



Cost of the Tender Document:
Rs. 500/-

(Rupees Five Hundred only)

CENTRAL UNIVERSITY OF KASHMIR

Admin. Campus, Near Puhroo Chowk, Nowgam Bypass, Srinagar 6 190015 (J&K)
Phone: 0194-2468354, 2468357, Website www.cukashmir.ac.in

Tender No: CUKmr/Pur/F.No.469/16/137
Dated: 04.07.2016

1. Name of the Firm/Supplier/Vendor:.....
.....

2. Address with telephone No. :.....
.....

3. Earnest Money Deposit (EMD)
(to be deposited along with the tender document)

- a) Bank Draft No. í í í í í í í í í í í í .
- b) Date í í í í í í í í í í í í í í í í í .
- c) for Rs. í í í í í í í í í í í í í í í í í .
- d) Drawn on í í í í í í í í í í í í í í í í í ..

4. Cost of Tender Document:
(to be deposited along with the tender document)

- a) Bank Draft No. í í í í í í í í í í í í .
- b) Date í í í í í í í í í í í í í í í í í .
- c) for Rs. í í í í í í í í í í í í í í í í í ..
- d) Drawn on í í í í í í í í í í í í í í í í í .

CENTRAL UNIVERSITY OF KASHMIR

TENDER NOTICE NO. 5 of 2016

FOR THE SUPPLY OF EQUIPMENT FOR RESEARCH PROJECTS

AT CENTRAL UNIVERSITY OF KASHMIR, SRINAGAR

**LAST DATE & TIME FOR SUBMISSION
OF TENDER**

**28th July, 2016
by 3 P.M.**

DATE & TIME OF OPENING OF BIDS:

29th July, 2016 at 02:30 p.m.

**CENTRAL UNIVERSITY OF KASHMIR, ADMIN. CAMPUS, NEAR PUHROO CHOWK, NOWGAM
BYPASS, SRINAGAR 6 190015 (J&K)**

NOTICE INVITING TENDER

Sealed Tenders are invited from eligible, Original Manufacturers/ Authorized Dealers for Supply of Equipment for Research Projects to the Central University of Kashmir, the details of which are available in the detailed tender document. The tender document along with terms & conditions and specifications can be obtained from the Office of the Registrar, Central University of Kashmir on payment of tender fee of Rs. 500/- (Non-Refundable), through a demand draft in favour of the Central University of Kashmir on all working days between 11:00 a.m. to 4:00 p.m. from 05.07.2016.

The tender document is also available on the University website www.cukashmir.ac.in and can be downloaded by the vendors. The cost of the tender document shall be deposited through a DD in favour of the Central University of Kashmir, payable at Srinagar.

Complete tender along with all the documents must reach the office of the Registrar, Central University of Kashmir, by or before 3.00 p.m. on 28.07.2016.

Tender documents are non-transferable and tender should invariably be submitted on company's letter head duly signed by the competent signatory. Tenders are liable to be rejected if any of the conditions contained in the tender documents are not complied with. Amendments/Corrigendum, if any, shall appear only on the University website.

Incomplete or conditional tenders and the tenders submitted after the due date would be summarily rejected. Central University of Kashmir reserves the right to reject/cancel any or all tenders without assigning any reason/s thereof.

**Sd/-
Registrar
Central University of Kashmir**

CENTRAL UNIVERSITY OF KASHMIR

- 1) Scope of work: Supply of Equipment for Research Projects.
- 2) Cost of Blank Tender form: 500/- (Five Hundred only)
(Non-refundable)
- 3) Availability of tender document: Tender document is available on the
University website www.cukashmir.ac.in
- 4) Last date and time of submitting the tender: 28th July, 2016; 03:00 pm
- 5) Amount of E.M.D. 15,000/- (Fifteen Thousand only)
(Refundable Without Interest)

SPECIAL CONDITIONS OF THE TENDER

- (1) The tenderer/manufacturer/vendor/distributor would be required to supply the requisite Equipment for Research Projects within Thirty (30) days from the date of placement of the purchase order by the University.
- (2) Cost of the Equipment for Research Projects should include all taxes like Entry Tax (applicable in the State of J&K), CST/GST/VAT and all statutory levies with a proper break up for the same. The rate should include loading / unloading, transportation and Installation of the equipment at site.
- (3) The offer should be valid for 90 days from the last date of submission of the bid.

