



TENDER DOCUMENTS

Civil Lab Equipment

NUTECH / SCM / Civil Lab Eqpt (Ph-V) 2020 / TD-171

NATIONAL UNIVERSITY OF TECHNOLOGY

TENDER NOTICE**National University of Technology (NUTECH)****NUTECH / SCM / Civil Lab Eqpt (Ph-V) 2020 / TD-171,****NUTECH / SCM / Electrical Lab Eqpt (Ph-V) 2020 / TD-172 &****NUTECH / SCM / Projector for MCR (PSDP) 2020 / TD-176,**

1. Sealed bids are invited from Government / FBR Registered Firms for the procurement of Lab Equipment for NUTECH on **FOR Basis**.
2. Tender documents containing terms, conditions and detailed specifications of items (including draft contract) can be downloaded from NUTECH website "<https://nutech.edu.pk/downloads/procurement/scm-tenders/>" w.e.f **26 September 2020**.
3. Quotations shall be submitted as per requirement of the tender documents.
4. Bidders will be required to submit **Bank Draft / CDR** equal to **5%** of quoted value as Bid Bond in favor of National University of Technology (NUTECH).
5. Submit Rs 1500/- as Tender fee in favor of NUTECH HBL Account (**NUTECH Tendering and Contracts, 5037-7000210755**). Please attach bank receipt with technical offer. Offers will not be entertained without payment of processing fee.
6. Details for Submission & Opening of bids for each tender are as under:-

Ser	Description	Submission	Tender Opening	Completion Days
a.	Civil Lab Equipment (TD-171)	1030 hrs on 14 October 2020	1100 hrs on 14 October 2020	120 Days
b.	Electrical Lab Equipment (TD-172)	1100 hrs on 14 October 2020	1130 hrs on 14 October 2020	120 Days
c.	Projector for MCR (TD-176)	1030 hrs on 15 October 2020	1100 hrs on 15 October 2020	30 Days

Deputy Director (Supply Chain Management)**NATIONAL UNIVERSITY OF TECHNOLOGY, IJROAD,I-12,ISLAMABAD****Tel: 0092-51-5476768, Ext: 178**

NATIONAL UNIVERSITY OF TECHNOLOGY
SUPPLY CHAIN MANAGEMENT
INVITATION TO TENDER

Tender submission time: 1030 hours, 14 October 2020

1. NUTECH desires to procure the list of item(s) / Store(s) on **F O R b a s i s** . as per **Annexure-A**. Interested bidders are requested to send their bids through courier or deliver at NUTECH under "**Single Stage – Two Envelopes**" (two envelopes placed together in third envelope), marked clearly as "**Technical Offer**" and "**Commercial Offer**" respectively to the undersigned, latest by or before above mentioned due date.

2. **Conditions Governing Contracts.** The contract made as result of this IT will be in accordance with the draft contract published on NUTECH University website and other special conditions (Mentioned in this document) that may be added to given contract for the supply of Lab Equipment.

3. **Delivery of Tender.** The offer is to be submitted as under:-

a. **Technical Offer.** Technical Offer should contain only Annexure-A, Annexure-A-1 & Annexure B duly filled in (supported with relevant technical literature / details / catalogues etc) and receipt of tender processing fee. Copy of bid bond WITHOUT MENTIONING PRICE should be attached with technical offer. Only relevant technical details i.e literature/brochures) without mentioning the financial aspect of the offer in DUPLICATE should be enclosed in an envelope. In technical proposal, all items must have the brand names, model number, manufacturer's name, country of origin, manufacturer's warranty including parts with complete specs and brochures. Re-conditioned and re-furbished equipment shall not be acceptable. Following information will be clearly marked on the envelope:

- (1) Technical Offer
- (2) Original Performa Invoice (without price)
- (3) Tender number
- (4) Date/ time of opening

b. **Commercial Offer.** Commercial Offer will contain Annexure-C and bid bond (Dully mentioned and placed in separate envelope. The offer indicating the quoted price FE/Local Currency (in Local Currency for FOR cases & in FE for FOB cases) in figures as well as in words

would be enclosed in an envelope. Following information will be clearly marked on the envelope;

- (1) Commercial Offer
- (2) Original Performa invoice with price
- (3) Tender number

- c. Both the envelopes i.e. commercial offer and technical offer would be enclosed in yet another properly sealed envelope that will be marked with address of this office only. There should be clear indication that this envelope contains tender documents.
- d. The tender duly sealed will be addressed to the following:-

Deputy Director (Supply Chain Management Office)
NATIONAL UNIVERSITY OF TECHNOLOGY (NUTECH)
I J P ROAD, F12, ISLAMABAD
Tel: 0092-51-5476768, Ext: 227

4. **Date and Time for Receipt of Tender.** Sealed bids with detailed specifications should reach SCM office latest by **1030 hours on 14 October 2020**. Delay occurring in post shall not be accepted. Tenders received after the appointed / fixed time will NOT be entertained. The appointed time will, however, fall on next working day in case of closed / forced holiday.

5. **Tender opening.** The offers shall be opened **30 minutes** after submission time. Commercial offers will be opened at later stage if Technical Offer is found acceptable on examination by technical authorities. Date and time for opening of commercial offer shall intimated later. Only legitimate / registered representatives of firm will be allowed to attend tender opening.

6. **Validity of Offer.** The validity period of quotations must be indicated and should be **90 days** from the date of opening of financial offer.

7. **With drawal of offer** If the firm withdraws its offer within validity period, the competent authority may place such firm under embargo for a period which may be extended up to one year. Moreover, the Earnest Money of the firm will be confiscated.

8. **Documents.** Following information / copy of documents must be provided / attached with offer:-

- a. A copy of letter showing firm's financial capability.
- b. NTN/GST number be mentioned on the offer and copy of registration Certificate issued by Sales Tax Department, attached.

- c. Foreign supplier to provide its Registration Number issued by respective Department of Commerce authorizing export of subject stores (**in FOB cases**).
- d. Annexes A, A-1, B and C and special conditions must be signed and stamped. ATTACH ONLY RELEVANT DOCUMENTS.
- e. Complete all Annexes as per given format. Do not use your format or letter head. Offer may be rejected if given format is not followed.
- f. OEM/principal agency agreement must be provided.

9. **Disqualification.** Offers are liable to be rejected if:-

- a. Validity of offer is not quoted as required in IT documents.
- b. Any deviation from the General/ Special / Technical Instructions.
- c. Offers are found conditional or incomplete in any respect.
- d. Copy of EM/Bid Bond & Tender processing fee (with tech offer) and original EM/Bid Bond (with fin offer) are NOT attached.
- e. Multiple rates/items are quoted against one item.
- f. Manufacturer's relevant brochures and technical details on major equipment assemblies are not attached in support of specifications.
- g. Offer received later than appointed / fixed date and time.
- h. Subject to restriction of export license.
- i. Offers (Commercial / technical) containing non-initialled / unauthenticated amendments / corrections / overwriting. If the validity of the agency agreement has expired. The commercial offer against FOB / CIF / C&F tender quoted in local currency.
- j. If the offer is found to be based on cartel action in connivance with other sources/participants of the tender.

10. **Earnest Money / Bid Bond.** Commercial Offer must be accompanied with a Bid Bond (CDR/Pay Order/Bank Draft) in agreement of faithful compliance of the conditions of Contract. This amount will be equivalent to 5% of the total quoted value. The Bid Bond amount submitted by the successful bidder will however be refunded on effective termination of Contract. (The Bid Bond will be forfeited in case of default by the bidder from his commitments made through his offer). Submission of Bid Bond is mandatory; otherwise your offer will be rejected. Bid Bond will be used as performance guarantee till the delivery of stores, otherwise separate performance guarantee valued at 5 % of contract will be submitted by successful firm till stores are delivered and inspected.

11. **Return of Earnest Money/Bid Bond.**

- a. Bid Bond to the unsuccessful bidders will be returned on finalization of the lowest evaluated bidder.
- b. Bid Bond of the successful bidder/bidders will be returned on submission of Bank Guarantee/Bid bond against warranty period OR Bid bond retained for the warranty period as the case may be.

12. **Terms of Payment/ LC Charges**

(In FOB cases)

- a. All categories payment will be made through letter of credit (LC). LC opening charges in Pakistan are to be borne by NUTECH. Payment will be made through irrevocable LC in favour of Manufacturer.

In FOR cases

- b. 20% advance payment will be made to the Seller on provision of unconditional Bank Guarantee/ CDR/ DD/ Pay order. Advance BG/CDR/DD/Pay order will be submitted at the time of signing the contract.
- c. 80% payment will be made to the Seller after receipt and confirming the correctness of ordered specifications, installation, commissioning OR as the case may be i.e through Inland LC.

13. **Warranty/ Bank Guarantee (BG). 2 Years** against **5% Bank Guarantee/CDR/Pay Order/Bank Draft** of the store value will be required from the successful bidders from the date of commissioning as performance bond. BG submitted shall remain valid for up to 60 days beyond completion of warranty period.

14. **Taxes/ Duties/ Custom clearance** All taxes /duties /import Licenses Fee as applicable under government laws in Pakistan as well as country of supplier shall be on Seller (**in FOR Case**). NUTECH will provide applicable exemption certificates and documents (**In FOB Cases only**).

15. **Insurance:-** Insurance will be NUTECH's responsibility through NICL (**in FOB Cases**).

16. **Freight charges /Misc charges:** All charges such as packing, forwarding, local freight, loading and unloading, installation and commissioning, custom clearance, orientations, on job training or any other will be part of quoted price. Delivery till NUTECH will be seller's responsibility and all associated costs will be part of quotation as well.

17. **Delivery Schedule.** Store will be delivered within **120 days** from contract signing date.

18. **Force Majeure.** If non-compliance with the period of delivery or services can be proved to be due to Force Majeure, such as but not limited to mobilization, war, riot, strike, lockout, pandemics/epidemics or the occurrence of unforeseen events, the period shall be reasonably extended.

19. **Subletting** Suppliers are not allowed to sublet wholly or part of the contract to any other firm /company without prior permission by NUTECH. Firm found in breach of the clause will be dealt with as per purchaser's right and discretion.

20. **Arbitration.** Will be as under:-

"All Claims ,disputes ,controversies, differences arising out of or in connection with this contract ,including any question regarding its existence, validity, interpretation performance, breach or termination ,shall be referred to and shall finally be solved by binding arbitration. An Arbitration Committee Shall be constituted comprising Rector NUTECH and two Arbitration to be nominated on mutual agreement by each party. The venue of the Arbitration shall be the place of issuance of this contract or as Rector NUTECH may determine. In case of any difference, the clauses of Arbitration Act 1940, Rules and Regulation made thereof for time being enforce shall prevail. The award shall be final and binding on both parties.

a. Provided that written record of any such arbitration and its award shall be arranged properly. An award of such arbitration may be confirmed in a court of competent jurisdiction at Islamabad.

b. Provided further that incase of any other question /dispute not covered under this clause, the decision of Rector NUTECH shall be final."

21. **Redress Of Grievance.** In case of dispute, case shall be reviewed by 'NUTECH Redress of grievance committee and decision of NUTECH shall be final and binding on both parties.

22. **Export License/Permit /End User Cert.** It shall be the responsibility of the Supplier to obtain from the Government concerned all permits and export licenses, etc required to enable each consignment to be shipped immediately as per the delivery schedule. In case the supplier fails to arrange export license within 30 days of signing the contract the purchaser reserves the right to cancel the contract on the risk and expense of the supplier without prior notice. The purchaser will provide End User Certificate for acquisition of export license to the supplier (format to be provided

by the supplier for respective country within 10 day of signing of the contract).

23. **Technical Specification:** The supplier will provide OEM certificate, quality certificate /inspection document to the purchaser confirming the quality of the product being supplied under this contract .Store must bear the manufacturer's identification marking /monogram.

24. **Inspection /Testing of Store:** Inspection testing will be carried out at NUTECH by the concerned inspection team as detailed by the respective department in accordance with the laid down Acceptance Criteria. (Acceptance Test Procedure (ATPs)/Drawing /Test standard and specification). The supplier will provide ATPs with technical offer. Mutually agreed/approved ATPs will form part of contract to govern the inspection of store subsequently.

25. **Change In Specification / Mfr / Model.** No alternation marked/brand and quality of store will be entertained after the tender have been opened.

26. **Checking of Store at Consignee/User End.** All stores will be checked at Consignee's end in the presence of the supplier's representative. If for some reason, the supplier decides not to nominate his representative for such checking, an advance written notice to this effect will be given by the supplier to the consignee prior to immediately on shipment of store. In such an event the supplier will clearly undertake that decision of consignee with regard to quantities and description of consignment will be taken as final and discrepancy found will be accordingly made up by supplier. In all other cases the consignee will inform the supplier about arrival of consignment immediately on receipt of store through registered email/letter and telephone. If no response from the supplier is received within 15 days from initiation letter the consignee will have the right to proceed with the checking without supplier's representative. User/Consignee's report on checking of the stores will be binding on the seller in such cases.

27. **Packing /Marking.** The supplier shall be responsible for proper packing of the Store in standard export packing worthy of transportation by sea /air /road rail so as to ensure their content being free from lose or damages due to faulty packing on arrival at the ultimate destination. Packing of stores will be done at the expenses of the supplier. All packing cases, containers and other packing material shall become the property of the NUTECH on receipt. Any loss occurred /demurrage paid due to wrong marking will be made good by the supplier.

28. **Original Performa Invoice:** Original Performa invoice must have following components incorporated:-

- a. HS Code
- b. Incoterm
- c. Payment Terms
- d. Origin of good
- e. Port of shipment
- f. Address of OEM
- g. Seller acceptance (on Performa Invoice)
- h. Invoice Date
- i. Latest date of shipment
- j. Seller complete bank detail

Note: Performa Invoice in the name of NUTECH in case of FOB cases & in the name of local partner in case of FOR cases.

29. **General Instructions:** Following must be noted:-

- a. The firm should provide point to point acceptance of each clause of IT and special instructions attached with IT.
- b. Firm will render a certificate with technical offer that firm is neither defaulter nor blacklisted by any Government / semi Government organization directly or indirectly. (On Judicial Paper)
- c. Rates should be quoted on Free Delivery basis at NUTECH Islamabad.
- d. The stipulated delivery period should be strictly adhered to. Any anticipated delay that is beyond the control of Seller will be informed (in writing) well in advance of the expiry of the due date of the activity along with reasons thereof, requesting for the grant of extension in delivery period. If the Seller fails to do so, or the Buyer is not convinced with the rationale provided by the Seller, Liquidated Damages up to/at 2% per month or part thereof, will be imposed. However, the maximum limit of the Liquidated Damages will not exceed 10% of the delayed store value.
- e. If even after applicability of 10% LD, the Seller fails to deliver the required stores, the Buyer will be at liberty to Cancel the contract, and /or procure the stores from an alternate source, on the Seller's "Risk & Cost/Expense". In that case, the Seller will be bound to make payment to the new source through NUTECH. The purchaser's

decision under this clause shall NOT be subjected to arbitration.

- f. NUTECH reserves the right to cancel the Contract without assigning any reason whatsoever during its currency / execution / after placement, if the firm is found to be involved in any dubious activity, litigation, lacking to meet contractual obligations with the purchaser or is blacklisted with any other Public procurement agency. No claims / loss / damage of whatsoever nature shall be entertained and NUTECH's decision in this regard will be final / binding on the Seller.
- g. An appropriate amount may be paid for mobilization against Bank Guarantee/CDR/Demand Draft/Pay Order.
- h. Firms with previous pending/outstanding projects/business and unsatisfactory performance with NUTECH may not be considered for award of any further business.

Deputy Director
Supply Chain Management Office

Annex-A**Technical Specifications****NUTECH / SCM / Civil Lab Eqpt (Ph-V) 2020 / TD-171**

Ser	Part No	Items	Description	Country of Origin	A/U	Qty Req	Bidder Compliance		Tech Scrutiny to be done by user	
							Yes	No	Accepted	Rejected
									Reason of Rejection	
1.		Blaine apparatus	<ul style="list-style-type: none"> • Confirming to EN 196-6, ASTM C204, AASHTO T153, BS 4359:2 standards. • Glass U-tube manometer with valve, steel stand, test cell with disk and plunger (all in stainless steel) • Rubber aspirator bulb, 1000 filter paper disks, manometric liquid, Vaseline grease for better coupling tube/cell, funnel & brush. • Reference cement 	Imported	No.	3				
2.		Polygon of forces apparatus	<ul style="list-style-type: none"> • Self-contained, bench mounted. • Direct measurement of forces. • Adjustable lines of action of forces. • Practical verification of triangle of forces, polygon of forces and link polygon. • Demonstrates equilibrium of forces at a point, applied to various points round a disc or acting on a rectangular lamina. • Concurrent & Non-concurrent coplanar forces. • Calibrated Weights. • User Manual with Sample Readings. 	Any	No.	1				
3.		Work done by variable force apparatus	<ul style="list-style-type: none"> • Set of weights • 1m ruler supplied • Table unit for experiments on mechanical work and potential energy. • Lifting a weight using a lever and a 	Any	No.	1				

			<p>dynamometer (spring balance).</p> <ul style="list-style-type: none"> • Integrated angle measuring scale protractor. • The apparatus consists of the arm, hanger with loads, spring balance and protractor scale attached to the support board. One end of the arm is fixed, and its position is indicated by the protractor. Other end of arm carries the load hanger and is restrained by spring balance that is perpendicular to the arm. • The free-standing, bench-top unit consists of a suspension cord carrying a loaded trolley at its mid-span. The cord is clamped at one end, and tensioning effort applied vertically at the other end. • All pulleys feature ball bearings <p>Instruction manual</p>						
4.		Inertia in rotation motion apparatus	<ul style="list-style-type: none"> • Metal rotating bar, weights with knurled bolts for quick fastening • Solid and hollow test cylinders • Ball bearing mounted rotating drum, anodized aluminum • Acceleration of system by weight attached to the drum 	Any	No.	2			
5.		Laser Level	<ul style="list-style-type: none"> • Rotary Laser Level with Transmitter and stand • Accuracy: ± 10 arc sec • Rotation Coverage 360°, Rotating Speed: 600rpm or 1200rpm • Laser beam Type: visible 670 nm • Working Range: 1000m (diameter) • Self-leveling range: Horizontal $\pm 5^\circ$ • Operating Temperature: -20° to $+60^\circ\text{C}$ • Rechargeable Ni-MH battery with charging system. 	Imported	No.	4			

			<ul style="list-style-type: none"> • Operating Time: 65 hours • Tripod Mounting System • Dust and Waterproof IP56 <p>Or Equivalent</p> <p><i>Ranges and values are approximate and close values will be acceptable.</i></p>						
6.		Aggregate crushing value apparatus	<ul style="list-style-type: none"> • Aggregate crushing value apparatus, 150 mm dia. • cylinder, plunger, base plate, tamping rod and measure • Required Services, Assembly and Installation, Interface and Starting-up, Safety, Maintenance, Calibration & Practices Manuals. • User Guide 	Imported	No.	1			
7.		Concrete Test hammer with Calibration anvil	<ul style="list-style-type: none"> • Concrete test hammer type N. Aluminium body, • Calibration certificate and carrying case. • Conforming to ASTM C805 • Calibration anvil • Scale graduated in p.s.i. • Required Services, Assembly and Installation, Interface and Starting-up, Safety, Maintenance, Calibration & Practices Manuals. • User Guide 	Europe/ USA	No.	4			
8.		Ultrasonic Pulse Velocity tester	<ul style="list-style-type: none"> • Measuring range: 0 - 3000 μs - accuracy +/- 0,1 μs • Selection of the ultrasonic pulse amplitude adjustable from 250 to 1000V • Measurement of the required time by the ultrasonic pulse to go through the tested material. • Single or continuous acquisition mode with automatic or manual saving. 	Europe/ USA	No.	1			

		<ul style="list-style-type: none"> • Zero calibration with depuration of the time for the pulse to go through the probes. • Calibration of a defined time value. • Capacity of data acquisition, processing and filing of the test data up to 30.000 samples. • Interface mini USB for PC connection. • Two outlets for connection to the oscilloscope. • Languages: English, French, German, Spanish, Italian. • The use of the instrument is made easy because it is based on the user-friendly system. • The instrument in basic configuration in a practical palmer container. • Two 55 kHz probes with connection cables. • Calibrating cylinder and contact paste. • Battery rechargeable pack NiMh 4,8V > 2000m/A with low battery condition alarm. • Anti-shock case holding the unit and the accessories. • External feeder 230V and battery charger 12V 500m/A. <p>Or Equivalent <i>Ranges and values are approximate and close values will be acceptable</i></p>						
9.		<p>Air entrainment meter</p> <ul style="list-style-type: none"> • Air entrainment meter, pressure gauge type, Minimum 5 l cap • Aluminum/corrosion resistant vessel • Built in hand operated pressure pump • Connected to the measuring gauge showing directly the air content in percentage. • Air content range upto 15% • Graduation range: 0.1% up to 6% and 0.2% from 6 to 8% and 0.5% from 8 to 	Imported	No.	2			

			15%. Or Equivalent <i>Ranges and values are approximate and close values will be acceptable</i>						
10.		Specific gravity for soil apparatus	<ul style="list-style-type: none"> • Specific gravity bottle 50 ml cap. 6xNo • Specific gravity bottle 100 ml cap. 6xNo • Pycnometer type • Glass bottles complete with capillary vent stopper 	Any	No.	12			
11.		Hydrometer method	<ul style="list-style-type: none"> • Soil hydrometer 152 H type • Sodium hexametaphosphate , 1000 g bottle (minimum expiry range 12 months after delivery) 	Imported	No.	2			
12.		Ring and ball apparatus	<ul style="list-style-type: none"> • Standard Ring and ball apparatus, • Including ring holder/assembly, two brass rings, two brass ball centering guides, two steel balls, pouring plate, Glass vessel • Ball centering guide 	Pak Made	No.	4			
13.		Bitumen Penetrometer	<ul style="list-style-type: none"> • Automatic penetrometer with standard accessories. • Conforming to ASTM D5, ASTM-D217 & AASHTO T49 • Programmable reference positions for holder assembly: 8 • Programmable penetration time: 0-9999 sec, minimum • Programmable delay time: 0-999 sec, minimum • Penetration range: 0-50 mm, minimum • Penetration resolution: 0.01 mm, minimum • Tests simultaneously displayed: up to 6 • Hardened stainless steel penetration needle (Set of 3 mini.) • Magnetic penetrometer needle, Set of 3 pieces • Standard penetration cone conforming to ASTM D217 and EN 13880-2. 	Europe / USA	No.	1			

			<ul style="list-style-type: none"> • Sample cup, dia. 55x35 mm. Set of 6 pieces minimum • Sample cup, dia. 70x45 mm. Set of 6 pieces minimum • Stainless steel sample cup, dia. 55x35 mm minimum • Water bath with thermo-regulator and immersed probe • User Guide • 220V/50Hz/1 ph <p>Or Equivalent <i>Ranges and values are approximate and close values will be acceptable</i></p>						
14.		Centre of gravity apparatus	<ul style="list-style-type: none"> • Back Board: 228(L) x 152(W) x 270(H) mm • 1 x Trapezium shape (4 holes) • 1 x 'L' shape (3 holes) • 1 x semi-circle shape (3 holes) • 1 x triangle shape (3 holes) • 1 x 'T' shape (3 holes) • 1 x circle shape (3 holes) 	Any	No.	1			
15.		Modulus of rigidity apparatus	<ul style="list-style-type: none"> • Rubber cylinder dia: 75mm, L=100mm • Round plate: 0~360o with pointer • Maximum load: 9kg • Rubber Block: 195x100x25mm • Dial Gauge: 20mm x .01mm • Maximum load: 9kg 	Any	No.	3			
16.		Electronic Weighing Balance	<ul style="list-style-type: none"> • Accuracy 0.001gm • Material to be measured Metals, Chemicals, Organic substances • Platform Dimensions 100 X 100 mm minimum • Quick response • High stability • Piece Counting function • Analog Bar Graph Display • Easy unit conversion 	Imported	No.	1			

		<ul style="list-style-type: none">• Equipped with a square pan• Required Services, Assembly and Installation, Interface, Starting-up, Safety, Maintenance, Calibration & Practices Manuals.• User Guide• 220V/50Hz/1 ph Or Equivalent						
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Firm Name: _____

Signature: _____

Name: _____

Designation: _____

Special Instructions

Description	Bidder		Tech Scrutiny to be done by User		
	Yes	No	Accepted	Rejected	Reasons of Rejection
Environment Conditions (a) Temperature range: 05°C to +60°C (b) Relative humidity: 0-70% non-condensing					
Warranty period In addition to IT Clause 13. A warranty sticker is to be pasted on each imported item by the Supplier / OEM highlighting Name of Firm, Contract No and date, Description of Store and Warranty validity					
Training Notes Supplier will provide a set of handouts for training on operation and maintenance of the equipment					
Publications Supplier is to provide hard and soft copies (CD) of following manuals. (a) Operational / Maintenance manual: - Qty 01 with Equipment and additional Qty 02 for record purposes and should consist of following sections:- (1) Equipment Description /Operation:- (a)Specifications (b)Description (c)Operation (2) Servicing:- (a)Maintenance Schedule (b)Adjustment / test (3) Trouble shooting guide (4) Cleaning requirements (b) IPB (Illustrated Parts Breakdown Manual) should have detailed diagrams (exploded view). (c) Experimental manuals which must contain the list and procedure of the experiments that equipment can perform.					
Spares / Technical Support (a) Supplier to have in-country spares / technical support and ensure spares and technical support / assistance for next 10 years (b) Comprehensive list of spares required for scheduled maintenance of Equipment is to be provided (c) Any software provided must have its license					

<p>(d) Software upgrade support must be provided free of cost for 10 x years with renewed license at every upgrade</p> <p>(e) Supplier must also provide calibration service for at least 5 x years after commissioning</p>					
<p>Additional Spare / Replaceable parts.</p> <p>(a) Replaceable spare / parts during scheduled inspections are to be identified and provided as per requirement along with equipment sufficient to cater five years consumption.</p> <p>(b) All specialized / standard tools required for inspection / repair / servicing must be supplied along with equipment.</p>					
<p>Physical Inspection Criteria: 100% physical inspection of store will be carried out before commissioning of the equipment for following details:-</p> <p>(a) For physical damage, scratches and deformity.</p> <p>(b) Accessories /components as per contractual specifications.</p> <p>(c) Technical Manuals (Operation manual, user guide, IPBs).</p> <p>(d) Quality certificate and calibration certificate by the OEM</p> <p>(e) OEM certificate and verifiable documents by the supplier that store has been procured from certified source and is factory new and from latest production.</p> <p>(f) Brand name and country of origin.</p>					
<p>Commissioning</p> <p>(a) Commissioning of the equipment will be carried out by OEM rep at his own cost and risk at designated place at NUTECH.</p> <p>(b) Any special requirement for installation, operation and commissioning must be specified in the offer by the supplier.</p>					
<p>Training: 01 week OEM operational/ maintenance training at NUTECH</p>					
<p>Improvement and Safety Measures: Any improvement and safety measures suggested by NUTECH during commissioning are to be resolved by the supplier / manufacturer at no extra cost.</p>					
<p>Liability of Supplier</p> <p>(a) OEM certificate of authorized dealership Supplier is to provide original OEM certificate of subject equipment bought directly from the manufacturer and being an authorized dealer.</p> <p>(b) In case the equipment supplied is not compatible with specifications, the supplier will be obliged to call his representatives at his own cost for consultation and corrective action</p>					

<p>Special Notes</p> <p>(a) Additional requirements for the maintenance of equipment (if any) must be intimated by the supplier in technical offer.</p> <p>(b) Supplier must provide the list of organizations using same equipment in Pakistan (if any).</p> <p>(c) Equipment must be a standard product of OEM available at web address of OEM.</p> <p>(d) In case of premature failure of the equipment, OEM has to replace / rectify the item free of cost. Required transportation charges would be borne by the supplier.</p>					
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<p>Firm Name: _____</p> <p>Signature: _____</p> <p>Name: _____</p> <p>Designation: _____</p>
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TECHNICAL OFFER

NUTECH / SCM / Civil Lab Eqpt (Ph-V) 2020 / TD-171

Fill in following essential parameters:-

1. Validity of Offer: _____ Days (Should not be less than **90 days**)
2. Delivery period: _____ Days (After placement of order)
3. Country of Origin: _____
4. Warranty Period: _____

General

1. GST Number: _____(Enclose Copy)
2. NTN / CNIC: _____(if exempted, provide valid exemption certificate)

Payment Terms (In continuation of IT Document clause 12)

In FOR Cases
20% advance payment against BG/CDR/Pay Order/DD
80% payment after delivery, installation / commissioning /user satisfaction certificate

Details of Foreign Principal Information with account details)

1. Name / Title: _____
2. Address: _____

OEM Name:	Firm Name:	Signature:
OEM Focal Person:	Firm Focal Person:	Official Seal:
OEM Phone Number:	Firm Phone Number:	Name & CNIC:
OEM Email Id:	Firm Email Id:	Designation:

Annex C**FINANCIAL OFFER****NUTECH / SCM / Civil Lab Eqpt (Ph-V) 2020 / TD-171**

Ser	Part No	Item Name/Size	Specification	A/U	Qty Req	Unit Price PKR (Including Tax)	Total Price PKR (Including Tax)
1.		Blaine apparatus	<ul style="list-style-type: none"> • Confirming to EN 196-6, ASTM C204, AASHTO T153, BS 4359:2 standards. • Glass U-tube manometer with valve, steel stand, test cell with disk and plunger (all in stainless steel) • Rubber aspirator bulb, 1000 filter paper disks, manometric liquid, Vaseline grease for better coupling tube/cell, funnel & brush. • Reference cement 	No.	3		
2.		Polygon of forces apparatus	<ul style="list-style-type: none"> • Self-contained, bench mounted. • Direct measurement of forces. • Adjustable lines of action of forces. • Practical verification of triangle of forces, polygon of forces and link polygon. • Demonstrates equilibrium of forces at a point, applied to various points round a disc or acting on a rectangular lamina. • Concurrent & Non-concurrent coplanar forces. • Calibrated Weights. • User Manual with Sample Readings. 	No.	1		
3.		Work done by variable force apparatus	<ul style="list-style-type: none"> • Set of weights • 1m ruler supplied • Table unit for experiments on mechanical work and potential energy. • Lifting a weight using a lever and a dynamometer (spring balance). • Integrated angle measuring scale protractor. • The apparatus consists of the arm, hanger with loads, spring balance and protractor scale attached to the support board. One end of the arm is fixed, and its position is indicated by the protractor. Other end of arm carries the load hanger and is 	No.	1		

			<p>restrained by spring balance that is perpendicular to the arm.</p> <ul style="list-style-type: none"> • The free-standing, bench-top unit consists of a suspension cord carrying a loaded trolley at its mid-span. The cord is clamped at one end, and tensioning effort applied vertically at the other end. • All pulleys feature ball bearings <p>Instruction manual</p>				
4.		Inertia in rotation motion apparatus	<ul style="list-style-type: none"> • Metal rotating bar, weights with knurled bolts for quick fastening • Solid and hollow test cylinders • Ball bearing mounted rotating drum, anodized aluminum • Acceleration of system by weight attached to the drum 	No.	2		
5.		Laser Level	<ul style="list-style-type: none"> • Rotary Laser Level with Transmitter and stand • Accuracy: ± 10 arc sec • Rotation Coverage 360°, Rotating Speed: 600rpm or 1200rpm • Laser beam Type: visible 670 nm • Working Range: 1000m (diameter) • Self-leveling range: Horizontal $\pm 5^\circ$ • Operating Temperature: -20° to $+60^\circ\text{C}$ • Rechargeable Ni-MH battery with charging system. • Operating Time: 65 hours • Tripod Mounting System • Dust and Waterproof IP56 <p>Or Equivalent <i>Ranges and values are approximate and close values will be acceptable.</i></p>	No.	4		
6.		Aggregate crushing value apparatus	<ul style="list-style-type: none"> • Aggregate crushing value apparatus, 150 mm dia. • cylinder, plunger, base plate, tamping rod and measure • Required Services, Assembly and Installation, Interface and Starting-up, Safety, Maintenance, Calibration & Practices Manuals. • User Guide 	No.	1		
7.		Concrete Test hammer with Calibration anvil	<ul style="list-style-type: none"> • Concrete test hammer type N. Aluminium body, • Calibration certificate and carrying case. • Conforming to ASTM C805 • Calibration anvil • Scale graduated in p.s.i. • Required Services, Assembly and Installation, Interface and Starting-up, Safety, Maintenance, Calibration & Practices Manuals. 	No.	4		

			<ul style="list-style-type: none"> User Guide 				
8.		Ultrasonic Pulse Velocity tester	<ul style="list-style-type: none"> Measuring range: 0 - 3000 μs - accuracy +/- 0,1 μs Selection of the ultrasonic pulse amplitude adjustable from 250 to 1000V Measurement of the required time by the ultrasonic pulse to go through the tested material. Single or continuous acquisition mode with automatic or manual saving. Zero calibration with depuration of the time for the pulse to go through the probes. Calibration of a defined time value. Capacity of data acquisition, processing and filing of the test data up to 30.000 samples. Interface mini USB for PC connection. Two outlets for connection to the oscilloscope. Languages: English, French, German, Spanish, Italian. The use of the instrument is made easy because it is based on the user-friendly system. The instrument in basic configuration in a practical palmer container. Two 55 kHz probes with connection cables. Calibrating cylinder and contact paste. Battery rechargeable pack NiMh 4,8V > 2000m/A with low battery condition alarm. Anti-shock case holding the unit and the accessories. External feeder 230V and battery charger 12V 500m/A. <p>Or Equivalent <i>Ranges and values are approximate and close values will be acceptable</i></p>	No.	1		
9.		Air entrainment meter	<ul style="list-style-type: none"> Air entrainment meter, pressure gauge type, Minimum 5 l cap Aluminum/corrosion resistant vessel Built in hand operated pressure pump Connected to the measuring gauge showing directly the air content in percentage. Air content range upto 15% Graduation range: 0.1% up to 6% and 0.2% from 6 to 8% and 	No.	2		

			0.5% from 8 to 15%. Or Equivalent <i>Ranges and values are approximate and close values will be acceptable</i>				
10.		Specific gravity for soil apparatus	<ul style="list-style-type: none"> • Specific gravity bottle 50 ml cap. 6xNo • Specific gravity bottle 100 ml cap. 6xNo • Pycnometer type • Glass bottles complete with capillary vent stopper 	No.	12		
11.		Hydrometer method	<ul style="list-style-type: none"> • Soil hydrometer 152 H type • Sodium hexametaphosphate , 1000 g bottle (minimum expiry range 12 months after delivery) 	No.	2		
12.		Ring and ball apparatus	<ul style="list-style-type: none"> • Standard Ring and ball apparatus, • Including ring holder/assembly, two brass rings, two brass ball centering guides, two steel balls, pouring plate, Glass vessel • Ball centering guide 	No.	4		
13.		Bitumen Penetrometer	<ul style="list-style-type: none"> • Automatic penetrometer with standard accessories. • Conforming to ASTM D5, ASTM-D217 & AASHTO T49 • Programmable reference positions for holder assembly: 8 • Programmable penetration time: 0-9999 sec, minimum • Programmable delay time: 0-999 sec, minimum • Penetration range: 0-50 mm, minimum • Penetration resolution: 0.01 mm, minimum • Tests simultaneously displayed: up to 6 • Hardened stainless steel penetration needle (Set of 3 mini.) • Magnetic penetrometer needle, Set of 3 pieces • Standard penetration cone conforming to ASTM D217 and EN 13880-2. • Sample cup, dia. 55x35 mm. Set of 6 pieces minimum • Sample cup, dia. 70x45 mm. Set of 6 pieces minimum • Stainless steel sample cup, dia. 55x35 mm minimum • Water bath with thermo-regulator and immersed probe • User Guide • 220V/50Hz/1 ph Or Equivalent <i>Ranges and values are approximate and close values will be acceptable</i>	No.	1		

14.	Centre of gravity apparatus	<ul style="list-style-type: none"> • Back Board: 228(L) x 152(W) x 270(H) mm • 1 x Trapezium shape (4 holes) • 1 x 'L' shape (3 holes) • 1 x semi-circle shape (3 holes) • 1 x triangle shape (3 holes) • 1 x 'T' shape (3 holes) • 1 x circle shape (3 holes) 	No.	1		
15.	Modulus of rigidity apparatus	<ul style="list-style-type: none"> • Rubber cylinder dia: 75mm, L=100mm • Round plate: 0~360o with pointer • Maximum load: 9kg • Rubber Block: 195x100x25mm • Dial Gauge: 20mm x .01mm • Maximum load: 9kg 	No.	3		
16.	Electronic Weighing Balance	<ul style="list-style-type: none"> • Accuracy 0.001gm • Material to be measured Metals, Chemicals, Organic substances • Platform Dimensions 100 X 100 mm minimum • Quick response • High stability • Piece Counting function • Analog Bar Graph Display • Easy unit conversion • Equipped with a square pan • Required Services, Assembly and Installation, Interface, Starting-up, Safety, Maintenance, Calibration & Practices Manuals. • User Guide • 220V/50Hz/1 ph <p>Or Equivalent</p>	No.	1		
Total						

Firm Name: _____

Signature: _____

Name: _____

Designation: _____

Tender No _____
Name of the Firm _____
Firm Address _____
Date _____
Telephone No _____
E-Mail _____

To,

DD SCM Office
NUTECH University
I-12, Main IJP Road,
Islamabad.

Dear Sir

1. I / We hereby offer to supply to the NUTECH University the stores detailed in schedule to the tender inquiry or such portion thereof as you may specify in the acceptance of tender at the price offered against the said schedule and further agree that this offer will remain valid up to 90 days after opening of Financial offer and will not be withdrawn or altered in terms of rates quoted and the conditions already stated therein or on before this date. I / we shall be bound by a communication of acceptance to be dispatched within the prescribed time.

2. I / we have understood the instructions to Tenders and General Conditions Governing Contract available at NUTECH website and have thoroughly examined the specifications / drawing and / or patterns quoted in the schedule here to and am/are fully aware of the nature of the stores required and my/ our offer is to supply stores strictly in accordance with the requirements.

Yours Faithfully.

(Signature of Tenderer)

Designation

Date:

Individual signing tender and / or other documents connected with a contract must be signed by principal authorized rep/ OEM rep/ Authorized partner firm rep.

SPECIMEN FOR "ADVANCE PAYMENT BANK GUARANTEE"

Guarantee No: _____ Date _____ Amount: _____ Valid upto: _____

In Favour of:

National University of Technology (NUTECH), IJP Road, I-12, Islamabad

Subject: **Advance Payment Bank Guarantee**

Contract No: _____ DATED. _____

Dear Sir,

1. We [Name of Guarantor] understand that you have entered into contract with M/S [Name of Firm] (hereinafter called Our Client), for provision of [Name of Stores]. And as per the above mentioned Contract, you are liable to pay to Our Client an amount of [Amount of Guarantee] in advance, which shall be released against a Bank Guarantee. 2. Bank & seller firm shall inform your office regarding termination of the validity of this bank Guarantee one clear month before the actual expiry date of this Bank Guarantee.

3. Now, we hereby irrevocably undertake to immediately make payment on to your orders, merely upon receipt of your first written notice, an amount not exceeding [Amount of Guarantee] that may be claimed by you at your own discretion without it being necessary for you to prove or even assert to the Bank any default whatsoever of Our Client under the Contract.

4. Claims against this Guarantee shall be lodged on us through written request/s on your proper Letter Head. Unless claims are not presented on or before the Validity Date, all rights and benefits under this guarantee shall be forfeited and we shall be released from all claims, demands or liabilities of any kind whatsoever.

5. This Guarantee shall remain in force up to the above mentioned Validity Date which can however, be extended upon request of Our Client.

Yours faithfully,

Signature: _____

Name: _____

Designation: _____

Bank Stamp:

"SPECIMEN FOR BANK GUARANTEE AGAINST PERFORMANCE/WARRANTY GUARANTEE"

Guarantee No: _____ Date _____ Amount: _____ Valid upto: _____

In Favour of: National University of Technology (NUTECH), IJP Road, I-12, Islamabad

Subject: In compliance with terms of Performance/Warranty Guarantee Bank Guarantee

Contract No: _____ dated _____

Dear Sir,

1. Whereas your good-self have entered into Contract No__ dated_with M/s [Firm Name] Located at [Firm Address], Herein after referred to as our customer and that one of the conditions of the Contract is submission of Bank Guarantee by our customer to your good-self for a sum of [Amount].

2. Incompliance with this stipulation of subj contract, we hereby agree and undertake as under:-

- a. To pay to you unconditionally on demand and / or without any reference to our Customer an amount not exceeding the sum of [Amount] as would be mentioned in your written Demand Notice.
- b. To keep this Guarantee in force till [Validity Date].
- c. That the validity of this Bank guarantee shall be kept two clear year ahead of the original / extended delivery period or the warrantee of the stores which so ever is later in duration on receipt of information from your office. Our liability under this Bank Guarantee shall cease on the closing of banking hours on the last date of validity of this Bank Guarantee. Claim received there after shall not be entertained by us whether you suffer a loss or not. On receipt of payment under this Guarantee, this documents i.e., Bank Guarantee must be clearly cancelled, discharged and returned to us.
- d. That we shall inform your office regarding termination of the validity of this bank Guarantee on clear month before the actual expiry date of this Bank Guarantee.
- e. That with the consent of our customer you may amend / alter any term / cause of the contractor add / delete any term / clause to / from this contract without making any reference to us. We do not reserve any right to receive any such amendment / alternation or addition / deletion provided such like actions do not increase our monetary liability under this Bank Guarantee which shall be limited only [Amount].
- f. That the bank guarantee herein before given shall not be affected by any change in the constitution of the Bank or Customer / Supplier or Vendor.

- g. That this is an unconditional Bank guarantee, which shall be cashed on sight on presentation without any reference to our Customer / Supplier or Vendor.

Signature_____

Name_____

Desig_____

Bank Stamp_____

Note: No changes in the above given BG format shall be accepted.

"SELLER'S WARRANTY CERTIFICATE"**(To be provided on stamp paper)**

Contract No: _____

Dated: _____

Validity ____ years from the date of final acceptance of the Stores.

We hereby guarantee that we are the genuine and original Source of provisioning the Stores to our Buyer. We also undertake that nothing in the manufacturing of these Stores has been obtained through unauthorized means.

1. We hereby warrant and undertake that the Stores and all the associated spares/ accessories supplied under the terms and conditions of the above Contract, are:

- a. brand new, complete in all respects, possessing good quality and standard workmanship; and
- b. liable for replacement/rectification free of charge, if during the Warranty period the same are found defective before or under normal use or these do not remain within the limits and tolerances stated under the specifications or in any way not in accordance with the terms of this Contract. All expenses incurred in removal, re-provisioning and reinstallation of such defective Stores or their parts shall also be borne by us.

2. The Warranty shall remain valid for a period of ____ years from the date of final acceptance of the Stores.

Signature & Stamp _____

Name & CNIC _____

Designation: _____

Date: _____

**Sellers warranty must be provided by the Seller (firm) on Rs 100 stamp paper along with bank guarantee/CDR/Pay Order without changing a word. BG with additional clauses will be rejected.

CHECK LIST

(This checked list must be attached with your technical offer, duly filled and Signed by authorized signatory)

Tender No _____

Date _____

1	Tender Processing Fee	a. Tender processing fee ref no _____ b. Bank _____ c. Amount _____		
2	EM/ Bid Bond	a. EM/ Bid Bond ref no _____ b. Bank _____		
3	Form Annex A, A-1, B and C signed by Authorized Signatory		Yes	No
4	Offering specification of items as per IT		Yes	No
5	Quoted Currency as per IT		Yes	No
6	Accounting unit/Qty as per IT		Yes	No
7	Delivery Schedule as per IT		Yes	No
8	Country of origin of store _____			
9	Name of OEM:- _____			
10	Original Performa invoice (Mandatory)		Yes	No
11	Certified that there is no Deviation from IT conditions/ there is deviation from IT condition as per fol details		Yes	No
12	Blacklisting certificate.		Yes	No
13	Verifiable OEM Certificate		Yes	No
14	Warranty Period as per IT		Yes	No
15	ATPs provided		Yes	No

Note: Fill and/or mark Yes/No where required

Signature of Firm Auth Signatory