

Tender Document

Supply of Lab Equipment and Chemicals



COMSATS University Islamabad
Park Road, Islamabad

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1. Tender Notice

COMSATS University Islamabad CUI-Proc/(TN-453)/02/2024

Supply of Lab Equipment and Chemicals

1. COMSATS University Islamabad (CUI), a Public Sector University invites Bids through e-Pak Acquisition & Disposal System (EPADS) <https://eprocure.gov.pk> on “**Single-Stage Two-Envelope**” method from Income Tax & GST registered Firms/Companies who are on the Active Taxpayer List (ATL) for General Sales Tax and Income Tax of FBR for **Supply of Lab Equipment and Chemicals**.
2. The Bid Security for the Bid is **Rs.60,000/-** in the form of Call Deposit/Bank Draft (refundable) drawn in favor of “COMSATS University Islamabad” (FTN/NTN: 9013701-9); scanned copy of which is required to be uploaded through EPADS and hard copy must be submitted physically along with hard-copy of sealed bidding document on the closing date of the tender to COMSATS University Islamabad on the address given below.
3. The complete Tendering process shall be carried out through EPADS.
4. Interested bidders are requested to register themselves on the (EPADS) <https://eprocure.gov.pk/#/supplier/registration> and submit their tender documents.
5. For registration and guidance/training on EPADS, you may contact EPADS UAN: 051-111-137-237.
6. Closing date of submission is **February 13, 2024** by **1100 hours**. The bids shall be opened **half hour after the closing time** in the presence of the bidders who wish to be present, in Room No. G-6/G-8, Ground Floor, Faculty Block-I, COMSATS University Islamabad.
7. As per PPRA Rule 33, CUI may reject all bids or proposals at any time prior to the acceptance of a bid or proposal.

Contact Person and Submission



In-Charge Procurement

COMSATS University Islamabad

2nd Floor, Faculty Block-II, Park Road, Tarlai Kalan, Islamabad,

Tel: 0336-5524334, 051-90495242, 051-9049-5154, 051-9049-5122

Email: wajidkamran@comsats.edu.pk

2. General Terms & Conditions of the Tender

- i. No tender/bid shall be considered if:-
 - a) Not uploaded through EPADS;
 - b) Received without required documentation or deficiency in required documentation;
 - c) Received without bid security;
 - d) In contradiction with the specification given by the CUI;
 - e) Received with any condition;
 - f) The bidder is in litigation with CUI or is blacklisted by any organization or is notified as blacklisted on PPRA website.

3. Contact person and Submission of Bids:

- i. Contact Person for all inquiries, clarifications and bid submission shall be:

Senior Program Officer
COMSATS University Islamabad
3rd Floor, Faculty Block-II, Park Road, Tarlai Kalan, Islamabad,
Tel: 051- 9049-5060, 051-9049-5415
Email: m.qasim@comsats.edu.pk

4. Validity of Bids:

- i. The Bid shall remain valid for a period of **60 Days**, from the date of closing as notified in the tender notice.
- ii. Any bidder/firm/ company which refuses to accept the Work Order based on market price escalation shall result in forfeiting the bid security. CUI may also impose a ban from business with it for a period of 6 months.

5. Price of the Bid:

- i. Prices quoted by the Bidder shall be fixed during the period of the contract and not subject to variation on any account.
- ii. Applicable Income tax and GST shall be deducted at source and as per rules. In case of exemption, please mention and attach proper documentation duly verified from the concerned tax authorities. However, CUI may accept the exemption certificate. In case of non-acceptance, CUI shall deduct all applicable taxes as per tax rate. CUI shall provide a certificate of tax deduction and the vendor may claim refunds from Tax Authorities/FBR.
- iii. In the case of tie in rates of the bidders, award of contract shall be decided through balloting in the presence of the of the bidders.

- iv. Unit price shall be taken up to 1 decimal point. The total cost shall be round-up to zero decimal.
- v. In case of any conflict in the price/cost quoted by the bidder, the unit cost (Exclusive of GST) quoted by the bidder shall be considered for calculation.
- vi. In case GST is not mentioned, the prices shall be considered as inclusive of GST.

6. Bid Currencies & Bid Security:

- i. Bid prices shall be quoted in Pak Rupees.
- ii. The currency of the Bid Security shall also be in Pak Rupees.
- iii. The Bidder shall furnish, as part of its bid, a bid security as specified in the tender notice. The bid security is required to protect CUI against the risk of Bidder's default which would warrant the security's forfeiture.
- iv. The Bid Security shall be in favor of **COMSATS University Islamabad (FTN/NTN: 9013701-9)**, in any of the following form:
 - a. Bank Draft / Pay Order
- v. Scanned copy of bid security is required to be uploaded through EPADS and hard copy must be submitted physically on the closing date of the tender to COMSATS University Islamabad on the address given in the tender notice.
- vi. No personal cheques shall be acceptable at any cost. Also, any previous bid security shall not be considered or carried forward.
- vii. The Bid security found deficient of the required amount shall not be considered.
- viii. The bid security of the bidder shall be forfeited if the bidder requests for withdrawal of his bid during the evaluation process.
- ix. Unsuccessful bidders' bid security shall be released and returned promptly as the successful bidder gives consent to the work order or signs the contract agreement, whichever is applicable.
- x. The successful Bidder's bid security shall be retained till the **duration of the contract**.
- xi. The bid security of the successful bidder shall be forfeited:
 - a. If the successful bidder fails to accept the work order/sign the contract agreement after announced as successful Bidder.
 - b. If the successful bidder does not accept the correction of arithmetic errors in its bid.
 - c. If the successful Bidder fails to comply with the requirement of the bid and contract.

7. Clarification of Bidding Document:

- i. During evaluation of the bid(s), CUI may, at its discretion, ask the Bidder for a clarification of its bid and such information imperative for evaluation. The request for clarification and the response shall be in writing, and no change in the prices or substance of the bid shall be sought, offered, or permitted. In case the bidder fails to respond within given deadline, the bidder shall be considered as non-responsive and shall be disqualified from the bidding process.

8. Opening of Bids:

- i. CUI shall open all bids through E-PADS at the time, date, and place specified in tender notice, in presence of bidders' representatives who wish to attend the meeting and shall sign an attendance sheet in evidence of their presence.

9. Influencing the evaluation process:

- i. No Bidder shall contact CUI on any matter relating evaluation of its bid, from the time of bid opening to the time evaluation report is made public. If the Bidder wishes to bring additional information or has a grievance to submit, it should do so through EPADS.
- ii. Any effort by a Bidder to influence CUI during bid evaluation may result in disqualification of the bid.

10. Notification of Evaluation Reports:

- i. The evaluation report shall be notified through EPADS.

11. Qualification & Evaluation of Bids:

- i. CUI shall determine whether the Bidder is qualified to perform the Contract satisfactorily, in accordance with the criteria & qualification specified in the tender document.
- ii. The qualification shall be based upon an examination of the documentary evidence submitted by the Bidder, as well as such other information as CUI deem necessary and appropriate.
- iii. CUI shall technically evaluate and compare the bids which have been determined to be substantially responsive, as per evaluation criteria given in the tender document.
- iv. The bidder's financial evaluation of a bid shall be based on the lowest evaluated bid inclusive of all prevailing taxes and duties.
- v. CUI shall examine the bids as whether:
 - a) They are complete in all respect;

- b) Any computational errors have been made.
 - c) Required financial sureties have been furnished.
 - d) The documents have been properly signed.
- vi. Arithmetical errors shall be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price (exclusive of tax) shall prevail, and the total price shall be corrected. If the Contractor does not accept the correction of the errors, the bid shall be rejected, and the bid security shall be forfeited. If there is a discrepancy between words and figures, the amount in words shall prevail.
- vii. CUI may waive any minor informality / nonconformity, in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder.
- a. *Explanation: A minor informality/ non-conformity is one that is merely a matter of form and not of substance. It also pertains to some immaterial defect in a Bid or variation of a bid from the exact requirements of the invitation that can be corrected or waived without being prejudicial to other bidders. The defect or variation is immaterial when the effect on quantity, quality, or delivery is negligible when contrasted with the total cost or scope of the supplies or services being acquired. CUI either shall give the bidder an opportunity to cure any deficiency resulting from a minor informality / non-conformity in a bid or waive the deficiency, whichever is advantageous to CUI.*
- viii. Prior to the detailed evaluation, CUI shall determine the substantial responsiveness of each bid to the bidding documents. For the purposes of these clauses, a substantially responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations.
- ix. Deviations from, or objections or reservations to critical provisions, such as those concerning Bid Security, Applicable Law and Taxes and Duties shall be deemed to be a material deviation. The CUI 's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
- x. If a bid is not substantially responsive, it shall be rejected and may not subsequently be made responsive by the Bidder by correction of the nonconformity.

12. Corrupt or Fraudulent Practices & Blacklisting:

- i. CUI requires that Bidders observe the highest standard of ethics during the procurement and execution of contracts. For the purposes of this provision, the terms set forth below are defined as follows:

- a. "Corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and
 - b. "Fraudulent practice" means a misrepresentation of facts to influence a procurement process or the execution of a contract to the detriment of CUI,
 - c. "Collusive practice" is an arrangement among bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels for any wrongful gains, and to deprive CUI of the benefits of free and open competition.
- ii. CUI shall have the right to reject a proposal for award if it determines that the bidder has been engaged in corrupt or fraudulent practices in the past with any organization.
 - iii. Any bidder/firm/company which is blacklisted by any organization and/or notified as blacklisted by PPRA shall be considered disqualified from the bidding process unless and until it is de-notified on PPRA website.
 - iv. CUI shall sanction/ban a bidder/firm/company, in accordance with prevailing Blacklisting procedures under Federal Public Procurement Rules, if it at any time determines that the firm has engaged in corrupt, fraudulent or collusive practices in competing for, or in executing.

13. Right to Accept or Reject All Bids:

- i. CUI reserves the right to accept or reject all bids, and to annul the bidding process at any time prior to contract award, without thereby incurring any liability to the bidder(s) or any obligation to inform the bidder(s) of the grounds for the CUI 's action.

14. Award of Contract:

- i. After scrutiny of all bidding documents, the final evaluation report will be uploaded to EPADS and the work order/purchase order shall be issued on the basis of most advantageous bid on **"Item-Wise"** via EPADS.
- ii. The successful bidder shall immediately sign a contract agreement / give consent to the Work Order/Purchase Order. The bidder shall bear all the stamp duties and expenses for the purpose of contract agreement/Work Order/Purchase Order, if any.

15. Notification of Award:

- i. The notification of award shall constitute the formation of the Agreement/Work Order/Purchase Order.

- ii. Upon the successful bidder's signing the contract agreement/acceptance/consent to the Work Order/Purchase Order.

16. Delivery Information:

- i. The Supply shall be made to CUI within **25 days** of the **Issuance of Purchase order**.
- ii. Payment shall be made as per actual quantity provided & accepted.
- iii. In case of delay in delivery, the vendor may submit a written request for extension in delivery, giving valid justification with proof. The following decision can be made by CUI.
 - a. CUI may extend the delivery time according to the nature and urgency of the procurement with the condition of deductions in percentage (0% to 10%) from the total bill. The decision shall be communicated to the vendor for extension along with [percentage of deduction, if any]. In case of non-responsiveness/non-acceptance by the vendor, the work order shall automatically be cancelled, the bid security shall be forfeited. CUI may also impose a ban from business with it for a minimum of 6 months to a maximum duration to be determined by CUI.
 - b. CUI may reject the request, in which case, the work order shall be cancelled, the bid security shall be forfeited. CUI may also impose a ban from business with CUI for a minimum of 6 months to a maximum duration to be determined by CUI. CUI shall be the final authority for decision of acceptance or rejection.
- iv. It shall be the responsibility of vendor to make delivery as per Work Order directly to the [**Store Section entry through Gate 1, behind Main Library Building. The Store (Mr. Waheed 051-9049-6035)**] may be informed one day prior to delivery for proper arrangements and entry. [A proper delivery challan from store is the sole responsibility of the vendor]
- v. The bills along with delivery challan (duly signed by concerned store or P.I) shall be submitted to the Procurement Office for processing of Receipt & Inspection and payment. Any deficiency in documentation shall be removed by the vendor.
- vi. Any defective/sub-standard item(s) shall be replaced by the bidder, free of cost, within one-week is time. In case of failure to supply the specific item, CUI shall request next lowest bidder/other bidders to provide the item and the cost of that particular item(s) shall be deducted from the bidder's bid security i.e., the bidder shall be responsible to compensate for CUI losses AND Purchase Order would stand cancelled AND/OR bid security shall be forfeited AND/OR CUI may impose penalty and/or ban on the bidder.

- vii. Samples are mandatory where specifically demanded and bid without samples shall be considered non-responsive. No samples shall be accepted after the closing date. Sample of other than the demanded item(s) shall not be considered.
- viii. In case of samples, the sample(s) provided by the bidder shall be compared to CUI approved samples.
- ix. After technical evaluation of bids, sample(s) provided by bidders should be picked up from store section within 30 days from the date of technical bid evaluation announcement. In case of no response from the bidder within the deadline, the samples shall be discarded, and CUI shall have no liability.

17. Legal Document

- i. The Tender document and Contract agreement/Work Order/Purchase Order together are the legal documents and all the terms and conditions, criteria, qualification is a legal binding on all bidders.

18. Declaration Form

(THIS FORM IS TO BE PROVIDED WITH THE BID)

All the terms & conditions have been carefully read and understood and are hereby unconditionally accepted and it is declared that:

I understand that by inserting any condition in my bid consciously or unconsciously shall AUTOMATICALLY disqualify me from the bidding process.

By altering/adding/deleting any point, clause, condition in the documents provided shall automatically disqualify me from the bidding process.

All the information furnished by me/us here-in is correct.

I / We have no objection if enquiries are made about the work listed by me/us in the accompanying sheets /annexure.

I / We agree that the decision of committee(s) in selection shall be final and binding to me/ us.

I / We have read the instructions appended to the proforma and I/we understand that if any false information in the documents is noticed at a later stage, the committee is at liberty to act in a manner it feels deemed fit, which may include Penalty AND/OR forfeiting of bid security AND/OR blacklisting for future tendering with CUI AND/OR bar from business with CUI for a period as deemed appropriate depending on nature of offence.

Tender Title	
Name of Firm/ Company	
Year of Establishment in this business	
Name of Authorized agent	
Office Address	
GST No.	
NTN.	
Valid Cell No.	
Valid E-mail (For all official correspondence)	
Signature & Stamp (Authorized Representative)	

19. Technical Evaluation Criteria:

Table 1: Mandatory Requirements:

Detail	Criteria	Envelope
1. Financial Bid / Quotation (Strictly as per CUI pattern) <i>Any alteration/addition/deletion will dis-qualify the bidder from the bidding process</i>	Mandatory	Financial Bid
2. Draft of Earnest Money (Separate Envelope)	Mandatory	Technical Bid
3. Declaration Form	Mandatory	
4. GST and NTN Registration	Mandatory	
5. Active Taxpayer List (ATL) of FBR Status as "Active" in I.T and Compliance Level is 100% in GST	Mandatory	
6. Proof of non-blacklisting: Affidavit on legal paper of appropriate value (duly attested from notary public) OR letterhead that the firm/company is neither blacklisted nor in litigation with any public sector client	Mandatory	
7. Compliance with CUI requirement/Specification Mentioning of Brand Name is mandatory. Not mentioning brand name or only just suggesting country of origin will technically dis-qualify the bidder from the process. Blank technical sheet shall be treated as non-compliance and may result rejection of tender / bid	Mandatory	
8. Professional Experience List of 3 executed/ similar contracts in public sector/ government offices/Embassies etc from Last 3 Year (List 03 contracts). Each contract = 5 Marks each Total Marks = 15 (Attached proof: 3 Contract/Work Order, W.O of over Rs, 200,000 individually will be considered for marking).	15 Marks	
9. Clientele List List 03 different clients of similar nature contracts. total Marks = 15 Marks (5 Marks per client) (Attached proof: 3 Contract/Work Order, W.O of over Rs. 200,000 individually will be considered for marking).	15 Marks	

- Failing in any of the mandatory requirement will disqualify the bidder from the bidding process.
- After evaluation/marking of bidders in technical evaluation process, financial bids of technically qualified bidders will be only opened later on prior notice.
- **DO NOT attach any information or portfolio which is not requested. Only provide the demanded information**

20. FINANCIAL PROPOSAL

(On Company's Letterhead)

Ref No: _____

NTN: _____

Date: _____

GST: _____

Supply of Lab Equipment and Chemicals

FINANCIAL BID

SN	Specification	Qty	Unit Price (GST Excl)	GST Amount (If any)	Unit Price (GST Incl)	Total Cost
LIST OF Chemicals						
1	Benzoic acid, Sigma/VWR/Macklin/Daejong or equivalent	1Kg				
2	Naphthalene, Sigma/VWR/Macklin/Daejong or equivalent	50g				
3	Ethyl acetate, Sigma/VWR/Macklin/Daejong or equivalent	2.5 L				
4	Anhydrous Calcium Chloride, Sigma/VWR/Macklin/Daejong or equivalent	1Kg				
5	Cinnamaldehyde, Sigma/VWR/Macklin/Daejong or equivalent	50g				
6	Benzaldehyde, Sigma/VWR/Macklin/Daejong or equivalent	1L				
7	Acetaldehyde, Sigma/VWR/Macklin/Daejong or equivalent	500mL				
8	2-Naphthol, Sigma/VWR/Macklin/Daejong or equivalent	250g				
9	Toluene, Sigma/VWR/Macklin/Daejong or equivalent	2.5L				

10	Coconut oil, Sigma/VWR/Macklin/Daejong or equivalent	500g				
11	Concentrated Sulfuric acid, Sigma/VWR/Macklin/Daejong or equivalent	2.5L				
12	Anhydrous sodium sulfate, Sigma/VWR/Macklin/Daejong or equivalent	1Kg				
13	Paraffin oil, Sigma/VWR/Macklin/Daejong or equivalent	5L				
14	Acetophenone, Sigma/VWR/Macklin/Daejong or equivalent	500mL				
15	Cyclohexanone, Sigma/VWR/Macklin/Daejong or equivalent	500mL				
16	Sodium acetate, Sigma/VWR/Macklin/Daejong or equivalent	100g				
17	2,4-Dinitrophenylhydrazine, Sigma/VWR/Macklin/Daejong or equivalent	100g				
18	4-Bromobenzaldehyde, Sigma/VWR/Macklin/Daejong or equivalent	25g				
19	Phenol, Sigma/VWR/Macklin/Daejong or equivalent	1Kg				
20	Ferric Chloride, Sigma/VWR/Macklin/Daejong or equivalent	250g				
21	Benzophenone, Sigma/VWR/Macklin/Daejong or equivalent	500g				
22	Potassium sodium tartarate tetrahydrate, Sigma/VWR/Macklin/Daejong or equivalent	100g				
23	Copper(II)sulfate solution, Sigma/VWR/Macklin/Daejong or equivalent	50mL				
24	Sodium bicarbonate, Sigma/VWR/Macklin/Daejong or equivalent	500mL				
25	Sodium nitrite, Sigma/VWR/Macklin/Daejong or equivalent	100g				

26	Bezamide, Sigma/VWR/Macklin/Daejong or equivalent	100g				
27	Bromine solution, Sigma/VWR/Macklin/Daejong or equivalent	100mL				
28	1-Butene, Sigma/VWR/Macklin/Daejong or equivalent	25g				
29	Acetylene, Sigma/VWR/Macklin/Daejong or equivalent	100mL				
30	n-Heptane, Sigma/VWR/Macklin/Daejong or equivalent	2.5L				
31	Potassium thiocyanide, KSCN, Sigma/VWR/Macklin/Daejong or equivalent	50 g				
32	4-Chlorophenyl isocyanate, Sigma/VWR/Macklin/Daejong or equivalent	5 g				
33	Anhydrous Ethanol, Sigma/VWR/Macklin/Daejong or equivalent	2.5 L				
34	HCl, Sigma/VWR/Macklin/Daejong or equivalent	2.5 L				
35	THF, Sigma/VWR/Macklin/Daejong or equivalent	2.5 L				
36	Pet. Ether, Sigma/VWR/Macklin/Daejong or equivalent	2.5 L				
37	Benzene, Sigma/VWR/Macklin/Daejong or equivalent	1 L				
38	Chloroform, Sigma/VWR/Macklin/Daejong or equivalent	2.5 L				
39	Acetonitrile, Sigma/VWR/Macklin/Daejong or equivalent	1 L				
40	Acetone, Sigma/VWR/Macklin/Daejong or equivalent	2.5 L				

41	Dithiol, Sigma/VWR/Macklin/Daejong or equivalent	1L				
42	Manganese Nitrate, Sigma/VWR/Macklin/Daejong or equivalent	250g				
43	Sodium Molbedate dihydrate, Sigma/VWR/Macklin/Daejong or equivalent	500g				
44	Iron II nitrate, Sigma/VWR/Macklin/Daejong or equivalent	500g				
45	Iron III Chloride, Sigma/VWR/Macklin/Daejong or equivalent	100g				
46	Pthalic anhydride, Sigma/VWR/Macklin/Daejong or equivalent	1Kg				
47	Strontium Nitrate, Sigma/VWR/Macklin/Daejong or equivalent	500g				
48	Potassium Ferrocynaide, Sigma/VWR/Macklin/Daejong or equivalent	500g				
49	CTAB, Sigma/VWR/Macklin/Daejong or equivalent	100g				
50	Glutaraldehyde, Sigma/VWR/Macklin/Daejong or equivalent	25mL				
51	Acetic Acid, Sigma/VWR/Macklin/Daejong or equivalent	250 mL				

52	Sodium borohydride, Sigma/VWR/Macklin/Daejong or equivalent	50 g				
53	Silver nitrate, Sigma/VWR/Macklin/Daejong or equivalent	25g				
54	Phosphate buffer saline solution, Sigma/VWR/Macklin/Daejong or equivalent	200 tablets				
55	Ethanol, Sigma/VWR/Macklin/Daejong or equivalent	2x 2.5L				
56	DMF, Sigma/VWR/Macklin/Daejong or equivalent	2.5L				
57	Dichloromethane, Sigma/VWR/Macklin/Daejong or equivalent	2.5L				
58	DMSO, Sigma/VWR/Macklin/Daejong or equivalent	2.5L				
59	Amberlyst 15(H+), Sigma/VWR/Macklin/Daejong or equivalent	100g				
60	Glutaraldehyde, Sigma/VWR/Macklin/Daejong or equivalent	50 ML or 100ML				
61	Copper nitrate, Sigma/VWR/Macklin/Daejong or equivalent	500gm				
62	Dimethyl formamide (DMF), Sigma/VWR/Macklin/Daejong or equivalent	1L				

63	Polyvinyl pyrrolidone (PVP) Mw=1300000, Sigma/VWR/Macklin/Daejong or equivalent	500g				
64	Glycerol, Sigma/VWR/Macklin/Daejong or equivalent	1L				
65	Hydrochloric acid, Sigma/VWR/Macklin/Daejong or equivalent	2.5 L				
66	Nitric acid, Sigma/VWR/Macklin/Daejong or equivalent	2.5 L				
67	Polyvinyl alcohol, Sigma/VWR/Macklin/Daejong or equivalent	500g				
68	Ferrocene, Sigma/VWR/Macklin/Daejong or equivalent	500g				
69	Ammonium phosphate dibasic, Sigma/VWR/Macklin/Daejong or equivalent	1 kg				
70	Sodium chloride, Sigma/VWR/Macklin/Daejong or equivalent	1 kg				
71	Sodium Hydroxide, Sigma/VWR/Macklin/Daejong or equivalent	1 kg				
72	N-hexane, Sigma/VWR/Macklin/Daejong or equivalent	1 L				
73	Aluminum nitride, Sigma/VWR/Macklin/Daejong or equivalent	250 g				

74	Hydrofluoric Acid, Sigma/VWR/Macklin/Daejong (2.5lX2) or equivalent	2.5L				
75	N N dimethyl formamide, Sigma/VWR/Macklin/Daejong (2.5lX4) or equivalent	2.5 L x 2				
76	2 Mercaptoethanol, Sigma/VWR/Macklin/Daejong or equivalent	250 mL				
77	Benzoyl Chloride, Sigma/VWR/Macklin/Daejong or equivalent	1 kg				
78	Cobalt (II) Nitrate, Sigma/VWR/Macklin/Daejong or equivalent	1Kg				
79	Copper Sulphate (II), Sigma/VWR/Macklin/Daejong or equivalent	1Kg				
80	Nickel (II) nitrate hexahydrate, Sigma/VWR/Macklin/Daejong or equivalent	1kg				
81	Activated carbon, Sigma/VWR/Macklin/Daejong or equivalent	500 g				
82	Tetrahydrofuran 99%, Sigma/VWR/Macklin/Daejong or equivalent	2.5 L x 2				
83	Dichloromethane, Sigma/VWR/Macklin/Daejong or equivalent	2.5 L				
84	Anhydrous citric acid, Sigma/VWR/Macklin/Daejong or equivalent	2.5 L x 2				

85	Sodium Citrate, Sigma/VWR/Macklin/Daejong or equivalent	1Kg				
86	Anhydrous Magnesium sulphate	1kg				
87	Acetamide, Sigma/VWR/Macklin/Daejong or equivalent	100g				
88	Phosphoric acid	2.5l				
89	Cyclohexanol	100ml				

List of Laboratory Equipment for BS Chemistry Department

1	Bunsen Burners	15				
2	Hot plates	5				
3	Burette	50				
4	Pipette (1ml)	20				
5	Pipette (2 ml)	20				
6	Pipette (10 ml)	20				
7	Crucible tongs	15				
8	pH meters	4				
9	Test tube packs	50 packets				
10	Test tube racks	15				
11	Test tube holder	15				
12	Tripod Stand	15				
13	Volumetric flasks 10 ml	30 each				
	Volumetric flasks 25ml	30 each				
	Volumetric flasks 50 ml	30 each				
	Volumetric flasks 100 ml	30 each				
	Volumetric flasks 250 ml	30 each				
	Volumetric flasks 500 ml	30 each				
14	Conical flasks 50 ml	20 each				
	Conical flasks 100 ml	20 each				
	Conical flasks 250 ml	20 each				
15	Graduated Cylinders 5ml	20 each				
	Graduated Cylinders 10 ml	20 each				
	Graduated Cylinders 50 ml	10 each				
	Graduated Cylinders 250 ml	10 each				
	Graduated Cylinders 100ml	20 each				
16	Glass pipette	30				
17	Glass pipette bulb	25				
18	China dish	50				
19	Wattman filter paper	30 packets				
20	Round bottom flasks two neck (50 ml) with glass and plastic stoppers	10				

21	Round bottom flasks two neck (100 ml) with glass stoppers	20				
22	Round bottom flasks two neck (250 ml) with glass stoppers	20				
23	Round bottom flasks two neck (500 ml) with glass stoppers	10				
24	Pyrex Round Bottom Flask (One neck, 24/29) 50 ml	05 each				
	Pyrex Round Bottom Flask (One neck, 24/29) 100 ml	05 each				
	Pyrex Round Bottom Flask (One neck, 24/29) 250 ml	05 each				
25	Wire mesh	20				
26	Wire gauze	20				
27	Metal stands with metal clamps	10				
28	Beakers 5ml	25 each				
	Beakers 10 ml	25 each				
	Beakers 50 ml	25each				
	Beakers 100 ml	25 each				
	Beakers 250 ml	25 each				
	Beakers 500 ml	20 each				
29	Aluminum foils	15 rolls				
30	Litmus papers	10 packets				
31	Fusion tubes	10				
32	Dropping funnels	5				
33	Separating funnel	5				
34	Buchner funnel	5				
35	Glass slides	10 packets				
36	Filtration funnels	3				
37	Thiele tubes	10				
38	Watch glasses	25				
39	Petri dishes	25				
40	Wash bottles	10				
41	Plastic beakers (25 ml)	10 each				
	Plastic beakers (50 ml)	10 each				
	Plastic beakers (100 ml)	10each				
	Plastic beakers (250 ml)	10each				
	Plastic beakers (500 ml)	10each				
42	Plastic beakers (1000 ml)	3				
43	Plastic pipette	10				
44	Glass bend tubes	10				
45	Sublimation apparatus	1				
46	Multi Soxhlet apparatus	2				
47	Micropettes	8				
48	Owstwald viscometer	5				
49	Refractometer	1				
50	Digital Calorimeter	2				
51	Differential nanometer	2				
52	Thermometers (100 °C)	15				

	Thermometers (360 °C)	15				
	Thermometers (5000 °C)	0				
53	Spatulas (very small size)	10				
54	Spatulas (small size)	10				
55	Spatulas (medium size)	10 No				
56	Spatulas (X-large size)	5				
57	Mortar and pestle (small size)	3				
58	Mortar and pestle (medium size)	3				
59	Mortar and pestle (large size)	3				
60	Magnetic stir bar (1 cm)	20 No				
61	Magnetic stir bar catcher (1 cm)	20 No				
62	Magnetic stir bar catcher (1.5 cm)	20 No				
63	Magnetic stir bar catcher (2 cm)	20 No				
64	Magnetic stir bar catcher (2.5 cm)	20 No				
65	Magnetic stir bar catcher (3 cm)	20 No				
66	Reagent/Washing bottles (500ml)	05 No				
67	Surgical Gloves	05 boxes				
68	Capillary tubes	15 packets				
69	Analytical balance	2				
70	Autoclave reactor with Teflon vessel 250 ml	2				
71	Ceramic boat for tube furnace	25				
72	Coil Condenser	15				
73-	Falcon tubes (20ml)	200 No's each				
	Falcon tubes (50 ml)	200 No's each				
74	Heating mantle with stirring 250 ml	1				
75	Glass spatula	10				
76	Graduated Cylinders glass (1000 ml)	5				
77	Glass Bent Connecting Adapter, 105-degree bend, Laboratory ...	2				
78	Pyrex Spiral Reflux Condenser (24/29)	1				
79	Pyrex Glass column (300 mm diameter) fitted with 500 ml glass bulb (24/29)	1				
80	QUICKFIT Vacuum Buchner funnel with sintered disc (24/29) and porosity grade 2 and 3 1 (125ml with porosity grade 2), (125 ml with porosity grade 3)	1 Nos				
81	Pyrex Dropping funnel (Joint: ST/NS 19/26)	1 (100 ml)				

82	Glass still head (part of distillation assembly) with quickfit thermometer, condenser, quickfit receiving bend tube and quickfit receiving flask	2				
83	TLC plates	(2 packs)				
84	Buchner flasks	5				
85	Pasteur pipettes with rubber suckers	10				
Total Cost (Inclusive of GST)						

- The bid is submitted without any conditions.
- All the terms and conditions provided by COMSATS University Islamabad are acceptable unconditionally, including **bid validity and delivery time**.

Name of authorized Person:

Date:

Signature

Official Company Seal:

21. Technical Compliance Performa

(On Company's Letterhead)

Ref No:

NTN:

Date:

GST:

Supply of Lab Equipment and Chemicals

S. N	Detail of Specifications	Brand Name being offered	Compliance	Non-compliance	Higher Specs
List of Chemicals					
1	Benzoic acid, Sigma/VWR/Macklin/Daejong or equivalent				
2	Naphthalene, Sigma/VWR/Macklin/Daejong or equivalent				
3	Ethyl acetate, Sigma/VWR/Macklin/Daejong or equivalent				
4	Anhydrous Calcium Chloride, Sigma/VWR/Macklin/Daejong or equivalent				
5	Cinnamaldehyde, Sigma/VWR/Macklin/Daejong or equivalent				
6	Benzaldehyde, Sigma/VWR/Macklin/Daejong or equivalent				
7	Acetaldehyde, Sigma/VWR/Macklin/Daejong or equivalent				
8	2-Naphthol, Sigma/VWR/Macklin/Daejong or equivalent				
9	Toluene, Sigma/VWR/Macklin/Daejong or equivalent				

10	Coconut oil, Sigma/VWR/Macklin/Daejong or equivalent				
11	Concentrated Sulfuric acid, Sigma/VWR/Macklin/Daejong or equivalent				
12	Anhydrous sodium sulfate, Sigma/VWR/Macklin/Daejong or equivalent				
13	Paraffin oil, Sigma/VWR/Macklin/Daejong or equivalent				
14	Acetophenone, Sigma/VWR/Macklin/Daejong or equivalent				
15	Cyclohexanone, Sigma/VWR/Macklin/Daejong or equivalent				
16	Sodium acetate, Sigma/VWR/Macklin/Daejong or equivalent				
17	2,4-Dinitrophenylhydrazine, Sigma/VWR/Macklin/Daejong or equivalent				
18	4-Bromobenzaldehyde, Sigma/VWR/Macklin/Daejong or equivalent				
19	Phenol, Sigma/VWR/Macklin/Daejong or equivalent				
20	Ferric Chloride, Sigma/VWR/Macklin/Daejong or equivalent				
21	Benzophenone, Sigma/VWR/Macklin/Daejong or equivalent				
22	Potassium sodium tartarate tetrahydrate, Sigma/VWR/Macklin/Daejong or equivalent				
23	Copper(II)sulfate solution, Sigma/VWR/Macklin/Daejong or equivalent				
24	Sodium bicarbonate, Sigma/VWR/Macklin/Daejong or equivalent				
25	Sodium nitrite, Sigma/VWR/Macklin/Daejong or equivalent				

26	Bezamide, Sigma/VWR/Macklin/Daejong or equivalent				
27	Bromine solution, Sigma/VWR/Macklin/Daejong or equivalent				
28	1-Butene, Sigma/VWR/Macklin/Daejong or equivalent				
29	Acetylene, Sigma/VWR/Macklin/Daejong or equivalent				
30	n-Heptane, Sigma/VWR/Macklin/Daejong or equivalent				
31	Potassium thiocyanide, KSCN, Sigma/VWR/Macklin/Daejong or equivalent				
32	4-Chlorophenyl isocyanate, Sigma/VWR/Macklin/Daejong or equivalent				
33	Anhydrous Ethanol, Sigma/VWR/Macklin/Daejong or equivalent				
34	HCl, Sigma/VWR/Macklin/Daejong or equivalent				
35	THF, Sigma/VWR/Macklin/Daejong or equivalent				
36	Pet. Ether, Sigma/VWR/Macklin/Daejong or equivalent				
37	Benzene, Sigma/VWR/Macklin/Daejong or equivalent				
38	Chloroform, Sigma/VWR/Macklin/Daejong or equivalent				
39	Acetonitrile, Sigma/VWR/Macklin/Daejong or equivalent				
40	Acetone, Sigma/VWR/Macklin/Daejong or equivalent				

41	Dithiol, Sigma/VWR/Macklin/Daejong or equivalent				
42	Manganese Nitrate, Sigma/VWR/Macklin/Daejong or equivalent				
43	Sodium Molbedate dihydrate, Sigma/VWR/Macklin/Daejong or equivalent				
44	Iron II nitrate, Sigma/VWR/Macklin/Daejong or equivalent				
45	Iron III Chloride, Sigma/VWR/Macklin/Daejong or equivalent				
46	Pthalic anhydride, Sigma/VWR/Macklin/Daejong or equivalent				
47	Strontium Nitrate, Sigma/VWR/Macklin/Daejong or equivalent				
48	Potassium Ferrocynaide, Sigma/VWR/Macklin/Daejong or equivalent				
49	CTAB, Sigma/VWR/Macklin/Daejong or equivalent				
50	Glutaraldehyde, Sigma/VWR/Macklin/Daejong or equivalent				
51	Acetic Acid, Sigma/VWR/Macklin/Daejong or equivalent				

52	Sodium borohydride, Sigma/VWR/Macklin/Daejong or equivalent				
53	Silver nitrate, Sigma/VWR/Macklin/Daejong or equivalent				
54	Phosphate buffer saline solution, Sigma/VWR/Macklin/Daejong or equivalent				
55	Ethanol, Sigma/VWR/Macklin/Daejong or equivalent				
56	DMF, Sigma/VWR/Macklin/Daejong or equivalent				
57	Dichloromethane, Sigma/VWR/Macklin/Daejong or equivalent				
58	DMSO, Sigma/VWR/Macklin/Daejong or equivalent				
59	Amberlyst 15(H+), Sigma/VWR/Macklin/Daejong or equivalent				
60	Glutaraldehyde, Sigma/VWR/Macklin/Daejong or equivalent				
61	Copper nitrate, Sigma/VWR/Macklin/Daejong or equivalent				
62	Dimethyl formamide (DMF), Sigma/VWR/Macklin/Daejong or equivalent				

63	Polyvinyl pyrrolidone (PVP) Mw=1300000, Sigma/VWR/Macklin/Daejong or equivalent				
64	Glycerol, Sigma/VWR/Macklin/Daejong or equivalent				
65	Hydrochloric acid, Sigma/VWR/Macklin/Daejong or equivalent				
66	Nitric acid, Sigma/VWR/Macklin/Daejong or equivalent				
67	Polyvinyl alcohol, Sigma/VWR/Macklin/Daejong or equivalent				
68	Ferrocene, Sigma/VWR/Macklin/Daejong or equivalent				
69	Ammonium phosphate dibasic, Sigma/VWR/Macklin/Daejong or equivalent				
70	Sodium chloride, Sigma/VWR/Macklin/Daejong or equivalent				
71	Sodium Hydroxide, Sigma/VWR/Macklin/Daejong or equivalent				
72	N-hexane, Sigma/VWR/Macklin/Daejong or equivalent				
73	Aluminum nitride, Sigma/VWR/Macklin/Daejong or equivalent				

74	Hydrofluoric Acid, Sigma/VWR/Macklin/Daejong (2.5IX2) or equivalent				
75	N N dimethyl formamide, Sigma/VWR/Macklin/Daejong (2.5IX4) or equivalent				
76	2 Mercaptoethanol, Sigma/VWR/Macklin/Daejong or equivalent				
77	Benzoyl Chloride, Sigma/VWR/Macklin/Daejong or equivalent				
78	Cobalt (II) Nitrate, Sigma/VWR/Macklin/Daejong or equivalent				
79	Copper Sulphate (II), Sigma/VWR/Macklin/Daejong or equivalent				
80	Nickel (II) nitrate hexahydrate, Sigma/VWR/Macklin/Daejong or equivalent				
81	Activated carbon, Sigma/VWR/Macklin/Daejong or equivalent				
82	Tetrahydrofuran 99%, Sigma/VWR/Macklin/Daejong or equivalent				
83	Dichloromethane, Sigma/VWR/Macklin/Daejong or equivalent				
84	Anhydrous citric acid, Sigma/VWR/Macklin/Daejong or equivalent				

85	Sodium Citrate, Sigma/VWR/Macklin/Daejong or equivalent				
86	Anhydrous Magnesium sulphate				
87	Acetamide, Sigma/VWR/Macklin/Daejong or equivalent				
88	Phosphoric acid				
89	Cyclohexanol				

List of Laboratory Equipment for BS Chemistry Department

1	Bunsen Burners				
2	Hot plates				
3	Burette				
4	Pipette (1ml)				
5	Pipette (2 ml)				
6	Pipette (10 ml)				
7	Crucible tongs				
8	pH meters				
9	Test tube packs				
10	Test tube racks				
11	Test tube holder				
12	Tripod Stand				
13	Volumetric flasks 10 ml				
	Volumetric flasks 25ml				
	Volumetric flasks 50 ml				
	Volumetric flasks 100 ml				
	Volumetric flasks 250 ml				
	Volumetric flasks 500 ml				
14	Conical flasks 50 ml				
	Conical flasks 100 ml				
	Conical flasks 250 ml				
15	Graduated Cylinders 05ml				
	Graduated Cylinders 5ml				
	Graduated Cylinders 10 ml				
	Graduated Cylinders 50 ml				
	Graduated Cylinders 250 ml				
16	Glass pipette				
17	Glass pipette bulb				
18	China dish				
19	Wattman filter paper				
20	Round bottom flasks two neck (50 ml) with glass and plastic stoppers				
21	Round bottom flasks two neck (100 ml) with glass stoppers				

22	Round bottom flasks two neck (250 ml) with glass stoppers				
23	Round bottom flasks two neck (500 ml) with glass stoppers				
24	Pyrex Round Bottom Flask (One neck, 24/29) 50 ml				
	Pyrex Round Bottom Flask (One neck, 24/29) 100 ml				
	Pyrex Round Bottom Flask (One neck, 24/29) 250 ml				
25	Wire mesh				
26	Wire gauze				
27	Metal stands with metal clamps				
28	Beakers 5ml				
	Beakers 10 ml				
	Beakers 50 ml				
	Beakers 100 ml				
	Beakers 250 ml				
	Beakers 500 ml				
29	Aluminum foils				
30	Litmus papers				
31	Fusion tubes				
32	Dropping funnels				
33	Separating funnel				
34	Buchner funnel				
35	Glass slides				
36	Filtration funnels				
37	Thiele tubes				
38	Watch glasses				
39	Petri dishes				
40	Wash bottles				
41	Plastic beakers (25 ml)				
	Plastic beakers (50 ml)				
	Plastic beakers (100 ml)				
	Plastic beakers (250 ml)				
	Plastic beakers (500 ml)				
42	Plastic beakers (1000 ml)				
43	Plastic pipette				
44	Glass bend tubes				
45	Sublimation apparatus				
46	Multi Soxhlet apparatus				
47	Micropettes				
48	Owstwald viscometer				
49	Refractometer				
50	Digital Calorimeter				
51	Differential nanometer				
52	Thermometers (100 °C)				
	Thermometers (360 °C)				
	Thermometers (5000 °C)				
53	Spatulas (very small size)				
54	Spatulas (small size)				

55	Spatulas (medium size)				
56	Spatulas (X-large size)				
57	Mortar and pestle (small size)				
58	Mortar and pestle (medium size)				
59	Mortar and pestle (large size)				
60	Magnetic stir bar (1 cm)				
61	Magnetic stir bar catcher (1 cm)				
62	Magnetic stir bar catcher (1.5 cm)				
63	Magnetic stir bar catcher (2 cm)				
64	Magnetic stir bar catcher (2.5 cm)				
65	Magnetic stir bar catcher (3 cm)				
66	Reagent/Washing bottles (500ml)				
67	Surgical Gloves				
68	Capillary tubes				
69	Analytical balance				
70	Autoclave reactor with Teflon vessel 250 ml				
71	Ceramic boat for tube furnace				
72	Coil Condenser				
73	Falcon tubes (20ml)				
-	Falcon tubes (50 ml)				
74	Heating mantle with stirring 250 ml				
75	Glass spatula				
76	Graduated Cylinders glass (1000 ml)				
77	<u>Glass Bent Connecting Adapter, 105-degree bend, Laboratory ...</u>				
78	Pyrex Spiral Reflux Condenser (24/29)				
79	Pyrex Glass column (300 mm diameter) fitted with 500 ml glass bulb (24/29)				
80	QUICKFIT Vacuum Buchner funnel with sintered disc (24/29) and porosity grade 2 and 3 1 (125ml with porosity grade 2), (125 ml with porosity grade 3)				
81	Pyrex Dropping funnel (Joint: ST/NS 19/26)				
82	Glass still head (part of distillation assembly) with quickfit thermometer, condenser, quickfit receiving				

	bend tube and quickfit receiving flask				
83	TLC plates				
84	Buchner flasks				
85	Pasteur pipettes with rubber suckers				

- The bid is submitted without any conditions.
- All the terms and conditions provided by COMSATS University Islamabad are acceptable unconditionally, including **bid validity and delivery time**.
- I understand that blank technical sheet / non-mentioning of Brand and Model shall make my bid non-responsive and may result rejection of my bid.

Name of authorized Person:

Date:

Signature

Official Company Seal:
