



NATIONAL UNIVERSITY OF TECHNOLOGY, ISLAMABAD

Ref: 106/SCM/NUTECH

Dated: 19 February 2026

M/S _____

Address:

Cell:

Subject: REQUEST FOR QUOTATION:- "Calibration of Lab Equipment of Civil Engineering Department"

Dear Sir,

Sealed bids/quotations are invited for the supply of the following items.

| Ser | Items and Specifications | A/U | Country of Origin | Qty | Rate (Rs.) | Amount (Rs.) |
|-----|---|-----|-------------------|-----|------------|--------------|
| 1. | BITUMEN DUCTILITY APPARATUS, <ul style="list-style-type: none">• (Model No,UTB-1430) Fully automatic test.• Automatic identification of the needle contact point and needle positioning, avoiding any possible operator lack of concentration and ensuring a reliable repeatability of the results.• Electro-magnetic needle probe release to perform the test.• Automatic zero at the contact before starting penetration.• Penetration measurement thanks to a high-tech contactless displacement transducer with 0.01 mm resolution, in a range of 0 - 50 mm.• 7" touch screen display equipped with a user-friendly software and clear interface.• Real time display of penetration/time curve, average result and test temperature. | Nos | ITALY | 1 | | |
| 2. | BITUMEN PENETROMETER, <ul style="list-style-type: none">• Fully automatic test.(Model No 81-PV0103),(Model No Utv-0126),(Model No B059M)• Automatic identification of the needle contact point and needle positioning, avoiding any possible operator lack of concentration and ensuring a reliable repeatability of the results.• Electro-magnetic needle probe release to perform the test.• Automatic zero at the contact before starting penetration.• Penetration measurement thanks to a high-tech contactless displacement transducer with 0.01 mm resolution, in a range of 0 - 50 mm.• 7" touch screen display equipped with a user-friendly software and clear interface.• Real time display of penetration/time curve, average result and test temperature. | NO | ITALY | 3 | | |
| 3. | MARSHAL MACHINE, <ul style="list-style-type: none">• S371-10S/BZ/0001 (Model No B042-KIT)• Power supply: 230 V 1 ph 50 Hz 900 W• Dimensions: 650x400x1100 mm.• Weight: 120 kg | Nos | ITALY | 1 | | |
| 4. | CBR MACHINE, Model NO (34-T0106- A) Maximum load: 50 kN, Max ram travel: 120 mm, Horizontal span: 270 mm, Load ring cap.: 50 kN Dial gauge: 30 mm travel x 0.01 div. Dimensions (dxwxh): 410x300x1140 mm, Weight approx.: 75 kg | Nos | ITALY | 1 | | |

| Ser | Items and Specifications | A/U | Country of Origin | Qty | Rate (Rs.) | Amount (Rs.) |
|-----|---|-----|-------------------|-----|------------|--------------|
| 5. | Calibration of Universal Testing Machine, <ul style="list-style-type: none"> • Made in Italy • Model T20H02 • Maximum load capacity 2000KN • Used for the tensile and compressive test of steel and concrete samples. | Nos | ITALY | 1 | | |
| 6. | Digital Compression Machine, <ul style="list-style-type: none"> • Made in Italy • Model 50-C79Z00 • Compression machine 5000 kN capacity • Used for compressive strength of concrete, wooden blocks and bricks, etc. | Nos | ITALY | 1 | | |
| 7. | Compression Machine, <ul style="list-style-type: none"> • Made in Italy • Model C92W22 • Compression machine 600 kN capacity • Used for compressive strength of concrete, wooden blocks and bricks, etc. | Nos | ITALY | 1 | | |
| 8. | Calibration of Flexural Machine, <ul style="list-style-type: none"> • Made in Italy • Model 50-2019PFB00183 • Compression machine 350 kN capacity • Used for flexural strength test of beam samples. | Nos | ITALY | 1 | | |
| 9. | Calibration of LE CHATELIER MOULD, <ul style="list-style-type: none"> • Model CE300, CE301, CE302, CE305, CE310, CE095 • Glass Plate 50x50x4mm • Weight 100g extensibility of mould. | Nos | ITALY | 2 | | |
| 10. | Calibration of Air Entrainment Meter, <ul style="list-style-type: none"> • Model B-320/B • B-Type Air meter • Capacity 7 Lt • Air Content Range: 0%-100% • Max Aggregate size: 50mm • Pump is built-in supply with straight with syring. • Plastic carrying case | Nos | ITALY | 3 | | |
| 11. | Calibration of Accelerated Temperature Controlled Concrete Curing Tank, <ul style="list-style-type: none"> • Model HR-C0495 • Specimen temperature controlled curing tank (preferably steam controlled) • Standards ASTM C684, BS 1881:12 • Fully insulated double wall tank with cover • Outer wall made of Stainless steel • Intermediate layer of insulating mineral wool • Inner wall made of Stainless-steel perforated platform for circulation of water • Supports to hold the concrete specimens • Circulation pump to provide the hot water at any point within the tank. • Heating system with temperature range; from ambient to 100 °C Sample holding capacities (Minimum) <ul style="list-style-type: none"> • 16 pieces 150 mm cube moulds or 16 pieces 150 mm cylinder moulds or 8 pieces 200 mm cube moulds • Thermoregulator with timer for temperature control • The Digital Control Panel for display of temperature | Nos | Turkey | 1 | | |

| Ser | Items and Specifications | A/U | Country of Origin | Qty | Rate (Rs.) | Amount (Rs.) |
|-----|--|-----|-------------------|-----|------------|--------------|
| 12. | Calibration of Blaine Apparatus, <ul style="list-style-type: none"> • Model E010-10 • Made in Italy | Nos | ITALY | 6 | | |
| 13. | Calibration of Ultrasonic Pulse Velocity tester, <ul style="list-style-type: none"> • Measuring range 0-3000 us accuracy +/- 0.1 us • 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 for 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 | Nos | ITALY | 2 | | |
| 14. | Incubator, Temperature Range: + 2 °C to + 40 °C, steps of 0,1 °C Climate Class SN+ 10 °C to + 32 °C Temperature Tolerance For BOD (T = 20 °C ±1 °C according to EN 1899) Consumption approx. 1,41 kWh/ 24h | Nos | Germany | 4 | | |
| 15. | Oven, Temperature Range: 50-250 °C Voltage: 220+22V | Nos | USA | 1 | | |
| 16. | Muffle Furnace, Maximum Temperature: 1200 °C | Nos | USA | 1 | | |
| 17. | Conductivity Meter, Measuring range: Conductivity: 0.00µS/cm~ 100mS/cm Accuracy: Conductivity: ±0.5%FS Temperature compensation range: Manual/Automatic (0.0~40.0)°C | Nos | China | 4 | | |
| 18. | Thermoreactor (COD), Thermoreactor RD 125 (Lovibond): Three Temperature Ranges: The reactor can operate optionally with 100°C, 120°C or 150°C – depending in each case on the sample to be prepared. Three Different Reaction Times: Three different reaction times are available with 30, 60 and 120 minutes. Your advantage: Afterwards the unit switched itself off automatically. Large Cuvette Shaft: Place up to 24 16-mm-round cuvettes in the RD 125. Voltage Change Possible: The RD 125 can be used with various voltages: Choose 110 V and 220 V with the voltage selector on the back. | Nos | Germany | 4 | | |

| Ser | Items and Specifications | A/U | Country of Origin | Qty | Rate (Rs.) | Amount (Rs.) |
|-----|---|-----|-------------------|-----|------------|--------------|
| 19. | BOD Sensor Head (Measuring Unit), BD 600 (Lovibond BOD measurement System) Measuring Principle: Manometric; mercury-free; electronic pressure sensor Measuring Range : 0-40, 0-80, 0-200, 0-400, 0-800, 0-2000, 0-4000 mg/l Measurement Time : User-selectable, between 1 and 28 days | Nos | Germany | 4 | | |
| 20. | Flocculation Tester/ Jar Tester, ELECTRONIC SPEED CONTROL: from 10 to 300 rpm MICROPROCESSOR CONTROLLED TIMER: 0-999 min or 0 +99 hours (or continuous) SPEED SETTING INTERVAL: 1 rpm | Nos | Italy | 2 | | |
| 21. | Unconfined Compression Testing Machine, Compliance: Confirming to ASTM D2166 standard.Load Frame: Universal multispeed load frame, 50-100 kN with digital touch-screen controlled by microprocessor.Test Suitability: Suitable to perform all tests where the requested speed rate is within 0.05 to 63 mm/min with maximum load of 50-100 kN.Control Interface: Speed rate is infinitely variable; features a graphic display 1/4 VGA color touch-screen.Safety Features: Foreseen of electric end of stroke switch of the load plate to save the machine from wrong manipulations.Adjustability: Upper beam can be adjusted in height.Power Supply: 230V, 1 ph, 50-60Hz.Included Components & AccessoriesCompression Plates: Upper + lower compression plates, diameter 100 mm + distance piece with rod.Measurement Tools: Dial gauge holder and Dial gauge 10 x 0.01 mm.Load Ring: Load ring 2-4 kN with electric stop safety device. | N/A | Italy | 1 | | |
| 22. | Direct Shear Testing Machine (Matest)/ Direct Shear Testing Machine (UTEST), Direct Shear Testing Machine (Matest) Maximum shear load: 5000 N possible on the whole speed range. Shear speed: 0.00001 to 15.0000 mm/min. Display of both speed and displacement with 0.00001 mm resolution. Possibility of direct vertical load, or with a lever arm ratio of 10:1 Max vertical direct load: 500N; lever arm: 5500N Box group mounted on ball track with high-quality antifriction system. Extremely easy and practical to use, not requiring qualified staff. Automatic calculation of the appropriate shear velocity based on optimal consolidation parameters. Shear speed: 0.00001 to 15.0000 mm/min Different return speed facility for residual shear test. Integral closed loop control motor. User-friendly microprocessor-controlled touch screen. The machine acquires all the necessary parameters for the shear test.Power supply: 230V 1ph 50-60Hz 100W Dimensions: 1040x420xh1350 mm Weight: 120 kg approx. Direct Shear Testing Machine (UTEST)Core System ComponentsShear Frame: Equipped with a digital micro-processor and "Touch-Screen" interface.Loading Mechanism: Includes a beam loading device and shear box case with necessary adaptors and dial gauge supports.Safety Features: Includes a Load Ring with a minimum capacity of 5000N and an integrated electric safety stop device.2. Measurement & Data Acquisition (DAQ)Horizontal | N/A | Italy/ Turkey | 2 | | |

| Ser | Items and Specifications | A/U | Country of Origin | Qty | Rate (Rs.) | Amount (Rs.) |
|-------------------------------|--|-----|-------------------|-----|------------|--------------|
| | Displacement: 25 x 0.001 linear potentiometric displacement transducer. Vertical Displacement: 10 x 0.001 mm linear potentiometric displacement transducer. Mounting: Comes complete with a specialized mounting block. 3. Accessories & Hardware: Full set of slotted weights included. Shear Box Assembly: Loading pad and base plate. 2 plain grid plates and 2 perforated grid plates. 2 sintered bronze porous stones. Hollow tamper. | | | | | |
| 23. | <p>Oedometers,</p> <p>1. 26-WF02 front loading, oedometer to BS 1377, ASTM D2435 with lever arm ratio of 9:1, 10:1, 11:1 26-WF0312 oedometer bench to accept up to three oedometers complete with locking nuts 26-WF0320 fixed ring cell for 50.47mm diameter sample with upper and lower stones, cutter ring and cylinder wall. The cell is supplied with additional outlet suitable for permeability test 30-WF6401 dial gauge 12mm x0.002mm 26-WF0230/C2 set of slotted steel weights total value 64 kg 2x.25; 1x.5; 1x1; 1x2; 1x4; 7x8kg.</p> <p>2. Standards Compliance: Confirming to ASTM D2435-80, ASTM D3877, ASTM D4546, BS 1377:5, AASHTO T216, XP P94 090-1, XP P94-091, UNE 103-601, UNE 103-602, and CEN-ISO-TS 17892-5 standards.</p> <p>Frame Construction: Front loading oedometer, rigidly manufactured from aluminum alloy casting to provide a high degree of accuracy with any frame distortion under load. Load Bridge: Supported in high-accuracy self-aligning seat balls. Loading Ratios: The beam provides three loading ratios: 9:1, 10:1, and 11:1. Counterbalance: Beam assembly is fitted with an adjustable counterbalance weight. Maximum Load Capacity: Maximum load of 170 kg of slotted weights, corresponding to 1870 kg using the 11:1 beam ratio. Consolidation Cell: Material: Made from "Brass". Specimen Diameter: 79.80 mm. Specimen Area: 50 cm². Measurement Tools: Dial gauge with 10 mm travel and 0.01 mm subdivision. Supplied Accessories: Rod for holding weights. Coupling block for holding the dial gauge or transducer. Set of 64 kg of weights. Bench for holding the apparatus. Specimen tamper.</p> | N/A | Local/ Imported | 2 | | |
| Inclusive of All Taxes | | | | | | |
| Grand Total | | | | | | |

Terms & Conditions:-

1. Sealed envelope may clearly be marked as Quotation applied for and name, address and contact number of vendor.
2. Taxes shall be charged/deducted as per Government Rules.
3. Quote for above mentioned items should be on company's letterhead with sign and stamp.
4. Also mention date of quote, **NTN and STRN** number in your quotation.
5. Quality must be ensured.
6. Quotes must reach in SCM Office 2nd Floor Admin Block NUTECH IJP Road Sector I-12 Islamabad latest by 27 February 2026 not later than 1200 hrs.
7. Quotes will be opened on 27 February 2026.

8. Delivery period will be **12 days** after placing Purchase Order. Please ensure delivery within stipulated time.
9. Rates shall be quoted on free delivery basis at NUTECH IJP Road Sector I-12 Islamabad.
10. **Business will be awarded on item wise basis.**



Deputy Director
Supply Chain Management
National University of Technology, Islamabad