Name and Address of Purchasing Organization: Manipur University

TENDER FOR SUPPLY OF: Equipments

TENDER REFERENCE: No. MU/Fin/EQUIP/19(Pt)Forestry and Environmental Science Department

DATE OF COMMENCEMENT OF SALE OF TENDER DOCUMENT: 21/09/2020

SUBMISSION OF TENDER DOCUMENT: Purchase Section, Room No.209, Manipur University.

LAST DATE & TIME OF RECEIPT OF TENDER: 12/10/2020 till 02:00 P.M.

TIME AND DATE OF OPENING OF TENDER: 12/10/2020 till 03:00 P.M.

PLACE OF OPENING OF TENDER: Office of the Registrar, Manipur University.

ADDRESS FOR COMMUNICATION: i. Purchase Officer, Room No.209, A- Block, Manipur University.

ii. HOD, Forestry and Environmental Science, Manipur University.
TENDER FOR SUPPLY OF **Equipments**

1) Sealed tenders in 2-bid system are invited by Manipur University for the supply of Equipments as per enclosed specification and terms & conditions from reputed and experienced manufactures/authorized distributors of similar items as per Annexure–I.

2) ELIGIBILITY CRITERIA -
   a. Bidder shall be a manufacturer of equipment having requisite manufacturing facility.
   b. The bidder shall have market standing continuously for the past 3 years in supplying similar items with customers’ satisfaction.
   c. Authorised dealer / distributors of a manufacturer or Indian Agent of an overseas vendor are also eligible to participate in the tender, provided they furnish the authorization for the items and having the dealership/distributorship for the subject items at least for three years continuously.
   d. The average annual turnover of the bidder during the last three years shall not be less than Rs. 30 lakhs.
   e. Supply shall be effected directly by the bidder and not through any other agency

GENERAL CONDITIONS

3) All bids must be accompanied by a tender fee of Rs. **3000/-** in the form of **Demand Draft/Bankers Cheque in favour of Registrar, Manipur University**.

4) All bids must be accompanied by Earnest Money Deposit (EMD) as specified in the bid document and must be furnished with the bid.

5) Bids shall be opened in presence of bidders/ representatives who intend to attend, on the specified date and time.

6) At any time prior to the date of submission of bid, the authority inviting tender may, for any reason, whether at his own initiatives or in response to a clarification from a prospective bidder, modify the bidding documents by an amendment. All prospective bidders who have received the bidding document will be notified of the amendment in writing and the amendment shall be binding on them. In order to provide reasonable time to take the amendment into account in preparing the bid, the authority inviting tender, may at his discretion, extend the date and time for submission of bids.

7) The bid and all correspondence and documents shall be in the English language.

8) The tender document is not transferable.

9) The tender document shall be signed by the tenderer in all the pages with official seal.

10) Interested eligible bidders, if so desire, may obtain further information from the office of the authority inviting tender.
11) TECHNICAL BID – To be submitted in a separate sealed envelope marked “Technical Bid”

a. All bids must be accompanied by **EARNEST MONEY DEPOSIT** of an amount of Rs. 50,000/- only in the form of *Demand Draft/Bankers Cheque in favour of Registrar, Manipur University*. The EMD of the successful bidder shall be retained till completion of the tender period but shall not carry any interest. If the successful bidder fails to execute the agreement and/or fails to deposit the performance security within the specified time, or withdraws his bid within the validity period of the bid, the EMD shall be forfeited. The EMD of the unsuccessful bidders will be returned within 30 days after the finalization of the tender.

b. Duly attested photocopies of valid manufacturing license for the products offered.

c. Details of supplies made during the last 3 years with summary of Purchase Orders and performance certificates issued by clients. Items supplied to Govt. institutions, if any for the last 3 years with copies of Purchase Order and Performance certificates are to be separately highlighted.

d. Annual TurnOver Statement for the last 3 financial years certified by the Auditor/Chartered Accountant.

e. GST Registration Certificate and copy of the latest GST filing.

f. Undertaking confirming acceptance of all terms and conditions of the tender. (Annexure – II)

g. An undertaking on fraud and corruption. (Annexure – III)

h. In case of dealer/distributor or Indian agent of an overseas manufacturer, Authorization from the manufacturer for the items quoted.

i. Catalogue, literature and schematic diagrams (wherever applicable) of all the equipment being offered.

j. The List of items quoted shall be furnished. The list shall specifically indicate the make/model no., manufacturer and brand name (if any) along with technical specifications. But this list shall not indicate prices of the items.

