12	Nickel chloride	500g	Not given	500g	14480	Without brand not acceptable	Sigma Aldrich	500g	3500	Lowest	Sigma Aldrich	500g	13821	Higher	NQ	NQ	11Q		Sigma Aldrich	500g	14151	Higher
13	Calcium chloride	500g	Not given	1kg	8641	Without brand not acceptable	Sigma Aldrich	500g	1600	Lowest	Sigma Aldrich	1kg	8249	Higher	NQ	NQ	NQ		Sigma Aldrich	1kg	8445	Higher
14	Sodium nitrate	500g	Not given	500g	5374	Without brand not acceptable	Sigma Aldrich	500g	2600	Lowest	Sigma Aldrich	500g	5131	Higher	NQ	NQ	11Q		Sigma Aldrich	500g	5252	Higher

Prof: Dr. Inam Shalhi

Prof: Dr. Kludjia

Prof: Dr. M. Y. Klabon



15 Zinc acetate	500g	Not given	500g	6403	Without Brand not acceptable	Sigma Aldrich	500g	3700	Lowest	Sigma Aldrich	500g	6112	Higher	NQ	NQ	NQ	Sigma Aldrich	500g	6257	Higher
16 Arsenic (III) oxide	100g	Not given	NQ	NQ	Without Brand not acceptable	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ
17 Arsenic (V) oxide	100g	Not given	NQ	NQ	Without Brand not acceptable	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ
18 Tellurium chloride	500g	Not given	NQ	NQ	Without Brand not acceptable	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ
19 Tin (IV) chloride	500g	Not given	250g	8442	Without Brand not acceptable	Sigma Aldrich	500g	4500	Lowest	Aldrich	250g	8059	Higher	NQ	NQ	NQ	Aldrich	250g	8250	Higher
20 Cadmium nitrate	500g	Not given	500g	20816	Without Brand not acceptable	Sigma Aldrich	500g	11700	Lowest	Sigma Aldrich	500g	19871	Higher	NQ	NQ	NQ	Sigma Aldrich	500g	20344	Higher
21 Lead acetate	500g	Not given	1kg	14385	Without Brand not acceptable	Sigma Aldrich	500g	2200	Lowest	Sigma Aldrich	1kg	13712	Higher	NQ	NQ	NQ	Sigma Aldrich	1kg	14038	Higher
22 Antimony (III) chloride	100g	Not given	100g	5887	Without Brand not acceptable	NQ	NQ	NQ	NQ	Sigma Aldrich	100g	5620	Higher	NQ	NQ	NQ	Sigma Aldrich	100g	5754	Higher
23 Mercury nitrate	100g	Not given	50g	6452	Without Brand not acceptable	Sigma Aldrich	100g	7500	Lowest	Sigma Aldrich	50g	6158	Higher	NQ	NQ	NQ	Sigma Aldrich	50g	6305	Higher
24 Strontium nitrate	100g	Not given	NQ	NQ	Without Brand not acceptable	Sigma Aldrich	100g	3500	Single bidder	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ
25 Sodium borohydride	500g	Not given	NQ	NQ	Without Brand not acceptable	Applchem Germany	500g	82500	Single bidder	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ
26 Hydrochloric acid	2.5 L	Not given	NQ	NQ	Without Brand not acceptable	LABSCAN	2.5 L	4200	Single bidder	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ
27 Nitric acid	2.5 L	Not given	NQ	NQ	Without Brand not acceptable	LABSCAN	2.5 L	2800	Single bidder	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ
28 Sulfuric acid	2.5 L	Not given	NQ	NQ	Without Brand not acceptable	Not given	2.5 L	4800	Single bidder	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ
29 Ethylene diamine tetra acetic acid (EDTA)	500g	Not given	500g	6618	Without Brand not acceptable	Sigma Aldrich	500g	2600	Lowest	Sigma Aldrich	500g	6316	Higher	NQ	NQ	N 1	Sigma Aldrich	500g	6467	Higher
30 Methanol	2.5 XSL	Not given	2.5 L	1044	Without Brand not acceptable	LABSCAN	2.5 L	850	Lowest	Sigma Aldrich	2.5 L	3750	Higher	NQ	NQ	NQ	Sigma Aldrich	2.5 L	928	Higher

