



GOVERNMENT COLLEGE UNIVERSITY FAISALABAD

TENDER DOCUMENT No. 585/45/2018

**SUPPLY OF CHEMICALS & GLASSWARE FOR OF DEPARTMENT OF CHEMICAL
ENGINEERING TECHNOLOGY, GCUF.**

Purchase Price: Rs. 500/-

Sealed Tenders are invited from the well reputed firms / suppliers, who are registered with Sales Tax and Income Tax Departments as Active Tax Payer for Supply of Chemicals & Glassware for Department of Chemical Engineering Technology, GCUF.

GENERAL TERMS & CONDITIONS

1. Tender Opening Date & Procedure:

The procurement shall be completed in accordance with Punjab Procurement Rules 2014, on **Single Stage – Two Envelope** Bidding Procedure. (Technical & financial proposal separately)

Bids in complete conformity with Tender Documents will be dropped in Tender Box placed at Procurement Department of the GCUF, not later than **10:00 Hrs on 27.12.2018** which shall be opened on same day at **10:30 Hours.**

Both Technical and financial proposal shall be written in the letter head of their company /firm along with other prescribed documents

Note: Tender Number must be mentioned on envelope.

2. Tender Fee, Bid Security and Performance Security:

The Bid must be accompanied by Tender Fee of Rs:500/- in shape of Call Deposit Receipt (CDR) in original and Bid Security of 2% of Estimated Price of Rs.975,055/- (refundable) in shape of Call Deposit Receipt (CDR) in original.

CDRs must be in favor of Treasurer, Government College University, Faisalabad. The rates / bids should be inclusive of all applicable Govt. Taxes.

3. Validity of Offers.

- i. Offers shall be valid for 180 days from the date of submission of bids.
- ii. Withdrawal / modification of the original offer within the validity period shall entitle the University to forfeit Bid Security.
- iii. Sales Tax Number and NTN Number must be mentioned on the letter head and bidding documents.

4. Failures and Terminations:

No offer of a supplier / firm will be considered if:-

- a) Bid received without Bid Security / Call Deposit or less CDR than the required.
- b) Bids received not in accordance with Tender Documents and Tender Notice.
- c) Bid received later than the date and time fixed for tender.
- d) Tender is incomplete in any respect or is unsigned.
- e) Offer is ambiguous and the offer is conditional.
- f) Offer from a firm which is black listed at any level.
- g) Any erasing / cutting / overwriting etc.
- h) The supplier fails to deliver the consignment within specified delivery period strictly in accordance with the terms and conditions as laid down in the Purchase Order.
- i) Situation warranted, then University is authorized to forfeit the bid Security and the firm may also be black listed.

5. Other special conditions

- I. The decision of the Vice Chancellor of Government College University, Faisalabad, would be final & binding on both the parties.
- II. The supplier/vendor shall submit company profile with financial status and experience record of dealing in relevant line of business.
- III. 10% performance security ,applicable on non consumable supplied items, shall be deducted from the final bill of the successful bidder as per PPRA Rules 2014 and shall be released on request after successful expiry of warranty period.
- IV. All Government Taxes & duties ie; 1/5th of total GST as well as income tax and stamp duty (if applicable) will be deducted according to applicable rules.
- V. The warranty period for the supplied items shall be declared minimum 364 days on final inspection of the Committee and end user. However, this warranty period may be extend if deemed necessary due to unavoidable circumstances.
- VI. Upon the successful supply, fixation, placing, installation, demonstration and inspection carried out by the end user/inspection committee. The successful bidder shall submit their invoice/requisite for request for payment with all necessary documents.
- VII. No partial/advance payment shall be made against partial supply.
- VIII. The unit rates and the price shall be quoted by the bidder in currency PKR (Pakistani Rupee).
- IX. LDC (Late delivery Charges) penalty shall be imposed @2% per month of delay upto maximum of 10% of total price.
- X. The University may reject all bids/proposals at any time prior to the acceptance of a bid or proposal as per PPRA Punjab rule 35, however upon bidder request the ground of rejection will be communicated to the concerned but no justification will be given as per PPRA rule 35 (2).