12) In the technical bid, the bidder shall confirm that, in case he becomes the successful bidder he shall abide by the following stipulations which shall also form a part of his undertaking.

13) **Warranty Maintenance:** The equipment supplied shall be covered under warranty for a period of 1 Year from the date of commissioning and handing over and any maintenance or repair arising during this period of years including replacement of parts if any, shall be carried out by the supplier at his own cost without any cost liability on the purchaser.

a. **Authorization from Equipment Manufacturer:** The successful bidder shall ensure that the manufacturers of the equipment being supplied shall ensure full guarantee/warranty obligations for a period of 1 year from the date of commissioning of the supplied equipment.

b. **Response Time for Breakdown Calls:** Maintenance personnel shall attend to the breakdown within 72 hrs of reporting the fault.
c. **Preventive Maintenance:** During the warranty period, in addition to attending break down calls, there shall be regular quarterly preventive maintenance visits.

d. **Operation & Maintenance Manuals:** Two sets of operation & maintenance manuals along with circuit diagram and spare parts list of equipment shall be supplied.

e. **Installation, commissioning & Warranty Service:** Supply, installation, commissioning and successful trial run of the equipment & subsequent, warranty servicing shall be done at site by the supplier themselves or their authorized agent.

f. **Training:** If required, free demonstration, operation and maintenance training of the assigned personnel at site shall be provided.

14) **PRICE BID:** To be submitted in a separate sealed envelope marked “Price Bid”

   a. The rate quoted per unit shall be the landed cost at destination, inclusive of packing, forwarding, the Taxes/ duties, Freight, Insurance, Installation Commissioning etc and warranty maintenance for 1 year, showing the break-up of cost.

   b. The landed price per unit including 1 year warranty shall be the criteria for determining the LI rate.

15) Technical Bids shall be opened at the office of the purchaser or at any other place earlier intimated, on the date and time specified in presence of the intending bidders or their authorized representatives.

16) The Price Bids of the bidders who meet the eligibility criteria, evaluated based on the details furnished in Technical Bid shall only be opened and the date and time of opening of Financial Bid shall be intimated to the eligible/ short listed bidders.

17) The sealed “Technical Bid” and the sealed “Price Bid” envelopes shall again be sealed in a single envelope marked with the tender Ref. No. **No. MU/FIN/EQUIP/19(Pt) Forestry and Environmental Science Department**

18) **TENDER EVALUATION**

   Tenders will be evaluated with reference to various criteria and one of such criteria is that the rate per unit (landed price including warranty) for determining the LI rate (Lowest rate). Conditional discounts shall not be taken into account for price comparison. However same shall be considered in case of placing order if the bidder happens to be LI.

19) **VALIDITY OF BIDS**

   Bids shall remain valid for acceptance for a period of 180 days after opening of Technical bid. Bids with shorter validity shall be rejected. Purchaser may solicit bidders' consent to an extension of bid Validity period. A bidder may refuse extension request without forfeiting the bid Security.
20) **VALIDITY OF TENDER**

The validity of tender of the successful bidder shall be at least 1 year from the date of finalization of the order and the successful bidder(s) are bound to supply the items at agreed rates during this period. This validity period may be further extended with mutual consent.

21) **REASONABILITY OF RATES/ FIRM PRICE**

   a) The bidder shall certify that the rates quoted are the lowest ones for any institution in the country. If the bidder is stockiest distributor dealer, he shall confirm that the price quoted are based on manufacturer's list price with appropriate discount & shall enclose manufacturer's price list or priced quotation in support of his claim.

   b) During the period of the contract, if the price of any tendered item is reduced due to any reason including any Law or Act of the Central/State Government, the bidder shall be statutorily bound to intimate the reduced rates immediately to the purchaser and shall charge the reduced rates. The purchaser is empowered to unilaterally effect such reduction as is necessary in rates, in case the bidder fails to notify or fail to agree to such reduction of rates.

   c) Subject to the condition stipulated above, the prices shall remain firm for the validity period of tender and on no account any increase in price shall be entertained till completion of the contract period.

   d) No bidder will be allowed at any time on any ground whatsoever, to claim revision of or modification in the rates quoted by him. The representation of the bidder that computation/ typographical or clerical error etc. has been committed in the bid and request for reversion on such plea shall not be entertained after opening of the bid.

22) **STATUTORY TAXES/DUTIES**

In case of any enhancement of Taxes and/or duties or levy of fresh Taxes/duties due to Statutory Act of the Govt., after date of submission of the tenders and during the contractual delivery period, additional or fresh levies so imposed will be allowed to be claimed as extra without any change in the price structure approved under the tender. For this purpose, the supplier shall produce a certificate from the authority concerned certifying that the item supplied falls under particular tariff resulting in additional/ fresh levies for the supplied item. However, the same shall not be borne by the purchaser in case such levies become applicable after expiry of the contractual delivery period stipulated in the contract.

23) **PERFORMANCE SECURITY DEPOSIT:**

The successful bidder, within 15 days of receipt of Purchase Order, shall be required to submit Performance Security Deposit of 10% of the order value in the form of Performance Bank Guarantee in favour of the purchaser valid for a period of years from the date of completion of order. The Bank Guarantee shall be returned on completion of the Warranty period of the goods supplied.

However, if the supplier fails to execute the order or fails to perform the services as per contract, in addition to other penal actions, the Bank Guarantee shall be encashed & the amount forfeited.
24) **AGREEMENT**

The successful tenderer shall execute an agreement on non-judicial stamp paper of value of Rs. 100/- (stamp duty to be paid by the tenderer) within 15 days from the date of the intimation from Tender Inviting Authority informing that his tender has been accepted.

25) **ANNULMENT OF AWARD, FORFEITURE OF SECURITY DEPOSIT & FRESH AWARD**

Failure of the successful bidder to comply with the requirements of signing of contract and / or submission of performance security within the time schedule as stipulated above shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security.

Under such a situation, the proposal may be reviewed for award of the contract on the next lowest evaluated technically qualified bidder or go for a fresh bid depending on the circumstance. In case it is decided to go for the next lowest bidder, negotiation may be considered to bring down their price nearer to the originally evaluated & lowest bidder.

26) **TENTATIVE QUANTITY**

The quantity mentioned is only the tentative requirement and may increase or decrease as per the decision of Tender Inviting Authority. The rates quoted should not vary with the quantum of the order or the destination.

27) **DELIVERY CONDITION**

The supply of items and successful commissioning shall be completed within 30 days from the receipt of the Purchase Order at Department of Forestry and Environmental Science, Manipur University.

The supply, installation, commissioning of the equipment and trial run have to be done at site by the supplier or his authorized agent. No additional charges for these services shall be paid. The supplier or the Indian Agent shall be responsible for these services for imported items.

The units as per order shall be handed over to the authorized representative(s) of the purchaser at the specified location and the same shall be duly receipted after installation, commissioning and satisfactory demonstration of full functioning of the unit.

28) **PAYMENT TERMS**

No advance payment shall be made. 100% payment for the supplied items shall be made after receipt of the fully functional items and completion of all codal formalities subject to submission of Bank Guarantee for Performance Security, relevant documents, test certificates, warranty certificates etc.

29) **PENALTY FOR DELAY IN DELIVERY**

In case there is delay in delivery beyond the stipulated period as mentioned in delivery clause, there shall be reduction in price @ 0.5% of the value of delayed goods per week of delay or part thereof subject to a maximum of 10% of the total order value.
Once the maximum price reduction is reached, termination of the contract may be considered. Non-performance of the contract provisions shall make the successful bidder liable to be disqualified to participate in any tender for the next 5 years, in addition to forfeiture of EMD and Bank Guarantee for Performance Security and other penal provisions.

30) **FORCE MAJUERE**
   The above condition of delivery period, price reduction & termination etc. are subject to force majeure conditions which are beyond the control of the supplier, do not involve fault or negligence of the supplier and are not anticipated. Such events may include but are not limited to riots, mutinies, war, fire, storm, tempest, flood, epidemics, or other exceptional causes like quarantine restrictions, freight embargoes. On specific request made by the tenderer the time period of supply may be extended by the purchaser at his discretion for such period as may be considered reasonable. However, the condition shall not include scarcity of raw materials, power cut, labour dispute, failure of sub-vendor and increase in cost of raw material.

31) **ADJUDICATION/REVIEW BOARD**
   Any dispute arising out of or during execution of the contract shall be settled with mutual agreement through an Adjudication/Review Board appointed by the appropriate authority of the purchasing organization, having officers belonging to other departments not related to the purchasing department.

32) **SAVING CLAUSE**
   No suit, prosecution or any legal proceedings shall lie against Tender Inviting Authority or any person for anything that is done in good faith or intended to be done in pursuance of tender.

33) **LAWS GOVERNING THE CONTRACT & JURISDICTION** The contract shall be governed by the laws in force in India. In the event of any dispute arising out of the tender such dispute would be subject to the jurisdiction of the Civil Court within the city of Imphal only.
## A. INSTRUMENTS FOR ENVIRONMENTAL SCIENCE PRACTICAL AND RESEARCH

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Instruments</th>
<th>Units</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.</td>
<td>Digital Water Bath 32 litre</td>
<td>1</td>
<td>Volume – 25-30L, Dimension 355 x 405 x 100 mm Double walled inside, made of Stainless Steel 304 qty. Outside of Mild Steel Sheet duly painted with epoxy powder coated. 25 mm mineral wool insulation on five sides. Temperature is controlled by Microprocessed Electronic Digital Temperature Controller- 0 0 cum-Indicator from few °C above ambient to 100 C ± 1 C having two windows display SV &amp; PV, auto tuning, timer up 999 mts(selectable) low &amp; high temp. accuracy alarm, cycle, timer with buzzer. • With steering pump. • Heating element are made of copper Nickel plated tabular type. • With perforated and removable diffuser shelves. • Stainless Steel lid/cover, brass drain plug, cord with plug. • Work on 220/230 volts A.C..</td>
</tr>
<tr>
<td>3.</td>
<td>Soil Eh meter</td>
<td>01</td>
<td>For measuring redox potential in soil and peat Platinum electrode, Range -300mV to 800mV</td>
</tr>
<tr>
<td>4.</td>
<td>Dry Air Sterilization / Oven</td>
<td>01</td>
<td>Dry Heat Sterilization: Suitable for drying, warming and heating, heat treatment and long-term stability test in research. Air Jacket heating system for highly precise and constant temperature Homogenous temperature distribution by natural air convection. Triple insulation consisting of glass wool, aluminium layer and air gap for high efficiency. Stainless steel chamber. Adjustable outlet for vapour exhaustion Reliable and Accurate prime programmable PID Microprocessor control system Temperature range: Ambient temp + 70C – 250 C Temperature sensor : Fe- Const Control system :Programmable microprocessor Temperature set and Display sensitivity : 1 C Temperature Variation @150C : +/- 2 C</td>
</tr>
<tr>
<td>5.</td>
<td><strong>Environmental Noise Meter - Nova 45 (Class 1) with tripod and accessories</strong></td>
<td>01</td>
<td>A high performance integrating averaging sound level meter with additional key features including: Range 20dB(A) to 140dB(A) &amp; 143dB(C); Real-time 1:1 Octave band filters; TWA/dose and Ln values; Data Logging and AnalyzerPlus software; Audio recording, Audio Note, and Automatic Timers</td>
</tr>
<tr>
<td>6.</td>
<td><strong>Echo Sounder</strong></td>
<td>01</td>
<td>Echo Sounder is a rapid method of determining depth of water bodies. A sound impulse is transmitted (by a transmitter) from the surface of water level to the bed of the river followed by receiving the reflected impulse in the form of echoes. The time interval between emission and return of the reflected sound waves is recorded to estimate depth.</td>
</tr>
<tr>
<td>7.</td>
<td><strong>High Resolution Digital Sound Recorder/Sound Device</strong></td>
<td>01</td>
<td>2 channels of improved microphone preamps, high-pass filters, AES3 (XLR) or AES3id (unbalanced AES on BNC) digital inputs and AES3id outputs FireWire (IEEE-1394) port for high-speed data transfer to computers for editing, backup Proprietary RS-232 6-pin modular C, 24-bit or 16-bit with or without dither, 32kHz - 192kHz sampling rates, Input-to-track assignment with 16 possible routing combinations; WAV or BWF format, mono or poly files, uncompressed PCM audio MP3 encode and decode, 32 to 320kbps stereo file</td>
</tr>
<tr>
<td>8.</td>
<td><strong>USD-48 Silt/Sediment Sampler</strong></td>
<td>01</td>
<td>Light – weight sampler for collection of suspended sediment samples</td>
</tr>
<tr>
<td>9.</td>
<td><strong>OTT MF pro Flow Meter with sensors</strong></td>
<td></td>
<td>Calculates discharge automatically based on USGS and ISO methods. Velocity graphed in real-time on the meter's color display for trending. Electromagnetic sensor head has no moving parts and never requires calibration.</td>
</tr>
<tr>
<td>10.</td>
<td><strong>Manual Crimper</strong></td>
<td>01</td>
<td>20 ml Vial Enclosure</td>
</tr>
<tr>
<td>11.</td>
<td><strong>Indoor Air Quality Monitoring Instrument</strong></td>
<td>01</td>
<td>Portable instrument simultaneously measuring particulates, VOC, Toxic Gas, CO2, RH, Temperature &amp; Air Velocity Integrating Photometer with dial in rotary impactor for selective sizes of PM 2.5, PM4, PM 10 or TSP. Display range: 0.000 - 200.0 mg / m3 Accuracy: +/-15% (rel ARD*) Resolution: 0.001mg / m3</td>
</tr>
</tbody>
</table>
Working methods