*PKS*

*Khurij*

*25/1/2017*

31 Acetonitrile	1L	Not 2.5 given L	4060	Without Brand not acceptable	LABSCAN	2.5 L	3750	Lowest	Sigma Aldrich	2.5L	3016	Higher	NQ	NQ	NQ	Sigma Aldrich	2.5L	3480	Higher
32 Tirabidofuran	1L	Not 2.5 given L	4050	Without Brand not acceptable	LABSCAN	2.5 L	3800	Lowest	Sigma Aldrich	2.5L	3167	Higher	NQ	NQ	HQ	Sigma Aldrich	2.5L	3480	Higher
33 Sodium acetate	500g	Not given	6950	Without Brand not acceptable	Sigma Aldrich	500g	1900	Lowest	Sigma Aldrich	500g	6633	Higher	NQ	NQ	NQ	Sigma Aldrich	500g	6791	Higher
34 Acetic acid	1L	Not 2.5 given	6960	Without Brand not acceptable	Glacia, Labscan, S.A	2.5L	1800	Lowest	Sigma Aldrich	2.5L	6112	Higher	NQ	NQ	HQ	Sigma Aldrich	2.5L	6257	Higher
35 Ammonium acetate	500g	Not given	5278	Without Brand not acceptable	Sigma Aldrich	500g	2900	Lowest	Sigma Aldrich	500g	4793	Higher	NQ	NQ	HQ	Sigma Aldrich	500g	5033	Higher
36 Boric acid	500g	Not given	5220	Without Brand not acceptable	Sigma Aldrich	500g	1800	Lowest	Sigma Aldrich	1kg	4083	Higher	NQ	NQ	HQ	Sigma Aldrich	1kg	4287	Higher
37 Sodium tetra borate	500g	Not given	9953	Without Brand not acceptable	Sigma Aldrich	500g	2600	Lowest	Sigma Aldrich	2.5kg	9500	Higher	NQ	NQ	HQ	Sigma Aldrich	2.5kg	9727	Higher
38 Sodium bicarbonate	500g	Not given	3052	Without Brand not acceptable	Sigma Aldrich	1kg	1900	Lowest	Sigma Aldrich	1kg	2914	Higher	NQ	NQ	HQ	Sigma Aldrich	1kg	2982	Higher
39 Sodium carbonate	500g	Not given	3333	Without Brand not acceptable	Sigma Aldrich	1kg	1800	Lowest	Sigma Aldrich	500g	3182	Higher	NQ	NQ	NQ	Sigma Aldrich	500g	3257	Higher
40 Ammonium chloride	500g	Not given	5191	Without Brand not acceptable	Applichem Germany	1kg	2600	Lowest	Sigma Aldrich	500g	4954	Higher	NQ	NQ	HQ	Sigma Aldrich	500g	5073	Higher
41 Bifan thrin	1g	Not given	12058	Without Brand not acceptable	NQ	NQ	NQ	NQ	Fulka	100mg	11511	Higher	NQ	NQ	NQ	Sigma Aldrich	1g	11784	Higher
42 Thiophanate	1g	Not given	37940	Without Brand not acceptable	NQ	NQ	NQ	NQ	Supelco	1000mg	36216	Higher	NQ	NQ	HQ	Sigma Aldrich	100mg	37078	Higher
43 Difencanate	1g	Not given	11527	Without Brand not acceptable	NQ	NQ	NQ	NQ	Fulka	250mg	11004	Higher	NQ	NQ	NQ	Sigma Aldrich	250mg	11266	Higher
44 Peconazole	1g	Not given	NQ	Without Brand not acceptable	NQ	NQ	NQ	NQ	NQ	NQ	NQ	Higher	NQ	NQ	NQ	NQ	NQ	NQ	NQ
45 Sodium dihydrogen phosphate	500g	Not given	6204	Without Brand not acceptable	Sigma Aldrich	500g	2100	Lowest	Sigma Aldrich	1kg	5922	Higher	NQ	NQ	NQ	Sigma Aldrich	1kg	6063	Higher
46 Disodium hydrogen phosphate	500g	Not given	5706	Without Brand not acceptable	Sigma Aldrich	500g	2100	Lowest	Sigma Aldrich	1kg	5447	Higher	NQ	NQ	HQ	Sigma Aldrich	1kg	5576	Higher

*[Handwritten signature]*

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*2 - split assay*

47	Erochrome Black T indicator (EBT)	10g	Not given	25g	4943	Without Brand not acceptable	Not given	10g	1900	Lowest	Sigma Aldrich	25g	4719	Higher	NQ	NQ	NQ	Sigma Aldrich	25g	4831	Higher		
48	Potassium dichromate	500g	Not given	500g	6104	Without Brand not acceptable	Sigma Aldrich	1kg	2400	Lowest	Sigma Aldrich	500g	5827	Higher	NQ	NQ	NQ	Sigma Aldrich	500g	5966	Higher		
49	Methyl orange	5g	Not given	25g	4030	Without Brand not acceptable	Sigma Aldrich	5g	1500	Lowest	Sigma Aldrich	25g	3847	Higher	NQ	NQ	N.I.	Sigma Aldrich	25g	3938	Higher		
50	Methyl iodide	50g	NQ	NQ	NQ	Without Brand not acceptable	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ		
51	Arsenic Kit (Merck 0.005-0.50mg/L)	3 No.	NQ	NQ	NQ	Without Brand not acceptable	Not given	3 No.	82560	Single bidder	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ		
52	Distillation Apparatus	1	NQ	NQ	NQ	Without Brand not acceptable	All Glass Favourite Malaysia	1	46500	reputed Brand	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ	NQ		
53	Adjustable Volume Micropipettes with universal work station	0.1-2ul	1	Eppendr p	1	62427	Highest	APP Germany	1	8950	Not reputed Brand	Eppendr rop	1	59589	Higher	Scorex Switzerland	1	27260	Higher	Eppendr p	1	61008	Higher
		0.5-10ul	1	Eppendr p	1	64876	Highest	APP Germany	1	8950	Not reputed Brand	Eppendr rop	1	61928	Higher	Scorex Switzerland	1	27260	Higher	Eppendr p	1	63402	Higher
		1-10ul	1	NQ	NQ	NQ	NQ	APP Germany	1	8950	Not reputed Brand	NQ	NQ	NQ	NQ	Scorex Switzerland	1	27260	Higher	NQ	NQ	NQ	
		2-20ul	1	Eppendr p	1	64876	Highest	APP Germany	1	8950	Not reputed Brand	Eppendr rop	1	61928	Higher	JENCONS, England	1	11020	Lower and reputed	Eppendr p	1	63402	Higher
		5-50ul	1	NQ	NQ	NQ	NQ	APP Germany	1	8950	Not reputed Brand	NQ	NQ	NQ	NQ	Scorex Switzerland	1	27260	Higher	NQ	NQ	NQ	
		10-100ul	1	Eppendr	1	64876	Highest	APP	9200	Not reputed	Eppendr	1	61928	Higher	Scorex Switzerland	1	27260	Higher	Eppendr	1	63402	Higher	

*W. J.*

*Khadji*

*25/11/2009*

20-200ul	1	Eppend/ P	1	64876	Highest	Germany	1	Not reputed	Eppend top	1	61928	Higher	JENCONS, Scoocer Switzerland JENCONS, England Imported (No)	1	11020	Lower and reputed	Eppendrop	1	63402	Higher	
Universal Work Station	1	NQ	NQ	NQ	NQ	Germany (No company)	1	NQ	NQ	NQ	NQ	NQ	DAIHAN Korea	1	30740	Reputed Brand	Comling	1	163482	Higher	
Hot plate Magnetic stirrer 1500 rpm, 500°C	1	Comung	1	167294	Highest	Korea (No company)	1	29500 reputed Brand	Comling	1	159680	Higher									

1 All chemicals quoted by LABSCO Enterprises are lowest and branded. Item No. 1 to 51 quoted by LABSCO Be ordered to provide.  
 2 Item 51, Distillation Apparatus quoted by Scientific Technical Corporation (Pvt.) Ltd. is technically sound. And made by reputed company i.e. BMS Canada.  
 3 Item 53, Adjustable Volume micropipets with universal work station, quoted by Scientific Technical Corporation (Pvt.) Ltd. From JENCONS England are technically better with small difference of lowest bidder.  
 4 Item 54, Hot plate Magnetic Stirrer, quoted by Scientific Technical Corporation (Pvt.) Ltd. From DAIHAN Korea is technically better with small difference of lowest bidder.

Prof. Dr. M. V. Khullawar

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