Muhammad Mazhar Waseem

Incharge Officer, Procurement & Inventory Control

Allama Iqbal Road Faisalabad, Phone: 041-9201468 & 9201030

ISSUED TO:

M/S-----

TENDER NOTICE No. 585/45 / 2018**SUPPLY OF CHEMICALS & GLASSWARE FOR DEPARTMENT OF CHEMICAL ENGINEERING
TECHNOLOGY, GCUF.**Annexure A-Chemicals

Sr#	Name of Chemical	Specifications	Qty.	Unit price including GST	Total Amount
1	Acetic Acid	CAS Number: 64-19-7 Linear Formula: CH ₃ CO ₂ H Molecular Weight: 60.05 Form: Liquid Purity: 99.5-100 % Grade: ACS reagent Company: Merck or Equivalent	5 ltr.		
2	Acetone	CAS Number: 67-64-1 Linear Formula: CH ₃ COCH ₃ Molecular Weight: 58.08 Assay: ≥99.5% Form: Liquid Grade: ACS reagent Company: Merck or Equivalent	5 ltr.		
3	Sodium Hydroxide	CAS Number: 1310-73-2 Formula: NaOH Molecular Weight: 40.00 Form: Flakes/Pallets Purity = 97 % Grade: ACS reagent Company: Merck or Equivalent	2 kg		

4	Potassium Hydroxide	CAS Number: 1310-58-3 Formula: HKO Molecular Weight: 56.11 g/mol Form: Pellets Grade: ACS reagent Company: Merck or Equivalent	2 kg		
5	Ammonium Hydroxide	28% NH3 in water Purity: 99.9 % Formula: H5NO Molecular Weight: 35.05 g/mol Form: Liquid Grade: ACS reagent Company: Merck or Equivalent	1kg		
6	Ammonium Oxalate monohydrate	CAS: 6009-70-7 Formula: (NH4)2C2O4·H2O Form: Crystal Purity: >99% w/v Molecular Weight: 142.11 Grade: ACS reagent Company: Merck or Equivalent	0.5 kg		
7	Ammonium Sulfate	CAS Number: 7783-20-2 Formula: H8N2O4S Molecular Weight: 132.14 g/mol Purity: 99-100 % Form: Powder or Crystals or Granules Grade: ACS reagent Company: Merck or Equivalent	1 kg		
8	Benzoic Acid	CAS Number: 65-85-0 Formula: C7H6O2 Formula Weight: 122.12 g/mol Form: Powder, Crystalline Purity: > 99.5 % Grade: ACS reagent Company: Merck or Equivalent	1 kg		

9	Cadmium Nitrate tetrahydrate	CAS 10022-68-1 Molecular Formula $\text{Cd}(\text{NO}_3)_2 \cdot 4\text{H}_2\text{O}$ Formula Weight: 308.47 Form: Crystals Grade: ACS reagent Company: Merck or Equivalent	0.5 kg		
10	Calcium Carbonate	CAS Number: 471-34-1 Formula: CaCO_3 Formula Weight: 100.09 g/mol Purity: 99% Form: Powder Grade: ACS reagent Company: Merck or Equivalent	1 kg		
11	Calcium Hydroxide	CAS: 1305-62-0 Form: Solid Molecular Formula: H_2CaO_2 Formula Weight: 74.09 Grade: ACS reagent Company: Merck or Equivalent	1 kg		
12	Distilled Water		100 ltr		
13	Ethanol	CAS Number: 64-17-5 Formula: $\text{C}_2\text{H}_6\text{O}$ Formula Weight: 46.07 g/mol Form: Liquid Pure Grade: ACS reagent Company: Merck or Equivalent	5 ltr.		
14	Ferrous Sulfate	CAS Number: 7782-63-0 Formula: $\text{FeO}_4\text{S} \cdot 7\text{H}_2\text{O}$ Formula Weight: 278.01 g/mol Form: Powder Purity: 99% Grade: ACS reagent Company: Merck or Equivalent	1 kg		

15	Hydrochloric acid	<p>CAS Number: 7647-01-0 Formula: HCl Formula Weight: 36.46 g/mol Form: Liquid Purity: 36.5 - 38.0 % Grade: ACS reagent Company: Merck or Equivalent</p>	10 ltr		
16	Iodine	<p>CAS Number: 7553-56-2 Formula: I2 Formula Weight: 253.81 g/mol Purity: 99.999% Form: Beads Grade: ACS reagent Company: Merck or Equivalent</p>	0.5 kg		
17	Lead (iv) Acetate	<p>CAS Number: 546-67-8 Formula: C8H12O8Pb Formula Weight: 443.38 g/mol Form: Powder, Crystals Lead Purity: 43.9 - 49.5 % Grade: ACS reagent Company: Merck or Equivalent</p>	0.5 kg		
18	Magnesium Sulfate	<p>CAS Number: 7487-88-9 Formula: MgSO4 Formula Weight: 120.37 g/mol Form: Powder Purity: > 99.5 % Grade: ACS reagent Company: Merck or Equivalent</p>	1 kg		

19	Methanol	CAS Number: 67-56-1 Formula: CH ₄ O Formula Weight: 32.04 g/mol Form: Liquid Purity: 99.9% Grade: ACS reagent Company: Merck or Equivalent	5 kg		
20	Methyl Orange	CAS Number: 547-58-0 Grade: ACS reagent Company: Merck or Equivalent	1 kg		
21	Mohr's Salt Ammonium iron(II) sulfate hexahydrate	CAS 7783-85-9 Molecular Formula H ₈ FeN ₂ O ₈ S ₂ ·6H ₂ O Formula Weight 392.14 Purity: 99+% Grade: ACS reagent Company: Merck or Equivalent	1 kg		
22	Nitric Acid	CAS Number: 7697-37-2 Formula: HNO ₃ Purity: 70% Grade: ACS reagent Company: Merck or Equivalent	2.5 kg		
23	Oxalic Acid dihydrate	CAS 6153-56-6 Form: Powder/Solid Molecular Formula C ₂ H ₂ O ₄ · 2 H ₂ O Formula Weight 126.07 Purity: 99.5% Grade: ACS reagent Company: Merck or Equivalent	1 kg		
24	Phenolphthalein	CAS Number: 77-09-8 Grade: ACS reagent Company: Merck or Equivalent	1 kg		

25	Potassium Bicarbonate	CAS Number: 298-14-6 Formula: CHKO_3 Formula Weight: 100.12 g/mol Form: Crystals, Granules Purity: 99.9 % Grade: ACS reagent Company: Merck or Equivalent	2 kg		
26	Potassium Carbonate	CAS Number: 584-08-7 Formula Weight: 138.21 g/mol Form: Powder Purity: > 99.0 % Grade: ACS reagent Company: Merck or Equivalent	2 kg		
27	Potassium Iodide	CAS Number: 7681-11-0 Formula: IK Formula Weight: 166.00 g/mol Form: Crystals Purity: > 99.0 % Grade: ACS reagent Company: Merck or Equivalent	1 kg		
28	Potassium Permanganate	CAS 7722-64-7 Form: Powder Purity: $\geq 99\%$ Molecular Formula: KMNO_4 Formula Weight: 158.03 Grade: ACS reagent Company: Merck or Equivalent	2 kg		
29	Silver Nitrate	CAS Number: 7761-88-8 Formula: AgNO_3 Molecular Weight: 169.87 g/mol Form: Powder Grade: ACS reagent Company: Merck or Equivalent	0.5 kg		

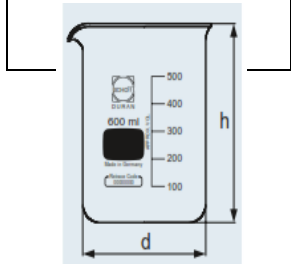
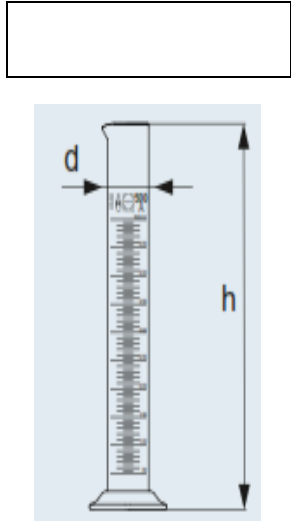
30	Sodium Bicarbonate	CAS Number: 144-55-8 Formula: CHNaO3 Formula Weight: 84.01 g/mol Form: Powder Purity: 99.9 % Grade: ACS reagent Company: Merck or Equivalent	2 kg		
31	Sodium Carbonate	CAS 497-19-8 Form: Solid Purity: ≥99.5% Molecular Formula: CNa2O3 Formula Weight: 105.99 Grade: ACS reagent Company: Merck or Equivalent	2 kg		
32	Sodium Chloride	CAS Number: 7647-14-5 Formula: CNa Formula Weight: 58.44 g/mol Form: Powder Purity: 99.9 % Grade: ACS reagent Company: Merck or Equivalent	2 kg		
33	Sodium Oxalate	CAS Number: 62-76-0 Formula: C2Na2O4 Formula Weight: 134.00 g/mol Form: Powder Purity: > 99 % Grade: ACS reagent Company: Merck or Equivalent	1 kg		
34	Sodium Sulfate	CAS: 7757-82-6 Form: Solid Purity: ≥99.0 % Molecular Formula: Na2O4S Formula Weight: 142.04 Grade: ACS reagent Company: Merck or Equivalent	1 kg		

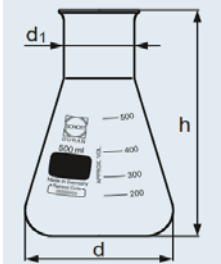
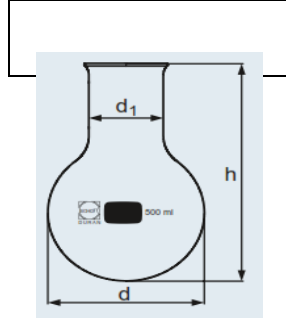
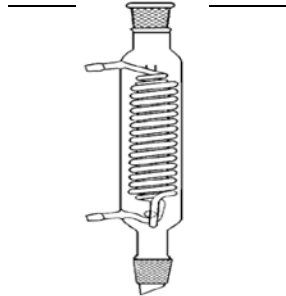
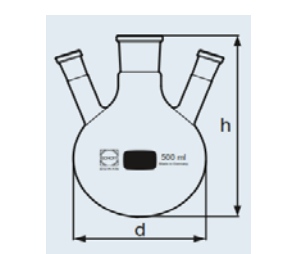
35	Sodium Thio-sulfate	CAS: 7772-98-7 Purity: ≥98 % Molecular Formula: Na ₂ O ₃ S ₂ Formula Weight: 158.11 Grade: ACS reagent Company: Merck or Equivalent	1 kg		
36	Starch	CAS: 9005-25-8, 64-19-7, 7732-18-5 Molecular Formula: (C ₆ H ₁₀ O ₅) _n Grade: ACS reagent Company: Merck or Equivalent	2 kg		
37	Succinic acid	CAS: 110-15-6 Purity: 99% Molecular Formula: C ₄ H ₆ O ₄ Formula Weight 118.09 Grade: ACS reagent Company: Merck or Equivalent	1 kg		
38	Copper nitrate trihydrate	CAS: 10031-43-3 Molecular Formula: CuH ₆ N ₂ O ₉ Formula Weight: 241.599 g/mol Grade: ACS reagent Company: Merck or Equivalent	1 kg		
39	Cobaltous Nitrate Hexahydrate	CAS: 10026-22-9 Molecular Formula: CoH ₁₂ N ₂ O ₁₂ Purity: 98.0 to 102.0% Molecular Weight: 291.031 g/mol Grade: ACS reagent Company: Merck or Equivalent	0.5 kg		





40	Zinc nitrate hexahydrate	CAS:10196-18-6 Molecular Formula: H ₁₂ N ₂ O ₁₂ Zn Formula Weight: 297.49 Grade: ACS reagent Company: Merck or Equivalent	0.5 kg		
41	Iron(III) nitrate nonahydrate	CAS: 7782-61-8 Molecular Formula FeH ₁₈ N ₃ O ₁₈ Molecular Weight: 403.992 g/mol Grade: ACS reagent Company: Merck or Equivalent	0.5 kg		
42	Nickel(II) nitrate hexahydrate	CAS: 13478-00-7 Molecular Formula: H ₁₂ N ₂ NiO ₁₂ Molecular Weight: 290.791 g/mol Grade: ACS reagent Company: Merck or Equivalent	0.5 kg		
43	Manganese(II) nitrate tetrahydrate	CAS: 20694-39-7 Molecular Formula: H ₈ MnN ₂ O ₁₀ Molecular Weight: 251.006 g/mol Grade: ACS reagent Company: Merck or Equivalent	0.5 kg		
44	Silica oxide	CAS: 7631-86-9 Molecular Formula: O ₂ Si Molecular Weight: 60.083 g/mol Grade: ACS reagent Company: Merck or Equivalent	0.5 kg		
45	Aluminium oxide	CAS: 1344-28-1 Molecular Formula: Al ₂ O ₃ Molecular Weight:101.96 g/mol Grade: ACS reagent Company: Merck or Equivalent	1 kg		


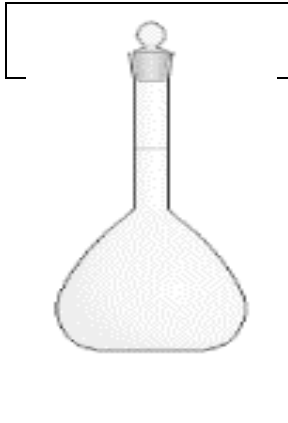
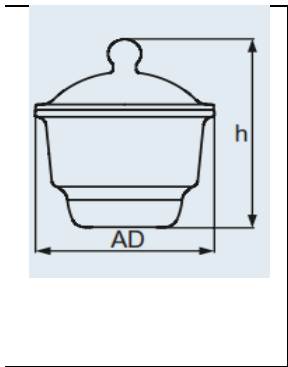
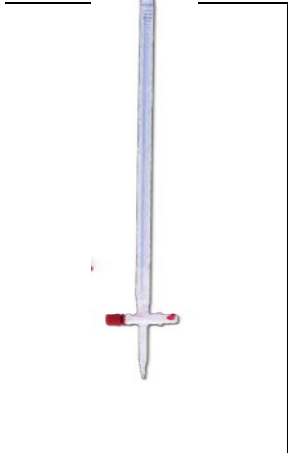
46	Poly ethylene glycol	CAS: 25322-68-3 Molecular Formula: 600 g/mol Grade: ACS reagent Company: Merck or Equivalent	1 kg		
47	Buffer Solution for pH meter Calibration	pH: 4, 7, 10 Company: Any	250 ml		
48	Potassium Chloride	CAS: 7447-40-7 Molecular Formula: KCl Molecular Weight: 74.55 g/mol Grade: ACS reagent Company: Merck or Equivalent	500 g		
49	Buffer Solution for conductivity meter Calibration	Conductivity: 1413 and 12880 μ S	250 ml		
50	Sulfuric Acid	CAS Number: 7664-93-9 Formula: H ₂ O ₄ S Formula Weight: 98.08 g/mol Form: Viscous Liquid Purity: 95.0 - 98.0 % Grade: ACS reagent Company: Merck or Equivalent	10 ltr.		
	Total				





Annexure B-Glassware


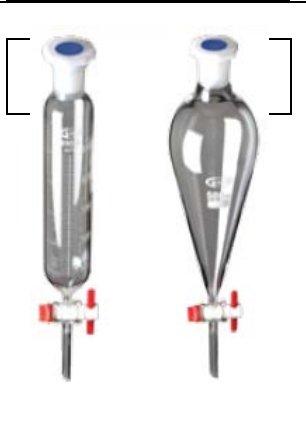
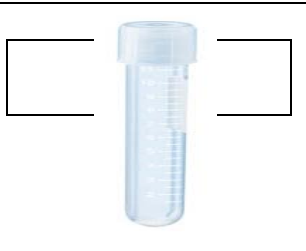


Sr#	Item/ Appratus	Capacity	Specifications	Qty.	Diagram	Price/unit GST added	Total Price
1	Glass Beaker	50 ml	$d \times h = 40 \times 55$ (mm) $d \times h = 50 \times 70$ (mm) $d \times h = 70 \times 95$ (mm) $d \times h = 80 \times 120$ (mm) $d \times h = 105 \times 145$ (mm) d = diameter h = height Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer Country = Germany) OR EQUIVALENT	15			
		100 ml		35			
		250 ml		10			
		500 ml		10			
		1000 ml		5			
2	Graduated Cylinder	10 ml	$d \times h = 14 \times 137$ (mm) Accuracy limits = ± 0.25 mL Gradation Division = 0.5 mL	10			
		50 ml	$d \times h = 25 \times 196$ (mm) Accuracy limits = ± 0.5 mL Gradation Division = 1 mL	30			
		100 ml	$d \times h = 29 \times 256$ (mm) Accuracy limits = ± 0.5 mL Gradation Division = 1 mL	20			
		250 ml	$d \times h = 39 \times 331$ (mm) Accuracy limits = ± 0.5 mL Gradation Division = 2 mL d = diameter h = height Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer Country = Germany) OR EQUIVALENT	5			
3	Erlenmeyer Flask	100 ml	Wide Neck $d \times d_1 \times h = 64 \times 34 \times 105$ (mm)	50			
		250 ml	Wide Neck $d \times d_1 \times h = 85 \times 50 \times 140$ (mm)	10			

		500 ml	<p>Wide Neck $d \times d_1 \times h = 105 \times 50 \times 175$ (mm) d, d1 = diameter h = height Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer Country = Germany) OR EQUIVALENT</p>	5			
4	Round Bottom Flask	500 ml	<p>$d \times d_1 \times h = 105 \times 34 \times 168$ (mm) Socket Size 29/32 d, d1 = diameter h = height Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer Country = Germany) OR EQUIVALENT</p>	3			
		100 ml	<p>$d \times d_1 \times h = 64 \times 26 \times 110$ (mm) Socket Size 29/32</p>	20			
		250 ml	<p>$d \times d_1 \times h = 85 \times 34 \times 144$ (mm) Socket Size 29/32</p>	10			
5	Coil Condenser (Graham)		<p>Effective Length = 250 mm Cone Size 24/29 Socket Size 24/29 Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer Country = Germany) OR EQUIVALENT</p>	1			
6	Three Neck Round Bottom Flask	250 ml	<p>$d \times h = 85 \times 105$ (mm) Centre Neck NS 24/29 Side Neck NS 14/23 d = diameter h = height Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer Country = Germany) OR EQUIVALENT</p>	2			

7	Hollow Glass Stopper		<p>Hexagonal Head Hollow Cone Size 24/29 Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer) Country = Germany) OR EQUIVALENT</p>	20			
8	Dropping funnel	50 ml	<p>Dropping funnel cylindrical with equalizing arm and PTFE stopcock Cone Size 24/29 Socket Size 24/29 Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer) Country = Germany) OR EQUIVALENT</p>	10			
21				10			
9	Petri Dish		<p>Shape: Circled×h = 60×15 (mm)d×h = 100×20 (mm)d = diameterh = heightMaterial = Borosilicate glass(pyrax German made)(Brand = ThomasFischerCountry = Germany)OR EQUIVALENT</p>	10			
10	Glass Rod		<p>Dia 200mm Length 8 inch Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer) Country = Germany) OR EQUIVALENT</p>	10			

11	Filter Funnel		<p>Glass Long Stem Funnel 60 degree angle Stem length = 150mm Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer Country = Germany) OR EQUIVALENT</p>	10			
12	Volumetric Flask with PE corck	50 ml	Socket 12/21	10			
		250 ml	Socket 14/23	10			
		500 ml	Socket 19/26	10			
		1000 ml	Socket 24/29	10			
		2000 ml	Socket 24/29	3			
		5000 ml	<p>Socket 24/29 Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer Country = Germany) OR EQUIVALENT</p>	2			
13	Desiccator		<p>Height h = 309 mm ID Flange = 224 mm OD Flange = 270 ± 2 Approx. Volume = 5.8 L Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer Country = Germany) OR EQUIVALENT</p>	2			
14	Burette		<p>Class A PTFE key stopcock Schellbach stripe Serialized and certified Capacity = 100 ml Graduation = 1 ml Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer Country = Germany) OR EQUIVALENT</p>	20			

15	Glass dropper		<p>With Rubber Pump Material = Borosilicate glass (pyrax German made) Brand = Local Country = Local</p>	10			
16	Philip Beaker	100 ml	d×h = 55×80 (mm)	15			
		250 ml	d×h = 68×105 (mm)	10			
		500 ml	<p>d×h = 86×142 (mm) d = diameter h = height Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer Country = Germany) OR EQUIVALENT</p>	5			
17	Vaccum Filtering Flasks, with Side Tubulation (ID 3/8 inch)	125 ml	diameter = 68 mm Height = 105 mm	5			
		500 ml	diameter = 104 mm Height = 190 mm	15			
		1000 ml	diameter = 135 mm Height = 238 mm Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer Country = Germany) OR EQUIVALENT	2			
18	Pipettes with rubber pump	5 ml	<p>Tolerance = 0.2-0.3 mm Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer Country = Germany) OR EQUIVALENT</p>	10			
		10 ml		20			
		25 ml		5			

19	Glass Powder Funnel		diameter = 100 mm cone size = 29/32 Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer Country = Germany) OR EQUIVALENT	5				
20	Separating Funnels	500 ml	stopper size = 29/32 bore = 4 mm	5				
		1000 ml	stopper size = 29/32 bore = 6 mm	10				
		2000 ml	stopper size = 29/32 bore = 6 mm Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer Country = Germany) OR EQUIVALENT	2				
21	Centrifuge Tubes	10ml	Clinical centrifuge tubes Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer Country = Germany) OR EQUIVALENT	18				
		15ml		18				
22	Filter Gooch Crucibles with Sintered Disc	50 ml	porosity = 2, 4, 8 Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer Country = Germany) OR EQUIVALENT	10				
23	Glass Test Tubes	10 ml	Material = Borosilicate glass (pyrax German made) (Brand = ThomasFischer Country = Germany) OR EQUIVALENT	50				
Total								

Price/Rates shall be quoted on Firm's letter head pad and all tender documents shall be typed/computerized with date except signature of the authorized person of firm.

Details of Call Deposit Receipt (CDR)

Signature _____

No _____ **Amount** _____

Name of Bidder _____

Bank _____ **Branch** _____ **City** _____

CNIC No _____

Name of the Firm & Address _____ **Ph No** _____

N.T.No. _____ **Sales Tax No.** _____

Issued By:

Muhammad Mazhar Waseem
Incharge Officer, Procurement & Inventory Control
Allama Iqbal Road Faisalabad, Phone: 041-9201468 & 9201030