EMD

- (1) The Earnest Money Deposit (EMD) of Rs 15,000/- (Rupees Fifteen Thousand only) {*refundable without interest*} and cost of tender document of Rs. 500/- (Rupees Five Hundred only) {*Non-refundable*} shall be deposited in the form of Demand Draft {***CDR will not be accepted***} drawn in favour of the Central University of Kashmir, Srinagar payable at Srinagar.
- (2) The EMD of the unsuccessful bidders will be returned after the selection of the successful bidder/s. The EMD in favour of the successful bidder shall be released after the supply of equipment and submission of Performance Security as per the provisions of GFR-2005.
- (3) The EMD may be forfeited:
 - (a) If a Bidder withdraws its bid during the period of bid validity;
 - (b) If at any stage it is proven that the information given by the bidder is incorrect;
 - (c) In case of a successful Bidder, if the Bidder fails:
 - i. To execute a contract
 - ii. To execute the supply
 - iii. To furnish the Performance Security

ELIGIBILITY

- (4) Reputed Manufacturers or their Authorized Dealers should fulfill the following eligibility conditions for competing in the bidding process.
- (5) The bidders should have an average Annual Financial Gross Turnover of Rs. 05 Lakhs during the last Two years ending 31st March 2015, duly certified by a Chartered Accountant.
- (6) Bidders must be either Original Equipment Manufacturer (OEM) or authorized dealer of the OEM. In case of the authorized dealers, documentary evidence should be attached along with the tender,
- (7) The bidder is required to submit latest Tax/VAT Clearance Certificate or similar documents issued by the Commercial Tax Department along with tender document.
- (8) The Bidder must have service presence in Srinagar and in case of service requirement; the downtime will be 48 hours. An undertaking to this effect must be enclosed in the technical bid.
(Note: Failure to meet above requirements shall disqualify the bidder from participation in bidding. Claim of bidder on account of above must be substantiated by suitable documentary evidence).

SUBMISSION OF BIDS

- (9) The bids shall be addressed to the REGISTRAR, Central University of Kashmir, Administrative Campus, Near Puhroo Chowk, Nowgam Bypass, Srinagar-190015 (J&K) and delivered by hand or by post before the date and time as specified above. Further, both the technical and the financial bids are required to be submitted in separate envelopes. **Please note that the University shall not be responsible for any postal losses/delays. Bids sent by post and received after 03.00 p.m. on 28/07/2016 shall be summarily rejected. In case of any dispute in the timing of receipt, the decision of the university shall be final.**
- (10) The Bidders are expected to go through all instructions, terms & conditions as mentioned in the bidding documents. Failure to furnish complete required information or submission of a bid with incomplete information may result in rejection of the bid.
- (11) The University may, for any reason, whether *suo-moto* or in response to a clarification requested by a prospective bidder, modify the bidding documents by an amendment/s at any time prior to the last date for submission of bids.

- (12) The amendment/s, if any, in the tender document shall be published on the University Website: www.cukashmir.ac.in only. In their own interest, the bidders are requested to visit the University website regularly for amendment/s, if any.
- (13) Quotations received after the due date, improperly sealed, or with incomplete marking or with overwriting/corrections are liable to be rejected.
- (14) The bid(s) will be opened on 29/07/2016 at 02:30 pm in presence of the bidders or their authorized representative(s), who wish to be present. The authorized representative/s must carry a letter of authorization from the bidder to participate in the bid opening. However, for opening of bids the presence of bidders or their representative/s is not mandatory.
- (15) In the event of the date fixed for receipt and opening of the bid being declared as a closed holiday for University office, the relevant dates may be treated as the next working day. The time and venue shall however, remain unchanged.
- (16) The bidder should confirm that there are no hidden costs. Any items found necessary to make the equipment functional will be provided by the bidder without extra cost.

TWO BID SYSTEM TENDER

- (17) The prescribed tender documents should be submitted in one sealed envelope duly superscribed with, "Supply of Equipment for Research Projects to the Central University of Kashmir, Srinagar". This sealed envelope should contain 2 separately sealed envelopes marked A & B as under:

➤ **STAGE-I (Technical Offer):**

The Technical Offer should be complete in all respects and contain all information asked for, except prices. Technical offer should mention one (01) Year (onsite and comprehensive) Warranty included in the Commercial Offer for Equipment for Research Projects, without referring to any commercial detail. The suggested format for submission of Technical Offer is as follows:

- a. Index
- b. Covering letter as per Appendix I
- c. EMD in the form of Demand Draft drawn in favour of Central University of Kashmir, Payable at Srinagar.
- d. The Company profile as per Appendix II and IIA
- e. Manufacturer's Authorization Certificate (if applicable) as per Appendix III
- f. Vendor's Financial Details (P&L/Audited Balance Sheets etc.) and other supporting documents, as asked in the tender document.
- g. Warranty compliance statement in Appendix IV (Equipment for Research Projects).
- h. Technical Bid Appendix VI for Specifications as given in Appendix V complete with all the details filled in. This should not contain any commercial information viz. price etc.

➤ **STAGE-II (Commercial Offer):**

The Commercial Offer (C.O.) should give all relevant price information related to items mentioned in Appendix VII complete with all the details - The Bid Form must be filled in completely, without any errors, erasures or alterations.

The Commercial Offer must not contradict the Technical Offer in any way.

- (18) The tender not submitted in the prescribed formats or with incomplete details is liable for rejection. The Central University of Kashmir is not responsible for non-receipt of tender within the specified date and time due to any reasons, including postal holidays or delays.

- (19) The complete tender document is to be signed along-with seal & is to be placed in the technical bid envelope along with the necessary required documents.
- (20) If any information furnished by the applicant is found to be incorrect at a later stage, he shall be liable to be debarred from tendering/taking up of work in the Central University of Kashmir. The Central University of Kashmir reserves the right to verify the particulars furnished by the applicant independently.
- (21) The Central University of Kashmir reserves the right to reject any or all prospective applicants without assigning any reason/s thereof and to restrict the list of tendered contractors to any number deemed suitable by it, if too many applications are received satisfying the basic PQ (Pre-Qualification) criteria.
- (22) The Bid shall be treated as a 2 Bid System. The Technical Bid shall be evaluated further only for those applicants whose EMD is found in order. Financial Bid shall be opened for the qualified bidders who have cleared the Technical Bid.

OTHER TERMS AND CONDITIONS

- (23) The specification, description, and quantity of Equipment for Research Projects required by the University are placed at **Appendix-V** of the tender document.
- (24) **Erasures or Alterations:** The offers containing unauthenticated erasures or alterations will not be considered. There should be no unauthenticated handwritten material, corrections or alterations in the offer. Technical details must be completely filled up. Correct technical information of the product being offered must be filled in. The University may treat offers not adhering to these guidelines as unacceptable.
- (25) **Late Bids:** Any bid received by the University after the deadline for submission of bids prescribed by the University, will be rejected and returned unopened to the Bidder.
- (26) No bid will be allowed to be modified subsequent to the deadline for submission of bids.
- (27) No bid will be allowed to be withdrawn during the period between the deadline for submission of bids and the expiry of the period of bid validity specified by the Bidder on the bid form. Withdrawal of a bid during this period may result in forfeiture of bid security.
- (28) Bids not opened and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances.
- (29) During evaluation of bids, the University may, at its discretion, ask the Bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in prices or substance of the bid shall be sought, offered or permitted.
- (30) **Period of Validity of Bids:** Bids shall remain valid for a minimum period of 90 days after the date of bid opening prescribed by the University. A bid valid for a shorter period shall be rejected by the University as non-responsive.
- (31) In exceptional circumstances, the University may solicit the Bidder's consent to an extension of the period of validity. The request and the responses there to, shall be made in writing. The bid security provided shall also be suitably extended. A Bidder may refuse the request without forfeiting his bid security. A Bidder granting the request will not be required or permitted to modify its bid.
- (32) The University will evaluate and compare the bids which have been determined to be substantially responsive.
- (33) The University's evaluation of a bid will be based on the landing cost at the site taking into account all the taxes, duties, transportation, installation etc.

- (34) No Bidder shall contact the University on any matter relating to its bid, from the time of the bid opening till the Contract is awarded. If the bidder wishes to bring additional information to the notice of the University, it should do so in writing.
- (35) Any effort by a Bidder to influence the University, in its decisions on bid evaluation, bid comparison or contract award may result in rejection of bid.
- (36) Failure of the successful bidder to comply with the requirements of the University constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the University may make the award to the next lowest evaluated bidder or call for new bids.
- (37) **Bid Currencies:** Prices shall be quoted in Indian Rupees only.
- (38) The amount must be quoted both in figures and in words. In case of any discrepancy, the amount quoted in words will be taken as final. Further the quoted unit price will be considered final, if there is any discrepancy in total amount.
- (39) The supply of Equipment for Research Projects will be at the risk of the firm till the acceptance of supplies by the University authorities.
- (40) The quoted rates include Entry Tax applicable in the State of J&K, CST/GST/VAT, levies, freight, insurance, forwarding, transportation, installation etc. Any extra amount over and above the quoted rates will not be entertained.
- (41) Detailed specifications, catalogue/ literature of all the items quoted should be attached with the technical bids. Incomplete Bids in any respect are liable to be rejected.
- (42) The bidders must submit their company profile in the prescribed format given in Appendix II & IIA. A list of organizations/ agencies to which Equipment for Research Projects has been supplied may be furnished along with copies of supply order, with the technical bid.
- (43) The items mentioned in the bid must conform to the specifications mentioned in the **Appendix-V**. A Committee constituted by the University may visit the Manufacturing Unit/Site of the bidders for on the spot assessment of Equipment & the manufacturing infrastructure. The University may also ask the bidders to present the samples of quoted items before the Committee at the Office of the University.
- (44) The successful bidder/s shall be required to enter into an agreement with the University by submitting an instrument of Agreement on a non-Judicial stamp paper of Rs 50/- denomination. Necessary clauses mentioned in the tender document and or decided at the time of award of contract shall be incorporated in the Agreement.
- (45) **Payment terms:** The payment will be made in Indian rupees only. 100% payment will be released after supply and installation of the equipment, successful inspection and furnishing of performance security @10% of the total purchase order value, which will be refunded to the supplier 60 days after the expiry of the warranty period. However, in case of unsatisfactory service during the warranty period, the Performance Security will be forfeited. The decision of the University in this behalf shall be final.
- (46) The actual quantity to be purchased can be increased or decreased by the Competent Authority of the University at the time of the placement of purchase order in favour of successful bidder/s. The purchase order in favour of successful bidder/s may also be issued in a phase-wise manner, depending upon the actual requirement.
- (47) Each firm should clearly specify that the firm agrees to abide by the conditions of this tender document on their printed letter head indicating thereon Sales Tax Registration, FAX, Email, Telephone numbers, etc.

- (48) The University may, at any time, make changes, in writing, within general scope of the Contract in any one or more of the following:
- a. The method of shipping or packing;
 - b. The place of delivery; and/or
 - c. The Services to be provided by the Supplier
- (49) The supply of equipment has to be made within a period of 30 days from the date of the issuance of the Purchase Order by the University. In case, the successful bidder fails to supply the equipment within the stipulated time, the University may impose penalty @0.5% of the cost of the pending supply for every week and the amount so calculated will be deducted from the bill up to maximum of 10% beyond which the order will be cancelled and Bid Security/Earnest Money deposited will be forfeited. Besides, the extra cost incurred in arranging the supply from the alternative sources shall also be recovered from the defaulting supplier.
- (50) All the supplies made under this tender notice will be inspected by a Committee specially constituted for the purpose and in case the Committee is of the opinion that the supplies are not of the required specifications, the supplies shall be rejected and responsibility of lifting back the supplies will devolve upon the supplier. Besides, in such an event, the EMD shall stand forfeited and the extra cost incurred in arranging the supply from the alternative sources shall also be recovered from the defaulting supplier apart from initiating the proceedings for blacklisting. However, in case, the part supplies are accepted by the University, the decision with regard to the penalty etc. shall be taken by the University authorities.
- (51) Item offered in the tender can be re-ordered at the same rate, under same terms & conditions within a period of one year of the placement of first purchase order.
- (52) All the items supplied through this tender shall be covered by a **warranty of one year**. During the period of warranty, no charges will be paid by the University on any kind of service or repairing carried out by the supplier.
- (53) The University reserves the right to reject or accept any tender without assigning any reason or cancel or withdraw the tender notice.
- (54) In case of any dispute, same shall be resolved initially by mutual discussion between the parties with in a period of 60 days, failing which appropriate courts at Srinagar (J&K) will have the jurisdiction to adjudicate upon the matter.

Sd/-

Registrar

Central University of Kashmir

Place: Srinagar

Date: 04.07.2016

Appendix I

(Letter to the Registrar Central University of Kashmir on the vendor's letterhead)

The Registrar,
Central University of Kashmir,
Srinagar.

Subject: Your tender notice for Supplying of Equipment for Research Projects to the University

Respected Sir,

With reference to the above tender notice, having examined and understood the terms and conditions forming part of the tender, we hereby enclose our offer for the supply of the following items as detailed in your above referred tender.

Item No. Item Description Make & Model

We further confirm that the offer is in conformity with the terms and conditions as mentioned in your above referred tender notice. We also understand that the Central University of Kashmir is not bound to accept the offer either in part or in full and that the Central University of Kashmir has the right to reject the offer in full or in part without assigning any reasons thereof.

We enclose Earnest Money Deposit for Rs. _____ in the form of Demand Draft drawn in favour of Central University of Kashmir Srinagar issued by _____ Bank, _____ Branch, and payable at Srinagar.

Yours faithfully,
Authorized Signatories (Name & Designation)
(Company Seal)

Date:
Place:

Appendix II A

Certificate on the company letter head from the vendor stating that the company has not been blacklisted by any government organization

To

The Registrar

Central University of Kashmir

Srinagar

This is certified that our firm namely M/s_____ has not been blacklisted by any Government Organization before submission of this tender document.

Yours faithfully, (Signature)

(Name & Designation) (Company Seal)

Date:

Place:

For and on behalf of M/s _____

Appendix III

Manufacturer's Authorization Form (MAF)

No. _____

Dated _____

The Registrar
Central University of Kashmir
Srinagar

Respected Sir,

Tender Reference _____

We _____ who are established and reputed manufacturers of _____ having factories at _____ and _____ do hereby authorize M/s _____ (Name and address of Agent/Dealer) to quote, negotiate and conclude the contract with you against the above NIT. Further we authorize M/s _____ to receive supply order, to make the supplies and to receive the payment on our behalf.

We hereby extend our full guarantee and warranty as per terms and conditions of the tender and the contract for the equipment and services offered against this NIT offer by the above firm.

Yours faithfully,

Authorized Signatories
(Name & Designation)

Date:

for and on behalf of M/s _____

(Name of manufacturer) (Company Seal)

Note: This letter of authority should be on the letterhead of the manufacturing concern and should be signed by a competent person of the manufacturer.

Appendix IV

Warranty Compliance Statement (Equipment for Research Projects)

The Registrar
Central University of Kashmir
Srinagar

Respected Sir,

Subject: Supplying of Equipment for Research Projects to the University

This bears reference to our Tender Ref. _____ Dated _____.

1. We agree to provide the Warranty as mentioned in Warranty Clause of the Terms and Conditions of the Tender.
2. We warrant that equipments to be supplied by us shall be brand new, free from all defects and faults in material, workmanship and manufacture and shall be of the highest grade and quality and consistent with the established standards for materials specification or samples if any, and shall operate properly. We shall be fully responsible for its efficient operation.
3. Further, during the period of warranty, we shall provide at our cost, necessary replacement so as to keep the equipments working.

Yours faithfully,

(Signature)
(Name & Designation) (Company Seal)
Date:
Place:

Appendix-V

Equipment for Research Projects with Specifications

S.No.	Item Name	Specification	Quantity
1	GPS	<p>Physical dimensions: 2.9" x 5.9" x 1.4" (7.48 x 14.96 x 3.63 cm) Display size, WxH: 2"W x 3.5"H (5.06 x 8.93 cm); 4" diag (10.2 cm) Display resolution, WxH: 272 x 480 pixels Display type: bright, transfective 65k color TFT, dual-orientation touchscreen; sunlight readable Touchscreen: Yes Weight: 11.7 oz (331 g) with included lithium-ion battery pack; 13.2 oz (375 g) with 3 AA batteries (not included) Battery: Rechargeable lithium-ion (included) or 3 AA batteries (not included); NiMH or Lithium recommended Battery life: up to 16 hours (lithium-ion); up to 22 hours (AA batteries) Water rating: IPX7 High-sensitivity receiver: Yes Camera: yes (8 megapixel with autofocus and 1080p/30fps video; LED flash; automatic geo-tagging) Barometric altimeter: Yes Electronic compass: yes Unit-to-unit transfer (shares data wirelessly with similar units): yes Built-in memory: 6 GB (With Worldwide Basemap); 3 GB (With TOPO U.S. 100K Maps) Automatic routing (turn by turn routing on roads): yes Geocaching-friendly: yes (paperless)</p>	01
2	Reichert-Jung Ultra-cut 701701 Ultra Microtome	<p>Micro Specimen Thickness Range 0 to 0.5 microns Ultra Specimen Thickness Range 0 to 0.14 microns Motorized Cutting Stroke with Adjustable Speed 0.1 to 90 mm/sec. Sectioning Window Adjustable 0.5 to 22mm Manual Sectioning Possible with Built In Handwheel AO Stereo Star Microscope with Zoom Factor 0.7 to 4.2X and 10X Eyepieces</p>	01
3	Multiparameter Water Quality Meter Kit 1	<p><u>Dissolved Oxygen:</u> Sensor Type: Polarographic or Galvanic (%) Range: 0 to 500% Accuracy: 0 to 200% \pm 2% of reading or 2% air saturation, whichever is greater 200% \pm 500% \pm 6% of reading Resolution: 1% or 0.1% air saturation (user selectable) Calibration: 1 point and zero <u>Temperature (Field rugged cables):</u> Range : -5 to 70°C Accuracy : \pm0.2°C Resolution: 0.1°C Units: °C, °F, K <u>Temperature (Lab-grade)</u> Range: -5 to 70°C Accuracy: \pm0.35°C Resolution : 0.1°C Units: °C, °F, K Depth: 4-meters submersion <u>Conductivity:</u> Sensor Type: Four electrode cell Range 0 to 200 mS/cm Accuracy : \pm0.5% of reading or 0.001 mS/cm, whichever is greater (4-m cable) \pm1% of reading or 0.001 mS/cm, whichever is greater (20-m cable) Resolution: 0.001 mS/cm to 0.1 mS/cm (range dependent) Units: μS, mS Calibration : 1 point</p>	01

	<p><u>Salinity:</u> Sensor Type: Calculated from conductivity and temperature Range: 0 to 70 ppt Accuracy: $\pm 1.0\%$ of reading or 0.1 ppt, whichever is greater Resolution: 0.01 ppt Units ppt, PS; Calibration: 1 point</p> <p><u>pH:</u> Sensor Type: Glass Combination Electrode; Range: 0 to 14 units; Accuracy: ± 0.1 units; Resolution: 0.01 units Units mV, pH units; Calibration : 1, 2, 3, 4, 5, or 6 point (user selec table); US, NIST or Custom Buffers</p> <p><u>ORP:</u> Sensor Type: Platinum button; Range: -1999 to +1999 mV ; Accuracy: ± 20 mV in redox standards; Resolution: 0.1 mV Units mV; Calibration : 1 point</p> <p><u>Ammonium:</u> Sensor Type: Ion Selective Electrode Range: 0 to 200 mg/L-N, 0 to 40°C Accuracy: $\pm 10\%$ of reading or 2 mg/L-N, whichever is greater Resolution: 0.1 mg/L Units mg/L-N, mV Calibration: 1, 2, or 3 point (user selectable) Depth 17-meters submersion</p> <p><u>Nitrate:</u> Sensor Type: Ion Selective Electrode Range: 0 to 200 mg/L-N, 0 to 40°C Accuracy: $\pm 10\%$ of reading or 2 mg/L-N, whichever is greater Resolution: 0.1 mg/L Units mg/L-N, mV Calibration: 1, 2, or 3 point (user selectable) Depth 17-meters submersion</p> <p><u>Chloride:</u> Sensor Type: Ion Selective Electrode Range: 0 to 1000 mg/L, 0 to 40°C Accuracy: $\pm 15\%$ of reading or 5 mg/L, whichever is greater Resolution: 0.1 mg/L Units mg/L-Cl-, mV Calibration: 1, 2, or 3 point (user selectable) Depth 17-meters submersion</p> <p><u>Total Dissolved Solids:</u> Sensor Type: Calculated from conductivity and temperature Range: 0 to 100 g/L Cal constant range 0.30 to 1.00 (0.64 default) Resolution: 0.001, 0.01, 0.1g/L Units kg/L, g/L</p> <p><u>Barometer:</u> Sensor Type: Piezoresistive Range: 375 to 825 mmHg Accuracy: ± 3 mmHg within $\pm 10^\circ\text{C}$ from calibration point Resolution: 0.1 mmHg Units mmHg, inHg, mbar, psi, kPa, ATM Calibration: 1 point</p>	
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The specifications mentioned above are only 'indicative' and represent minimum requirement.

Appendix-VII

Financial Bid

S.No.	Item Name	Specification	Make	Unit	Rate Quoted
1	GPS	<p>Physical dimensions: 2.9" x 5.9" x 1.4" (7.48 x 14.96 x 3.63 cm)</p> <p>Display size, WxH: 2"W x 3.5"H (5.06 x 8.93 cm); 4" diag (10.2 cm)</p> <p>Display resolution, WxH: 272 x 480 pixels</p> <p>Display type: bright, transfective 65k color TFT, dual-orientation touchscreen; sunlight readable</p> <p>Touchscreen: Yes</p> <p>Weight: 11.7 oz (331 g) with included lithium-ion battery pack; 13.2 oz (375 g) with 3 AA batteries (not included)</p> <p>Battery: Rechargeable lithium-ion (included) or 3 AA batteries (not included); NiMH or Lithium recommended</p> <p>Battery life: up to 16 hours (lithium-ion); up to 22 hours (AA batteries)</p> <p>Water rating: IPX7</p> <p>High-sensitivity receiver: Yes</p> <p>Camera: yes (8 megapixel with autofocus and 1080p/30fps video; LED flash; automatic geo-tagging)</p> <p>Barometric altimeter: Yes</p> <p>Electronic compass: yes</p> <p>Unit-to-unit transfer (shares data wirelessly with similar units): yes</p> <p>Built-in memory: 6 GB (With Worldwide Basemap); 3 GB (With TOPO U.S. 100K Maps)</p> <p>Automatic routing (turn by turn routing on roads): yes</p> <p>Geocaching-friendly: yes (paperless)</p>			
2	Reichert-Jung Ultra-cut 701701 Ultra Microtome	<p>Micro Specimen Thickness Range 0 to 0.5 microns</p> <p>Ultra Specimen Thickness Range 0 to 0.14 microns</p> <p>Motorized Cutting Stroke with Adjustable Speed 0.1 to 90 mm/sec.</p> <p>Sectioning Window Adjustable 0.5 to 22mm</p> <p>Manual Sectioning Possible with Built In Handwheel</p> <p>AO Stereo Star Microscope with Zoom Factor 0.7 to 4.2X and 10X Eyepieces</p>			
3	Multiparameter Water Quality Meter Kit 1	<p><u>Dissolved Oxygen:</u></p> <p>Sensor Type: Polarographic or Galvanic (%)</p> <p>Range 0 to 500% Accuracy 0 to 200% \pm 2% of reading or 2% air saturation, whichever is greater 200% \pm 6% of reading</p> <p>Resolution: 1% or 0.1% air saturation (user selectable)</p> <p>Calibration: 1 point and zero</p> <p><u>Temperature (Field rugged cables):</u></p> <p>Range :--5 to 70°C</p>			

		<p>Accuracy : $\pm 0.2^{\circ}\text{C}$ Resolution: 0.1°C Units: $^{\circ}\text{C}$, $^{\circ}\text{F}$, K</p> <p><u>Temperature (Lab-grade)</u> Range --5 to 70°C Accuracy: $\pm 0.35^{\circ}\text{C}$ Resolution : 0.1°C Units $^{\circ}\text{C}$, $^{\circ}\text{F}$, K Depth: 4-meters submersion</p> <p><u>Conductivity:</u> Sensor Type: Four electrode cell Range 0 to 200 mS/cm Accuracy : $\pm 0.5\%$ of reading or 0.001 mS/cm, whichever is greater (4-m cable) $\pm 1\%$ of reading or 0.001 mS/cm, whichever is greater (20-m cable) Resolution: 0.001 mS/cm to 0.1 mS/cm (range dependent) Units: μS, mS Calibration : 1 point</p> <p><u>Salinity:</u> Sensor Type Calculated from conductivity and temperature Range: 0 to 70 ppt Accuracy: $\pm 1.0\%$ of reading or 0.1 ppt, whichever is greater Resolution: 0.01 ppt Units ppt, PS; Calibration: 1 point</p> <p><u>pH:</u> Sensor Type: Glass Combination Electrode; Range: 0 to 14 units; Accuracy: ± 0.1 units; Resolution: 0.01 units Units mV, pH units; Calibration ; 1, 2, 3, 4, 5, or 6 point (user selec table); US, NIST or Custom Buffers</p> <p><u>ORP:</u> Sensor Type: Platinum button; Range: --1999 to +1999 mV ; Accuracy: ± 20 mV in redox standards; Resolution: 0.1 mV Units mV; Calibration : 1 point</p> <p><u>Ammonium:</u> Sensor Type: Ion Selective Electrode Range 0 to 200 mg/L-N, 0 to 40°C Accuracy $\pm 10\%$ of reading or 2 mg/L-N, whichever is greater Resolution 0.1 mg/L Units mg/L-N, mV Calibration 1, 2, or 3 point (user selectable) Depth 17-meters submersion</p> <p><u>Nitrate:</u> Sensor Type Ion Selective Electrode Range 0 to 200 mg/L-N, 0 to 40°C Accuracy $\pm 10\%$ of reading or 2 mg/L-N, whichever is greater Resolution 0.1 mg/L Units mg/L-N, mV Calibration 1, 2, or 3 point (user selectable) Depth 17-meters submersion</p> <p><u>Chloride:</u> Sensor Type Ion Selective Electrode Range 0 to 1000 mg/L, 0 to 40°C Accuracy $\pm 15\%$ of reading or 5 mg/L, whichever is greater Resolution 0.1 mg/L Units mg/L-Cl-, mV Calibration 1, 2, or 3 point (user selectable) Depth 17-meters submersion</p> <p><u>Total Dissolved Solids:</u> Sensor Type Calculated from conductivity and temperature Range 0 to 100 g/L Cal</p>			
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		constant range 0.30 to 1.00 (0.64 default) Resolution 0.001, 0.01, 0.1g/L Units kg/L, g/L Barometer: Sensor Type Piezoresistive Range 375 to 825 mmHg Accuracy ± 3 mmHg within $\pm 10^{\circ}\text{C}$ from calibration point Resolution 0.1 mmHg Units mmHg, inHg, mbar, psi, kPa, ATM Calibration 1 point			
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I certify that the rates quoted above are inclusive of all taxes (CST/GST/VAT), levies, freight, insurance, forwarding, transportation, Installation & Entry-Tax(State of J&K) etc.

Name & Signature of the authorized
person on behalf of the firm with Seal

Name:
Designation:
Contact No: