



COMSATS University Islamabad, Lahore Campus

Defence Road, Off Raiwind Road, Lahore

Tender No. CUI-LHR-TN-21-1526

Case # 3428

Single Stage Two Envelop Procedure

Title of Tender: Lab Equipment, Consumable Items & Laptop Computer for Dr. Tareq Manzoor, Department of Energy Research Center

A. GENERAL TERMS AND CONDITIONS

1. All pages of bidding documents are mandatory to be signed / stamped, meaning thereby bidder agrees to our terms & conditions mentioned herein, failing which the bid may be rejected.
2. Any addition, deletion or modification of any clause of the procurement terms & conditions/ BoQs of CUI Lahore Campus by any vendor will not be acceptable and may lead to rejection of the bid.
3. Only registered Suppliers, who are on Active Taxpayers List (ATL) of FBR (GST & Income Tax), are eligible to participate in tender.
4. The contract will be executed and handed over in satisfactory conditions up to the entire satisfaction of COMSATS University Islamabad, Lahore Campus.
5. Documents along with Pay Order / Demand Draft amounting to **Rs. 1000/-** as a tender document fee (Non-Refundable) shall be submitted in favor of COMSATS University Islamabad, Lahore Campus to the address given below. No bid will be accepted without tender documents' fee.
6. Part / Advance payments is not allowed.
7. **The exact completion/installation/ delivery time from the date of the purchase / work order will be 60 days (For Items # 1 to 13) & 20 Days (for Items # 14 & 15) . The handing over / completion time for this contract is of critical importance.**
8. Your bid proposal should be inclusive of freight and all other taxes and to be delivered at COMSATS University Islamabad (CUI), Lahore Campus's premises.
9. After opening of bids, CUI-Lahore Campus will examine the bids for completeness as per tender document.
10. In case more than one bidder have quoted same rates for an item; the bidder securing more items (in terms of cost) will be awarded the specific item.
11. Purchase order (s) will be awarded to the evaluated lowest or technically recommended bidder (s) on the basis of item wise / subtotal wise / grand total wise according to the nature of BoQs.
12. The bid should be submitted in a sealed envelope up to **November 10, 2021** on or before **1400hrs** and will be opened on the same date **at 1430hrs** in the presence of available bidders. In case of any holiday is announced by the Govt. OR any unforeseeable circumstances that prevent the tender from being opened on the date announced (Force Majure Situation), the tenders will be opened on the very next working day. Timing will remain as mentioned in the tender notice.
13. COMSATS University Islamabad, Lahore Campus, will follow the PPRA rule of **Single Stage Two Envelope Procedure;**

- i. The bid shall comprise a single package containing **two separate envelopes**. Each envelope shall contain separately the **financial proposal** and the **technical proposal**;
 - ii. The envelopes shall be marked as **“FINANCIAL PROPOSAL”** and **“TECHNICAL PROPOSAL”** in bold and legible letters to avoid confusion;
 - iii. Initially, only the envelope marked **“TECHNICAL PROPOSAL”** shall be opened;
 - iv. The envelope marked as **“FINANCIAL PROPOSAL”** shall be retained in the custody of the procuring agency without being opened;
 - v. The procuring agency shall evaluate the technical proposal in a manner prescribed in advance, without reference to the price and reject any proposal which does not conform to the specified requirements;
 - vi. During the technical evaluation no **amendments** in the technical proposal shall be permitted;
 - vii. The financial proposals of bids shall be opened publicly at a time, date and venue announced and communicated to the bidders in advance;
 - viii. After the evaluation and approval of the technical proposal the procuring agency, shall at a time within the bid validity period, publicly open the financial proposals of the technically accepted bids only. The financial proposal of bids found technically nonresponsive shall be returned un-opened to the respective bidders;
 - ix. and
 - x. The bid found to be the lowest evaluated bid shall be accepted.
14. The envelope should be marked as under;
- Secretary, Purchase Committee**
COMSATS University Islamabad, Lahore Campus
Defence Road, Off Raiwind Road, Lahore.
Tel: 042-111-001-007, Ext: 875
15. The envelope shall also bear the word **“CONFIDENTIAL”** and following identification quotation of **“Lab Equipment, Consumable Items & Laptop Computer for Dr. Tareq Manzoor, Department of Energy Research”**.
16. The bid form (BoQs) must be duly filled in, stamped and signed by the authorized representative of the bidder.
17. **If the vendor fails to deliver the goods / services to COMSATS University Islamabad (CUI), Lahore Campus within the given deadline, any of the following can be opted by CUI Lahore campus on the recommendation of the end user and approval of the authority;**
- a. An extension in the delivery period may be granted in case a valid reason/justification with necessary documentary evidence is provided by the vendor supporting the reason for delay.
 - b. A penalty upto 10% of the invoice value may be charged.
 - c. Purchase order may be cancelled along with confiscation of earnest money if the vendor fails to deliver the goods / services after the initial or extended delivery time, as the case may be.
18. If the delivered goods / services are not according to the required quality standards / specifications, the same shall be liable to be rejected after inspection. The vendor would be required to supply as per requirements mentioned in our BoQs, otherwise the purchase / work order will be cancelled after due date with confiscation of earnest money.

19. Any defective / sub-standard item (s) will be replaced by the bidder in same quoted cost. In case of failure to supply the specific item, CUI-Lahore may issue PO to next lowest bidder to supply the item while the difference of amount will be deducted from the 1st lowest bidder's earnest money.
20. Deduction of Income Tax and any other tax will be deducted at source according to Government prevailing rules.
21. Payment will be made on submission of Invoice in the name of "COMSATS University Islamabad (CUI), Lahore Campus" with a copy of delivery challan (s) after the complete order has been supplied, inspected and accepted which includes delivery / installation, and COMSATS acceptance / inspection thereof.
22. All prices should be valid for at least **90 days**. Withdrawal or any modification of the original offer within the validity period shall entitle CUI-Lahore Campus to forfeit the earnest money in favor of the CUI-Lahore Campus and / or put a ban on such vendor participation in tenders / works.
23. It is the sole responsibility of the agent / supplier / manufacturer to comply with the applicable laws, be national or international.
24. In case of any dispute or grievance, the matter shall be addressed as per PPRA rules.
25. The CUI-Lahore Campus reserves the right to modify the quantities of goods / services at any time before the award of purchase / work order.
26. Any defective / sub-standard item (s) will be replaced by the bidder in same quoted cost. In case of failure to supply the specific item, CUI-Lahore may issue PO to next lowest bidder to supply the item while the difference of amount will be deducted from the 1st lowest bidder's earnest money.
27. CUI-Lahore Campus shall disqualify any firm(s), if at any stage; it finds that the information submitted, or documents provided are inaccurate, fake, ambiguous or incomplete.
28. **05% of the total value of the Invoice will be retained as security by COMSATS University Islamabad (CUI), Lahore Campus, and will be released after warranty period i.e. (As Mentioned in BoQs) which will be counted from the date of Installation / Completion of work / Supply.**
29. **The bidder is required to furnish in form of Bank deposit/ CDR / Pay order equivalent to 2% of the total Bid price as Earnest Money crossed in favor of "COMSATS University Islamabad, Lahore Campus". Which shall be released after the completion of work / supply on submission of written request on firm / company letterhead. Any bid not accompanied by Earnest Money shall be rejected without any right of appeal.**
30. **COMSATS University Islamabad, Lahore Campus reserves the rights to accept or reject the bid if;**
 - i. Received without earnest money
 - ii. Received later than the date and time fixed for tender submission
 - iii. The tender is unsigned/ unstamped
 - iv. The offer is ambiguous
 - v. The offer is conditional
 - vi. The offer is from a firm, which is black listed by any Govt. Office.
 - vii. The offer is received by telephone/telex/fax/telegram.
 - viii. Any unsigned / ambiguous erasing, cutting / overwriting etc. is made.
31. The bidder should furnish a certificate as worded below in token of acceptance of all the terms and conditions of the tender otherwise the tender will not be considered under any circumstances.

32. The undersigned affirm that the terms and conditions as contained in this document have been read and accepted and that in the event of selection of my/our rate the agreement in the prescribed form will be entered into:

- Company / Vendor Name:.....
- Postal Address:.....
- Tel. / Mobile:.....Email:.....
- NTN# :.....GST#:.....
- Signature:
- Please also attach the Certificate supporting being Active Taxpayer as per requirement of FBR.

B. BoQs of Lab Equipment, Consumable Items & Laptop Computer for Dr. Tareq Manzoor, Department of Energy Research

Technical Portion (Please mention the quoted model/ brand in technical portion with no mention of price otherwise the bid will be rejected)

No change in the BoQs (Specs & Qty.) of CUI-Lahore Campus, as detailed below, is allowed. Any additional information may be mentioned in the blank columns (i.e. model / brand or Price). Any modification in CUI-Lahore Campus BoQ may lead to rejection of bid (fully or partially).				Please mention the Quoted Model / Brand with meeting the all specifications mentioned in BoQs	
Sr. #	Item Name	Specifications	Qty		
1	Cell Automatic Coin Tester TESTER with Reactor Binder System Must be attached with The System Complete assemble unit With all accessories Button Battery Tester is an eight- twelve multi-channel battery analyzer to analyze small coin cells with a range current 0-10mah, voltage Button Battery Tester is an eight-channel battery analyzer to analyze small coin cells with a range current 0-10mah, voltage 0-5v. Each channel of the analyzer has independent constant-current and constant-voltage source, which can be programmed and controlled by computer software. . This Button Battery Tester provide most applications in battery testing fields such as electrode materials research, battery performance test, small scale battery formation, capability grading, battery pack testing, etc. 3.The Button Battery Tester is suitable for all kinds of coin cell battery such as lithium battery, NI-MH battery, Zn-Mn watch battery and so on. installation and warranty 03 years		05	No.	

2	<p>Electronic analytical balance 120g/0.1mg Also measure the density Density setup also required For materials, aluminum foil, copper foil and electrode weighing, at least choose the 0.1mg accurate model or more high precision model USA/UK or equivalent</p>	01	No	
3	<p>Vacuum Mixer 150 ml Vacuum Mixer This vacuum mixer is vacuum mixing, dispersion efficient equipment, it is suitable for battery electrode paste and various ceramic materials mixing, due to complete the process in vacuum station, fully implemented without air bubbles, improve the filling material and density. Mainly feature: Use soft sealing process, good sealing effect . Mixing motor adopts gearbox frequency adjustment, can adjust vacuum speed according to materials feature. Double blade design, make rapid mixing paste. Small overall dimensions, to save space, delicate appearance, simple. Literature Must Be Provided Otherwise, your bid will be rejected Warranty 03 years</p>	01	No.	
4	<p>AUTO FILM COATING MACHINE with reactor binder Assembly full attached with the system Thin Fill coater for smooth and flat surface With 100 mm film applicator Film coating machine with dryer is used for varies kinds of materials coating. It is supplied with vacuum pump and heating system, having an precision heating temperature up to 200°C. The film coating machine is mainly used for lithium battery electrode coating for coin cell assemble and pouch cell research. The film coating machine is mainly used for lithium battery electrode coating for coin cell assemble and pouch cell research. Build-in oil-less vacuum pump make the machine with small volume and less noise. New designed Touch Screen control make the operating easier and simpler Certificate of coating must be attached otherwise your bid will be rejected USA/China or equivalent</p>	01	No	
5	<p>COIN CELL ELECTRODE DISC Cutting Device battery electrode disc cutter, 3-24mm cutter die. With 3 dies Small Manual Die Cutting and auto should be included Punching Machine for Coin Cell Electrode and Separator Cutting. The Coin cell disc cutter machine is used for coin cell electrode punching with customized cutting die. It's operation is simple with light weight, The resulting discs can be used as electrode/separator discs of split test cell and coin cell for battery researches. Literature Must Be Provided otherwise your bid will be rejected Warranty 03 years USA/China or equivalent</p>	01	No.	

Signature & Stamp of Bidder

6	COIN CELL ELECTROLYTE FILLING Manual Pipette for Lithium-Ion Battery Laboratory Research - Lightweight, ergonomic, low force design - Digital display clearly reads volume setting - The pipettes cover volume range of 0.1µl to 10ml - Easy to calibrate and maintain with tool supplied - Design helps avoid repetitive strain injuries - Calibrated in accordance with ISO8655. Each pipette supplied with individual test certificate. - The low part is available for autoclaving USA/China or equivalent	01	No.	
7	TOB Agate Mortar and Pestle Agate Mortar 80 mm model Packing: 1pcs Agate Mortar and 1pcs Pestle, Outside Diameter Size: 50mm No cracks, no impurities, strong anti-abrasion resistance. High-quality products gloss, strong corrosion resistance, can be used in acid polishing materials. For mixed grinding solid material or solid powder. Should be particularly careful in the use of the process, not grinding hardness too much material, not contact with hydrofluoric acid. Grinding operation, mortar should be put in is not easy to slide objects, pestle should keep vertical. Mortar can not heating, do not put into the electric 100 mm model or equivalent	01	No.	
8	SUP-P, carbon black, 100g/bottle Super conductive carbon black Expiry: 02 years	3	Bottles	
9	PVDF,6020 or equivalent High purity Polyvinylidene fluoride(pvdf) powder for lithium battery cathode materials PVDF (Polyvinylidene fluoride) binder is for mixing together with cathode powder to prepare Lithium battery electrode. Expiry : 02 years	1	Kg	
10	KS-6 conductive graphite, 100g/bag Expiry: 02 years	2	Bag	
11	Aluminum foil, W200mm*T16um, 2.5kg/roll Lithium Ion Battery current collector Aluminum Foil. Expiry: 02 years	10	Roll	

12	Copper foil, W200mm*T10um, 2.5kg/roll Lithium Ion Battery current collector Aluminum Foil. Expiry: 02 years	10	Roll	
13	SBR Chemicals SBR is a white styrene butadiene co-polymer	01	Kg	
14	Laptop Computer (Core i7) 11th Generation Processor: 1.3 GHz Hard Disk: 1TB RAM: 16GB RAM Screen Size: 15.6 inches Local warranty, 01 Year	01	No.	
15	One external hard disk 01 terra byte Warranty 06 months	01	No.	

C. Bid Evaluation Criteria

All bids shall be evaluated in accordance with the following evaluation criteria and other terms & conditions set forth in this bidding document.

1. The bids shall be evaluated to strictly ensure that the quoted brand/ model meet all the BoQ/ specification requirements given in the bidding document for each item.
2. In addition to the BoQ requirements, vendors must meet the vendor qualification criteria /company profile requirements (if any), as set forth in this tender document.
3. Supporting literature (where available / required) of the quoted brand/ model must be attached for verification & technical evaluation of the required specification by the technical committee. In case of any clash is found between the quoted model and the supported literature may lead to rejection of bid.

D. Financial Portion (Price and Brand/Model to be mention only in Financial Proposal in a separate sealed envelope) Strictly on our BoQs Form.

Vendors are required to provide both unit and total price of each item and calculations must be made carefully to avoid mistakes. However, in case, total price does not match with the unit price and quantity due to calculation error or typo error, any of the following can be opted

1. The bid may be rejected on the reason of ambiguity (OR
2. Unit price will be considered as final and total price of the respective item will be calculated by multiplying it with the quantity required. Sub-totals and grand total will also be corrected accordingly.

No change in the BoQs (Specs & Qty.) of CUI-Lahore Campus, as detailed below, is allowed. Any additional information may be mentioned in the blank columns (i.e. model / brand or Price). Any modification in CUI-Lahore Campus BoQ may lead to rejection of bid (fully or partially).

Prices should be quoted inclusive of all applicable taxes

Sr. #	Item Name	Specifications			Quoted Model / Brand	Unit Price (Rs.)	Total Amount (Rs.)
1	Cell Automatic Coin Tester TESTER with Reactor Binder System Must be attached with The System Complete assemble unit With all accessories Button Battery Tester is an eight- twelve multi-channel battery analyzer to analyze small coin cells with a range current 0-10mah, voltage Button Battery Tester is an eight-channel battery analyzer to analyze small coin cells with a range current 0-10mah, voltage 0-5v. Each channel of the analyzer has independent constant-current and constant-voltage source, which can be programmed and controlled by computer software. . This Button Battery Tester provide most applications in battery testing fields such as electrode materials research, battery performance test, small scale battery formation, capability grading, battery pack testing, etc. 3.The Button Battery Tester is suitable for all kinds of coin cell battery such as lithium battery, NI-MH battery, Zn-Mn watch battery and so on. installation and warranty 03 years		5	No.			
2	Electronic analytical balance 120g/0.1mg Also measure the density Density setup also required For materials, aluminum foil, copper foil and electrode weighing, at least choose the 0.1mg accurate model or more high precision model USA/UK or equivalent		1	No			

3	<p>Vacuum Mixer 150 ml Vacuum Mixer This vacuum mixer is vacuum mixing, dispersion efficient equipment, it is suitable for battery electrode paste and various ceramic materials mixing, due to complete the process in vacuum station, fully implemented without air bubbles, improve the filling material and density. Mainly feature: Use soft sealing process, good sealing effect . Mixing motor adopts gearbox frequency adjustment, can adjust vacuum speed according to materials feature. Double blade design, make rapid mixing paste. Small overall dimensions, to save space, delicate appearance, simple. Literature Must Be Provided Otherwise your bid will be rejected Warranty 03 years</p>	1	No.			
4	<p>AUTO FILM COATING MACHINE with reactor binder Assembly full attached with the system Thin Fill coater for smooth and flat surface With 100 mm film applicator Film coating machine with dryer is used for varies kinds of materials coating. It is supplied with vacuum pump and heating system, having an precision heating temperature up to 200°C. The film coating machine is mainly used for lithium battery electrode coating for coin cell assemble and pouch cell research. The film coating machine is mainly used for lithium battery electrode coating for coin cell assemble and pouch cell research. Build-in oil-less vacuum pump make the machine with small volume and less noise. New designed Touch Screen control make the operating easier and simpler Certificate of coating must be attached otherwise your bid will be rejected USA/China or equivalent</p>	1	No			
5	<p>COIN CELL ELECTRODE DISC Cutting Device battery electrode disc cutter, 3-24mm cutter die. With 3 dies Small Manual Die Cutting and auto should be included Punching Machine for Coin Cell Electrode and Separator Cutting. The Coin cell disc cutter machine is used for coin cell electrode punching with customized cutting die. Its operation is simple with light weight, The resulting discs can be used as electrode/separator discs of split test cell and coin cell for battery researches. Literature Must Be Provided otherwise your bid will be rejected Warranty 03 years USA/China or equivalent</p>	1	No.			

Signature & Stamp of Bidder

6	<p>COIN CELL ELECTROLYTE FILLING Manual Pipette for Lithium-Ion Battery Laboratory Research</p> <ul style="list-style-type: none"> - Lightweight, ergonomic, low force design - Digital display clearly reads volume setting - The pipettes cover volume range of 0.1µl to 10ml - Easy to calibrate and maintain with tool supplied - Design helps avoid repetitive strain injuries - Calibrated in accordance with ISO8655. Each pipette supplied with individual test certificate. - The low part is available for autoclaving USA/China or equivalent 	1	No.			
7	<p>TOB Agate Mortar and Pestle Agate Mortar 80 mm model Packing: 1pcs Agate Mortar and 1pcs Pestle, Outside Diameter Size: 50mm No cracks, no impurities, strong anti-abrasion resistance. High-quality products gloss, strong corrosion resistance, can be used in acid polishing materials. For mixed grinding solid material or solid powder. Should be particularly careful in the use of the process, not grinding hardness too much material, not contact with hydrofluoric acid. Grinding operation, mortar should be put in is not easy to slide objects, pestle should keep vertical. Mortar cannot heating, do not put into the electric 100 mm model or equivalent</p>	1	No.			
8	<p>SUP-P, carbon black, 100g/bottle Super conductive carbon black Expiry: 02 years</p>	3	Bottles			
9	<p>PVDF,6020 or equivalent High purity Polyvinylidene fluoride(pvdf) powder for lithium battery cathode materials PVDF (Polyvinylidene fluoride) binder is for mixing together with cathode powder to prepare Lithium battery electrode. Expiry: 02 years</p>	1	Kg			
10	<p>KS-6 conductive graphite, 100g/bag Expiry: 02 years</p>	2	Bag			
11	<p>Aluminum foil, W200mm*T16um, 2.5kg/roll Lithium-Ion Battery current collector Aluminum Foil. Expiry: 02 years</p>	10	Roll			

12	Copper foil, W200mm*T10um, 2.5kg/roll Lithium-Ion Battery current collector Aluminum Foil. Expiry: 02 years	10	Roll			
13	SBR Chemicals SBR is a white styrene butadiene co- polymer	01	Kg			
14	Laptop Computer (Core i7) 11th Generation Processor: 1.3 GHz Hard Disk: 1TB RAM: 16GB RAM Screen Size: 15.6 inches Local warranty, 01 Year	01	No.			
15	One external hard disk 01 terra byte Warranty 06 months	01	No.			

E. Special Terms and conditions.

- i. Please submit the technical and financial bid (rates) on our prescribed BoQs Form and clearly mention the quoted model / brands as required in BoQs, with complete terms and conditions signed, stamped with both bids, otherwise your bid (s) may be rejected.
- ii. Bidders are requested to quote genuine / quality products without compromising on quality. The supplied products shall be inspected by our technical experts with respect to BoQs requirements and quality standards.
- iii. **Mentioning only origin of manufacturing like "Local" or "China" etc. is not acceptable. The vendors must mention the brand of the quoted item failing which may lead to rejection of the bid or respective item, as the case may be.**
- iv. Purchase / work order (s) will be awarded on **Item Wise Basis.**
- v. Kindly attach the **Tender fee with Technical Bid** and **Bid money / CDR with Financial Bid.**
- vi. **Multiple rates of an item may also lead to the rejection of bid / item.**