



TENDER DOCUMENT

SCEE, NUST Islamabad, Pakistan

Tender Reference #: 0947/02/SCEE/LabEqpt/NBC/PH-II-Retender (June 2021)

Procurement of Lab Equipment for NBC - Ph-II - Retender

1. Bids are invited from authorized well-established suppliers, OEMs or distributors having NTN / Sales Tax registration with active ATL Status in FBR record with modern facilities for supply and delivery of "Lab Eqpt to NBC Quetta". Complete specifications and required quantities have been mentioned and attached as (Annex-A).

2. **SUBMISSION OF QUOTATIONS/ BIDs**

- a. Quotations / Bids must be submitted in two sealed envelopes packed in one envelope.
- b. First sealed envelope having technical offer marked as "**Technical Bid**" is required to be submitted as per the following details:-

Sr#	Lab Name	Remarks
1	Geo-Tech lab	Envelope 1: Booklet 1 should consist of one set of general documents as mandatory requirement as per part A of Annex-H. Booklet 2 should consist of Lab-wise technical quotations as per the format at Annex-B with terms & conditions and required literature with each quotation. Envelope 2: Lab-wise Financial quotations as per the format at Annex-C with terms and conditions.
2	Structure Lab	
3	Transportation Lab	
4	Hydraulics Lab	
5	Survey Lab	
6	Public Health Engg. Lab	
7	Workshop Practice Lab	
8	Computer Lab	

Note:- Each Technical bid should be Lab Wise with relevant technical literature as indicated in Annex-H

- c. Second sealed envelope having financial offer and bank draft / pay order for 2 % earnest money is to be marked as "**Financial Bid**". The bank draft of 2 % earnest money must be stapled with the first page of financial bid.
- d. Both envelopes to be placed in a 3rd sealed envelope bearing firm's postal / email address and phone numbers etc. and marked as "**Procurement of Lab Equipment SCEE - NUST with Tender Reference. # 0947/02/SCEE/LabEqpt/NBC/PH-II-Retender (June 2021)**" and to be addressed to: President Local Purchase Committee, SCEE, NUST, Sector H-12 Islamabad. The tender fee

amounting to Rs.3,000/- in the form of bank draft/pay order MUST be provided with the technical bid. No bid would be accepted without tender fee.

- e. NUST, SCEE reserves the right to reject partial and conditional quotes.
- f. Selection / evaluation of item(s) would be done according to the selection criteria as per Annex-H.
- g. Quotations have to be submitted on company/firm's letter head. NTN and GST number duly mentioned.

3. **BID RECEIPT and OPENING.** Single stage - two envelop method would be adopted for the tender. The sealed quotations should reach this office on or before 10:30 AM on 01 July 2021. NUST reserves the right to accept or reject any or all of the bids as per PPRA Rule 33 (1). All tenders will be opened in SCEE Conference Room at 11:00 AM on the same day at NUST, H-12 Sector, Islamabad.

4. **Quotations:**

- a. Sealed bids must include quotations, detailed specifications and all other relevant technical details of the quoted item(s) as attached at Annex "A".
- b. Financial quotations must indicate rates of each item separately including all applicable taxes i.e. with GST etc. Any exemptions in taxes by the federal government (where applicable) must also be indicated.
- c. **The rate of each equipment including its essential accessories must be included in total price quoted for the equipment. Essential accessories shown as separate/optional items would be considered nonconformity of the terms and conditions of the tender.**
- d. **The equipment manufactured by assembling parts manufactured by different OEMs would not be accepted due to potential compatibility issues at a later stage.**
- e. Financial Quotation must be submitted in the format attached as Annex-B on company/firm's letterhead.
- f. Firms must submit earnest money (refundable) equal to 2% of total quoted value with the financial bid in the form of pay order / bank draft in favor of SCEE, NUST Islamabad.
Note: NUST being educational institution is exempted from GST on Lab/Research related equipment as per "Serial No. 52 of the Table -I of the Sixth Schedule to the Sales Tax Act, 1990" providing the exemption from levy of sales tax on import.
Kindly note that any other (Provincial taxes) other than Federal Govt. taxes shall be borne by the supplier.
- g. For CPT quotes: The bidders must submit authorization letter as evidence of their level of relationship with the OEM i.e. partner, sole distributor, authorized distributor i.e., specifically authorized by OEM to supply quoted equipment to NUST. This letter is to be obtained from the original equipment manufacturer (OEM) and should be valid for delivery of the quoted equipment.
- h. Detailed bids are to be submitted on Firm's letterhead duly signed by the authorized person of the firm.
- i. Bidders are to provide quotes with validity of at least 90 days extendable up to 120 days.
All items to be quoted with minimum 01 year warranty and 10 year after sale service covering supply of spare parts, as required and for upgrade period for the equipment.
- j. Selected firm(s) shall provide, in case of imports, a Performance Guarantee (PG) equal to 10% to be retained for one year. In case of FOR, the amount equal to 10 % would be deducted from final bill and would be released after one year of successful installation and commissioning with complete demonstration of operations.

5. **GENERAL INSTRUCTIONS FOR FIRMS/SUPPLIERS**

- a. **FOR based Quotations:** Prices including all taxes should be quoted and only that equipment should be quoted which fully meet the required specifications. The supplier will have to deliver the equipment at NBC Quetta at his own expense.

- b. **CPT Based Quotation:** Prices on CPT basis should be quoted. The supplier will have to deliver the equipment at NBC Quetta at his own expense. After the shipment arrives at Airport/seaport, the same would be notified to SCEE with a request through email for exemption letters which would be provided on priority to facilitate in clearance of the imported equipment, however local agent of OEM/Vendor will be overall responsible to handle the customs clearance and all related formalities. Insurance and LC amendment charges (where applicable) will be borne by vendor / supplier or its authorized agent / representative.
- c. The fitting / installation charges (if any) to be included in the bid price. No additional charges will be accepted during the installation / commissioning phase.
- d. All stake holders would maintain secrecy / confidentiality of information. No information shall be shared with un-authorized firm(s) / person(s).
- e. The completed work will be verified as per the following SCEE - NUST standards:
- Complete Documentation & Labeling.
 - Registration of SCEE - NUST as user and customer against all procured items with the manufacturer (where applicable).
 - Conduct a quality training, where required.
 - Software, Latest stable Operating System (where applicable).
 - The bidders must meet all technical specification and requirements.
 - Firms are to ensure that "End of Sale" and "End of Life" has not been declared against quoted items.
- f. NUST reserves the Right to purchase at risk-and-expense of Supplier, if the selected supplier, fails to complete the order, or delays to supply within the quoted delivery time or extended time given by SCEE, does not fulfill the requirement as mentioned at para 4-g above, supplies substandard / low quality items and may resort to the following: -
- (1) Purchase single, all or unsupplied quantity of item(s) as the case may be on supplier's Risk and Expense.
 - (2) Forfeit Performance Guarantee / Earnest Money.
 - (3) Initiate administrative action as per rules.
 - (4) In case of non-acceptance of purchase order, the firm may get blacklisted in SCEE/all NUST departments.
- g. Only one Representative from each bidder would be allowed to witness the opening of tenders, without conferring any privileges/rights. No mobiles phones / recorders would be allowed inside the bid-opening room.
- h. Contract Agreement would be signed with the successful bidders) as per NUST policy. The provision of stamp paper (Rs.100/-) shall be the responsibility of the firm which shall be delivered to SCEE for award of contract within 5 working days of issuance of Letter of Intent (LoI). The purchase order would be issued after signing the contract agreement.
- i. In case of dispute, decision of Pro-Rector / Rector-NUST would be final and binding on both the parties.
- j. Supplier shall be responsible for the clearance and transportation of sample or the bulk up to / within NUST premises. Provisioning of loading/un-loading labor would be the responsibility of the supplier.
- k. Subletting of the bid will disqualify the successful vendor.
- l. Submission of quotations / bids through email / fax is not admissible.
- m. INTEGRITY Pact envisaged in PPRA rules will apply.
- n. Bid can be withdrawn before bid opening date by a firm within three working days of its submission.
- o. Firms will have to arrange demo or display of equipment (if possible) on request from SCEE - NUST technical team.
- p. The supplied items must have service and operations manuals and operating software (where applicable) for all quoted items.
- q. Bids shall be rejected if rate(s) are incomplete, unclear, conditional, altered or ambiguous.
- r. Bids shall be rejected if required detail of specifications, brand, origin, make, model, warranty, after sale support period etc are not clearly quoted / mentioned. No margin shall be given on this account.
- s. Late submissions would not be entertained.
- t. Moreover, Tender Notice is only an invitation to offer quotations / bids. The competent authority may reject all quotations / bids or cancel the Tender as per rules laid down by PPRA.

6. **DELIVERY PERIOD.** The delivery time should not be more than 6 to 8 weeks on FOR basis and 8 to 12 Weeks on CPT basis.
Installation, testing, integration and commissioning time if applicable shall not be more than 1 week. (Relaxation may be granted as per merit of the case).
7. **PENALTY & LATE DELIVERY.** In the event of any delay in delivery, the firm shall inform SCEE before expiry of such period giving reasons / justification for delay. However, SCEE-NUST reserves the right to take following actions: -
- Evaluate the request for extension in delivery period as per its merit and may consider extension in delivery period or otherwise.
 - In case of late delivery for the reasons well within control of the firm, LD charges at the rate of 1% per week but not exceeding 10% of the total value of the undelivered stores / items may be levied.
 - SCEE NUST may cancel the contract and partial deliveries in such case will be forfeited.
 - The decision by SCEE-NUST under this clause shall not be subjected to arbitration.
8. **INSPECTION/TESTING.** NUST Inspection Committee / Faculty will inspect and test the supplied tools/equipment/items as per specifications and accessories list after arrival at our premises. All tests if applicable would be conducted in the presence of SCEE technical team and test reports, would be signed by both the parties and submitted to SCEE procurement office.
9. **TERMS OF PAYMENT.** No advance payments would be made. However, following payment terms and conditions will be applicable: -
- In case of FOR:** 90% amount will be released through crossed cheque after delivery of equipment, verification by the respective committee and successful inspection, installation & commissioning of the equipment with successful demonstration of complete operations duly confirmed by SCEE technical team. Remaining 10% will be released on completion of one-year warranty period from the equipment installation/commissioning date.
 - On CPT basis:** SCEE-NUST Islamabad will provide exemption letters to the local agent of OEM who will arrange clearance of the equipment. The payment schedule is as under.
 - 70%** payment of the total value of the contract through LC will be made to OEM on receipt of following shipping & insurance documents: -
 - 3 Copies of negotiable Bill of lading / airway bill.
 - 8 Copies of commercial Invoice (in original).
 - 2 Copies of non-negotiable Bill of Lading / airway bill.
 - Packing List.
 - One-year Warranty Certificate.
 - Insurance premium receipt provided by local company/vendor.
 - 30%** payment of the total value of the contract will be made to foreign OEM on delivery, installation, commissioning & training of equipment and successful demonstration of complete operations duly confirmed by SCEE team at our site upon submission of performance guarantee equal to 10 % by the local representative firm in the form of bank draft/CDR.
 - Performance guarantee equal to 10%** will be retained for one year and would be released upon receipt of written request by the vendor and NOC from the concerned Lab Incharge and Head of Department.
 - Letter of Credit (LC) opening charges will be borne by NUST. The following terms would apply:
 - Letter of Credit will be valid for a period of two months beyond the delivery period stipulated in the contract for the negotiation of shipping documents.
 - In case of an extension in LC required due to delays in shipment, delivery, installation, commissioning etc. charges of LC extension will be borne by the supplier. The consignment shall be duly insured and shall remain at the risk and cost of the supplier from supplier's warehouse to consignee's warehouse.

- c. In FOR cases, payment of the invoice would be made after deduction of income tax (withholding tax) and part of sales tax as per rules (as applicable). Any new tax/revised tax by GOP shall also be applicable. 10 % would be deducted as performance guarantee and would be released upon receipt of written request by the vendor and NOC from the concerned Lab Incharge and Head of Department.
- d. Payments shall be stopped if Firm's "Tax Payer Status" is found missing on FBR's active tax payers list. It shall remain stopped till firm status appears back on FBR website as active tax payers.
10. For pre-bid clarifications / Technical queries from any vendor, a pre-bid meeting can be arranged by SCEE, MUST one week before tender submission/opening. Firms are advised to forward the written request on time for said meeting (if required).
11. Technical quotations will be opened, in the presence of representative of the firms if they desire so and members of SCEE, MUST equipment purchase / evaluation committee at SCEE. Financial Bids of the shortlisted firms shall be opened on later stage in SCEE Conference room or any other location as decided.
12. The bid opening may be postponed under unforeseen circumstances. However, in such a case, SCEE, MUST will notify all the bidders well in time and communicate next date and time.
13. For queries (if any), firms may contact on **SCEE Email procurement@scee.nust.edu.pk or at telephone number 051-90854615, 90854011, 90854007, 051-90854035**. The subject of the email should include the PPRA tender reference number for intended action and reply.
14. If the participants are less than three against a Tender, SCEE has the right to reject the bids and proceed for re-tendering. In this case commercial bid(s) will not be opened and returned to the bidder(s).
15. **SOURCE AND NATIONALITY REQUIREMENTS** The cooperating country for this procurement is Pakistan. The firms must not quote or supply any commodities or services that are manufactured or assembled in, shipped from, transported through, or otherwise involving Burma (Myanmar), Cuba, Iran, North Korea, (North) Sudan, Syria.
16. **WARRANTY.** Standard warranty, service and repair within the cooperating country is required for all items under this procurement. The warranty coverage must be valid on all items for a minimum of one year and after sale service for 10 years after their successful supply, installation and commissioning.
17. **AFTER SALE SERVICE.**
- Supplier will guarantee the availability and the supply of Essential Maintenance Spares required to keep the equipment operational for a period of Ten (10) years from the date of inspection & commissioning of equipment.
 - The firm would provide details of any improvements / modifications in the supplied equipment during warranty period / currency of the contract if carried out by the OEM.
 - All Manuals and Documents shall be provided with the equipment.
18. **DEMURRAGE / LOSS OF CARGO.** If the cargo is lost due to any omission in the preparation of bill of lading, airway bill, the supplier will be responsible through insurance, for making the loss good. Supplier would be responsible for the correctness of all shipment documents. In case of failure on their part in this regard, the firm would be responsible for any demurrage or extra charges.
19. **SHIPPING/DISPATCH INSTRUCTIONS.** Shipping will be made by the supplier preferably through the National Airline. Shipment by INDIAN or ISRAELI Vessel / Airline is not allowed. The partial shipment of stores shall also be not allowed. Complete stores will be shipped as one consignment except where countries / OEMs are different and for which prior approval from SCEE has been sought.

20. **TAXES.** Being an educational institution and working under umbrella of MoST, NUST is exempted from certain taxes. Therefore, all such taxes are to be indicated and items are to be imported/supplied in the name of NUST, Islamabad so that such taxes are not levied.
21. **Ordered Quantity.** SCEE, NUST reserves the right to: -
- Change the required quantity, time period etc while placing purchase order or decrease currency of contract.
 - Reject any or all bids as per "PPRA" rules.
 - Make / seek clarification at any time as per rules.
22. **REPEAT ORDER.** If required, SCEE, NUST may place a repeat order (at previous rates and conditions) for the supply of contracted item(s), during a period of six (06) months after the issue of purchase order/contract amounting not more than 15% of the total value of the contract on the same Terms and condition.
23. **PACKING & TRANSPORTATION.** All Equipment shall be individually packed in standard packing provided by the manufacturer for onwards transportation and delivery. Any item damaged during transportation will be replaced by the bidders at their cost including freight and insurance charges.
24. **DEFAULT.** If the firm fails to effect or keep in force any of the insurances referred to in the contract or fails to provide satisfactory work, NUST may, without prejudice to any other right or remedy, terminate the Purchase Order and cancel contractor rights or remedy to recover the amount paid in advance (if any). If the vendor fails to deliver items/ services as per approved samples and specifications, NUST reserve the right to terminate the contract.
25. **TECHNICAL USER MANUAL/ PUBLICATION.** Successful vendor(s) will be bound to provide subject material to SCEE at the time of delivery.
26. **TOOL KITS/ ACCESSORIES / OPERATIONS & MAINTENANCE MANUALS.** Standard sets of General Tool kit / accessories/ Operations and Maintenance manuals of the equipment shall be supplied by the firm along with equipment within the quoted price.
27. **ARBITRATION.** In case of any dispute, case shall be reviewed by "NUST Complaint Committee" and the decision of Pro-Rector Academics / Rector NUST shall be final and binding on both the parties without recourse to legal action.
28. **FORCE MAJEURE.** The Supplier shall not be held liable in the event of their failure to comply with the delivery schedule of the ordered items(s) for reasons of Force Majeure including but not limited to: war and other instabilities invasion, act of foreign enemies, mobilization or embargo, civil war etc.
29. **GRIEVANCES.** Grievances (if any) by any vendor may be sent / addressed to Dy Director Administration, SCEE NUST within 10 days after results announcement.
30. **EVALUATION CRITERIA.** Criteria will be as per Annex-H of this document.
31. **INSURANCE /SHIPMENT CLEARING & LOCAL TRANSPORTATION CHARGES**
Insurance, shipment clearing and local transportation will be done by the supplier and all financial charges will be paid by supplier/Firm.

Specifications
SPECIFICATIONS TO RETNDER – NBC QUETTA

GEOTECHNICAL LAB

S N	Item Name with Technical Specification	Standard Accessories	Qty	Country of Origin
1	<p>Soil Resistivity Meter</p> <ul style="list-style-type: none"> • Capable to measure: (1) vertical Electrical Soundings (VES). (2) Electrical Profiling (EP) (1D,2D,3D). (3) Self Potential (SP). (4) Induce Polarization (IP). (5) Electrical Resistivity Tomography (ERT, Electrical Imaging) • Applications: (1) Water surveys of the subsoil to shallow, medium and great depths, Geological stratigraphy, landslide studies, etc. (2) Groundwater contamination by salt water and / or pollutants. (3) Subsoil cavities detection. (4) Mining (sulphides, etc.). (5) Archaeology • Automatic computation of apparent resistivity, chargeability, and Self-Potential compensation • Automatic gain ranging for both current and voltage measurements • Automatic digital stacking, Filtering – oversampling – 50/60 Hz noise removal • Auto calibration at start-up • Minimum 2 simultaneous channels • Internal memory for data storage (minimum 128 GB) • Cable and software for data transfer • 2 internal 12V, 7Ah batteries (rechargeable) • Transmitter, receiver and power supply in one single casing • External DC source/ booster box • Copper Electrode minimum 60 pcs stainless steel/Copper • Multi-electrode cable with clip cords (minimum 400 m length) • Carry case • 1D/ 2D profiling capability Any other accessories for Smooth functioning of the machine 	<ul style="list-style-type: none"> • Data Processing compatible Software (licensed), or any Built in Company software by Manufacturer. • GPS built in 	1	Western Europe / North America / Japan

2	<p>Apparatus Name: HOEK TRIAXIAL CELL</p> <p>Testing: For triaxial testing of rock specimens Standards: Conforming to ASTM D5407 and ASTM D7012 Apparatus include the following:</p> <ul style="list-style-type: none"> • BX and NX Size Hoek Cells, • Automatic Cell Pressure Arrangement • Sample Extruder • Vertical and lateral LVDT 	<p>Accessories</p> <ul style="list-style-type: none"> • Pressure Actuator • Conform to existing UTM held at NBC • Quick release self-sealing couplings • 2 pieces of upper and 2 pieces of lower loading caps with spherical coupling • Compression Jig Assembly for Rock Core Specimens, Ø47 mm to Ø63.5 m 	1	Western Europe / North America / Japan / Turkey
3	<p>Apparatus Name: DIGITAL DIRECT SHEAR TEST</p> <p>Testing: Direct Shear, Residual Shear Testing, Incremental consolidation & Unconfined Compression Test of soils Standards: Conforming to ASTM D3080/D3080M-11, ASTM D6528 – 17, Apparatus includes the following:</p> <ul style="list-style-type: none"> • Digital Automated Direct Shear Testing System w/ 2.5 in diameter. specimen rings, springs, (2) load cells, (2) deformation sensors, and software for direct/residual shear testing • Software for DigiShear Testing • Network Module with serial and data cables (2) • Variable voltage Power Supply (2 Nos) • ADIO Module – 4 channel (2 Nos) • Vertical Load Carrying Capacity:10 kN , Dual Range for increased accuracy • Horizontal Load Capacity: 5kN • Speed: 0.00002-0.2in/min • horizontal Travel ±20 mm, • 60mm diameter shear box assembly <p>Table top version</p>	<p>Accessories</p> <ul style="list-style-type: none"> • Base system w/consol. Software • Mounting stand (2 Nos) • 2000lbs load cell • 3.0 in. deformation sensor • load cell piston adapter • Bottom load cell adapter • Spring Assembly • 2.5 inch incremental consolidation cell • 2.5 inch specimen blank • UC accessories • Triaxial software package • Commercial Back Up Power UPS System (800 Watts) • Modern PC/Laptop with Windows (2) 	1	Western Europe / North America / Japan / Turkey

SPECIFICATIONS TO RETNDER – NBC QUETTA
TRANSPORTATIONS LAB

S.No.	Item with Technical Specifications	Standard Accessories with each equipment	Qty	Country of Origin
1.	<p>Dynamic Shear Rheometer (DSR) Testing: To determine the rheological property of bitumen Standard: Conforming to ASTM D7175, ASTM D7405, ASTM D7552 Apparatus include the following:</p> <ul style="list-style-type: none"> • Speed Range 0.1-1000 rpm • Torque 0.1-150mNm • Temperature Range: -5° - 200°C • Temperature Accuracy: 0.1°C • Phase Angle measuring capability: 0°-90° • Frequency: 0.001-10Hz • Specimen Size: 8 or 25mm • Revolutions per Minute: 10-1,000 rpm • Complete with Peltier control unit, Peltier temperated basic plate, basic plate support, computer and software. 	<p>Accessories:</p> <ul style="list-style-type: none"> • Scrapper (2 Nos.) • Adapter • Exchange grip • 2 exchangeable plates • Measuring plate 25 mm (2 Nos.) • Measuring plate 8 mm (2 Nos.) • Spindle 25mm (2 Nos.) • Spindle 8mm (2 Nos.) • Silicon mold 8mm (2 Nos.) • Silicon mold 25mm (2 Nos.) 	1	Western Europe / North America / Japan
2.	<p>Double Wheel Tracking Machine Testing: To determine the rutting potential and moisture susceptibility of asphaltic samples Standard: Conforming to ASTM T-324, AASHTO T-340 Apparatus include the following:</p> <ul style="list-style-type: none"> • Automatic Wheel Tracker • Capable of performing Hamburg Wheel Tracking Test (AASHTO T-324) • Capable of performing APA Wheel Tracking Test (AASHTO T-340) • Capable of Performing Moisture susceptibility Test • Have capability of submerging sample in water while wheel passing on sample during test • Variable wheel passing rate of 20-100 passes per minute • Variable temperature heating capability. • Complete with computer and software. 	<ul style="list-style-type: none"> • Testing Steel Wheels • Testing Rubber Wheels • Moulds for placing asphaltic samples 	1	Western Europe / North America / Japan

**SPECIFICATIONS TO RETNDER – NBC QUETTA
STRUCTURES & CONCRETE LAB**

S. N	Item Name with Technical Specification	Standard Accessories	Qty	Country of Origin
1	<p>Multi-Axial Sub assemblage Test System (MAST) Supply, Installation and Commissioning of Rectangular Shape reaction wall with actuators</p> <p>Dimension: 5m width and 4m height</p> <p>Capacity: Axial load = 100 ton</p> <p>System Includes following:</p> <ul style="list-style-type: none"> • Strong steel frame resistance to weathering • Steel buttress support on both sides • Shed of a suitable size compatible with the system along with strong reaction floor. • Provision and installation of crane arrangement in the shed for lifting and moving heavy beams/structure models • Upper and lower hydraulically operated jaws • High precision load cell for load measurement ($\pm 0.5-1\%$) • Complete software packages • PC system that is compatible with software packages and should has following minimum specifications: • Core i7, 8th Generation • RAM: 8 GBA DDR4 • 1 TB HDD • USB keyboard and Mouse • 24” LED Monitor • Operating System: Window 10 or latest at the time of supply • Compatible black & white laser jet printer model not older than one year from date of tender 	<ul style="list-style-type: none"> • Rigid Steel cruciform crosshead design • 5 Actuators: 4 Vertical, 1 Lateral • 1000kN Vertical Force Capacity with +/- 500mm (+/- 20 inches) vertical displacement • 500kN (880 kips) Horizontal Force Capacity (each direction) with +/- 500mm (+/- 16 inches) horizontal displacement • Capable of testing structures up to 3m in height and 2m x 2m in plan • Cyclic, Quasi-static and Real-time Hybrid Simulation Capabilities using the Open Fresco framework • Large Hydrostatic Spherical Bearings for friction reduction • LVDTs 05 each (50mm, 100mm, 200mm, 300mm) • Laser type displacement transducers 03 each (50mm, 100mm, 200mm, 300mm) along with relevant accessories 	01	Western Europe / North America / Japan/ Turkey
2	<p>Petrol Operated Poker Vibrator Testing: Facilitate the testing to include the internal compaction of concrete specimens Standard: Conforming to EN, ASTM & BS standards norms including to EN 12390–2; ASTM C31, C192; AASHTO T23, T126 Main Features:</p> <ul style="list-style-type: none"> • Flexible shaft length minimum 2000 mm • Vibrations / minute minimum 12000 	-	02	Any Brand/Origin

SPECIFICATIONS TO RETENDER – NBC QUETTA

PUBLIC HEALTH LAB

S. No	Item Name with Technical Specification	Standard Accessories	Qty	Country of Origin
1.	<u>Jar Test Apparatus</u> <ul style="list-style-type: none"> • 6 Paddles • Digital RPM Setting 0-300rpm with Sensor • Speed increment 1rpm • Digital Time Controller 0-99 hours • Time increment 1min 	12 Beakers of 1 liter capacity		Western Europe / North America / Japan
2.	<u>Air Sampler</u> <ul style="list-style-type: none"> • Particle Size: PM10, PM2.5, TSP • Flow Range: 0-20 LPM • Microbalance Readability 1µg • Microbalance limit 10g 	Micro-Filters		-do-
3.	<u>Digital Binocular Brightfield Microscope</u> <ul style="list-style-type: none"> • Revolving Nosepiece with Lens 4X, 10X, 40X, 100X • Fine and Coarse Adjustment • Lamp with Brightness Control • Adjustable Eyepiece • 3.1 MP camera with tablet for projection 	Slides with Cover slips Camera with Tablet	01	North America/ Western Europe/ Japan/Turkey
4.	<u>Muffle Furnace</u> Temp = 1200 C Capacity= Min 50L	N/A	01	Any Brand/ Origin
5.	<u>Spectrophotometer</u> Double Beam Wavelength Range= 190-1100nm Measurement Modes: Absorbance, Transmission, WL Scan, Concentration PC with Software	2 Sets of Quartz Cuvette 4 Sets of Glass Cuvette PC with Software	01	North America/ Western Europe/ Japan/Turkey
6.	<u>DO Meter</u> Benchtop DO Range= 0-20mg/L	DO Probe with Electrolyte and Additional membrane caps	01	Any Brand/ Origin

SPECIFICATIONS TO RETENDER – NBC QUETTA
SURVEY LAB

Ser	Tender Items / Specifications	Specifications	Qty	Country of Origin
1	Measuring Tape (100 m) 300-Feet by 1/2-Inch open reel fiberglass tape Double coated blade Shock absorbing rubber bumpers Versatile end hook Country of Origin: Any Brand/ Origin	300-Feet by 1/2-Inch open reel fiberglass tape Double coated blade Shock absorbing rubber bumpers Versatile end hook	04	Any Brand/ Origin
2	Binocular Technical Specifications: As per Tender Documents. Country of Origin: Japan/Western Europe	Magnification: 7X or more Accessories: Carrying Case	04	Any Brand/ Origin
3	Levelling Staff Telescopic With meter as well as feet graduations 5 meter (16.3 feet) or more Precision upto 2 decimal places minimum With levelling bubble device Country of Origin: Any Brand/ Origin	With meter as well as feet graduations Accessories: With levelling bubble device	04	Any Brand/ Origin
4	Auto CAD Civil 3D (50 seat license) Latest educational version 5 years License Standard Accessories with Each Equipment: With source software and key Country of Origin: Any Brand/ Origin	Latest educational version 5 years License Standard Accessories with Each Equipment: With source software and key	01	Any Brand/ Origin
5	Beacon Large Complete with Accessories: Technical Specifications: As per Tender Documents.	Maximum height with flag of all assembly = 14' 2 or 3 legged beacon (aluminium) Accessories: 1 x Skirt 8 x Beacon Flag 1 x Carrying Bags for accessories 2 x Heavy Ropes 1 x Light Rope Roll 1 x Heavy Plumb Bob for Beacon	04	Any Brand/ Origin

		2 x Steel Pickets 2 x Rods for Skirts 1 x Hammer With Handle 1 x Sickle		
6	Tracing Table Technical Specifications: As per Tender Documents.	Made of deodar wood with transparent Glass Panel at the top of dimensions 3' x 3' (excluding frame). Fitted with 4 tubelights Height of Glass Panel from floor : 3'7" and 3'11" on opposite edges Accessories: 4 x Tube lights fitted	01	Any Brand/ Origin
7	Laptop Computer Processor Intel Core i7 10TH Generation HD = 2 TB SSD = 128 GB Ram = 16 GB Graphic Card = 4 GB Graphic Card Display = 18 inch Multinational Brands Standard Accessories With Each Equipment: 1 x Charger 1 x Bag 1 x Mouse Country of Origin: Any Brand/Origin	Processor Intel Core i7 7TH Generation HD = 2 TB Ram = 16 GB Graphic Card = 4 GB Nivida Graphic Card Display = 18 inch Accessories: 1 x Charger 1 x Bag 1 x Mouse	02	Any Brand/ Origin
8	Large Umbrella Technical Specifications: As per Tender Documents.	2.5m Diameter, 3m height (adjustable), steel stretchers and ribs with thick/ robust parachute cloth canopy Accessories: 1 x Steel Pickets 3 ft	04	Any Brand/ Origin
9	Safety Helmets Fine plastic (white- 10, yellow- 50) Country of Origin: Any Brand/ Origin	Robust	60	Any Brand/ Origin
10	Small Umbrella Technical Specifications: As per Tender Documents.	Approx 95cm Diameter, 62cm height, steel stretchers and ribs with fine cloth canopy	05	Any Brand/ Origin

11	Traffic Safety Vests Technical Specifications: As per Tender Documents.	Fluorescent green safety vest with retroreflective strips, standard size	10	Any Brand/ Origin
12	Ranging Rod (8 ft) Technical Specifications: As per Tender Documents.	Made of good quality pipe 16 guage thick with 1.25 inch diameter	40	Any Brand/ Origin
13	Flags (1.5 x 2 ft) Technical Specifications: As per Tender Documents.	Shining colours, thick/robust and waterproof fabric	40	Any Brand/ Origin
14	First Aid Box Technical Specifications: As per Tender Documents.	Fine plastic material of standard size	05	Any Brand/ Origin
15	Scientific Calculator Technical Specifications: As per Tender Documents.	Pocket Size	02	Any Brand/ Origin
16	Globe of World Technical Specifications: As per Tender Documents.	1.5 ft diameter approx.	01	Any Brand/ Origin
17	Theodolite Telescope Magnification: 30 x Accuracy: 5 Second Display: Double Sided Vertical angle compensation insures leveling accuracy 40" plate level vial Removable tribrach	Measures horizontal and vertical angles 5-second accuracy Double Display	03	Any Brand/ Origin
18	360 Degree Prism Prism: offset -7mm Designed: for most total station and robotic instruments Fits with standard range pole	Accessories: 1 x Tribrach 1 x Aluminium Tripods 1 x Steel Needle for angle measurement (to be attached at the top of each prism)	06	Any Brand/ Origin

SPECIFICATIONS TO RETNDER – NBC QUETTA
HYDRAULIC LAB

S.N	Item Name with Technical Specification	Standard Accessories With Each Equipment	Qty	Country of Origin
1	<p>Apparatus Name: FLOW VISUALIZATION APPARATUS / LAMINAR FLOW TABLE (Complete set) WORKING SECTION: Width inside moulding: 600 mm – 610 mm Length of glass plates: 890 mm – 900 mm Actual viewing area: Min. 495 mm x 755 mm Distance between glass plates: 3.0 mm – 3.5 mm Sinks/sources: Min. eight tapings in seven positions Dye injectors: 12 - 19 hypodermic needles Testing: Visualization of Flow lines/Stream Lines against obstacles Influence of sources and sinks</p>	<p>MODELS: 2 x canal banks 2 x rectangles 3 x cylinders 1 x aerofoil Blue Dye Powder</p>	01	Western Europe / North America / Japan
2	<p>Apparatus Name : FLOW CHANNEL AND FLUME (with accessories) Overall Dimensions: Length 5 to 6 m Width 0.5 to 0.7 m Height 1.3 to 1.5 m Channel Dimensions: Width not less than 75mm & height not less than 25 mm Channel slope: Adjustable between -1% and +3% Testing: Study the behavior of flow in open channel using different instruments for discharge measurement in open channel using devices: Broad crested weirs (round corner and sharp edges), Sluice Gate, WSC Flume, Partial Flume, Venturi Flume, Determination of Roughness coefficient using corrugated and gravel bed</p>	<p>Models and gauges to be supplied should be compatible with the apparatus: • Venturi Flume • Sharp and Broad Crested Weirs • Crump Weir • Adjustable Undershot Weir • Two Vernier level gauges (Hook and point gauges) Along with following Compatible Models: Pitot tube and manometer Culvert fitting, one edge square, one rounded Flow splitters; central wall with various nose pieces Free overflow spillway section complete with ski jump, sloping apron and blended reverse curvature attachments Syphon spillway and air regulated syphon Model radial gate, Wave generator and wave absorbing beach False floor sections for gradually varied profiles Artificially roughened bed at least half the length of the channel.</p>	01	Western Europe / North America / Japan

3	<p>Apparatus Name : PIPES SURGE AND HAMMER APPARATUS (along with software) Overall dimensions: Height: 1.5 to 2.5 m Length: 4 to 5 m Depth: 1 to 1.5 m Test pipes: Stainless steel, approximately 20 mm inside diameter, Surge shaft Clear acrylic, inside diameter approximately 40 mm and at least 800 mm high. Head tank: PVC, capacity 40 -50 litres Testing: Demonstration of graphical representation of water hammering phenomenon using oscilloscope</p>	1 x Oscilloscope	01	Western Europe / North America / Japan
4	<p>Apparatus Name : TURBINE SERVICE UNIT FOR AXIAL AND RADIAL FLOW IMPULSE AND REACTION TURBINES (along with Interface Device for Axial and Radial Flow Impulse and Reaction Turbine) Standard centrifugal pump – head: 25 to 35 m – flow rate: 20- 30 l/min – power output: approximately 260W – speed range: 2500 – 3000 rpm Storage tank: 25 - 30 Litres Measuring ranges – Pressure: 0-400kpa – flow rate: 0-60l/min – torque: 0-3 Nm – speed: 0-120,000rpm Testing: • Determining the characteristics of the selected turbine, including the relationships of volume flow rate, head, torque produced, power output and efficiency to rotational speed • Comparison of nozzle and throttling control of an Impulse Turbine • Comparison of throttle control and spear valve control of the speed of a Pelton Turbine • Determination of characteristic performance curves for a peripheral pump, including constant speed head/flow and efficiency curves Standards: Conforming to EN, ASTM & BS standard norms including BS -</p>	Software -	01	Western Europe/ North America / Japan

	(Please include relevant standards if any)			
5	<p>Apparatus Name : DRAINAGE AND SEEPAGE TANK with BASIC ACCESSORIES</p> <p>OVERALL DIMENSIONS Length: Not less than 1.60m Width Not less than 0.60m Height: Not less than 1.45m</p> <p>Testing: Seepage underneath a sheet pile wall Seepage through an earth dam Control of seepage through permeable soils by subsoil drainage Distribution of uplift pressure on hydraulic structures Reducing uplift pressure and lateral thrust by drainage Formation and behaviour of 'quicksand' Stability of an earth dam Draining an excavation site using wells</p> <p>Standards: N/A</p>	<p>Foundation pressure plate Straight permeable membrane Curved permeable membrane Lateral pressure plate Tile drain</p>	01	Western Europe/ North America / Japan
6	<p>Apparatus Name : PLUNGER PUMP DEMONSTRATION UNIT (along with software)</p> <p>Technical Details: Flow rate not less than 0.725 l/m Head not less than 4 bar Swept volume: 15mm stroke x 32mm diameter Pumping speed: 0 to 60 strokes/min Motor power rating: 240 to 260 W Pressure Sensor: 0 to 100psi Piston Sensor: -9 to 16mm Motor Torque range: 0 to 2.5Nm Overall Dimensions Height: Not less than 0.41m Width: Not less than 0.88m Depth: Not less than 0.51m</p> <p>Testing: Measurement during each pump cycle of: - Plunger displacement - Cylinder pressure - Pump outlet pressure On-line p-V diagram displays Measurement of volumetric efficiency Measuring the effect on pump performance of: - Sprung loading valve or needle valve</p>	Software	01	Western Europe/ North America / Japan

	- Adjusting the outlet loading valve - The inclusion of a pulsation damper vessel			
7	Apparatus Name : DIGITAL VISCOMETER (with all accessories) Main technical data Measurement range: 1~2x10 ⁶ mPa.s Rotor velocity: 0.3、 0.6、 1.5、 3、 6、 12、 30、 60 rpm; automatic Measurement error: ±5% (Newton liquid) Power supply: 220V±10% 50z±10% Ambient temperature: 5°C~ 35°C ; Relative humidity: ≤80% Testing: To determine the viscosity of different fluids	Rotor types: 0#, 1#, 2#, 3# and 4# rotors; (Can determine viscosity as low as 0.1mPa.s with 0# rotor.)	01	Any Brand/ Origin
8	Apparatus Name : DOUBLE RING INFILTROMETER 1 x 12" stainless steel ring 1 x 24" stainless steel ring 1 x 3,000cc mariotte tube with base 1 x 10,000cc mariotte tube with base 4 x brass fittings with 1/4 NPTF and 3/8" ID tube connection. Brass barb tee for water source connection. Testing: To determine the rate of infiltration Standards: ASTM D3385-03	1 x 30 ft. x 3/8" tubing 1 x aluminum cover/drive plate 2 x splash pads (6" square neoprene material) 1 x Club Hammer	01	Any Brand/ Origin
9	Apparatus Name : CLASS A EVAPORATION PAN Low carbon 18-gauge, stainless steel Volume: Not less than 290 L Outside Diameter: 110 to 130 cm Inside Diameter: 20 to 30 cm Wall thickness: 0.10 to 0.14 cm Testing: To determine the evaporation rate	1 x Fix Point Gauge 1 x Timber Pallet 1 x Wire mesh Screen	01	Any Brand/ Origin
10	Apparatus Name : BASIC HYDRAULIC BENCH Technical Details: Pump: submersible Water head not less than 1.30 litres/sec Min. Sump tank capacity: 250 litres High flow volumetric tank not less than 40 litres Low flow volumetric tank not less than 6 litres Height of working surface: 1 to 1.5 Metre above floor level Overall dimensions Length: 1 to 1.25 m Width: 0.5 to 0.75 m Height: 1 to 1.5 m		2	Western Europe/ North America / Japan
11	Apparatus Name : FLOW CHANNEL (To be fully compatible with Hydraulic bench at Sr. 10 above)	Broad and sharp-crested weirs	01	Western Europe/

	<p>Diameter of test pipe: Not less than 3.0 mm Length of test pipe: Not less than 760 mm Distance between pressure tapping points: Not less than 500mm Range of mercury manometer: Not less than 500mm Range of water manometer: Not less than 500 mm Measuring cylinder capacity: Not less than 1000 ml Overall Dimensions Length: 0.8 m - 0.9 m Width: 0.3 m - 0.35 m Height: 0.45 m - 0.55 m Testing: Demonstrating basic phenomena associated with open channel flow Visualization of flow patterns over or around an immersed object</p>	<p>Large and small-diameter cylinders Symmetrical and asymmetrical aerofoils.</p>		<p>North America / Japan</p>
12	<p>Apparatus Name : FREE & FORCED VORTICES (To be fully compatible with Hydraulic bench at Sr. 10 above) Tank diameter: Not less than 245mm Height to overflow point: Not less than 180 mm Orifice diameters: Not less than 8, 16 and 24 mm Forced vortex measuring probes: Distance from centre: 0, 30, 50, 70, 90 and 110 mm Pitot tubes having measuring point (nose) at: 15, 25 and 30 mm radius Inlet tubes: Not less than 9 and 12.5mm diameter Overall Dimensions: Length: 0.55 m - 0.65 m Width: Not less than 0.50m Height: Not less than 0.46m Testing: To produce and measure the characteristics of free and forced vortices using a hydraulics bench</p>		01	<p>Western Europe/ North America / Japan</p>
13	<p>Apparatus Name : HYDRAULIC RAM (To be fully compatible with Hydraulic bench at Sr. 10 above) Supply head: 300 mm – 700 mm variable Delivery head: 750 mm – 1500 mm variable Overall Dimensions: Length: 0.7 m - 0.8m Width: 0.3 m - 0.35 m Height: 1.5 m - 1.7 m Testing: To demonstrate the operating principles of the hydraulic ram Establishing flow/pressure characteristics and determining efficiency of the hydraulic ram</p>		01	<p>Western Europe/ North America / Japan</p>

14	<p>Apparatus Name : CENTRIFUGAL PUMP CHARACTERISTICS (To be fully compatible with Hydraulic bench at Sr. 10 above)</p> <p>Pump: centrifugal type max. water head 21.0 m max. flow rate 1.35 litres/sec Motor: 0.36kW Speed controller: Frequency inverter Speed range: 0 to 1500 rpm Pressure gauge: 0 to 60 m Compound gauge: -10 to 32 m Overall Dimensions: Length:0.3 m – 0.4 m Width: 0.1 m – 0.2 m Height: 0.3 m – 0.4 m</p> <p>Testing: Determining the relationship between head, discharge, speed, power and efficiency for a centrifugal pump at various speeds. Determining the head/flow rate characteristics of two similar pumps operating in either parallel or series configuration at the same speed</p>		01	Western Europe/ North America / Japan
15	<p>Apparatus Name: COMPUTER AIDED LEARNING SOFTWARE FOR HYDRAULIC BENCH (To be fully compatible with Hydraulic bench at Sr. 10 above)</p>		01	Western Europe/ North America / Japan
16	<p>Apparatus Name: WATER FILTER SET (to supply clean water for equipment)</p> <p>3 – Stage Filtration System (with Ultraviolet) Flow Rate: At least 5 lpm</p>		01	Any Brand/ Origin
17	<p>Apparatus Name: WATER CURRENT METER (CUP TYPE) / FLOW METER (Complete set)</p> <p>Cups: At least six Operating Range: 0.05 – 8 m/s Testing: Velocity & Discharge measurement Standards: N/A</p>	<p>1 x Current Meter Digitizer 1 x Wading Rod (at least 3 m) 1 x Sounding Reel (to hold at least 23 meters of 0.25 cm diameter sounding cable) 1 x Bridgeboard (with at least 4 ft. boom) Sounding weights: 1 x 15 lbs 1 x 30 lbs 1 x 50 lbs</p>	02	Western Europe/ North America / Japan
18	<p>Apparatus Name: Open Channel Flowmeter (complete with all accessories)</p>		01	Western Europe/ North America / Japan

SPECIFICATIONS TO RETNDER – NBC QUETTA
WORKSHOP PRACTICE

S. No	Item Name with Technical Specification	Standard Accessories/Specs	Qty	Country of Origin
1	Surface Grinder	Surface Grinder/ Grinding Machine M618	2	Any
2	Double Pan Balance	Capacity: 20 Kg Accuracy: 0.1g	2	Any
3	Bricks	-	1000	Any
4	Cement Bag	-	50	Any
5	Sheet Metal Work	Different sized and gauge sheets of 3x4ft, 3x5ft etc.	1	Any
6	KEAL log Woods	2x3.5x120 inches	10	Any
7	Yellow Pine Wood Logs	2x3.5x120 inches	10	Any
8	Imported Peral	1x2.5x120 inches	10	Any
9	Saw Blades	1.5ft long	30	Any
10	Fastener Kit	JACKSON PALMER 1,700 Piece Hardware Assortment Kit with Screws, Nuts, Bolts & Washers (e Trays)	10	Any
11	Door Handles and Locks	8inch door handle, lever lock	10	Any

SPECIFICATIONS TO RETNDER – NBC QUETTA
COMPUTER LAB

S/No	Item Name with Technical Specification	Standard Accessories	Qty	Country of Origin
1	Sever Computer	Dual CPU 20Cores each, Gold Series Intel compatible Chipset Memory: 128 GB Hard Disks: 6 x 1.2TB 12G SAS 10K 2.5in Connectivity: Dual Port 10GbE Base-T Card along with Patch cords (5 meter) RAID Controller to support RAID 0,1,5, 10 Fan Kit, Rack Mount Kit, Security, Cable Management arm, and other required Cables Redundant AC Power Supply Windows & LINUX Compatibility 3 years comprehensive Warranty Relevant cables/ railings to completely implement the solution with all aspects.	2	Any Brand/ Origin
2	Rack mounted 17" LCD		1	Any Brand/ Origin
3	KVM switch with cables	Mount Rack KVM Console with all cables	1	Any Brand/ Origin

Format of Technical Quotation

Date:

To,
The President of Local Purchase Committee
SCEE, NUST H-12 Islamabad

Subject: _____

S.No	Item name	Technical Specifications	Standard Accessories	A/U	Qty	Origin
1						
2						
3						
4						
5						

Generation Instructions

All Machines/Tools/Equipment's warranty will be at least for 01 year including spares.
Equipment with similar or better specs will be considered.
All operational machines/equipment supported with functional training program.
All operational machine/equipment supported with installation & functional tests with demonstration of complete operations.
All operational machines/equipment supported with standard attachments & accessories.
OEM Certificate
Technical literature / brochures
Company profile
Technical networks details
Distributor certificate

Documents Included (As applicable)

User /operational; Manual
Technical Manual
Diagrams/Maintenance Manuals etc.

Spare Parts Supply

The supply of spare parts for at least 10 years of operation will be ensured to be available as per requirement on separate agreement

Format of Financial Quotation

Date:

To,
The President of Local Purchase Committee
SCEE, NUST H-12 Islamabad

Subject: _____

S.No	Description	Country of Origin	A/U	Qty	Unit Price	GST (Where applicable)	Total Price
1							
2							
3							
4							
5							

Terms and conditions:

Price validity: Prices are valid for 90 days and extendable up to 120 days.

Prices are inclusive of all taxes (as applicable).

Mode of payment: as per Tender Documents

Warranty: 12 Months after sales service including spares.

Attachment:

GST & NTN Certificates

Firm profile

Bank statement

Ernest Money (if applicable)

Proper letter head (with stamp, sig, telephone & Fax #)

PROPOSAL SUBMISSION UNDERTAKING

President Local Purchase Committee
SCEE, NUST Campus H-12, Islamabad

2. Dear Sir

3. 1. We, the undersigned, offer to provide our services for "Supply of Lab Equipment to SCEE-NUST for NBC Quetta Ph-II - Retender " in accordance with your Tender Document Number:_____ dated:_____We are hereby submitting our proposal, which includes technical as well as financial proposal as per instructions.

4. We hereby acknowledge and agree to all terms, conditions, special provisions, and instructions included in the above-referenced tender document. We further certify that the under mentioned firm as well as its Principal (OEM) are eligible to participate in this procurement under the terms of this solicitation and under PPRA regulations.

5. We understand and agree that the decision of the procurement / evaluating committee shall be final and cannot be challenged on any ground at any forum and the procurement / evaluating committee will not be liable for any loss or damage to any party acting in reliance thereon.

6. Furthermore, we hereby certify that, to the best of our knowledge and belief: -

a. We have no close, financial or familial relationships with any NUST / (SCEE) staff members.

b. We have no close, financial or familial relationships with any other bidder submitting proposals in response to the above-referred Tender Document.

c. The prices in our offer have been arrived independently, without any consultation, communication, or agreement with any other bidder or competitor for the purpose of restricting competition.

d. All information in our proposal and all supporting documentation are authentic and accurate.

e. We understand and agree to NUST / (SCEE)' prohibitions against fraud, bribery, and kickbacks.

7. We hereby certify that the enclosed representations, certifications, and all other submitted documents / statements are accurate, current, and complete.

Authorized Signature
M/S (Firm's Name)
Dated

SOURCE AND NATIONALITY COMPLIANCE FORM

1. I, (Name); (CNIC No), (Designation), (Company Name), confirm / do not confirm that the quoted items are not manufactured, grown, produced, shipped from, or otherwise originate from any of the following countries; Burma (Myanmar), Cuba, Iran, North Korea, (North) Sudan, or Syria.
2. Source. "Available for Sale" in the Cooperating Country.
3. In case, the supplier is an authorized sales representative / dealer of the manufacturer in the cooperating country, a brief introduction and copies of dealership certifications are to be presented.
4. In case, the quoted items are included in supplier's standard catalog, the catalog is to be presented..
5. The supplier is to certify that the quoted items are routinely traded or offered for sale in the cooperating country. (YES/NO). Tick whichever is applicable.
 - a. Supplier has an installation base in the cooperating country. (YES / NO)
 - b. If yes provide some details of after sale support points with complete addresses.
 - c. Offered equipment is serviceable by the supplier and has a valid warranty in the cooperating country(YES / NO)
 - d. IF yes, please provide details of capability how equipment is serviceable in cooperating country
 - e. Complete details of type of warranty offered in cooperating country (or attach standard warranty terms and conditions offered).
 - f. Supplier will be responsible of ensuring that after sale service support / spare parts are available will try all efforts to make it available. (Bidder / Supplier agrees with is statement) — Yes / NO
 - g. For items purchased outside of the cooperating country:
 - h. If the items are not "available for purchase" in the cooperating country, identify the "source" of the equipment and describe compliance with the authorized geographic code 937.

The items will be imported from source is

[Describe the "source" countries and compliance with the authorized geo code.]

6. Nationality:

Per 22 CFR 228.11, organizations must meet both (a) and (b) below, as well as either (c) or (d):

- a. The supplier is incorporated or legally organized under the laws of a country in the authorized geographic code:
[Describe the supplier's registration status; attach a copy of their business license or official registration to support registration status.]
- b. The supplier is operating as an "ongoing concern" in a country in the authorized geographic code:
- c. The supplier is managed by a governing body, the majority of whom are citizens (or lawful permanent residents) of countries in the authorized geographic code:
[Provide details and/or attach a certification from the supplier documenting that they comply with this.]
- d. The supplier employs citizens (or lawful permanent residents) of countries in the authorized geographic code, in more than 50% of its permanent fulltime positions and more than 50% of its principal management positions:
[Provide details, such as organizational chart with information, and/or attach a certification from the supplier documenting that they comply with this.]

OVERALL COMPLIANCE UNDERTAKING

I, (Name); (CNIC No), (Designation), (Company Name) have gone through the Terms / Conditions of this tender document and have found the document in whole as non-biased to any particular vendor or product / brand. All quoted items. I hereby undertake and firmly bound myself to abide by / comply with all sections of this tender document except for items mentioned below:

-
- a.
- b.
- c.
- d.
- etc.

Authorized Signature
M/S (Firm's Name)
Dated

PROJECTS INFORMATION: COMPLETED & ONGOING (LAST 2 YEARS)

s #	PURCHASE ORDER OR CONTRACT DETAILS	CLIENT DETAILS	CONTRACT			REMARKS
			Award Year	Amount	Duration	
1						Add all projects pertaining to your Firm
2						
3						
4						
5						

Authorized Signature
M/S (Firm's Name)
Dated

Note: -
Firms/suppliers registered with NUST, SCEE are not required to submit the details on this annex.

EVALUATION CRITERIA TECHNICAL & FINANCIAL

Part A) Mandatory Requirement				
1.	Firm is registered in Income tax and sales tax department and must provide Sales Tax and Income Tax Registration certificate.			
2.	The bidders must have office in Pakistan			
3.	Financial strength to be verified through Audited Financial Statements of FY 2019-20 or bank statement for last one year			
4.	The firm should not have been blacklisted by any government / Semi Government organization.			
5.	Authorized Dealer Certificate for CPT Quotes: The bidder must submit authorization letter as evidence of their business relationship with the OEM i.e. partner, sole distributor, <u>authorized distributor i.e., specifically authorized by OEM to supply quoted equipment to NUST</u> . This letter is to be obtained from the original equipment manufacturer (OEM) and should be valid for delivery of the quoted equipment.			
Part B) General Evaluation				
Sr	Attributes	Max. Score	Detail	Criteria
1.	Firm has its Office in Pakistan preferably in Islamabad/Rawalpindi/Lahore/Karachi/Peshawar/Quetta	5		
2.	Details of Repair and Maintenance Facilities	10	10	Give Details / locations
3.	After Sale Service / Spare Parts Availability	10	10	Firm will supply Spare Parts within 15 days.
			7	Firm will supply Spare Parts within 1 month.
			5	Firm will supply Spare Parts within 3 months.
4.	Delivery Duration	10	10	FOR: Delivery within 6 weeks CPT: Delivery within 8 Weeks
			5	FOR: Delivery within 8 weeks CPT: Delivery within 12 Weeks
5.	Financial Strength verified through a Bank Certificate	5	5	Firm with more than Rs.8 Million annual Turnover for last one (01) year.
			3	Firm with more than Rs. 5 Million annual Turnover for last one (01) year.
			2	Firm with more than Rs. 3 Million annual Turnover for last one (01) year.

6.	Similar Projects Completed	10	10	Firm has completed more than or equal to ten (10) similar projects. (Documentary proof and references are required)
			7	Firm has completed seven (7) similar projects.
			5	Firm has completed five (05) similar projects.
7.	Brand/ Manufacturer country of origin	15		Brand: North America / Western Europe = 15 Japan = 12 China/ Turkey = 8 Any other = 5
8.	Specification Compliance	80		To be assigned by the Technical Evaluation Committee
9.	Technical Bid Completeness (documentary proof, brochures, diagrams etc)	5		To be assigned by Technical Evaluation Committee
Grand Total		150		

Note:

1. Financial proposals of the bidders who would secure minimum 80% marks from technical weightage would be opened.
2. Award of contract: The technically qualified bidder with lowest price will be awarded contract.

(INTEGRITY PACT)

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH RS. 10.00 MILLION OR MORE

Contract No. _____ Dated _____ Contract Value: _____
Contract Title: _____

..... [name of Supplier] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan (GoP) or any administrative subdivision or agency thereof or any other entity owned or controlled by GoP through any corrupt business practice.

Without limiting the generality of the foregoing, [name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant hereto.

[name of Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[name of Supplier] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [name of Supplier] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.

Name of Buyer: Name of Seller/Supplier:

Signature: Signature:

[Seal]

[Seal]