** Temperature-Junction Diode
** RH - Capacitive
** Particulates -90˚ Light Scattering / Integrating Photometer And Gravimetric sampling with 37 mm filter
** VOC - Photo Ionization Detector
** CO2 - NDIR
** Toxic Gases - Electrochemical Sensors
** Air Velocity - Omni directional heated thermistor

Rechargeable Lithium Ion battery for a continuous operation of minimum 8 hours.

Integrated with Software with USB Adapter.

Should have the standards of CE mark & RoHS Compliant

Provision to mount on a standard photographic Tripod Stand for stationary monitoring applications.

Instrument Sensor Specifications:
Particulate Impactors: PM2.5, PM4, PM10 or TSP (within the Size Fractions: instrument’s measurement range.

Sensor: 90° Light Scattering/Integrating Photometer
Display range: 0.000 - 200.0 mg / m³
Accuracy: +/-15% (rel ARD*)
Resolution: 0.001 mg / m³

VOC:
Sensor: 10.6eV Photoionization Detector
Measuring Range: 0.00 - 2,000 PPM
Resolution: 0.001 PPM
Accuracy: +/-2%*** at calibration level

CO2
Sensor: NDIR (Non-Dispersion Infrared)
Measuring Range: 0 - 5,000 ppm;
Resolution: 1 PPM
Accuracy: +/-100 ppm

CO - Carbon Monoxide
Sensor: Electro Chemical
Measuring Range: 0 - 1,000
Accuracy: +/-5%
Resolution: 1
<table>
<thead>
<tr>
<th>Temperature:</th>
<th>Relative Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor: Junction Diode</td>
<td>Sensor: Capacitive</td>
</tr>
<tr>
<td>Measuring Range: 0 - 60.0</td>
<td>Measuring Range: 0.0 – 100%</td>
</tr>
<tr>
<td>Accuracy: +/- 1.1 deg C</td>
<td>Resolution: 0.1%</td>
</tr>
<tr>
<td></td>
<td>Accuracy: +/-5% RH* of signal between 10%-90%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Air Velocity</th>
<th>Optional Toxic Gas sensors:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omni-directional Heated Thermistor Windprobe</td>
<td>SO2 Sensor, Range (0.1PPM – 50PPM)</td>
</tr>
<tr>
<td>Air Velocity Sensor Accuracy: +/-0.12 m/s</td>
<td>NO2 Sensor, Range (0.1PPM – 50PPM)</td>
</tr>
<tr>
<td>Range: 0.0 - 20 meter/sec</td>
<td>NO Sensor, Range (0.0 – 100PPM)</td>
</tr>
<tr>
<td></td>
<td>H2S Sensor, Range (0.0 – 500PPM)</td>
</tr>
</tbody>
</table>
A. INSTRUMENTS FOR FORESTRY PRACTICAL AND RESEARCH

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Instruments</th>
<th>Units</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tree diameter caliper,</td>
<td>2</td>
<td>Made of Aluminum, Size: 100 cm.</td>
</tr>
<tr>
<td>2</td>
<td>Altimeter / ravimultimeter for tree height measurement</td>
<td>2</td>
<td>Altimeter by optical method for the fast and accurate calculation of tree heights. Maximum Height Range: 60 meters Accuracy: 1 percent. Metal casing Button to set as. Weight: 40 grams Includes instructions and carrying case.</td>
</tr>
<tr>
<td>3</td>
<td>Telescopic ladder</td>
<td>1</td>
<td>Portable compact Ladder, Made up of metal, Height: 3.5 meters</td>
</tr>
<tr>
<td>4</td>
<td>Digital Vernier Caliper for tree diameter</td>
<td>2</td>
<td>ABSOLUTE Digimatic&amp; Vernier Caliper w/ Nib Style and Standard Jaws Range: 0(5)-18in 0(20)-450mm LCD Resolution: .0005 in 0.01 mm Accuracy: .0025 in Resolution: 0.01 mm or .0005&quot;/0.01 mm Display: LCD Length Display: Digital Display Graduation / Resolution: 3.94E-4 inch Range: 0.0 to 20 inch</td>
</tr>
<tr>
<td>5</td>
<td>Pocket Weather Meter</td>
<td>2</td>
<td>Minimum wind speed: 0.7 mph (0.6 knots, 1 km/h, 0.3 m/s, or 59 fpm). Maximum wind speed: 89 mph (78 knots, 144 km/h, 40 m/s, or 7,877 fpm). Wind speed accuracy: ±3%. Update: 1 second. Temperature, wind chill, heat stress, and dew point range: -20°F to +158°F (-29°C to +70°C). Temperature, wind chill, heat stress, and dew point accuracy: ±2°F (±1°C). Temperature resolution: ±0.1°F (±0.1°C). Wind chill factor resolution: ±1°C. Relative humidity range: 5% to 95%. Relative humidity accuracy: ±3% from 5% to 95%. Barometric pressure range: 870.0 hPa to 1,080.0 hPa (25.70 in Hg to 31.90 in Hg). Barometric pressure accuracy: ±3hPa. Altitude range: -1,500 ft. to 30,000 ft. (-500 m to 9,000 m). Altitude accuracy: ±30 meters (at standard atmospheric conditions). Operating temperature:</td>
</tr>
</tbody>
</table>
### 5°F to +122°F (-15°C to +50°C).

<table>
<thead>
<tr>
<th>No.</th>
<th>Product</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Soil Sampler Spoon Type</td>
<td>Spoon type auger, Made up of steel or other metal, Diameter 1” – 2”</td>
</tr>
<tr>
<td>8</td>
<td>10x50 Binocular with compatible tripod stand</td>
<td>Preferably Nikon, Product Dimensions 17.9 x 19.7 x 6.8 cm; 899 Grams, Mounting Hardware Case, Neck Strap, Eyepiece cap, User Manual, Warranty Card, 2 Objective Caps, Magnification Maximum 10, Optical Zoom 10 x, Min Focal Length 18 Millimeters, Material Rubber, A portable tripod; Material: Aluminum, Dimension: 104.14mm x 104.14mm x 568.96mm, Level Adjustment Width: 55mm to 157mm, Mounting Screw Diameter: 1/4-th inch, Mass: &lt;1.5 kg, Easy portability and level height adjustment</td>
</tr>
<tr>
<td>9</td>
<td>Forestry Pro Laser Hypsometer</td>
<td>Preferably Nikon, Powerful, multi-use rangefinder, Measures existing actual distance, horizontal distance, height, angle, and vertical separation Also features three-point measurement, Internal and external LCD display panels; external displays all results simultaneously, while internal displays only selected results, Two measurement modes with Target Priority Switch System - First Target Priority Mode and Distant Target Priority Mode, Model LRF Forestry Pro, Product Dimensions</td>
</tr>
<tr>
<td></td>
<td>Description</td>
<td>Quantity</td>
</tr>
<tr>
<td>---</td>
<td>-----------------------------------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>10</td>
<td>Diameter Tape (5m), (Make: Forestry Supplier, USA)</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>Abney’s Level</td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>Cryo-freezer with compatible stabilizer</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>Herbarium Press, and Cabinet</td>
<td>2</td>
</tr>
<tr>
<td>14</td>
<td>Seed Germinator with compatible stabilizer</td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td>Digital Camera with AF-P 18-55 mm and AF-P 70-300 mm VR Kit + AF 70-300mm F/4.0-5.6 Di LD Macro Telephoto Zoom Lens</td>
<td>1</td>
</tr>
<tr>
<td>16</td>
<td>Soil pH and Moisture Meter with rechargeable batteries, pH values from 3.5 to 8, soil moisture</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>17</td>
<td>Infra-Red Camera Trap</td>
<td>2</td>
</tr>
<tr>
<td>18</td>
<td>High Precision Digital Weighing Balance</td>
<td>1</td>
</tr>
<tr>
<td>19</td>
<td>Increment borer 12 inch</td>
<td>3</td>
</tr>
<tr>
<td>20</td>
<td>Digital clinometer EC II D-R</td>
<td>2</td>
</tr>
<tr>
<td>21</td>
<td>Bark Gauge</td>
<td>2</td>
</tr>
<tr>
<td>22</td>
<td>Biological Digital Microscope</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td></td>
<td>Trinocular Eyepiece Tube inclined at 30°, 360° rotatable, Inter Pupillary distance 47-75mm with light path selector (100:0, 0: 100), Eyepiece CFI E 10X (F.O.V. 20mm) Diopter adjustment on both eyepieces. <em>Phase Contrast Condenser with objective position guide marking, N.A. 1.25, PH1 Slider for phase 10x - 40x</em> GIF Filter, 33mm, <strong>OBJECTIVE LENS</strong> CFI E Plan Achromat 4X, N.A. 0.10, W.D. 30mm CFI Achromat DL 10X A N.A. 0.25, W.D. 7.0 mm, Ph1 CFI Achromat DL 40X A N.A. 0.65, W.D. 0.65 mm, Ph2, Spring-loaded CFI Achromat 100X Oil N.A. 1.25, W.D. 0.23 mm, Spring-loaded <strong>CAMERA</strong> DS-Fi3 Microscope Camera, 5.9 Mega Pixel, CMOS Sensor size 6.91mmX4.92mm, Live mode 15fps (2880X2048), Binning 2X2, 30fps (1440X1024), Exp 100µsec-30sec, USB3.0 connector for PC, Recordable pixel 2880X2048/ 1440X1024, Quantum Efficiency 67%, Average photometry mode/ Peak photometry mode, ISO 50 (50-3200) Onetime Auto/Cont Auto/ Manual exposure control, Gain &gt; 60dB, Exp corr: ±1EV, Step: 1/6 EV, Direct Connectivity to Laptop/Computer via USB3, C-mount 0.55x relay lens, <strong>IMAGE ANALYSIS SOFTWARE</strong> Documentation software, Measurement acquisition, Camera control, Z-series, image capture, Multipoint experiments, AVI Live-stream (Video Recording) capture, Time Lapse image, Live Image Capture, Calibration, image stitching (Large image), Optical configuration, Merge Channels, Image filtering, Color adjustments, measurement, count, length, area, angle, circle and ellipse, Histogram, Background compensation, Report generation, User rights/Control, layout.</td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>Seed Blower</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>South Dakota type seed blower, Size 48x56x86 cm.(Approx) without tube, Electric Motor - 0.5 HP Single Phase, Tube Set (small) 7.6 cm.dia x 93 cm length 4.5 cm. dia x93 cm length approx.. Tube Set (large) 10 cm. dia x 93 cm height approx. Size is negotiable.</td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Seed Lab Aspirator</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>For Separation of Granular and Foreign material with Variable blower speed. Hopper Cap. - 2 kg – 3kg Approx. Size - 51x30x82.5 cms (Approx.), Electric Motor - 300 W, 220V, 50 c/s AC/DC Single phase</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Engineer Work</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>AMD Ryzen Thread ripper 3970X Processor</td>
<td></td>
</tr>
<tr>
<td>Station for Bioinformatics and GIS analysis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
UNDERTAKING

To

Tender enquiry No.______________
For supply of ______________________

Sir,

1. I, Shri ____________________________, on behalf of M/s ____________________________, having registered office at ____________________________, do hereby declare that I have gone through the terms and conditions mentioned for the above and undertake to comply with all tender terms and conditions. The rates quoted by me/us are valid and binding on me/us for acceptance for a period of one year from the date of award of contract to us.

2. I/We undersigned hereby bind myself/ourselves to the Office of ……………………………….to supply ………………………………………. The rates quoted by me/us for the items tendered for are specified against each. **It is certified that rates quoted are lowest quoted for any institution in India and not higher than the MRP/prevailing market rate.**

3. The articles shall be strictly as per specification and of the best quality as per requirement of the institution. The decision of the Office of …………………………………………………. (hereinafter called the said Purchaser) as regards to the quality and specification of article shall be final and binding on me/us.

4. We undertake and confirm that
   a) **WARRANTY:** The item, supplied shall be covered under warranty for a period of ____years (as applicable) from the date of receipt and any maintenance or repair arising during this period including replacement of parts if any, shall be carried out by us at our own cost without any cost liability on the purchaser.
   b) **Authorization from Manufacturer:** We shall furnish authorization from the manufacturer undertaking to the Purchaser in appropriate format assuring full guarantee/warranty obligations valid for a period of ___years (as applicable) from the date of receipt of the supplied item.

5. We agree to the conditions of the tender under which the EARNEST MONEY DEPOSIT and PERFORMANCE SECURITY DEPOSIT shall be forfeited by us.

6. We hereby undertake to pay the **penalty** as per the terms and conditions of the contract for delayed supply of the ordered items.

7. We agree to accept the amount of the bill to be paid by the purchaser after completion of all codal formalities and should any amount of the bill found by the purchaser/auditors to have been over-paid; the amount so found shall be refunded by me/us.

8. We hereby undertake to supply the items during the validity of the tender as per direction given in supply order within the stipulated period.

9. The tender inviting authority has the right to accept or reject any or all the tenders without assigning any reason.

10. We understand all the terms and conditions of the contract and bind myself/ourselves to abide by them.

11. We hereby declare that there is no vigilance/CBI or court case pending/contemplated against us at the moment.

SIGNATURE :
NAME & DESIGNATION :
DATE :
NAME & ADDRESS OF THE FIRM :
SEAL :
ANNEXURE-III

UNDEARTAKING ON FRAUD AND CORRUPTION

We M/s …………………………………………………………………... do hereby undertake that, in competing for (and, if the award is made to us, in executing) the subject contract for supply of ........................................... under tender reference no. ................. Dt ....................... We shall strictly observe the laws against fraud and corruption in force in the country.

Sd/-

Signature of proprietor/Partner/Director
Designation:
Seal: