

TENDER PROPOSAL



Tender Notice # GH-25/11-01

Desktop Computers/Equipment/Chemicals/Furniture/Stationery/Miscellaneous Items

National Textile University, Sheikhpura Road, Faisalabad-37610
www.ntu.edu.pk

M/S.....

Introduction:

The idea of establishing a Textile Institute of world fame was conceived by a group of visionary industrialists in 1954. To realize this idea the Government of Punjab joined hands with the leading textile industrialists to form an Institute of Textile Technology in Faisalabad (then Lyallpur) and provided sixty-two acres of state-owned land free of cost. Kohinoor Industries, Colony Textile Mills, Dawood Foundation and Lyallpur Cotton Mills provided funds to the tune of Rs.2.5 million, which were utilized for the construction of building and provision of other infrastructure. The Government of U.K. provided the bulk of equipment and machinery, along with the services of experts under Colombo Plan. Field Marshall Muhammad Ayub Khan, the then President of Pakistan, laid the foundation stone of the Institute, on the 12th of October 1959.

A Board of Trustees, with the Minister of Industries as chairman and nominees of the donor companies as members was constituted to manage the affairs of the Institute. In order to meet the recurring expenses of the Institute a Cess was levied by the government on the Textile industry of Pakistan. Later, in 1965, the Institute was granted affiliation by the University of Engineering & Technology, Lahore, and it was renamed as “National College of Textile Engineering”. The first batch of graduate engineers was passed out in 1966. In 1973 the administrative control of the Institute was transferred to Federal Government, and it was renamed as “National College of Textile Engineering”.

In 1992, the college received a comprehensive assistance worth 650 million yen from the Japanese Government, through JICA program, in the form of latest machinery and equipment for all the departments of the Institution. The college was upgraded as National Textile University on 15 November 2002 through promulgation of Ordinance No. CXXIV of 2002 by the President of Islamic Republic of Pakistan.

Ever since its inception National Textile University has been the premier Institute of textile education in the country, meeting the technical and managerial human resource needs of almost entire textile industry of Pakistan. It always retained a close relationship with the industry and industrialists.

ADVERTISEMENTS OF THE TENDER # GH-25/11-01

Last date: 05-12-2025

i.	PPRA website dated	20-11-2025
ii.	NTU website dated	18-11-2025
iii.	The Express Tribune	18-11-2025
iv	Daily Ausaf	18-11-2025

Advertisement as it is:

**NATIONAL TEXTILE UNIVERSITY, FAISALABAD**
(Federally Chartered Public Sector University)
TENDER NOTICE # GH-25/11-01
Desktop Computers/Equipment/Chemicals/Furniture/Stationery/Miscellaneous Items

1. Tender will be processed through EPADS (e-Pak Acquisition & Disposal System) <https://www.eprocure.gov.pk>, otherwise, Tender will not be accepted.

2. **National Textile University, Faisalabad** invites bids as per PPRA Rule-36(b), FOR basis in sealed envelopes from the original Manufacturers, Authorized Agents/Distributors, Firms, Suppliers (GST, PST, Income Tax registered) for the purchase of following items. Delivery of all items will be made at NTU Faisalabad campus. Detail is in tender document.

Sr. #	Description	Earnest Money (Fixed) Amount (Rs.)
1	Desktop Computers (QTY = 45 Nos.)	255,000/-
2	Desktop Computers (QTY = 06 Nos.)	35,000/-
3	Different Type of 34 Electrical Items	24,000/-
4	Different Type of 21 Consumable Items	70,500/-
5	Different Type of 26 Chemicals	65,000/-
6	Different Type of 07 Furniture Items	79,500/-
7	Different Type of 40 Consumable Items	71,500/-
8	Different Type of 02 Permanent Equipment	43,000/-
9	Different Type of 12 Chemicals	13,500/-
10	(a) Different Type of 69 Stationery Items (b) Different Type of 20 General Store Items	11,000/-
11	Different Type of 13 IT Accessories/Items	60,000/-
12	Different Type of 30 Carpentry Items	7,500/-
13	Different Type of 46 Mechanical Items	6,500/-

3. Tender Document may be downloaded from the official website of NTU (www.ntu.edu.pk) or may be obtained from the office of Convener Purchase. The fee of Tender Document is non-refundable **Rs. 1,000/- (One Thousand only)**. The tender document fee will be accepted in shape of Pay order/ Demand Draft drawn on Faisalabad in the name of "**National Textile University, Faisalabad**".

4. Eligible firms should submit their bids along with earnest money (fixed) amount in sealed envelope of Technical Bid as mentioned against each serial in above table in the shape of CDR/ Bank Draft in favor of **National Textile University, Faisalabad, drawn on Faisalabad**.

5. **Date, Time, and Venue:** Sealed bids should reach in the office of Convener Purchase by or before **02:30 pm on 05-12-2025**. Bids received within the stipulated time and date will be opened by the Purchase Committee in the **Meeting Room of NTU Faisalabad** on the **same day at 03:00 pm** in the presence of the bidders or their authorized representatives.

6. The names of contact persons for any technical queries are given in tender document.

Convener Purchase
National Textile University, Faisalabad-37610, Tel: 041-9230081-85 Ext: 113, 281, www.ntu.edu.pk

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IMPORTANT NOTE	
i.	<p>a) Technical bid and financial bid shall be accepted through EPADS, the bidder shall prepare the tender bid on its original letter head and sign & stamp each page of the bid. The same bid then shall be saved in pdf (Portable Document Format) and upload on the EPADS. The created pdf file shall be in its original color scheme as of the letter head of the company /attached brochure of product if applicable.</p> <p>b) It shall be mandatory to mention the date on all bids (technical and financial proposals)</p> <p>c) Additionally, the bidder will dispatch the same bid (in hard form) to convener purchase committee of NTU.</p>
ii	<p>a) Only and only: existing Machine / Equipment/ Item / part / accessory which is indicated on the Manufacturer's web/catalogue /brochure with model number /catalogue number will be accepted where applicable.</p> <p>b) The vendor must not mention "as item name/equivalent" in the quotation. Instead, the vendor is required to clearly specify the exact item being offered, including its Name, Make, Model, and complete details. If the tender specification states an item such as "HP LED / Equivalent", the vendor should not simply repeat the same phrase in the quotation. The vendor must explicitly declare the actual product they intend to supply. Correct Format Example Tender Specification: HP LED / Equivalent Vendor Quote Should Be: LED Monitor 27-inch, Make: HP, Model: XYZ123 Incorrect Format Examples HP 27-inch LED or Equivalent HP LED as per tender Equivalent LED Monitor</p>
iii	<p>a) Any Special prepared model of Machine / Equipment / Item or its part / accessory to meet the requirement of NTU shall not be accepted where the machine / equipment /Item or its part / accessory is available generally by the registered manufacturing brands.</p> <p>b) Any Special prepared model of Machine / Equipment / Item or its part / accessory shall be accepted if it is specifically asked / indicated / mentioned in technical specification(s).</p>
iv	<p>a) Any type of alteration / modification to meet the requirement of NTU (in general) in any existing model of Machine / Equipment / Item or any part / accessory generally manufactured by registered manufacturers shall not be accepted.</p> <p>b) Any type of alteration or modification to existing models of machines, equipment, items, or any of their parts or accessories, aimed at meeting the specific requirements of NTU (in the context of R&D projects), shall only be accepted under the condition: Such alterations or modifications must be explicitly specified, requested, indicated, or mentioned in the technical specifications or tender documents related to the particular item or project.</p>
v	<p>The catalogue or brochure for the quoted model must be available on the official website of the <i>principal manufacturer</i> or <i>parent company</i>. This is to ensure authenticity and transparency in the procurement process. Catalogues or brochures that are self-prepared, altered, or fabricated by the bidder will be treated as misrepresentation or fraudulent practice. Such conduct will be considered a serious violation and may lead to severe consequences under the applicable PPRA Rules, including blacklisting, cancellation of bids, and potential legal action. Bidders are therefore strongly advised to provide only genuine and verifiable manufacturer-issued documents to avoid any complications for them in legal context of their business opportunities.</p>
vi	<p>Only the complete machine, equipment, or item in its original packing (as supplied in the country of origin) will be accepted. All components, parts, and accessories must be those provided by the original manufacturer. Any specific part or accessory that is locally manufactured will not be accepted unless it is explicitly and unambiguously stated as "locally made" in the final approved technical specifications. Failure to disclose such details will be considered as misrepresentation and may lead to rejection of the supplied goods and further applicable legal action may be preceded under the rules of Govt. of Pakistan.</p>
vii	<p>Any part, component, or accessory of the equipment/machine — even if it is essential for making the</p>

	equipment/machine fully operational as per the requirements of NTU — must not be described or labeled as “optional” in the quotation or documentation. Such essential items must be included as part of the main offer. Only those items that are explicitly and categorically requested as optional in the tender/technical specifications may be quoted separately, with clear pricing and description. Mislabeling essential components as “optional” will be considered non-compliance with tender requirements and may lead to rejection of the bid.
ix	<p>a) The successful bidder shall be strictly bound to supply only and exactly the model number of the machine, equipment, or item as quoted in their bid. Any deviation from the quoted model will not be accepted under any circumstances. Justifications such as: The quoted model is currently unavailable, Manufacturing for NTU will require an extended lead time, the model has become outdated, or the manufacturer has discontinued its production, shall not be considered valid grounds for substitution. Likewise, any offer from the bidder to supply a “latest model” or a product with “better/similar technical specifications” at the same price and delivery schedule will not be entertained under this tender. Non-compliance with this requirement shall be officially declared as “Failure in Delivery and treated as a breach of contractual obligations and may result in penalties, cancellation of the purchase order, and other actions permissible under the applicable procurement rules published in said tender terms and conditions.</p> <p>b) The cases will be referred to the Blacklisting Committee for necessary proceedings in strict compliance with PPRA Rule 19. The committee shall have the authority to recommend punitive actions, which may include blacklisting of the bidder, forfeiture of performance security, and any other measures permitted under the applicable procurement regulations.</p>
	<p>All bidders / suppliers are requested to participate independently in each item / serial / lot as indicated in the advertisement.</p> <p>Each item / serial / lot shall be compared for prices independently to calculate the most advantageous bidder.</p>
1. Deadline and Procedure for Bids:	
i.	Tender Proposals required under PPRA Rule 36(b), FOR Basis.
ii.	<p>PPRA Rule 36(b): Single stage two envelope procedure. Technical & Financial Bids must be sealed (separately) with covering letter. There must be clearly mentioned on each envelope “Technical proposal” / “Financial Proposal”.</p> <p>NOTE: 2nd, 3rd, 4th option(s) of any complete item or its any part shall not be considered in any case. Only 1st option will be considered for healthy competition under this rule.</p>
2. Bidder’s Eligibility and Qualification	
i.	Bidding firm must be registered with EPADS, Govt. tax authorities (GST, PST and Income Tax etc.) and shall submit the certificates of registration.
ii.	Bidders are required to submit the certificate along with their offer i.e. “Certified that the prices quoted in the tender are firm, final and the prices will not change in any case.
iii.	An Affidavit duly attested by the Oath Commissioner / Notary Public showing that the firm is not Blacklisted from any Govt./Semi Govt. Department of Pakistan.
iv.	Bidder must provide the Manufacturing authorization letter (MAL) where applicable (commonly mentioned in published technical specifications) or asked in the tender document
v.	Bidders shall meet and fulfill all terms and bidders / bidding criteria published in technical specifications
vi.	Bidder will provide address of nearest office to Faisalabad (optional) and Web page address (mandatory where applicable).
3. Sealed “Technical & Financial Bid”	
i.	Technical & Financial Bids must be sealed carefully (separately) with covering letter. There must be clearly mentioned on each envelope “Technical proposal” / “Financial Proposal”.
4. Conditional Tender:	
i.	Terms and conditions published in this Tender document are final. Any condition(s) imposed by the bidder in contradiction of the published document shall not be accepted .
5. Bid Security (PPRA Rule-25):	
i.	Eligible firms should submit their bids along with earnest money (fixed) amount, independently /separately as explained above in advertisement, in sealed envelope of Technical Bid in the shape of

CDR / Bank Draft in favor of National Textile University, Faisalabad, drawn on Faisalabad. Details of fixed bid security as per advertisement is given below:

Sr. #	Description	Earnest money (fixed) amount (Rs.)
1	Desktop Computers (QTY = 45 Nos.)	255,000/-
2	Desktop Computers (QTY = 06 Nos.)	35,000/-
3	Different Type of 34 Electrical Items	24,000/-
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11	Different Type of 13 IT Accessories/Items	60,000/-
12	Different Type of 30 Carpentry Items	7,500/-
13	Different Type of 46 Mechanical Items	6,500/-

In case of failure to attach the bid security mentioned as above, the tender shall not be accepted. The bidder shall be treated a disqualified from the competition.

Important Note:

1. The bid security of the **most advantageous bidder** shall be released upon submitting the performance security and signing the contract agreement.
2. All bidders who are **not declared as** the most advantageous bidder may claim the release of their bid security by submitting a written request addressed to the Convener, Purchase Committee. Upon receipt of such a request, the Convener, Purchase Committee, may release of the bid security within seven (7) working days. However, the bid security of the **second most advantageous bidder** shall be retained until the issuance of the supply order, after which it shall be released accordingly.

6. Performance Guarantee (PPRA rule 39):

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|-----|---|
| i. | <p>a) Successful bidder shall provide an amount of 06% of the quoted price in the form of CDR/Pay order within the 07 working days after the issuance of the intimation letter along with the contract agreement {A contract agreement on stamp paper as per Punjab Govt. finance act 2018 (Sr. # 2C(b)) will be signed by the bidder / supplier}.</p> <p>b) Supply order will be issued after the fulfillment of the above requirements.</p> |
| ii. | <p>a) Performance guarantee shall be retained only for the items in serial No. 1, 2, 6, 8 and 11 (only for Item # 13), for the given warranty period (01 year) that will start from the date of commissioning/ installation/supply.</p> <p>b) An amount of 06% excluding serial No. serial No. 1, 2, 6, 8 and 11 (only for Item # 13), will be returned / reimbursed back after the comments from the end user at the time of job completion.</p> <p>c) All consumables and other supplied items must fully comply with the given specifications and be free from any breakages, cracks, defects, shortages in quantity or weight, and must be within the valid expiry date (where applicable). The bidder shall ensure careful handling and delivery of all consumable or fragile items. Such items must be handed over in person to the designated NTU representative and must not be dispatched through luggage carriers, courier services (e.g., TCS), or any similar means that may compromise their condition or safety. Non-compliance with these requirements will be treated as a breach of delivery terms and may lead to rejection of the supplied</p> |

	<p>goods.</p> <p>d) The supplied items, including all components and parts, must be BRANDED, meaning they shall be originally manufactured and assembled by the principal manufacturer. All goods must be complete in all respects, delivered in their original manufacturer's packing, and must strictly conform to the specifications stated in the tender documents. Any deviation, counterfeit, imitation, refurbished, or locally assembled parts in place of branded originals will be treated as non-compliance and may result in rejection of the goods, forfeiture of performance security, and further action under applicable procurement regulations.</p> <p>e) Any used part /component (inner or outer) will not be accepted.</p> <p>f) In cases where parts need to be manufactured, or alterations/modifications are required in relation to the assigned task for a research project, such work shall be carried out only under the recommendation and direct guidance of the Principal Investigator. The bidder/supplier shall strictly adhere to the specifications, instructions, and approval protocols issued by the Principal Investigator to ensure the modifications align with the objectives and technical requirements of the research project. Any deviation without prior written approval will be considered a breach of contract.</p>
7. Taxes/Duties:	
i.	FOR basis: Applicable all Govt. Taxes will be paid by the bidder.
ii.	All payments will be made after the supply of items.
iii.	A formal Contract Agreement shall be executed on stamp paper in accordance with the Punjab Finance Act, 2018 [Sr. No. 2C(b) — i.e., stamp duty of 25 paisas for every one hundred rupees]. This agreement must be duly signed by the bidder / supplier prior to the commencement of any supply of goods or provision of services. Failure to execute the agreement in compliance with the prescribed legal requirements may result in cancellation of the award and initiation of further action as per applicable rules.
8. Bid Validity Period:	
i.	All quoted prices shall be firm and guaranteed not to increase for the duration of the contract, once an order has been placed. The bidder's offer shall remain valid for a minimum period of 120 days from the date of opening of the tender, in accordance with PPRA Rule 36(b). Any bid stipulating a shorter validity period shall be considered non-responsive.
9. All Expenditures like: Freight/Loading / Unloading / Commissioning / Installation on site	
i.	All costs and expenditures related to freight, loading, unloading, installation, on-site training (covering operation, maintenance, troubleshooting, and any other relevant aspects), as well as the testing and commissioning of the equipment / item / machine at the designated site, shall be borne entirely by the bidder. These services and activities shall be provided at no additional cost to the purchaser and must be carried out in a professional manner to ensure the equipment is fully functional and meets the specified requirements. Any failure to provide these services in full shall constitute non-compliance with the contractual terms.
ii.	All costs and expenditures incurred up to the place of installation / supply at NTU Faisalabad for the item(s) / equipment shall be borne entirely by the bidder and must be included in the quoted bid price . This includes, but is not limited to, transportation, freight, loading, unloading, handling, and any other associated charges. No separate or additional payment shall be made for these expenses under any circumstances.
10. Requirement:	
i.	The items /services must be according to the specifications provided.
Training / Trainer (Foreign or Local):	
ii.	Where applicable, training for the equipment / machine shall be conducted on-site at NTU Faisalabad by qualified engineers (local or foreign). The bidder must ensure the availability of the trainer (local or foreign) to provide comprehensive training to NTU's laboratory engineers, MS, and PhD students, as well as faculty members as per training details

	<p>mention in tender where applicable.</p> <p>The training shall cover operation, maintenance, troubleshooting, and any other relevant aspects necessary for the effective use of the equipment / machine.</p> <p>Note: In cases where a foreign trainer is required, the bidder must verify and ensure their availability in compliance with the travel rules and regulations of the trainer's country for visiting Pakistan prior to submitting their bid and quoting prices. Any failure to provide the committed trainer as quoted will be treated as non-compliance and may lead to penalties under the contract.</p>
iii.	<p>Redressal of Grievances (PPRA rule-48)</p> <p>A Grievances Committee has been constituted as per PPRA rule-48 for the published tenders. The role of this committee is to address and resolve any disputes or issues arising between the University and the bidders. All matters brought before the committee shall be examined strictly in light of the tender's published terms and conditions as well as the contract agreement if signed between NTU and the bidders.</p> <p>The committee is bound to act within the framework of these agreed terms, ensuring that the rights and obligations of both parties are upheld in accordance with the tender provisions per PPRA rule 48.</p>
iv.	<p>Warranty:</p> <ol style="list-style-type: none"> 1. Warranty only for the items, for serial No. 1, 2, 6, 8 and 11 (all items) shall be of one year. 2. The warranty shall cover the replacement of the supplied item, machine, equipment, or specific machine parts, wherever applicable. 3. In case of a warranty claim, no additional charges shall be payable by the University. This includes, but is not limited to, courier charges, transportation costs, labor charges, machine handling expenses, or expenses related to visiting engineers such as travel fare, boarding, and lodging. 4. All such additional expenses shall be borne entirely by the supplier/bidder. 5. Warranty period of one year shall be considered from the date of supply / commissioning / installation (operational on site). 6. The bidder shall be required to obtain a formal certificate confirming that the supplied machine / equipment is fully installed and operational at the designated site (Operational on site). 7. This certificate must be duly issued and signed by the Technical Committee, or the Principal Investigator in cases where the machine / equipment relates to a specific research project. 8. The certificate shall be considered as official document verifying that the equipment has been delivered, installed, and is functioning in accordance with the specified requirements.
v.	<p>Penalty for late delivery:</p> <p>In case of late delivery by the bidder/supplier, where the equipment is not supplied as per the required specifications or quantity within the stipulated time (without prior extension/approval from the competent authority, i.e., Rector, National Textile University), a penalty shall be imposed at the rate of at least 0.25% and up to a maximum of 10% per month, subject to the approval of the competent authority.</p>
11. Prices:	
i	<ol style="list-style-type: none"> a) The bidder shall quote the prices on FOR basis (It is further explained as the vendor /bidder /supplier shall supply (items /equipment /parts of machine or any supply mentioned in its supply order / work order) in the main store of the National textile University, or the place / space specified anywhere in the University premises). b) All prices must be quoted in Pak Rupees (PKR). Payments for equipment, items, or services shall only be made after successful supply, installation, commissioning, and on-site operation. c) No advance payment, whether in the form of cash, cheque, or any other mode, shall be made under any circumstances.

ii	<p>a) The bidder/supplier shall quote the price of each equipment/machine/item strictly in accordance with the published technical specifications. Any part or accessory defined as “optional” by the manufacturer but required to fully meet the tender specifications shall be included in the main quoted price. Only additional parts or accessories, not specified in the tender but available with the equipment, may be quoted separately with their prices clearly marked as optional.</p> <p>b) In cases where a bidder considers an optional part to be mandatory, but the Technical Committee does not, or where a bidder treats a mandatory part as optional, but the Technical Committee considers it necessary, the final rate shall be calculated strictly on the recommendation of the Technical Committee. Furthermore, if a bidder does not provide any clear distinction between optional and mandatory parts but quotes a complete price of the equipment/machine in line with the published technical specifications, the quoted price of the vendor shall be treated as final.</p>
12. Payments:	
i	The Payment will be made on the availability of funds (approvals from Government planning agencies etc., other relevant authorities and University management). If payment is delayed (from Government planning agencies, other relevant authorities, and University management) due to any reason; no extra interest/mark-up will be paid to the supplier/bidder.
13. Expenditures:	
i.	All expenditures associated with the supply, service, or guarantee period shall be the sole responsibility of the supplier/bidder. This includes, but is not limited to, technical service charges, personnel costs, transportation expenses, and any charges incurred for the repair or replacement of defective or damaged part(s) of the supplied item(s)/equipment. The University shall not bear any financial liability in this regard under any circumstances. The supplier/bidder shall ensure timely provision of such services and replacements at no additional cost to the University, thereby maintaining uninterrupted functionality of the supplied equipment throughout the guarantee period.
14. Conformity with given Specifications:	
i.	All equipment/items/supplies shall be inspected on-site at National Textile University in the presence of the supplier / bidder or their authorized representative. During inspection, if any equipment, item, or part is found to be non-compliant with the published technical specifications, it shall be rejected outright. In such cases, the supplier / bidder shall be responsible for the prompt replacement or rectification at their own cost, without any financial or operational liability on the part of the University
ii.	In case any material / item is found not to be in conformity with the specifications provided in the tender, whether due to inferior quality, defective workmanship, faulty design, short supply, or wrong supply, the supplier shall be bound to replace the deficient, faulty, or wrongly supplied material / item at no additional cost to the University. This replacement shall include all associated expenses such as transportation, handling, and service charges, which shall be borne entirely by the supplier.
iii.	In case of failure by the supplier to supply / provide the required services, equipment, or items as per the specified quality, specifications, or quantity within the stipulated time, the matter shall be referred to the NTU Blacklisting Committee for action in accordance with the University’s Blacklisting Policy (available on the NTU website).
iv.	The bidder shall quote only those products/items that meet 100% of the published specifications. The specifications provided in the tender are minimum requirements and are self-explanatory; therefore, full compliance is mandatory. The bidder must not quote any product, item, or equipment that does not meet these minimum specifications.
15. Notification of award:	
i.	The university will award the contract to the technically successful bidders/suppliers whose tender has been determined to be substantially responsive and has been determined as the most advantageous financial proposal.
ii.	The University will display the official comparative statement on EPADS, or the notice board for

	which such date will be notified to all bidders / suppliers accordingly.
16. Blacklisting:	
i.	<p>a) If a vendor withdraws its bid or requests not to proceed further before signing the contract agreement, it shall very strictly face the forfeiture of its bid security, without exception. This measure is applied in accordance with procurement rules and reflects the seriousness of withdrawing from a binding bidding process. Furthermore, if a vendor commits a breach of contract after award, the case shall be referred to the NTU Blacklisting Committee for necessary action. The process and implications of blacklisting are explicitly defined under Rule 19 of PPRA, and the University shall enforce them as required.</p> <p>b) The Blacklisting policy can be downloaded from the NTU website url: https://www.ntu.edu.pk/tender-details.php?id=3102 as per PPRA rule-19.</p>
17. Mandatory Signature & Stamp:	
i.	Bidder or its authorized representative must sign & stamp with date each page of the bid documents (tender document, technical bids & financial bids). The bidder / supplier shall also provide the certificate (with all information asked) that is provided on page no. 11 of this document named as Declaration Certificate (Mandatory).
18. Rights of the University:	
i.	In case of conflicts, it is fundamental that issue will be resolved as per PPRA rule, Govt. of Pakistan.
ii.	The University reserves the right to reject any or all bids with assigning reason(s).
iii.	The University reserves the right to ignore or waive off minor irregularities or errors in any offer.
iv.	The University reserves the right to award the contract to one bidder or divide it among several bidders. (if applicable)
v.	<p>a) The University reserves the right to cancel the offer of the Bidder whose bid has been found financially to be the most advantageous bid if it is revealed to the University that the Bidder does not have the capability or financial resources or facilities to carry out the contract in accordance with the terms and conditions of this Tender Documents.</p> <p>b) The university may ask the bidder to provide details of its technical resources and proof of facilities for verifications additionally proof of financial capacity, such as recent bank statements or a bank guarantee equal to the value of the project, for said supply order, or work order as per the published tender.</p>
19. Force Majeure:	
i.	<p>a) The supplier / bidder shall not be liable for any additional costs, penalties, or liquidated damages in the event of delay or failure to perform the contract obligations arising from <i>force majeure</i> or circumstances beyond their reasonable control. Such causes may include, but are not limited to, acts of God, natural disasters, war, strikes, lockouts, government restrictions, or any other unforeseeable and uncontrollable events that prevent the fulfillment of contractual obligations.</p> <p>b) In the occurrence of such an event, the supplier / bidder shall be required to inform the University in writing immediately, and in any case before the expiry of the stipulated delivery or completion period, clearly stating the nature, cause, and expected duration of the delay.</p> <p>c) Upon receipt of such information / intimation letter from vendor / supplier, the University shall examine the facts and assess the extent of the impact. If satisfied that the delay is genuinely attributable to <i>force majeure</i>, the University may, at its sole discretion, extend the time for fulfilment of the contract to the extent justified by the circumstances or may act for other action according to the Govt. laws.</p> <p>d) Failure of the supplier / bidder to provide timely written intimation as specified shall render the claim of <i>force majeure</i> invalid, and the supplier / bidder shall remain fully liable for penalties or damages as per the contract terms as per published tender terms and conditions. (tender documents are incorporated).</p>
20. Legal proceedings:	

i.	The law of Pakistan shall govern the contract and the tender documents. Any dispute arising out shall be decided by Competent Authority of the University as per PPRA rules.	
For any technical query even for any confusion in understanding tender document/technical specifications, pl contact following persons.		
21. Contact Person(s):		
Sr.# 1, 2 and 11	Mr. Muhammad Shahzad Arshad:	041-9230081-85, Ext. 281
Sr.# 3, 12 and 13	Mr. Muhammad Qamar Nawaz:	041-9230081-85, Ext. 250
Sr.# 4 and 5	Dr. Ahsan Nazir:	041-9230081-85, Ext. 192
Sr.# 6	Dr. Muhammad Asif:	041-9230081-85, Ext. 140
Sr.# 7, 8 and 9	Dr. Wasif Razaq:	041-9230081-85, Ext. 244
Sr.# 10	Mr. Waqar Ahmad:	041-9230081-85, Ext. 139

**Declaration Certificate
(Mandatory)**

"I, on behalf of (company name), hereby solemnly declare that I have thoroughly read and understood all the terms and conditions outlined in the tender document (Tender Notice # GH-25/11-01) issued for the National Textile University, Faisalabad. I confirm that all the information provided by the undersigned in the tender proposal for the said tender is accurate, complete, and true to the best of my knowledge. I fully accept responsibility for the correctness of the information provided and understand that any discrepancies or inaccuracies may result in disqualification from the tender process."

It is hereby certified that the quoted prices against the tender are firm, final and guaranteed that prices will not change/increase in any case.

Signature

Date: _____

Company name address & stamp.

Specifications

Tender Serial No. 1
Technical Specifications
Desktop Computers
(QTY = 45 Nos.)

- **Computer Type:** Business Tower Desktop PC
- **Processor:** 14th Generation Intel Core i5, 14 cores, 20 threads, 24 MB cache, up to 5.00 GHz
- **Memory:** 1×16GB DDR5 4800 MHz RAM
- **Storage:** 500 GB PCIe NVMe Solid State Drive
- **Connectivity:** Built-in Wi-Fi 6 + Bluetooth 5.3
- **Video Ports:** 1× HDMI, 1× DisplayPort, 1× VGA
- **Other Ports:**
 - 8 USB Ports
 - 1× Serial Port
 - Built-in Headphone/Microphone Combo Port
- **Network:** Minimum 1× 10/100/1000 Gigabit Ethernet Port
- **Audio:** Built-in Speaker
- **Accessories:** USB Wired Keyboard and Mouse of similar brand as packed by manufacturer
- **Monitor:** 21-inch FHD 95Hz Monitor compatible with quoted PC in similar brand or higher
- **Warranty:** Minimum 1 Year OR channel warranty by the manufacturer

Conditions:

1. All components should be factory integrated. No local addition/upgradation will be accepted and same will be verified by the serial number and also verified from respective manufacturer.
2. Computer must be branded (like renowned international brands HP/Dell/Lenovo etc.). Locally assembled/configured/altered computers are not acceptable.
3. Vendor must provide manufacturer authorization letter (MAL).



Tender Serial No. 2
Technical Specifications
Desktop Computers
(QTY = 5)

Computer Type: Business Tower Desktop computer system

Processor: 14th Generation Intel Core i5, 14 cores, 20 threads, 24 MB cache, up to 5.00 GHz

Memory: 1×16GB DDR5 4800 MHz RAM

Storage: 500 GB PCIe NVMe Solid State Drive

Connectivity: Built-in Wi-Fi 6 + Bluetooth 5.3

Input /output Ports:

Video Ports: minimum 1× HDMI, 1× DisplayPort, 1× VGA

USB Communication Ports: minimum 8 USB Ports (3.0 or above), Minimum 1× Serial Port

Audio Port: Built-in Headphone / Microphone Combo Port

Network Port: Minimum 1× 10/100/1000 Gigabit Ethernet Port

Audio: Built-in Speaker as provided by manufacturer


Accessories: USB Wired Keyboard and Mouse of similar brand as packed by manufacturer


Monitor: 21-inch FHD 95Hz Monitor compatible with quoted PC in similar brand or higher

Warranty: 3 Year channel warranty by the manufacturer or more

Mandatory Terms & Conditions:

1. All components should be factory integrated. No local addition/upgradation will be accepted and same will be verified by the serial number and also verified from respective manufacturer.
2. Computer must be branded (like renowned international brands HP/Dell/Lenovo etc.). Locally assembled configured altered computers are not acceptable.
3. Vendor must provide manufacturer authorization letter (MAL).
4. These specifications are minimum therefore the vendor should quote and comply the specifications 100 %. Less compliance to the specifications may lead to disqualification technically


Muhammad Shahzad Arshad
System & Security Administrator
National Textile University
Faisalabad.


Abid Hussain
Network Administrator
National Textile University
Faisalabad.

Tender Serial No. 2

**Technical Specifications
Desktop Computers with Display Monitor 27 Inch
(QTY = 1)**

Computer Type: Business Tower Desktop computer system

Processor: 14th Generation Intel Core i5, 14 cores, 20 threads, 24 MB cache, up to 5.00 GHz

Memory: 1×16GB DDR5 4800 MHz RAM

Storage: 500 GB PCIe NVMe Solid State Drive

Connectivity: Built-in Wi-Fi 6 + Bluetooth 5.3

Input /output Ports:

Video Ports: minimum 1× HDMI, 1× DisplayPort, 1× VGA

USB Communication Ports: minimum 8 USB Ports (3.0 or above), Minimum 1× Serial Port

Audio Port: Built-in Headphone / Microphone Combo Port

Network Port: Minimum 1× 10/100/1000 Gigabit Ethernet Port

Audio: Built-in Speaker as provided by manufacturer

Accessories: USB Wired Keyboard and Mouse of similar brand as packed by manufacturer

Monitor: 27-inch FHD 95Hz Monitor compatible with quoted PC in similar brand or higher

Warranty: 3 Year channel warranty by the manufacturer or more

Mandatory Terms & Conditions:

1. All components should be factory integrated. No local addition/upgradation will be accepted and same will be verified by the serial number and also verified from respective manufacturer.
2. Computer must be branded (like renowned international brands HP/Dell/Lenovo etc.). Locally assembled configured altered computers are not acceptable.
3. Vendor must provide manufacturer authorization letter (MAL).
4. These specifications are minimum therefore the vendor should quote and comply the specifications 100 %. Less compliance to the specifications may lead to disqualification technically

Muhammad Shahzad Arshad
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National Textile University
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Abid Hussain
Network Administrator
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Tender Serial No. 3

Different Type of Electrical Items (Qty. 05)				
Sr.	Item	Description	Unit	Qty.
1	DB/Panel accessories Providing and fixing DB/Panel accessories of required rating and size i/c copper screws of approved brand complete in all respects as approved and directed by the Engineer Incharge. Digital Ammeter (0-9999 Amp)	The specifications of the DB-1 must be met, included, and prepared as mentioned below: Incoming section MCCB, 3- pole, 100 A, 15 KA, Schneider/ Terasaki (1 No.) Phase indication lights, 22 mm (3 Nos) Out going section MCB, 2 pole, 63 A, 6 KA, Schneider/ Terasaki (3 No.) Panel size: 14 inch * 20 * 7 inches The specifications of the DB-2 must be met, included, and prepared as mentioned below: Incoming section MCCB, 3- pole, 100 A, 15 KA, Schneider/ Terasaki (1 No.) Phase indication lights, 22 mm (3 Nos) Out going section MCB, 2 pole, 63 A, 6 KA, Schneider/ Terasaki (3 No.) MCB, 1 pole, 16 A, 6 KA, Schneider/ Terasaki (9 No.) MCB, 1 pole, 32 A, 6 KA, Schneider/ Terasaki (3 No.) MCB, 1 pole, 63 A, 6 KA, Schneider/ Terasaki (1 No.) Panel size: 20 * 26 * 7 inches Both PDBs must be with powder coated paint RAL- 7035 attached door lock and hinges. Panel comprise of two door including protection door Back Side Also Door GI Sheet 16 will Use for Fabrication With Including Imported Hinges & Key Door Lock System Ventilation Grills With Clear in all aspects. Accessories Fitting with including Power & Control Wiring with Copper Cable, Copper Thimbs with Shrouds, Neutral strip, PVC Duct, MCB Railing Channels, Cable Ties, Sprial Pipe With Clear in all aspects	NO	2.00
2	Cable 2/C 7/44	Purely Cu, and Fast , GM or similar maker	COL	0.50
3	Flexible Cable 10mm 3 Core	Purely Cu, flexible and Fast , GM or similar maker	FT	60.00
4	Pvc Cable Flexible 2 Core 10mm	Purely Cu, flexible and Fast , GM or similar maker	FT	60.00
5	Cable 1 Core 16mm	Purely Cu, flexible and Fast , GM or similar maker	FT	30.00



Supervisor



Assistant Director (Maint.)

Different Type of Electrical Items (Qty. 25)				
Sr.	Item(s)	Unit	Qty.	Specifications/Purpose/Remarks
1	Cable 3/.029 S/C	COIL	4 00	Campus miscellaneous electric repair works. (Pure copper & should be manufactured by FAST or GM, Cables)
2	Cable 7/.029 S/C	COIL	3 00	Campus miscellaneous electric repair works. (Pure copper & should be manufactured by FAST, or GM, Cables)
3	Universal Switch 5 in 1	NO	36 00	Anchor made or equivalent
4	Pvc Rawal Plug 14	PKT	24.00	14 No. Adam jee made or equivalent
5	Pvc Bend 3/4"	NOS	60.00	Adam jee made or equivalent
6	Pvc Socket 3/4"	NOS	60.00	Adam jee made or equivalent
7	Pvc Pipe 1"	FT	300.00	Adam jee made or equivalent
8	Pvc Pipe 3/4"	FT	300.00	Adam jee made or equivalent
9	Pvc Clamp 1"	PKT	5.00	Adam jee made or equivalent
10	Pvc Clamp 3/4"	PKT	5.00	Adam jee made or equivalent
11	Screw Black 1/2"	PKT	6.00	With black oxide coating
12	Screw Black 1"	NOS	12.00	With black oxide coating
13	Screw Black 1.5"	PKT	24.00	With black oxide coating
14	Screw Black 2"	PKT	6.00	With black oxide coating
15	Screw Black 2.5"	PKT	6.00	With black oxide coating
16	Tank Float Switch	NOS	4.00	Faisal Made or equivalent
17	Pvc Board 4x4	NOS	80.00	Adam jee made or equivalent
18	Clamp Meter	NOS	1.00	Digital AC/DC up to 1000 V ac and dc ,UNI-T made or equivalent, high quality
19	Bulb Holder	NOS	60.00	Km made or equivalent
20	Power Plug 15 A	NOS	36.00	Anchor made or equivalent
21	Fuse	NOS	25.00	Tomzon made DC fuse 32 A with base holder
22	Safety Holder	NOS	60.00	Anchor made or equivalent
23	Switch Plate 6 Hole	NOS	10.00	Thickness : 4 mm
24	Switch 10 A Piano	NOS	60.00	Anchor made or equivalent
25	Dimmer Piano	NOS	24.00	Anchor made or equivalent


Supervisor


Assistant Director (Maint.)

Different Type of Electrical Items (Qty. 03)				
Sr.	Item(s)	Unit	Qty.	Purpose/Remarks
1	Tube Light Complete 40w	No's	100.00	To replace faulty panel lights in the Fashion and design. The new lights must include the following specifications: Input Voltage: 135–265 V AC Frequency: 50 Hz Driver: Included Power: 40 Watt Color Temperature: 6500 K Life Span: 20,000 hours Luminous Flux: 4000 lm Dimensions (L×W×H): 1200 × 75 × 25 mm CRI: >80 Protection Class IEC: Safety Class II Warranty: 2 years (Fast, Philips or equivalent brand)
2	Cable 3/.029 S/C	COIL	2.00	Pure copper & should made by Fast, GM, or Newage
3	Cable 40/.076 2/C	COIL	1.00	Pure copper & should made by Fast, GM, or Newage



Supervisor

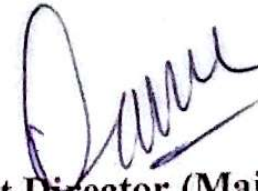


Assistant Director (Maint.)

Sr.	Item	Description	Unit	Qty.
1	Tube Light Complete 40w	The lights must include the following specifications: Input Voltage: 135–265 V AC Frequency: 50 Hz Driver: Included Power: 40 Watt Color Temperature: 6500 K Life Span: 20,000 hours Luminous Flux: 4000 lm Dimensions (L×W×H): 1200 × 75 × 25 mm CRI: >80 Protection Class IEC: Safety Class II Warranty: 2 years (Fast, Philips or equivalent brand)	No's	75.00



Supervisor



Assistant Director (Maintenance)

Specifications of Tender Serial No. 4

Sr #	Consumables	Specifications/Part No	Packing size	Quantity required	Any Other Specs./ Special Instructions*
1.	Rubbing Fabric (5cm x 5cm)	--	500 pieces pack	4 packing	ISO 105-F09
2.	Medicine Dropper	Graduated	No.	12	Conforms to AATCC 79
3.	Air Filter	--	No	02	Compatible With Denco Conditioner
4.	Multifiber fabric DW (wool)	0.6 inch bands	50 meters roll	1 roll	Complies with ISO 105 F10
5.	Microscope Glass slides	1 x 3 inch 1-1.2 mm thick	Pack of 72	2 Packs	Ground Edges
6.	Nitrile Gloves	Box	Pack of 100	2 Boxes	Blue
7.	Surgical Face Mask	3 layers	Pack of 100	5 Packs (500 masks)	--
8.	Test Paper for Phenolic Yellowing	100x 75 mm	Pack of 50	1 Pack	Conforms to ISO 105 X18
9.	Standard Fabric for phenolic Yellowing	100x 30 mm	Pack of 25	1 Pack	Conforms to ISO 105 X18
10.	Textile Permanent Marker	--	No.	3	--
11.	Bursting Verification Foil	Strength 9-15 Psi & 54-72 Psi	Pack of 10	2 Pack	Must Conform to ISO 13938-2

Note: 1. Without verified copy of **Certificate of Analysis** (where applicable), no supply will be accepted.
2. Supplies in parts, will not be accepted.

Sr	Items Description	Specifications	Packing Size	Quantity
12	Spray neubilizer glass U	Part No # G8010-60255 for ICP-OES	No	1
13	Double Pass Spray Chamber	Part No# G8010-60256 for ICP-OES	No	1
14	Zorbax Eclipse XDB C18, 150mm x 2.1mm, 5µm	Part No# 993700-902 for LC-MS	No	1
15	Gemini C18 110Å 150 x 2 mm, 5µm	Geminie or equivalent performance with same dimensions for Carcinogenic dyes for LC-MS/MS	No	1
16	Ferrule MS Side	Part No#(5062-3508) Pack of 10 for GC-MS	Pack of 10	1 Pack
17	Ferrule GC Side	Part No# (5181-3323) Pack of 10 for GC-MS	Pack of 10	1 Pack
18	HP-5MS, 30m x 0.25mm x 0.25µm,	Part No:19091S-433 J&W or equivalent performance for GC-MS	No	1
19	DB-35MS, 30 m, 0.25 mm, 0.25 µm	Part No: 122-3832 for GC-MS ,J&W or equivalent performance for GC-MS	No	1
20	Argon Inlet Filter	Part No#Part#G8010-60136 for ICP-OES	No	1
21	High-performance ZORBAX Guard Fittings Kit with ZORBAX Eclipse XDB-C8, 2.1 x 12.5 mm, 5 µm, 400 bar, guard cartridge	Part No: 820999-901 Part No: 821125-926	No	1

Specifications of Tender Serial No. 5

Specifications of Chemicals				
Sr. No.	Items	Specification	Packing	Total Quantity
1	Acetonitrile	LCMS grade CAS # 75-05-8 ,LCMS Grade,Purity: 99.99% ESI+ mode (as reserpine)≤ 50 ppb,ESI- mode (as 4-nitrophenol/as reserpine) ≤ 50 ppb	2.5 Liter	20.0 liter
2	Methanol	LCMS grade CAS # 75-05-8,LCMS grade ,Purity: 99.90% ESI+ mode (as reserpine)≤ 50 ppb,ESI- mode (as reserpinel) ≤ 50 ppb	2.5 Liter	20.0 liter
3	Tertiary butyl methyl ether	CAS # 1634-04-4,for gas chromatography ECD and FID ,Purity: 99.90% GC/ECD (Retention range 1,2,4 trichlorbenzene to	2.5 Liter	10.0 liter
4	Tetra hydro furan	LCMS grade CAS # 109-99-9 for gas chromatography ECD and FID ,Purity: 99.90%, Must be BHT/DEHP/DEP/DMP free	2.5 Liter	10.0 liter
5	LCMS garde Water	CAS # 7732-18-5 LCMS Garde Conductivity less than 1US/CM No LC/MS TIC signals higher than 10 ppb Reserpine (ESI+ mode) and 20 ppb 4-Nitrophenol (ESI- mode)	2.5 Liter	50.0 liter
6	Formaldehyde solution 37%	CAS # 50-00-0 ,Purity:370% ,ACS Grade Merck or Equivalent	1.0 Liter	2.0 liter
7	Acetone	CAS # 67-64-1Purity:99.9% min by GC% High purity mobile phase for HPLC and/or extraction solvent for GC applications ,LCMS Grade	1.0 Liter	5.0 liter
8	Toulene	Pesticide grade ,CAS # 108-88-3,Purity 99+%, Extra Pure,Naphthalene free	1.0 Liter	5.0 liter
9	Sodium dithionite	CAS # 7775-14-6,Purity> 95%,Extra Pure	1Kg	3.0 Kg
10	Ammonium Acetate	CAS Number: 631-61-8,ACS reagent Purity≥97%	1Kg	2.0 Kg

11	Extran Detergent	CAS #: 1310-73-2 , liquid, alkaline, phosphate-free concentrate	2.5 Liter	10.0 liter
12	Citric acid	CAS# 77-92-9 ,Purity 99.5 %	1Kg	2.0 Kg
13	Syringe Filter PTFE 0.45um	Pack of 100	Pack of 100	10.0 Pack
14	GCMS vials Transparent 2 ml	Part No#5182-0714 with caps and Septa, Pack of 100	Pack of 100	10.0 Pack
15	GCMS vials AMBER 2 ml	Part No#5182-0716 with caps and Septa, Pack of 100	Pack of 100	2.0 pack
16	Derivitizing agent for chlorophenol test	Analytcai grade with 99% purity,Acetic anhydride CAS#108-24-7	100ml	500 ml

Requirements:

- 1- Complete Specifications will be accepted for Technical Evaluation including Purity ,Packing Size, Lot number Tracability
2-Supply of All items must be in 90 days time frame provided by The Procuring Agency at the time of issuing of Confirm Purchase Order.
3-Packing size of each item must be as per NTU Specifications.
4-Shelf Life of Chemicals must be greater tha 30 months from date of supplies delivered to END USER

#	Chemical Name (write molecular weight where applicable)	CAS #	Grade/ Purity	Packin g size	Quantity required	Any Other Specs./ Special Instructions*
17	Sulphuric acid, (H ₂ SO ₄)	7664-93-9	98 %	2.5 Liter	50 Liter	Certificate of analysis
18	Formic acid	64-18-6	98-100 %	2.5 Liter	30 Liter	Certificate of analysis
19	Zinc Chloride	7646-85-7	98%	1.0 kg	10 kg	Certificate of analysis
20	Dimethyl formamide	68-12-2	99%	2.5 Liter	15 Liter	Certificate of analysis
21	Hydrofloric Acid	7664-39-3	49%	2.5 Liter	2.5 Liter	Certificate of analysis
22	Ethanol	64-17-5	Lab Grade	2.5 Liter	2.5 Liter	Certificate of analysis
23	L-histidine monohydrochloride monohydrate	5934-29-2	Lab Grade	100 Grams	100 grams	Certificate of analysis
24	Tetrachloroethylene (perklon)	127-18-4	Lab Grade	2.5 Liter	5 Liter	Certificate of analysis
25	Lithium Chloride	7447-41-8	Crystal reagent grade	1.0 Kg	1.0 Kg	Certificate of analysis
26	N,N-Dimethylacetamide	127-19-5	99%	2.5 Liter	2.5 Liter	Certificate of analysis

- Note:**
1. Without verified copy of **Certificate of Analysis**, no supply will be accepted.
 2. Shelf life less than **2 Years**, will not be accepted.
 3. Supplies in parts, will not be accepted.



Technical specification Computer Lab Chair

Serial no # 06 (QTY = 45 No.)

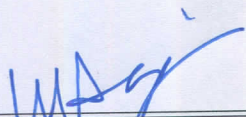


Reference Image of Lab Chair for design

- **Backrest:** Breathable mesh backrest with ergonomic lumbar support to ensure proper posture during long sessions.
- **Armrests:** Fixed padded armrests for added comfort and support.
- **Seat Cushioning:** High-density foam seat with durable upholstery for extended comfort.
- **Height Adjustment:** Equipped with a hydraulic height adjustment system for smooth and precise seat height customization.
- **Reclining Feature:** Lockable tilt mechanism allowing the backrest to recline at multiple angles for user flexibility.
- **Swivel:** 360-degree revolving feature for ease of movement in any direction.
- **Base:** Robust 5-star base for enhanced stability and durability or better.
- **Casters:** Dual-wheel smooth-rolling casters for effortless mobility on various surfaces, including hard floors and carpets.
- **Weight Capacity:** Supports up to 120 kg, ideal for continuous use.
- **Warranty:** Minimum warranty is One year.

A handwritten signature in black ink, appearing to be 'M. A. M.', located below the list of specifications.

Tender Serial No. 6 (Item # 2)

S/No	Technical Specifications	Qty Required
1	<p>Computer Lab Tables</p> <p>Height = 2'-6", Width = 1.5 to 2 feet, Length = 4.5 feet two pieces (9-feet)</p> <p>Sample as per sample</p> <p>Note: Desk may be viewed at IT Centre, National Textile University</p> 	45

Technical Specification Executive Chair

Serial no # 06 (QTY = 08 No.)



Reference Image of Executive Chair for design

- **Backrest:** High-density foam seat with durable upholstery for extended comfort.
- **Armrests:** Fixed padded armrests for added comfort and support.
- **Seat Cushioning:** High-density foam seat with durable upholstery for extended comfort.
- **Height Adjustment:** Equipped with a **hydraulic height adjustment system** for smooth and precise seat height customization.
- **Reclining Feature:** Lockable tilt mechanism allowing the backrest to recline at multiple angles for user flexibility.
- **Swivel:** 360-degree revolving feature for ease of movement in any direction.
- **Base:** Robust 5-star base for enhanced stability and durability or better.
- **Casters:** Dual-wheel smooth-rolling casters for effortless mobility on various surfaces, including hard floors and carpets.
- **Weight Capacity:** Supports up to 120 kg, ideal for continuous use.
- **Warranty:** Minimum warranty is One year.

WA

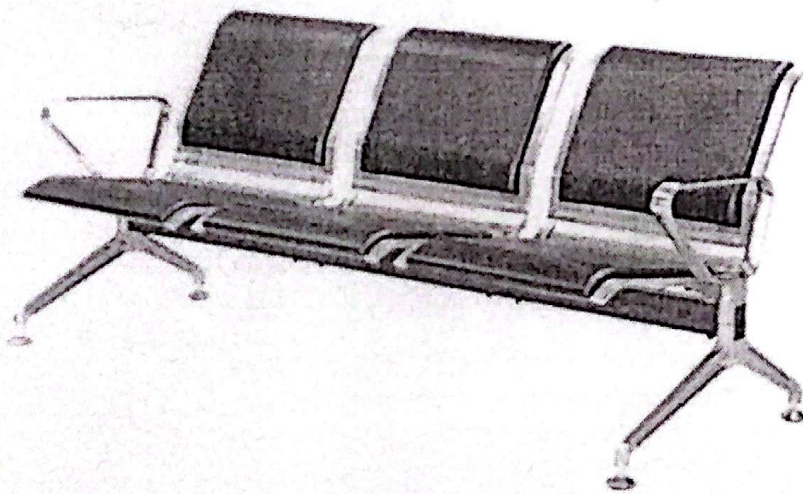
Tender Serial No. 6
Technical Specifications
Bench Stainless Steel
QTY =10

Steel Three Seater Bench

Made from top quality stainless steel after precise pressing,
1.5mm thickness perforated stainless steel board, Made from top
Quality stainless steel, Arms/Legs: 1.5mm thickness stainless steel

Minimum Dimensions:

1800mm*680mm*800mm



Pictures are shown for reference only. The bidders must provide actual technical brochures of the types, models and specifications of the furniture offered.

Tender Serial No. 6

Technical Specifications Office Table with standard Drawer QTY (03)



Table Design Sample

1. **Material:**
 - The main body of the table shall be made of **Lamination MDF**.
 - All lamination surfaces shall be smooth, uniform in color, and scratch resistant.
2. **Dimensions:**
 - **Side panels:** Length = 30 inches, Height = 27 inches
 - **Front panel:** Length = 51 inches, Width = 24 inches
 - **All panel vertical thickness:** 38.10 mm finished.
3. **Tabletop:**
 - **Top surface** shall be made of **tempered glass of 12 mm thickness**.
 - **Glass top fixing height:** The table finished height = 30 inch. The top glass shall be fit on the top on steel finished hinges on the side panel.
 - Glass edges shall be polished and safe for office use.
4. **Edging / Covering (Gola):**
 - All exposed edges of the lamination chipboard shall be covered with **wood strips of 40 mm width and 5mm thickness**.
 - Wooden edges shall be **polished** to match the color of the lamination, ensuring a uniform and aesthetic finish.
5. **Finish:**
 - Lamination surfaces and wooden edges shall be polished and finished to prevent wear and tear, scratches, and moisture damage.
6. **Assembly & Stability:**
 - The table shall be sturdy, with joints properly aligned and reinforced.
 - Glass top must be securely fixed at the specified height without wobbling.
 - Front panel and side panels must be fixed with steel edge brackets.

Note: The vendor may visit to examine the sample of the table

Tender Serial No. 6
Technical Specifications
Side Table
QTY (03)

7. Material:

- The main body of the table shall be made of **Lamination MDF**.
- All Board shall be smooth, uniform in color, and scratch resistant.

8. Dimensions:

- According to the table, with length = 39 inch and width = 18 inch with glass top Sample can be examine from Office of the Chairman Department of Computer Science.

9. Tabletop:

- **Top surface** shall be made of **tempered glass of 12 mm thickness**.
- **Glass top fixing height:** The table finished height = 30 inch including the glass thickness
- Glass edges shall be polished and safe for office use.

10. Edging / Covering (Gola):

- All finishing shall be covered with **wood strips of 40 mm width and 5mm thickness**.
- Wooden edges shall be **polished** to match the color of the lamination, ensuring a uniform and aesthetic finish.

11. Finish:

- Lamination surfaces and wooden edges shall be polished and finished to prevent wear and tear, scratches, and moisture damage.

12. Assembly & Stability:

- The table shall be sturdy, with joints properly aligned and reinforced.
- Glass top must be securely fixed at the specified height without wobbling.
- Front panel and side panels must be fixed with steel edge brackets.

Note: The vendor may visit to examine the sample of the table



**Tender Serial No. 6
Technical Specifications**

Chair wooden W/A (With Arms) for Visitor

QTY=06



1. Solid Sheesham wood frame with dark walnut polish, fully assembled
2. Fixed wooden armrests, black PU leather (rexine) cushioned seat & back
3. Seat height: 18–19", total height: 34", width: 23–24", depth: 22–23"
4. High-density foam cushion (seat 3–4", back 2–3"), termite-proof seasoned wood
5. Load capacity: 120–150 kg, suitable for office/reception/computer lab use

The visitor may visit the university office of the chairman department of computer science for sample examining.

National Textile University, Faisalabad

Items specification for HEC Project TDF04-327

Technical Specification of Consumable Items

Sr#	Item Name	Specification (Size)	Length
1	PTFE tubing thin wall Transparent	Iner Diameter (I.D) = 1.06mm Outer Diameter (O.D) = 1.68 mm	30 m
2	PTFE tubing thin wall Transparent	Iner Diameter (I.D) = 1.58 mm Outer Diameter (O.D) = 3.18 mm	30 m
3	PTFE tubing thin wall Transparent	Iner Diameter (I.D) = 2.2 mm Outer Diameter (O.D) = 3.0 mm	30 m

**Dr. Wasif Razzaq**

Principal Investigator

Department of Materials

National Textile University, Faisalabad

Items specification for HEC Project TDF04-327

Technical Specification of Consumable Items

Sr#	Item Name	Specification (Size)	QTY
1	Microfluidic Connectors	NanoTight Sleeves 1/16" OD for 125-165 μ m OD Tubing (Each pack of 10)	20
2		1/4-28 Super Flangeless Nut for 1/16" or 1/32" OD (Box of 10)	01
3		Ferrule 10-32 Coned for NanoPort (Box of 10)	01
4		NanoTight Sleeves 1/16" OD for 480-520 μ m OD Tubing (Pack of 10)	10
5		NanoTight Sleeves 1/16" OD for 275-315 μ m OD Tubing (pack of 10)	10
6		Union Assembly PEEK .010" 10-32 for 1/16" outer diameter	10
7	Syringes Disposable	3 ml	100
8		5 ml	100
9		10 ml	200
10		1 ml	100
11		30 ml	200
12		60 ml	100
13		100 ml	100
14	Microfluidic Connectors	Microfluidic Connectors Microfluidic PEEK T Connector 0.020 inch" ID, Body Only, for 1/16 inch" OD Tubing.	10


Dr. Wasif Razzaq

Principal Investigator


Department of Materials

National Textile University, Faisalabad

Items specification for HEC Project TDF04-327

Technical Specification of Glassware Items

Sr#	Item Name	Specification	QTY
1	Glass beaker	(1000 ml)	15
2	Glass beaker	(500 ml)	20
3	Glass beaker	(250 ml)	20
4	Volumetric flask	(1000 ml)	10
5	Volumetric flask	(500 ml)	10
6	Volumetric flask	(250 ml)	25
7	Test tubes	(10 ml)	50
8	Test tubes	(20 ml)	50
9	Aluminum foil	Size : 18 inch, length = 20meter	Roll 05
10	Filter papers 0.45mm	Size: 60cm * 60 cm	Pak 10
11	Latex Gloves	-	Box 05
12	Micropipette	1ml – 5 ml	1
13	Micropipette	10-100uL	1
14	Micropipette	100-1000uL	1
15	Micropipette tips	10-100uL	1 Bag
16	Micropipette tips	100-1000uL	1 Bag
17	Micropipette tips	1ml – 5 ml	1 Bag
18	Zipper bags	7 inch x 5 inch	25 bags
19	Zipper bags	11 inch x 8 inch	25 bags
20	Zipper bags	11 inch x 13 inch	25 bags
21	Plastic Containers	22 liter	02 Box
22	Petri dishes Plastic	(90 mm)	100
23	Petri dishes Glass	(90 mm)	20



Dr. Wasif Razzaq
Principal Investigator
Department of Materials

National Textile University, Faisalabad

Items specification for HEC Project TDF04-327

Technical Specification of Equipment's

Srl#	Item Name	Specification	QTY
01	High-Pressure Precision Syringe Pump	<ul style="list-style-type: none"> • Microprocessor Dual Syringe, Infusion/Withdrawal Programmable • Syringe Size: Syringes (Min/Max) 0.5 µl to 60ml • Flow Rate <ul style="list-style-type: none"> Minimum (0.5 µl syringe): 1.28 pl/min Maximum (10ml syringe): 25.99 ml/min Maximum (60ml syringe): 88.28 ml/min • 4.3" WQVGA TFT color display with touchscreen • Step Rate <ul style="list-style-type: none"> Minimum: 27.5sec/µstep, Maximum: 26µsec/µstep • Pusher Travel Rate <ul style="list-style-type: none"> Minimum: 0.15 µm/min, Maximum: 159.00 mm/min • Average Linear Force <ul style="list-style-type: none"> 16 kg (35 lbs) @ 100% Force • Motor Drive Control <ul style="list-style-type: none"> Microprocessor with 1/16 microstepping • Accuracy ± 0.5% • Reproducibility ± 0.05% 	02
02	UV high intensity Spotlight	UV high intensity Spotlight Source for fast curing with <ul style="list-style-type: none"> • Supported Wavelength = 365nm, 395 nm • Spectral distribution = 300 to 450 nm • Four probes wire guide • Minimum Light Intensity = 4000mW/cm² • Power Regulations = 0-100% • Irradiation time 0.999s Or not stop • Matching LED lamp: Standard is 1-4pcs • Temperature 5- 50°C • Heat dissipation through Air cooling 	01


 Dr. Wasif Razzaq

 Principal Investigator
 Department of Materials

National Textile University, Faisalabad

Items specification for HEC Project TDF04-327

Technical Specification of Chemicals

Sr#	Name	Quantity	Cas #
1	Acrylic acid (≥ 99.0 , AA, Sigma Aldrich)	2L	-
2	Irgacure 2959	500g	106797-53-9
3	Ethanol (99.9%)	10 L	-
4	Methylene blue	100g	61-73-4
5	Congo red	250g	573-58-0
6	Polyethylene Glycol Discrylate Mw= 400	500ml	26570-48-9
7	Methyl bis acrylamide	500g	110-26-9
8	Poly(ethylene glycol) with a molecular weight of 300 g/mol	5 Litre	-
9	Methyl orange	100g	547-58-0
10	Silicon oil 100 cst	3 litre	-
11	Irgacure 369	500g	119313-12-1
12	2-(dimethyl amino) ethyl acrylate) (98%, DMAEA, TCI)	1L	2439-35-2



Dr. Wasif Razaq

Principal Investigator

Department of Materials

Specifications of Stationery Items (Item No. 10-a)

Sr. #	Item Name	Specifications	M/U	QTY
1	Ball Point Blue	0.8mm / click (As Per Sample)	Nos.	180
2	Board Marker Blue	Dry Erase Refilable WB-22 (As Per Sample)	Nos.	6
3	Board Marker Black	Dry Erase Refilable WB-22 (As Per Sample)	Nos.	20
4	Uni Ball Point Blue	Um-120-0.7 mm (AS Per Sample)	Nos.	46
5	Uni Ball Point Green	Um-120-0.7 mm (AS Per Sample)	Nos.	20
6	Refill Ink Board Marker Blue	As Per Sample	Nos.	2
7	Calculator	14 Digit 2-way power Citizen or equivalent (As Per Sample)	Nos.	1
8	Punching Machine Medium	Can Punch 20 Sheet of 80 grm (AS Per Sample)	Nos.	1
9	Ruler Steel	Size 12" Steel (thickness 22 Gauge) (AS Per Sample)	Nos.	3
10	Plain Paper A.4 80 Gram Local	Local 80 Gram A-4 Size 500 Sheet (As per sample)	Ream	64
11	Plain Paper Legal 80 Gram	80 Gram Legal 500 Sheet (As per sample)	Ream	4
12	Box File Large	Legal Size Thickness 3mm (As Per Sample)	Nos.	26
13	Box File Small Ring Fiber	(As Per Sample)	Nos.	2
14	File Cover Printed NTU	As Per Sample	Nos.	182
15	Tag Small	50 pcs in 1 Packet (AS Per Sample)	PKT	6
16	File Cover Ring Fibre	Legal Size (As Per Sample)	Nos.	6
17	Gum Stick	21 Gram best quality As Per Sample	Nos.	15
18	Scotch Tape 1"	90 yards (AS Per Sample)	Nos.	41
19	Scotch Tape 2"	90 yards (AS Per Sample)	Nos.	34
20	Tape Binding 2"	90 yards (AS Per Sample)	Nos.	7
21	Packing Tape 2"	90 yards (AS Per Sample)	Nos.	9
22	Tape Stand 1"	1" Plastic As per sample	Nos.	1
23	Tape Stand 2"	2" Plastic As per sample	Nos.	2
	Board Duster	Wooden Double side foam (As Per Sample)	Nos.	72
24	Correction Pen	8ml (As Per Sample)	Nos.	15
25	Chit Pad	A3 - 100 Sheets 3" x 3" (As Per Sample)	Nos.	7
26	Flag Stick 1"	4 Colour- A3 - 100 Sheets (As Per Sample)	Nos.	7
27	Highlighter Multicolor	1-4.5 mm board point (As Per Sample)	Nos.	32

[Signature]

28	Attendance Register	40 Sheet legal size (80 grm) (As Per Sample)	Nos.	4
29	Despatch Register	125 Sheet legal size (80 grm) (As Per Sample)	Nos.	5
30	Lead Pencil	HB # 2 (AS Per Sample)	Nos.	132
31	Permanent Marker Black	2mm - As Per Sample	Nos.	18
32	Permanent Marker Blue	2mm - As Per Sample	Nos.	2
33	Permanent Marker Red	2mm - As Per Sample	Nos.	2
34	Register Ruled Large	150 Sheet 80 grm Legal Size (As per sample)	Nos.	30
35	Letter Received Register	125 Sheet legal size (80 grm) (As Per Sample)	Nos.	4
36	Paper Cutter	With Slid Pvc Grip (AS Per Sample)	Nos.	4
37	Rubber For Lead Pencil	As Per Sample	Nos.	30
38	Sharpener	Plastic (AS Per Sample)	Nos.	13
39	Blade For Paper Cutter	A.100 Size 4" (As Per Sample)	Nos.	52
40	Rubber Band	As Per Sample (150-gram packing)	PKT	2
41	Envelope A4 White NTU	80 Gram imported (As Per Sample)	Nos.	300
42	Envelope 9"x4" White NTU	80 Gram imported (As Per Sample)	Nos.	458
43	Envelope Brown Large	70 Gram local Paper (As Per Sample)	Nos.	204
44	Envelope Brown A4	70 Gram local Paper (As Per Sample)	Nos.	74
45	Envelope Brown 9"x4"	70 Gram local Paper (As Per Sample)	Nos.	74
46	Paper Clip Steel	30 mm Qty 80 in box (AS Per Sample)	PKT	8
47	Stapler Pin Medium No. 24/6	As Per Sample	PKT	30
48	Stapler Pin Small No. 10	As per Sample	PKT	9
49	Letter Head Pad Printed NTU	As Per Sample	Nos.	11
50	Noting Sheet	Green Colour Legal Size with Red Line (80Grm) 500 Sheet/Ream (AS Per Sample)	Ream	3
51	Writing Pad Small	8" X 6.5" Size 70 Gram Local (AS Per Sample)	Nos.	28
52	Writing Pad Large	8" X 11" Size 70 Gram Local (AS Per Sample)	Nos.	25
53	Stamp Pad Blue	6 x 9 cm As Per Sample	Nos.	4
54	Stamp Pad Ink Blue	AS Per Sample	Nos.	2
55	Stamp Pad Ink Black	AS Per Sample	Nos.	1
56	Marker Blue Small	(AS Per Sample)	Nos.	24
57	Roller for Tape Stand 1"	(AS Per Sample)	Nos.	1
58	Peon Book	(AS Per Sample)	Nos.	3
59	Paper Pin Steel	(AS Per Sample)	Pkt.	1
60	Fixed Assets Transfer Voucher	(AS Per Sample)	No.	1
61	File Wrapper	As Per Sample (Blue & Black)	No.	10


62	Pocket File	As Per Sample	No.	10
63	Chalk Dust Less White	Dustless White (As Per Sample)	Box	10
64	Stapler Pin # 23/10	As Per Sample	PKT	3
65	Stapler Pin # 23/13	As Per Sample	PKT	3
66	Stapler Pin # 23/20	As Per Sample	PKT	3
67	Stapler Pin # 23/24	As Per Sample	PKT	3
68	Stapler Pin Remover	Size No.10-NO.25 (AS Per Sample)	No.	2
69	Index Register	100 Sheet 80 grm Legal Size (As Per Sample)	No.	2

W/A

(Item No. 10-b)


Specifications of General Store Items

Sr. #	Item Name	Specifications	M/U	QTY
1	Battery Clock Cell AA	AA 1.5 V (As per sample)	Nos.	221
2	Tissue Paper Box	Pop up (Rose Petal 150x2 ply) (As per sample)	Nos.	66
3	Tissue Paper Roll	Rose Patle (As per sample)	ROL	75
4	Tissue Paper	(As per sample)	Nos.	12
5	Dish Washing Powder	(VIM) upto 1 kgs Packing (As per sample)	KG	22
6	Towel Small for Cleaning	1' x 1' good Quality (As per sample)	KG	63
7	Battery Remote Cell AAA	AAA 1.5 V (As per sample)	Nos.	137
8	Battery Cell Large R 20	R 20/Size D/1.5 V/R20SL (As per sample)	Nos.	6
9	Glass Cleaner	500 MI Glint (As per sample)	BTL	47
10	Hosiery Cloth for Cleaning	As per sample	KG	69
11	Pad Lock China 63mm	Best quality China made (63mm) (As per sample)	Nos.	5
12	Pad Lock China 38mm	Best quality China made (38mm) (As per sample)	Nos.	5
13	Pad Lock China 50mm	Best quality China made (50mm) (As per sample)	Nos.	5
14	Dustbin Plastic Medium	Unbreakable plastic 12Ltr capacity (As per sample)	Nos.	33
15	Surf	up to 500 grm packing Bonus (As per sample)	KG	9
16	Soap Toilet	68 Gram (As per sample)	Nos.	62
17	Soap Toilet	(As per sample)	Nos.	5
18	Insect Powder	125 Gram approx. (As per sample)	Nos.	22
19	Hand Wash Liquid Soap	Best Quality	LTR	10
20	White Cloth for Cleaning	Good Quality (As per sample)	KG	60



Specifications of Tender Serial No. 11

S/No.	Item Description	Specifications / Details	Qty
1	Keyboard Wired	12 multimedia hotkeys, round-edge keycaps, laser-inscribed characters, splash-proof design with drain holes, US Standard	50
2	Mouse Wired	Symmetric optical mouse with 1000 DPI resolution, 2x click button, 1.5-meter USB cable	100
3	512GB SSD 2.5"	Shock resistant, SLC Caching, Error Correction	8
4	1TB HDD SATA	External HDD, password protection, Backup Made easy	5
5	256GB M.2 NVMe SATA	SLC Caching, Error Correction	10
6	Portable Drive	USB external Hard Drive 1TB, slim passport Size interface USB 3.0, Password activated, encryption feature and data security shall be available. Automatic Backup, Compatibility (Windows and Mac & Chromebook)	2
7	Power Cable 1.5m	Power Cable 1.5 Meter for desktop computers support 10 Amp current flow	50
8	Card Reader	USB 3.0 Multifunction Card Reader (Compatible for M.2 NVMe SATA etc.)	5
9	CMOS Cell	Lithium Cell 3V	200
10	4TB Surveillance Grade	3.5" SATA, Image Perfect, Health Management, RV Sensors	4
11	Wireless LAN Adapter	300Mbps, Mini-Sized, Soft AP Mode, One-Touch WPS, Compatibility	10
12	Wired LAN Card	10/100/100Mbps PCIe, RJ-45, IEEE 802.3u/3ab, Wake-on-LAN	10


Muhammad Shahzad Arshad
 System & Security Administrator
 National Textile University
 Faisalabad.

Item No. 13

Technical Specifications for Flat Bed colored Scanner with ADF (Automated Document Feeder)

S/No	Features	QTY
1	Flatbed and automatic document feeding (ADF) with duplex scanning, using CIS	<u>01</u>
2	ADF Capacity: 55 Sheets or higher	
3	Scanning Size: ADF: Minimum 3.5 x 5.8 inches to 8.5 x 122 inches Minimum Flatbed capacity up to 8.5 x 11.7 inches or above	
4	Scanning Speed: Up to 28 Pages per minute and 56 Images per minute or higher	
5	ADF Duty Cycle: 2,900 Pages or higher	
6	Connectivity: USB 3.0	
7	Supported paper Size and Paper weight: (8.5 x 11"), (8.5 x 14"), (7.25 x 10.5"), (8.27 x 11.69"), (5.83 x 8.27"), (4.13 x 5.83"), (6.93 x 9.84") and (7.17 x 10.12w") up to 118 grams or higher	
8	RAM: 256MB	
9	Resolution: ADF Up to 600 x 600 dpi and Flatbed Up to 1200 x 1200 dpi or above	

- Only channel partner / sole distributors shall quote the original branded manufacturer product
- Scanner must be brand new
- Vendor must provide manufacturer authorization letter (MAL).
- Minimum Warranty shall be One year




Abid Hussain
Network Administrator
National Textile University
Faisalabad.



Muhammad Shahzad Arshad
System & Security Administrator
National Textile University
Faisalabad.

Tender Serial No. 12

Different Type of Carpentry Items (Qty. 08)				
Sr.	Item(s)	Unit	Qty	Specifications/Purpose/Remarks
1	MDF Laminated Sheet Size:(8'*4'*3/4")	No's	9.00	(8 Ft *4Ft *3/4 inch) KMI made or equivalent
2	Press Sheet 8'X4'X1/4'	No's	3.00	(8 Ft *4 Ft *1/4 inch) KMI made or equivalent
3	Hinges 3/4"-6"	No's	8.00	¾ inch & 6 feet in length
4	Handle Steel 6"	No's	10.00	Steel made & 6 inches length
5	Lure Lock	No's	8.00	China made & with computer key
6	Catcher	No's	16.00	China made large size
7	Screw 3/4", 5/8"	Pkt	6.00	Black oxide coating
8	Wooden Larr	No's	6.00	8 FT * 1.5 inch * 3 inch



Supervisor



Assistant Director (Maint.)

Different Type of Carpentry Items (Qty. 22)				
Sr.	Item(s)	Unit	Qty.	Specifications/Purpose/Remarks
1	Catcher	NOS	36.00	China made large size
2	Handle Drawer 5"	NOS	36.00	China made 5 inch size
3	Screw Black 5/8"	PKT	24.00	For wooden, full thread and black oxide coding
4	Screw Black 3/4"	PKT	12.00	For wooden, full thread and black oxide coding
5	Screw Black 1"	PKT	12.00	For wooden, full thread and black oxide coding
6	Wood Nail (Iron)	KGS	5.00	(10 number 1.5 inch)
7	Screw Black 1.5"	PKT	12.00	For wooden, full thread and black oxide coding
8	Nail Iron 3/4" H-17	KGS	5.00	17 no. with head
9	Nail Iron 1"	KGS	5.00	with head 1 inch
10	Elfi Tube	NOS	6.00	GMSA or equivalent
11	Wood Kail	FT	14.00	Pakistani wood High quality
12	Lock Drawer 3/4"	NOS	12.00	China made & with computer key
13	Ply Wood Sheet 4*8*1/2"	NOS	4.00	5 mm thick & smooth finishing
14	Formica White	SHT	4.00	Greater than 1/2 mm mm thick & smooth finishing
15	Chip Board 8*4 Local	NOS	6.00	8 ft * 4 ft * 17 mm
16	Solution	PKT	3.00	Semitic made or equivalent
17	Hinges 4"	NOS	12.00	Pistol made or equivalent
18	Glue	KGS	5.00	ICI mad of equivalent
19	Wire Gauze Jally	FT	50.00	Diamond made or equivalent
20	Door Chitkni 8"	NO	30.00	8 inch
21	Nail Black 3/4"	PKT	4.00	For wooden, full thread and black oxide coding
22	Malashia Sheet 8'X4'X1/2"	NOS	5.00	8 ft * 4 ft * 1/2 inch





Supervisor



Assistant Director (Maint.)

Tender Serial No. 13

Different Type of Mechanical items (Qty. 46)				
Sr.	Item(s)	Unit	Qty.	Specifications/Purpose/Remarks
1	Muslim Shower W/Pipe	NOS	18 00	Faisal made or equivalent complete
2	Waste Pipe (Sink)	NOS	18 00	White color
3	Capillary Wire Geyser	NOS	36 00	Standard size & Italian made
4	Pilot Geyser	NOS	12 00	With capillary wire set
5	Jet For Geyser Pipe	NOS	12 00	Standard size
6	Thermostat Geyser	NOS	6 00	Unitrel made or equivalent
7	Basin Mixer	NOS	12 00	Basin mixer for faisal tape
8	Disc Cutter 4"	NOS	36 00	China made or equivalent
9	Tool Box (Empty)	NOS	2 00	Medium size Oxford cloth made or equivalent
10	Screw Mouse 3/4"	NO	10 00	China made or equivalent
11	Rawal Bolt 3"	NOS	200 00	3/8 inch strip made
12	Drill Bit 3/8"	NOS	4 00	3/8 inch
13	Drill Bit 2 5/16"	NOS	4 00	For concrete
14	Barrel Nipple 1/2"	NOS	24 00	GI made
15	Tee Socket 1 1/2"	NOS	12 00	GI made
16	Washer Flat	PKT	2 00	MS made
17	Union 1/2"	NOS	12 00	GI
18	Union G-I 3/4"	NOS	12 00	GI
19	Base Revolving Chair	NOS	8 00	Bottom side with wheels
20	Nut Bolt W/ Washer	KGS	3 00	2 * 1/2" x 2"
21	Nut bolt with washer 2-1/2" x 2-1/2"	KG	3 00	2-1/2" x 2-1/2"
22	Nut Bolt 1/4" X 1"	KGS	3 00	with washer complete full thread
23	Nut Bolt 1/4" X 1 1/2"	KGS	3 00	with washer complete full thread
24	Nut Bolt 2" X 1/4"	KGS	3 00	with washer complete full thread
25	Nut Bolt 4"	KG	2 00	with washer complete full thread
26	Nut Bolt 3"	KGS	2 00	with washer complete full thread
27	Nut 3" * 2 5/8" W/ Washer	NOS	3 00	with washer complete full thread
28	Spindle Tap	NOS	48 00	Brass Nut
29	Chair Mechanism	NOS	12 00	For jack chair
30	Short Elbow 1/2"	NOS	6 00	GI
31	Short Elbow 3/4"	NOS	6 00	GI
32	Teflon Tape	NOS	36 00	Local
33	Handle Valve 3/4"	NOS	12 00	Master made or equivalent
34	Pipe G I 1/2"	FT	60 00	GI-IIL made or equivalent
35	Waste Pipe (Sink)	NOS	550 00	with coupling complete

36	Rubber Coupling	NOS	24.00	For pump usage
37	Spindle Tape 1/2"	NOS	36.00	With nut brass
38	Union Rubber Jyn	PKT	2.00	For sui gas meter union
39	Jain Dori	KGS	3.00	8 mm thick
40	Cell Thermostat	NOS	12.00	Unitrel made or equivalent
41	Mixer Bend	NOS	12.00	Steel made
42	Drill Bit 2.5/16"	NOS	6.00	For mouse screw
43	Welding Rod Cost Iron (1 Kg)	PKT	1.00	Cost iron
44	Connection Washer	PKT	2.00	Local
45	Washer Flat	PKT	2.00	Local for float
46	Rubber Washer 1/2"	NOS	100.00	Local


 Supervisor


 Assistant Director (Maintenance)