



**DOON UNIVERSITY**  
 Mothrowala Road, Kedarpur, Dehradun  
 Ph. 0135-2533105

**TENDER NOTICE**

**002/DU/DST/2016/ 12 Aug 2016**

Doon University invites sealed quotation in two bid form for supply of TOC Analyzer, EC/OC Analyzer, and Particle size Analyzer Equipments under DST FIST Scheme.

Tender documents can be obtained from Doon University on payment of Rs 1145/- (Inclusive of taxes). The Tender documents may also be downloaded from Doon University website [www.doonuniversity.org](http://www.doonuniversity.org) and submitted along with a demand draft of Rs 1145/- in favour of Doon University. The Tender should reach on or before 12.09.2016 by 12:00 hrs which will be opened on the same day at 15:30 hrs in presence of the tenders or their representatives.

NOTE: Those firms who have submitted the bids earlier, they are required to submit the letter of extension of validity for Tender bid and EMD.

Store & Purchase office

WWW.INDIANEXPRESS.COM  
 THE INDIAN EXPRESS, SATURDAY, AUGUST 13, 2016

**29**

**Central Warehousing Corporation**  
 A Govt. of India Enterprise  
 Head Office: 110, Connaught Place, New Delhi  
 Local Office: 110, Connaught Place, New Delhi

No. CWC/CC-AD/Engg/Du/Maze Dryer/20-16/17/872 DT: 12.08.2016

**NOTICE INVITING TENDERS FOR PRESS (ONLY THROUGH E-TENDERING)**

S. NO.	DESCRIPTION	QTY	COST OF BID DOCUMENT	LAST DATE OF SUBMISSION OF TENDER, EMD, COST OF TENDER AND OTHER DOCUMENT	DATE OF OPENING OF TECHNICAL BID.
1.	Design, Fabrication, Supply, Assembling, Installation, Testing and Commissioning of one or more than one units of maize dryer for 20hr net output at Central Warehouse Khagata (Bihar)-India	One Job	1500/-	15.00 Hrs on or before 06.09.2016	15.30 Hrs on 06.09.2016

Detailed Tender Notice along with conditions of contract and Notice Inviting e-Tender may be seen and downloaded from the Website [www.tenderzard.com/CWC](http://www.tenderzard.com/CWC) or [www.cwccarc.in](http://www.cwccarc.in) or [www.tenderhome.com](http://www.tenderhome.com)

SUPERINTENDING ENGINEER

**SHREE SHRI WATER TREATMENT SYSTEMS**  
 Water Treatment Systems  
 Bharat Heavy Electricals Limited  
 Ramachandrapuram, Hyderabad-500032  
 Project Engineering & Systems Division Ph. 040-2392124-2392129,2392188

**OPEN TENDER**

Tenders are invited through sections made from eligible suppliers for the following package:

Sl. No.	Tender No.	Item Description
1	NET_28503	Supply and E&C of Cooling Water Treatment System for TATA/MTI TATA STEEL, BTG, Jamshedpur.

Bids shall be submitted through e-Procurement portal <http://www.bidsystems.org/india> of M/s. Muzone Systems Limited who are the website provider. Detailed scope of work shall be as per technical specification and other details including Tender Documents which are to be downloaded and posted on <http://www.bidsystems.org/india> [www.bidsystems.org/india](http://www.bidsystems.org/india) [www.cwccarc.in](http://www.cwccarc.in). Cost of Tender Document is Rs. 2000/- It is advised that vendors may regularly visit above websites as all corrigenda, addenda amendments, time extensions, clarifications etc. in the tender shall be indicated in above referred websites only. Last date and time for submission is 03.09.2016 i.e. 12.00 hrs.

**Central Public Works Department**  
 Notice Inviting e-Tender

The Executive Engineer(E), NISM Project Electrical Division, CPWD, 7<sup>th</sup> floor, CGO Complex, CBD Belapur, New Mumbai-400014. (Telephone No.022-27551058) Invited on behalf of the

**NORTHERN RAILWAY**

**TENDER NOTICE**

The Dy. Chief Engineer/Const./Northern Railway/State Engrg Road, New Delhi invites sealed open tenders for the under noted works - 1. Name of work and its location: Hiring of 02 (Two) Non-AC Vehicle such as Jeep, Gypsy, Tata Same type of vehicle on monthly basis for a period of 03 (Three) years for the officers working in the unit of Dy. Chief Engineer/Const./Northern Railway, State Engrg Road, New Delhi. 2. Completion Period: 03 (Three) years from the date of issue of acceptance letter. 3. Approx. cost of work: Rs. 30.50 lakh (Rupees Thirty lakh fifty thousand only). 4. Earnest Money to be deposited: Rs.51,000/- (Rupees Fifty one thousand only). 5. Date, Time for submission of tender and opening of tender: Tenders will be received in the office of Chief Administrative Officer/Const., Northern Railway, Kachhrawa Gate, Delhi upto 15.00 hrs. on 16.09.2016 and will be opened at 13.30 hrs. 6. Address from where the tender form can be purchased: Tender documents can be purchased from office of Chief Administrative Officer/Const., N. Ry., Kachhrawa Gate, Delhi-6 & Dy. Chief Engineer/Const., N.Ry., State Engrg Road, New Delhi-55 from 01.09.2016 to 15.09.2016 upto 15.00 hrs. or can be downloaded from [www.indianrailways.gov.in](http://www.indianrailways.gov.in) during this period. The detailed tender notice is also available in the website or can also be seen on the Notice Board of the above office for further details. No. 229-Accr/11192-AH/VE/RS Dated: 12.08.2016 2644/16

**SERVING CUSTOMERS WITH A SMILE**

**CIVIL SURGEON, CIVIL HOSPITAL, FARIDABAD**

**DOON UNIVERSITY,**  
 DEHRADUN  
 Mothrowala Road, Kedarpur, Dehradun  
 Ph: 0135-2533105

**SHORT TENDER NOTICE**  
 002/DU/DST/2016

Doon University invites sealed quotation in two bid form for supply of TOC Analyzer, EC/OC Analyzer, and Particle Size Analyzer Equipments under DST FIST Scheme. For details please visit doon university website [www.doonuniversity.org](http://www.doonuniversity.org).

Note:- Those firms who have submitted the bids earlier, they are required to submit the letter of extension of validity for tender & EMD.

Store & Purchase officer.

**CENTRAL PUBLIC WORKS DEPARTMENT**  
 NOTICE INVITING e-TENDERS

The Executive Engineer (Elect.), Chandigarh Central Electrical Division, Central Public Works Department, Chandigarh (Phone No. 0172-2747655) invites on behalf of President of India online item rate tenders for following work:-

1) NIT No. 52/2016-17/ CEED/ Chandigarh, Name of Work - RMO water, drinking water supply pump set, rain water disposal pump set at CP Building, Sector 17, Chandigarh (SH: Operation & Maintenance of water system and water supply system) - Estimated Cost - Rs. 440872/-, Earnest Money - Rs. 12817/- & Time of Completion - 12 Months, Last Time and Date of Submission of Bid - 22/08/2016 upto

**1. NOTICE INVITING TENDER (NIT) (Tender Notice No. -002/2016 Dated 12<sup>th</sup> Aug 2016) -Retender**

DOON UNIVERSITY, Dehradun, Uttarakhand India invites *sealed* offers in two bid form (Technical and Financial) from manufactures (or their 'authorised' dealers by submitting letters/certificates, in original, from the manufacturers that they have been authorized to quote in response to *this* NIT) for the supply, installation, and successful commissioning of the following Laboratory Equipment (s) at School of Environment and Natural Resources (SENR) DOON UNIVERSITY, Dehradun.

Sl. NO.	Particulars of item	Qty.	EMD (Rs.)	Tender Form fees
1	TOC Analyser	One	40000	1000+ 14.5% VAT
2	EC/OC analyser	One	60000	1000+ 14.5% VAT
3	Particle size analyser	One	40000	1000+ 14.5% VAT

**GENERAL CONDITIONS:**

- The tender documents containing detailed specifications of items, terms and conditions, etc. can be obtained from Deputy Registrar, DOON UNIVERSITY, Dehradun, on non-refundable payment of Rs. Fee mentioned against instruments name with 14.5% VAT/- for each category in the form of crossed Demand Draft/pay order from nationalised bank in favor of DOON UNIVERSITY, Dehradun payable at Dehradun. The tender documents can also be downloaded from our website: [www.doonuniversity.org](http://www.doonuniversity.org) However, the demand draft towards the cost of tender document as prescribed above will have to be enclosed along with the tender document while submitting the same. In case the offer is not accompanied with the valid demand draft for the cost of the tender document as detailed above, the tender will be summarily rejected.
- Last date for submission of the tender is **-12.09.2016** (1200 hrs) and the tender will be opened on same day at 15.00 hrs. In case the date of opening is declared a holiday on any account, then the date shall be substituted by the next working day.
- Tender should be addressed to the Registrar, DOON UNIVERSITY, Dehradun 248001 (U.K.), indicating on the top of the envelope: **Supply of Lab Equipment SENR – FIST DST Programme, ———**
- The cost of imported instruments is to be quoted preferably in foreign currency by the principals of the Indian Agency, while the cost of indigenous instruments is to be quoted in Indian Rupees by the Indian agency/manufacturer.
- The DOON UNIVERSITY, Dehradun reserves the right to either cancel the tender or reject any or all the tenders without assigning any reason thereof.
- Tenders complete in all respects should be sent by registered post which should reach DOON UNIVERSITY, Dehradun before the stipulated date or may be deposited personally in the Tender Box kept in the office of Deputy Registrar, DOON UNIVERSITY, Dehradun 248001 (U.K.) before scheduled time.

**IMPORTANT DATES & TIME**

- **Last Date & Time For Submission: 12.09.2016** (1200 hrs)
- **Date/Time of Opening of Bids : 12.09.2016** (15.00 Hrs.)
- **Venue of Bid Opening at DOON UNIVERSITY, Dehradun: Conference Hall (First Floor) Admin Building**

**NOTE:**

**Please fill & enclose the Brief Summary of Quotation & Checklist for Bid as provided below (Performa I &II)**

The Bids will be **opened** in the presence of representatives of tenderers, if any. Request for postponement will not be entertained. Fax/e-mail bids will not be accepted. Late/Delayed received tenders shall not be opened.

**BRIEF SUMMARY OF QUOTATION AND CHECKLIST (Not For Evaluation/Comparison Purpose) (Please Fill It Up)**

**Performa I: BRIEF SUMMARY OF QUOTATION (Quotation: Ref. No.: Date: )**

S.No	Particulars	Details
01	Main Item Model NUMBER	
02	Delivery Time (Weeks/Months)	
03	Warranty (Months/Years)	
04	Validity of Quotation (Days/Months)	
05	Country of Origin (product)	
06	Payment Terms( <i>Conditional Payment Terms Will NOT Be Accepted</i> )	

*Signature with Date and seal of company stamp*

**Performa II : CHECKLIST FOR BID/TENDER SUBMISSION** The following check-list must be filled in and submitted with the bid document:

**Pre-qualification Bid**

1. Was the bid document issued to you?	Yes/No
2. Have you attached the techno commercial unpriced bid form duly filled in appropriately ?	Yes/No

3. Have you attached a copy of the last audited balance sheet of your firm	Yes/No
4. Have you attached the details of the income tax clearance certificate, proof of Central/State sales tax registration certificate	Yes/No
5. Have you attached the copies of relevant work orders from Govt. Deptt/PSUs and Central Autonomous Bodies.	Yes/No
6. EMD: Have you submitted EMD asked for-	Yes/No
7. Have you submitted samples of all items indicated in the respective schedule of requirements	Yes/No
8. Have you enclosed the schedule of requirement indicating the make offered without indicating the pricing components along with the techno-commercial unpriced bid	Yes/No
9. Have you submitted the bids both techno commercial unpriced and priced bid separately for each tender?	Yes/No
10. Have you enclosed the statement of deviations from financial terms and conditions, if any?	Yes/No

**Price Bid:**

1. Have you signed and attached the priced bid form.	Yes/No
2. Have you attached the schedule of requirements duly priced	Yes/No

*Signature with Date and seal of company stamp*

## 2. INSTRUCTION TO BIDDERS (ITB)

### A. INTRODUCTION

**1. Eligible Bidders:** This Invitation for Bids is open to all manufacturers or their dealers specifically authorized by the manufacturers to quote on their behalf for this tender as per manufacturer's authorization form and Indian agents of foreign principals, if any.

**2. Cost of Bidding:** The Bidder shall bear all costs associated with the preparation and submission of its bid, and "the Purchaser", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

### B. THE BIDDING DOCUMENTS

**3 Cost of Bid Document:** The tender documents containing detailed specifications of items, terms and conditions, etc. can be obtained from DR Section, or website DOON UNIVERSITY, Dehradun, on non-refundable payment of Rs. **Mentioned on first page** against instruments plus 14.5% of service tax, for each category in the form of crossed Demand Draft/pay order/ cash deposition in favour of DOON UNIVERSITY, Dehradun, up to **12.09.2016** by 12.00. However, the demand draft towards the cost of tender document as prescribed above will have to be enclosed along with the tender document while submitting the same. In case the offer is not accompanied with the valid demand draft for the cost of the tender document as detailed above, the tender will be summarily rejected.

### 4 Contents of Bid Document

The goods required, bidding procedures and contract terms are prescribed in this Bid Document which includes the following:

1. Notice Inviting Tender (NIT)
2. Instructions to Bidder (ITB)
3. General Conditions of Contract and Restrictions(GCC&R)
4. Special Conditions of Contract (SCC)
5. Forms (Bid Form I, Manufacturer's Authorisation Form II, Bidder's Performance Statement Form III, Service Support Details IV, Deviation Statement Form (ITB, GCC, SCC) V, Technical Compliance Statement Form 6, Performance Security Form 7, Qualification Requirements 8)IV
6. Technical Specifications V

The Bidder is expected to examine all instructions, forms, terms (ITB/GCC/SCC etc.), and specifications in the bid documents. Failure to furnish all information required by the bid documents or submission of a bid not substantially responsive shall result in rejection of the bid.

### 5 Amendments to Bid Document

- At any time prior to the deadline for submission of bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the Bid Document by informed amendment. Such amendments shall form an integral part of bid documents and it shall amount to an amendment of relevant clauses of the Bid Document, including deadline for submission of bids.

### C. PREPARATION OF BIDS

**6 Language of Bid:** The Bid prepared by the Bidder and all correspondence and documents relating to the bid exchanged by the bidder and the purchaser shall be written in English language.

### 7 Documents Comprising the Bid

The bid is required to be submitted in **two parts**. One part is the **Technical Bid** and the other part is the **Financial/Price Bid**.

The **Technical Bid** prepared by the Bidder shall include the following without indicating the price in the Bid Form.

- Bid Security/EMD as specified in the NIT.
- Tender Form fee in form of demand draft or copy of receipt

- T&C Deviation Statement Form;
- Technical Specification Compliance Form;
- Manufacturer's Authorization Form.
- Documentary evidence establishing that the bidder is eligible to bid and is qualified to perform the contract if its bid is accepted as per qualification requirements/criteria.
- Bid Form.
- The Comprehensive Annual Maintenance Contract (CAMC) terms & conditions detailing the exclusions, if any and the estimated life of the equipment offered.
- If the demonstration of the goods/equipment is deemed essential as per the technical requirements then confirmation reflecting willingness to arrange demonstration of the equipment offered free of charge at DOON UNIVERSITY, Dehradun or any other location on a mutually agreeable date, at the expenses of the bidder, prior to opening of priced bid to ascertain conformity with the tendered specifications.

**The Price /Financial Bid** shall comprise the technical bid with price of the equipment indicated in the bid form. Conditional Bids will not be accepted

**NOTE: THE TWO BIDS (BOTH TECHNO COMMERCIAL UNPRICED BID) ALONG WITH EARNEST MONEY DEPOSIT (EMD) AND THE PRICED BID SHOULD BE SUBMITTED SEPARATELY FOR EACH TENDER'S Instruments.**

### **8 Bid Prices**

The Bidder shall indicate the unit price and total bid prices of the goods/equipment proposed to be supplied under the order and enclose it with the bid.

8.1 Prices indicated shall be entered separately in the following manner

#### **For Indigenous Equipments:**

(i) The price of the good, quoted (ex-works, ex-factory, ex-showroom, as applicable), including all duties and sales and other taxes already paid or payable

(ii) **Taxes:** University is registered with Department of Scientific & Industrial Research (DSIR) for availing custom duty and central excise duty payment exemption as PFRI. **Hence Excise Duty, if any, should be shown separately.** Please mention the applicable taxes (VAT/CST/Service) clearly. However, being R&D Organization Concessional Sales Tax Forms if any can be issued, if it is applicable in your State from where the material is being supplied. If there is no explicit mention of taxes in your offer then quoted price will be deemed inclusive of such taxes. **No other charges except those mentioned clearly in the quotation will be paid.**

(iii) Rates should be quoted FOR at DOON UNIVERSITY, Dehradun inclusive of packing, forwarding, installation and commissioning charges etc.

#### **For Imported Equipments:**

(i) The price of the goods/ equipment, quoted FOB/FCA port of shipment. Please note that all FCA orders will be on FCA (International Carrier) INCOTERMS 2000 basis and as such Export Packing, Loading Charges, Inland Freight etc. in the shipper country will have to be paid by the Supplier. Items as per the purchase order are to be duly cleared by supplier for export in shipping country.

(ii) The price of goods/equipment may also be quoted separately on CIF/CIP New Delhi.

(iii) University is registered with Department of Scientific & Industrial Research (DSIR) for availing custom duty and central excise duty payment exemption as PFRI, **hence Excise Duty and Customs Duty, if any, should be shown separately.**

(iv) Prices quoted by the bidder shall remain fixed during the entire period of contract and shall not be subject to variation on any account. A bid submitted with an adjustable price quotation will be treated as non-responsive and rejected.

### **9 Bid Currencies**

Prices shall be quoted in Indian Rupees only. In case of direct import the prices may be indicated in the foreign currency. The University may, at its discretion, arrive at approximate Rupee equivalent on the basis of **exchange rate on the date of opening of price bid.**

### **10 Documents Establishing Goods/Equipment Eligibility and Conformity to Bid Document**

The documentary evidence of the goods and services eligibility shall consist of a statement on the country of origin of the goods and services offered which shall be confirmed by a certificate of origin at the time of shipment.

Specifications are basic essence of the equipment. It must be ensured that the offers are strictly as per our specifications. At the same time it must also be kept in mind that **merely copying our specifications in their quotation shall not make firms eligible for consideration.** The documentary evidence of conformity of the equipments and services to the Bid Document may be in the form of original literature, drawings and data, and shall consist of:

(i) A detailed description of the essential technical and performance characteristics of the equipments;

(ii) A list giving full particulars, including available sources and current prices, of spare parts, special tools, accessories etc., necessary for the proper and continuing functioning of the equipments for a period of **two years**, following commencement of the use of the goods by the Purchaser;

### **11 Bid Security**

The Bidder shall furnish, as part of its bid, a bid security mentioned in Notice Inviting Tender.

## **12 Period of Validity of Bids**

- Bids shall remain valid for 180 days after the date of bid opening prescribed by the Purchaser. A bid valid for a shorter period may be rejected by the Purchaser as non-responsive.
- In exceptional circumstances, the Purchaser may solicit the Bidder's consent to an extension of the period of validity.

**13 Format and Signing of Bid:** The Bidder shall submit the bids in a single envelopes. The original and all copies of the bid shall be typed and shall be signed and stamped (company seal) by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract.

## **D. SUBMISSION OF BIDS**

**14.1 Sealing and Marking of Bids:** The bidder shall seal the Technical Bid and the Price/Financial bid in two separate envelopes duly marked as "Technical Bid" and "Price/Financial Bid" respectively.

**15 Deadline for Submission of Bids:** 12<sup>th</sup> September 2016 (1200 hrs)

**16 Late Bids:** will be rejected and/or returned to the Bidder.

## **E. OPENING AND EVALUATION OF BIDS**

**17 Opening of Bids by the Purchaser:** The Purchaser will open all Technical Bids, in the presence of Bidders' representatives who choose to attend, as per the schedule given in invitation to bids. **First the Technical Bid will be opened and on the basis of technical evaluation,** the Price bid will be opened only after fulfilling the requirement of technical bid.

**18 Clarification of Bids:** To assist in the examination, evaluation and comparison of bids, the Purchaser may, at its discretion ask the bidder for any clarification(s) of its bid.

**19 Preliminary Examination:** The Purchaser will examine the bids to determine whether they are complete, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order. Arithmetical errors in the priced bids will be rectified on the following basis.

**20 Conversions to Single Currency:** To facilitate evaluation and comparison, the Purchaser will convert all bid prices expressed in the amounts in various currencies in which the bid prices are payable to Indian Rupees at the selling exchange rate established by any bank in India as notified in the Newspapers/banks website on the **date of Price/Financial Bid opening.**

### **21 Evaluation & Comparison of Bids**

The bids which have been found to be responsive the evaluation & comparison shall be made as under:

#### **(i) Indigenous Offers**

The final landing cost of each item after all discounts, freight, forwarding, insurance, taxes etc. shall be the basis of evaluation. The quotations would be evaluated separately for each item.

#### **(ii) Imported Offers**

The FOB/FCA price shall be the basis of evaluation for each item.

#### **(iii) Imported Vs. Indigenous Offers**

The final landing cost of each item taking into account, freight, forwarding, insurance, taxes etc. (CIF/CIP with customs clearance charges, Bank/LC charges, transportation up to DOON UNIVERSITY, Dehradun as per available records with DOON UNIVERSITY, Dehradun for imported goods) shall be the basis of evaluation. Conditional tenders/discounts etc. shall not be accepted.

**22 Contacting the Purchaser:** No Bidder shall contact or attempt to contact the Purchaser or anyone related to the Purchaser on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded. Any effort by a Bidder to influence the Purchaser in its decisions on bid evaluation, bid comparison or contract award may result in rejection of the Bidder's bid.

**23 Post Qualifications:** In the absence of pre-qualification, the Purchaser will determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated responsive bid is qualified to perform the contract satisfactorily. The determination will take into account the Bidder's financial, technical and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, as well as such other information as the Purchaser deems necessary and appropriate. An affirmative determination will be a prerequisite for award of the contract to the Bidder. A negative determination will result in rejection of the Bidder's bid.

**24 Award Criteria:** The Purchaser will award the contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the contract satisfactorily.

**25 Purchaser's Right to Vary Quantities at Time of Award:** The Purchaser reserves the right at the time of Contract award to increase or decrease the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.

**26 Purchaser's Right To Accept Any Bid And To Reject Any Or All Bids:** The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or bidders or any obligation to inform the affected Bidder or bidders of the grounds for the Purchaser's action.

**27 Notification of Award:** Prior to the expiration of the period of bid validity, the Purchaser will notify the successful bidder in writing by registered letter or e mail/fax that the bid has been accepted by way of a Purchase Order. Upon the successful Bidder's furnishing of performance security, the Purchaser will promptly notify each unsuccessful Bidder and will discharge its bid security.

### 3. GENERAL CONDITIONS OF CONTRACT AND RESTRICTIONS (GCC&R)

#### 1 Definitions

1.1 In this Contract, the following terms shall be interpreted as indicated:

- (i) "The Goods" means all the equipment, machinery, and/or other materials, which the Supplier is required to supply to the Purchaser under the Contract;
- (ii) "Services" means services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training and other obligations of the Supplier covered under the Contract;
- (iii) "GCC" mean the General Conditions of Contract contained in this section.
- (iv) "SCC" means the Special Conditions of Contract.
- (v) "The Purchaser" means the organization purchasing the Goods i.e DOON UNIVERSITY, Dehradun.
- (vi) "The Purchaser's country" is "India".
- (vii) "The Supplier" means the individual or firm supplying the Goods and Services under this Contract.

**2 Application:** These General Conditions shall apply to the extent that they are not superseded by provisions in other parts of the Contract.

**3 Standards:** The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standard appropriate to the Goods' country of origin and such standards shall be the latest issued by the concerned institution.

**4 Patent Rights:** The Supplier shall indemnify the Purchaser against all third-party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods or any part thereof in India.

**5 Submission of the bids:** All bids complete in every respect must reach this office within the last date and time of receipt of bid.

**6 Performance Security:** The Supplier shall furnish Performance Security to the Purchaser for an amount of 10% of the contract value, valid upto 60 days after the date of completion of performance obligations including warranty obligations.

**7 Inspections and Tests:** The Purchaser or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Purchaser.

**8 Packing:** The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract.

**9 Delivery and Documents:** Delivery of the goods should be made within a maximum of 08 weeks from the date of placement of purchase order.

**10 Insurance:** The Goods supplied under the Contract shall be fully insured in Indian Rupees against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in SCC.

**11 Incidental Services:** The supplier may be required to provide any or all of the following services,

- (i) Performance or supervision of the on-site assembly and/or start-up of the supplied Goods;
- (ii) Furnishing of tools required for assembly and/or maintenance of the supplied Goods;
- (iii) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods;
- (iv) Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract

**12 Spare Parts:** The Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

- (i) Such spare parts as the Purchaser may elect to purchase from the Supplier, providing that this election shall not relieve the Supplier of any warranty obligations under the Contract;
- (ii) In the event of termination of production of the spare parts:
- (iii) Advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and specifications of the spare parts, if requested.

**13 Warranty:** 13.1 The Supplier warrants that the Goods supplied under this Contract are new, unused, of the most recent or current models and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect arising from design, materials or workmanship (except when the design and/or material is required by the Purchaser's Specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination. **The warranty should be comprehensive and on site.**

13.2 This warranty shall remain valid for 24 months after the Goods or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the Contract.

13.3 The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall immediately within in 02 days arrange to repair or replace the defective goods or parts thereof free of cost at the ultimate destination. The Supplier shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever shall lie on the Purchaser for the replaced parts/goods thereafter. The period for correction of defects in the warranty period is 07 days. If the supplier having been notified fails to remedy the defects within 07 days, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expenses and without prejudice to any other rights, which the purchaser may have against the supplier under the contract.

**14 Payment:** The Payment shall be made by the Purchaser against delivery, inspection, successful installation, commissioning and acceptance of the equipment at DOON UNIVERSITY Dehradun in good condition and to the entire satisfaction of the Purchaser and on production of unconditional performance bank guarantee as specified in GCC.

**15 Assignment:** The Supplier shall not assign, in whole or in part, its obligations to perform under the Contract, except with the Purchaser's prior written consent.

**16 Penalty:** Subject to GCC, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as penalty, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the Percentage specified in SCC. Once the maximum is reached, the Purchaser may consider termination of the Contract pursuant to GCC.

#### **17 Terminations for Default**

17.1 The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:

(i) If the Supplier fails to deliver any or all of the Goods within the period(s) specified in the order, or within any extension thereof granted by the Purchaser; or

(ii) If the Supplier fails to perform any other obligation(s) under the Contract.

(iii) If the Supplier, in the judgment of the Purchaser has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.

**18 Termination for Insolvency:** The Purchaser may at any time terminate the Contract by giving written notice to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent.

**19 Force Majeure:** Notwithstanding the provisions of GCC, the Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

**20 Resolution of Disputes: 20.1** The Purchaser and the supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

**20.2** If, the Purchaser and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in the SCC. These mechanisms may include, but are not limited to, conciliation mediated by a third party, adjudication in an agreed national or international forum, and national or international arbitration.

**20.3** In case of Dispute or difference arising between the Purchaser and a supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, 1996.

**21 Applicable Law:** The contract shall be governed by the Law of Contract for the time being in force. The place of jurisdiction would be Dehradun (Uttarakhand) INDIA.

#### **4. SPECIAL CONDITIONS OF CONTRACT (SCC)**

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract.

**1 Manuals and Drawings:** Before the goods and equipments are taken over by the Purchaser, the Supplier shall supply operation and maintenance manuals. These shall be in such details as will enable the Purchaser to operate, maintain, adjust and repair all parts of the works as stated in the specifications. The Manuals shall be in the ruling language (English). Unless and otherwise agreed, the goods equipment shall not be considered to be completed for the purposes of taking over until such manuals and drawing have been supplied to the Purchaser.

**2. Insurance (GCC Clause 10):** For delivery of goods at the purchaser's premises, the insurance shall be obtained by the Supplier in an amount equal to 110% of the value of the goods from supplier place to final destination at DOON UNIVERSITY Dehradun on "All Risks" basis including War Risks and Strikes.

**3 Incidental services (GCC clause 11):** The incidental services also include: Furnishing of 01 set of detailed operations & maintenance manual.

**4 Warranty, free maintenance service & specific requirements (GCC Clause 13):** Warranty period shall be **24 months** from date of acceptance, installation and testing of Goods. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the contract. **The warranty should be comprehensive on site.**

- The Company should give the undertaking that the necessary components, spares, consumables or any other item required for the proper working of the equipment would be supplied for at least 10 years from the date of installation of the equipment.
- We would also like to run samples on quoted machine at the place of your choice to

**5 Penalty Clause (GCC Clause 16):** For delays: The applicable rate is 1% per week and the maximum deduction is 10% of the contract price.

**6 Supplier Integrity :** The Supplier is responsible for and obliged to conduct all contracted activities in accordance with the Contract using state of the art methods and economic principles and exercising all means available to achieve the performance specified in the contract.

**7 Training: (all charges inclusive):** The Supplier is required to train the designated Purchaser's technical and end user personnel to enable them to effectively operate the total equipment.

- On site basic training (5 working days) on operational aspect of instrument, usage of software for sample analysis at Doon University, Dehradun.

- One week advance training on application aspects, maintenance, trouble shooting etc. at Doon University, Dehradun.

**8. Additional information' s and support:**

1. Provide a list of at least 10 prominent academic institutions/universities (IITs, Central University), including government owned(ONGC etc) where particular equipment has been supplied and at least FIVE Certificates from these academic institutions regarding the quality of equipment supplied and after Sales Service.
2. The quotation should clearly specify the details of after Sales Service - whether it will be provided from Delhi or Dehradun and Terms and Conditions.
3. Indicate your Terms & Conditions for Annual Maintenance Contract, if required for a sophisticated equipment
4. Provision for two years onsite technical support on sophisticated instruments.
5. Ten years performance warrantee by bidder, ( that the system should be supportive by the vendors for next 10 years after installation with judicial affidavitive)
6. If desired companies/ bidders have to arrange complete demonstration of quoted instruments and analysis of samples in our campus. One year' s consumables and spares along with standards to be quoted by company
7. Suppliers of instruments may need to support in transferring instruments from one building to another building of Kedarpur campus in Dehradun. Transfer of instruments within one year will be free of cost. Bidders can mention the additional cost for technical support after one year in transferring the instrument.
8. *Quoting merely the lowest price does not confer any right to any bidder for award of supply order. The University's Purchase Committee, reserves the right to select the equipment any bid under the grounds of specification compliance, technologically advanced quality, proven performance track record, brand reputation, service backup support, additional warranty, offer of additional/special features, compatibility with existing system, training, etc.*

**9. REQUIREMENTS for a Bidder**

- 1 The Bidder should be a manufacturer or their dealer specifically authorized by the manufacturer to quote on their behalf for this tender as per manufacturer authorization form and Indian agents of foreign principals, if any who must have designed, manufactured, tested and supplied the equipment(s) similar to the type specified in the "Technical Specification". Such equipments must be of the most recent series/models incorporating the latest improvements in design. The models should be in successful operation for at least one year as on date of Bid Opening.
- 2 The bidder should have supplied at least one such system/equipment (Same model) to any prominent institutes (IITs, Central University)/PSUs/Autonomous bodies etc. The details should be incorporated in the performance statement form along with documentary evidence. If the instruments will be supplied first time in India then proof of supplying to some reputed Academic or R & D organizations in developed countries should be provided with the technical Bid.
- 3 If required, the bidder may be asked and should be willing to arrange demonstration of the equipment offered, free of charge at on a mutually agreeable place and date prior to opening of priced bids to ascertain their conformity with tendered specifications.
- 4 Details of service support facilities that would be provided after the warranty period should be submitted in the Service Support Details Form.
- 5 That, in the case of a Bidder not doing business in India, the Bidder is/or will be (if successful) represented by an Agent in India who shall be equipped and able to carry out the Supplier' s maintenance, repairs and spare parts, stocking obligations prescribed by the conditions of the contract.
- 6 That the Bidder will assume total responsibility for the fault-free operation of equipment, application software, if any, and maintenance during the warranty period and provide necessary maintenance services for five years after end of warranty period if required.
- 7 Bidders who meet the criteria given above are subject to be disqualified, if they have made untrue or false representation in the forms, statements and attachments submitted in proof of the qualification requirements or have a record of poor performance, not properly completing the contract, inordinate delays in completion or financial failure, etc.
- 8 Any additional bid participation criteria / eligibility conditions etc. mentioned in the Technical Specifications sheet will also form part of the Qualification Requirements along-with those mentioned in this chapter.

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Bid Form I: **Techno commercial unpriced Bid**  
 (On the letter head of the firm submitting the bid)  
 Tender No.....

To \_\_\_\_\_  
 The \_\_\_\_\_

Dear Sir,

1. I/We hereby offer to supply the items as listed in the schedule to this tender hereto/portion thereof as you may specify in the acceptance of Tender at the price given in the said Schedule and agree to hold this offer open for a period of 180 days from the date of opening of the tender. I/we shall be bound by a communication of acceptance issued by you.
2. I/We have understood the Instruction to bidders and Conditions of Contract in the form as enclosed with the invitation to the tender and have thoroughly examined the specifications quoted in the Schedule here to and



am/are fully aware of the nature of the goods required and my/our offer is to supply the goods strictly in accordance with the specifications and requirements.

3. A crossed Bank Draft in favors of the DOON University for Rs. ....(Rupees.....only) as Earnest Money is enclosed. The Draft is drawn on .....Bank payable at Dehradun

4. The following have been added to form part of this tender.

(a) Samples/ Brochures with detailed specification number of parts of items quoted for, as per instructions provided in the schedule of requirement.

(b) Schedule of requirements, quoting the make only duly signed and stamped. (without indicating price)

(c) Income Tax clearance certificate and PAN No.

(d) Copy of last audited balance sheet.

(e) Copy of Valid Central/State sales tax registration certificate.

(f ) Copy of relevant purchase orders executed during last two years for Govt. Deptts., PSUs & Central Autonomous bodies..

(g) Proof of manufacturing Unit, dealership certificate/general order suppliers .

(h) Statement of deviations from financial terms & conditions, if any.

(i) Any other enclosure. (Please give details)

5. We undertake to execute all orders which have been placed to meet emergent requirements on priority basis.

6. Certified that the bidder is:

A sole proprietorship firm and the person signing the bid document is the sole proprietor/constituted attorney of the sole proprietor, Or

A partnership firm, and the person signing the bid document is a partner of the firm and he has authority to refer to arbitration disputes concerning the business of the partnership by virtue of the partnership agreement/by virtue of general power of attorney. Or

A company and the person signing the document is the constituted attorney.

(NOTE: Delete whatever is not applicable. All corrections/deletions should invariable be duly attested by the person authorized to sign the bid document).

7. We do hereby undertake, that, until a formal notification of award, this bid, together with your written acceptance thereof shall constitute a binding contract between us.

Telephone: \_\_\_\_\_

FAX \_\_\_\_\_

E-mail \_\_\_\_\_

Company seal

Yours faithfully,

Signature of bidder)

Dated this day of \_

Address:.....

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**Bid Form II: (Priced Bid)** (On the letter head of the firm submitting the bid document)

To

The \_\_\_\_\_

Ref: Tender No ..... Dated-----

Sir,

Having examined the bidding documents and having submitted the techno commercial unpriced bid for the same, we, the undersigned, hereby submit the priced bid for supply of goods and services as per the schedule of requirements and in conformity with the said bidding documents.

We hereby offer to supply the Goods/Services at the prices and rates mentioned in the enclosed schedule of requirement.

We do hereby undertake that, in the event of acceptance of our bid, the supply of Goods/Services shall be made as stipulated in the schedule of requirement and that we shall perform all the incidental services.

The prices quoted are inclusive of all charges net F.O.R University. We enclose herewith the complete Financial Bid as required by you. This includes:

Price Schedule as per schedule of requirement.

Statement of deviations from financial terms and conditions.

We agree to abide by our offer for a period of 90 days from the date fixed for opening of the bid documents and that we shall remain bound by a communication of acceptance within that time.

We have carefully read and understood the terms and conditions of the bid document and we do hereby undertake to supply as per these terms and conditions. The Financial Deviations are only those mentioned in the statement of deviations from financial terms and conditions.

Certified that the bidder is:

A sole proprietorship firm and the person signing the bid document is the sole proprietor/ constituted attorney of sole proprietor,

Or

A partnership firm, and the person signing the bid document is a partner of the firm and he has authority to refer to arbitration disputes concerning the business of the partnership by virtue of the partnership agreement/by virtue of general power of attorney,

Or

A company and the person signing the bid document is the constituted attorney.

(NOTE: Delete whatever is not applicable. All corrections/deletions should invariably be duly attested by the person authorised to sign the bid document.)

We do hereby undertake, that, until a formal notification of award, this bid, together with your written acceptance thereof, shall constitute a binding contract between us.

Telephone: \_\_\_\_\_  
FAX \_\_\_\_\_  
E-mail \_\_\_\_\_  
Company seal

Yours faithfully,  
Signature of bidder)  
Dated this day of \_  
Address:.....

**Bid Form III**

**The Registrar**

**DOON UNIVERSITY Dehradun , 248001 (U.A.) India**

Sir,

Having examined the bidding document the receipt of which is hereby duly acknowledged, we the undersigned offer to supply and deliver \_\_\_\_\_(Description of equipments) in conformity with the said bidding documents for a sum or such other sums as may be ascertained from the bid.

We undertake that if our bid is accepted to deliver the goods in accordance with the delivery schedule specified. If our bid is accepted we will obtain the guarantee of the bank as specified in SCC for the due performance of the contract, in the form prescribed by your goodself.

We agree to abide by this bid for requisite period of time after the date fixed for bid opening as per the instructions to the bidders and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award shall constitute a binding contract between us.

Commissioning and gratuities, if any, paid or to be paid by us to the agents relating to this bid, and to contract executions if we are awarded the contract, are listed below:

Name and address Of agent	Amount in Rupees	Purpose of Commission

(if none, state "none" )

We understand that you are not bound to accept the lowest or any bid you may receive.

Dated this \_\_\_\_\_day of \_\_\_\_\_20\_\_\_\_\_  
Signature \_\_\_\_\_  
In the capacity of \_\_\_\_\_  
Duly authorized to sign the bid for and on behalf of \_\_\_\_\_

**MANUFACTURERS' AUTHORIZATION FORM**

**Form 4**

No. \_\_\_\_\_ Dated \_\_\_\_\_

**The Registrar,  
DOON UNIVERSITY Dehradun,  
248001 (U.A.) India**

Dear Sir:

We -----who are established and reputable manufacturers of having factories at -----(address of factory) do hereby authorize M/s (Name and address of Agent) to submit a bid, negotiate and receive the order from you against your tender enquiry.

No company or firm or individual other than -----M/s is authorized to bid, and conclude the contract in regard to this business.

We hereby extend our full guarantee and warranty as per Clause 15 of the General Conditions of Contract and Clause of the Special Conditions of Contract for the goods and services offered by the above firm.

Yours faithfully,  
(Name)  
(Name of manufacturers)

**Note:** This letter of authority should be on the **letterhead of the manufacturer** and should be signed by a person competent and having the power of attorney to bind the manufacturer. It should be included by the Bidder in its techno-commercial unpriced bid.

**DEVIATION STATEMENT FORM (ITB, GCC, SCC)**

**Form 5**

The following are the particulars of deviations (ITB, GCC, SCC Clauses) from the requirements of the tender document and specifications:

S.No	Clause	Deviation	Remarks (including Justification)

Place:

Date:

Signature and seal of the  
Manufacturer/Bidder

**NOTE:**

Where there is no deviation, the statement should be returned duly signed with an endorsement indicating "No Deviations" .

**TECHNCAL COMPLIANCE STATEMENT FORM**

**Form 6**

An item-by-item commentary on the Purchaser's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or a statement of deviations and exceptions to the provisions of the Technical Specifications.

ITEM NAME:			
S. No	Tender Specification	Bidders Specification	Deviation if any

(Technical literature/brochures/manuals should be attached along-with this format)

**Please note:**

1. Compliance/Deviation statement comparing the specifications of the quoted model to the required specifications. This statement should also give the page number(s) of the technical literature where the relevant specification is mentioned.
2. Bids must have supporting documents (technical literature or copies of relevant pages from the service manual or factory test data) for all the points noted above, failure regarding which may result in rejection of bid.

**Form 7**

**PERFORMANCE SECURITY FORM**

**The Registrar,  
DOON UNIVERSITY Dehradun,  
248001 (U.A.) India**

**WHEREAS**..... (Name of Supplier) Hereinafter called "the Supplier" has undertaken, in pursuance of Contract no..... dated,..... 200... to supply..... (Description of Goods and Services) hereinafter called "the Contract".

**AND WHEREAS** it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the Contract.

**AND WHEREAS** we have agreed to give the Supplier a Guarantee:

**THEREFORE WE** hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of ..... (Amount of the Guarantee in Words and Figures) and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limit of ..... (Amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the .....day of.....20.....

Signature and Seal of Guarantors  
(Complete Address/Contact Details with Tel./Fax/email etc)

Date

**List of Bid Documents and Requirements for Bidders attached Form 8**

1. List of prominent institute/ University where instruments have been supplied.
2. Name of University/ Institute with contact no of concern person where particular model has been installed.
3. Performance certificate from University
4. Certificate of Total turnover of the Company as required
5. Audited statement of account for the last 3 years
6. Certificates

**FORMAT OF BANK GUARANTEE FORM Form 9**

1. This guarantee should be furnished by a Nationalised Bank / scheduled Bank, authorised by RBI to issue a Bank Guarantee.
2. This bank guarantee should be furnished on stamp paper of Rs. 100/-
3. The stamp paper should have been purchased in the Name of the Bank executing the Guarantee.
4. In the case of foreign bidder the B.G may be furnished by an international reputed bank acceptable to the PURCHASER countersigned by any Nationalised / Scheduled Bank in India authorised by Reserve Bank of India.

Ref :..... DATE BANK GUARANTEE NO:

To  
Doon University  
Dehradun

Dear Sirs,

In accordance with your 'Invitation to Bid' under your Tender No:.....

M/S:..... herein after called the Contractor/supplier, with the following Directors on their Board of Directors / partners of the firm.

- 1.....
- 2.....
- 3.....
- 4.....

agrees for the contract/supplies. As an irrevocable Bank Guarantee for an amount of Rs.....(in words and figures) valid for ..... days from ..... is required to be submitted by the Contractor/Supplier which amount is liable to be forfeited by the purchaser in the event of 1) the withdrawal or revision of the offer by the Bidder as a condition within the validity period. (2) non-acceptance of the Letter of Intent / purchase order by the bidder when issued within the validity period. (3) failure to furnish the valid contract performance guarantee by the bidder within one month from the receipt of the purchase order and (4) on the happening of any contingencies mentioned in the bid documents such as .....

We, the ..... Bank at..... having our Head office at .....(Local address) Guarantee and undertake to pay immediately on first demand by DOON University the amount of.....(in figure and words) without any reservation., protest, demur and recourse.

Any such demand made by the Purchaser shall be conclusive and binding on the Bank irrespective of any dispute or difference raised by the purchaser.

The guarantee shall be irrevocable and shall remain valid up to ..... (This date should be 6 months after execution of the order). If any further extension of this guarantee is required the same shall be extended to such required period (not exceeding one year) on receiving instruction from

M/s.....on whose behalf this guarantee is issued.

In witness whereof the Bank, through its authorised officer has set its hand and stamp on this ..... day of ..... at .....

witness ..... (Signature)

*WITNESS*

(signature).....

Name in (Block letters)

Designation .....

(Staff Code No.).....

(Bank's common Seal)

Official address:

Attorney as per power of Attorney No.

Date :



**DOON UNIVERSITY, DEHRADUN**  
**School of Environment & Natural Resources**  
**SPECIFICATION of Equipments**

SP O/2 /1	<b>TOC analyser :</b>	<ol style="list-style-type: none"> <li>1. Direct measurement of total carbon, inorganic carbon and total organic carbon, NPOC in all types of aqueous samples, solid and gaseous samples and system upgradeable to optional Total Nitrogen samples analysis. <ul style="list-style-type: none"> <li>• PC Compatibility</li> <li>• Extreme wide range ~30 ppb to ~30000 ppm or better</li> <li>• Technique: 100% oxidation of hard to decompose insoluble and macromolecular organic compounds by combustion with interference free NDIR sensor.</li> <li>• Performance evaluation as per EN 1484Annexe C</li> <li>• Automatic multipoint calibration standards preparation from one standards</li> <li>• Automatic dilution of out of samples ranges with the help of automatic dilution function.</li> <li>• System having blank check program to automatically conduct blank check by creating and analyzing ultrapure water inside the system.</li> <li>• Measurement time 3-4 minutes</li> <li>• Reproducibility Precision: +/-1.5%</li> </ul> </li> <li>2. Solid sample combustion unit-1 (system having an separate attachment for the direct measurement of all type of solid samples and having separate furnace for provision to introduce and analyze liquid or solid samples without changing any hardware. Measurable items TC, IC, TOC., measurement range 0.1 to 30 mg carbon or better</li> <li>3. Gas Sampling injection Kit (for injecting gaseous samples and to measure TC, CO<sub>2</sub> and TOC of a Gas sample)</li> </ol>
SP O/2 /2	<b>EC/OC analyser</b>	<p style="text-align: center;"><b>OC/EC field Analyser</b></p> <p>Organic carbon and elemental carbon (OC-EC) analyser is for near real-time, in-situ measurement of carbon aerosol. This instrument provides refined information about particle origins, health exposures, and changes in air quality.</p> <p><b><u>Specifications:</u></b></p> <ul style="list-style-type: none"> <li>• Mode of operation: Semi-continuous</li> <li>• Detection method: Non-Dispersive IR</li> <li>• Laser Correction: Using temperature stabilized diode laser</li> <li>• Analysis profiles are easily selectable to match NIOSH,IMPROVEA, Fast TOC with optical EC (BC), STN or custom applications.</li> <li>• 16Bit data system with embedded CPU</li> <li>• Time resolution as small as 30 minutes.</li> </ul> <p><b><u>Sensitivity:</u></b></p> <p><b><u>i. OC</u></b> – 0.5 ugC/m<sup>3</sup> total organic carbon for a 30 minute sample at 8 lpm (minimum).</p> <p><b><u>ii. EC</u></b></p> <ol style="list-style-type: none"> <li>1. <b><u>Thermal</u></b> - 0.5 ugC/m<sup>3</sup> total elemental carbon for a 30 minute sample at 8 lpm (minimum).</li> <li>2. <b><u>Optical</u></b> – 0.2 ugC/m<sup>3</sup> total elemental carbon for a 30 minute sample at 8 lpm (minimum). <ul style="list-style-type: none"> <li>• User Configurable Measurement Method</li> <li>• Power Requirements: 220VAC/8A @ 50Hz</li> <li>• Improved NDIR detector with better temp and control and sensitivity.</li> <li>• Computer controlled flow controllers for all gases.</li> <li>• Denuder (parallel plate denuder)</li> </ul> </li> </ol>

		<ul style="list-style-type: none"> <li>• Size selective inlet : 2.5 micron @ <b>Flow rate of 8 LPM.</b></li> <li>• Sample pump for <b>8 LPM ,230 VAC.</b></li> <li>• Internal components: Quartz Sample Oven, Diode laser optical system with precision temperature controller; Valve/Flow Sensor Components, photo detector and NDIR unit.</li> <li>• Calibration Cylinders: 1.Pure Helium gas in 47 Liter water capacity CS cylinder with Two stage regulator. 2. Helium gas with 10% Oxygen in 47 liter water capacity CS cylinder with Two stage regulator. 3. Helium gas with 5% Methane in 10 liter water capacity CS Cylinder with Two stage regulator.</li> <li>• To be supplied with the necessary cables, accessories (oxygen trap, tubings, Heater Coils, Quartz Insert tube that fits in main oven, set of carbon impregnated Filters, pre cleaned SS tube), mounting kit, necessary spares, quartz filter papers- 5 packs of 100 filters in each, computer interface, data acquisition and control software.</li> </ul>
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SP O/2 /3	<b>Particle size analyser</b>	Description	Desired Specification
		Particle Size Range	≤10 nm to ≥30 microns
		Measurement Principle	≤10 nm to 200 nm: stepping mode electrode with Faraday Cup Electrometer (Mobility particle sizer using alcohol is not acceptable, as the unit is also to be used in field in temp. > 35 °C ~ 40 °C). ≥200 nm to ≥30 microns: Optical Particle Counter/Aerosol Spectrometer.
		No. of Size Channels	≤10 nm to 200 nm: At least 10 Channels ≥200 nm to ≥30 microns: At least 30 Channels
		Weight	8 to 10 Kgs for use in the field.
		Power Requirement	Should operate on rechargeable battery up to 8 hours for use in the field. Should operate on AC Mains Supply also.
		Data Interval	Data should be available every minute or less than a minute.
		Sample Moisture Removal	In-built arrangement for sample moisture removal.
		Data Presentation	a. PM-10, PM-2.5 and PM-1 simultaneously. b. Inhalable, Thoracic and Alveolic Dust Mass simultaneously, in accordance with EN 481. c. Multi-channel Number Distribution.
		Computer Interface for Data Downloading	USB Port / Bluetooth / RS-232.
		Sample Flow Rate	1 to 2 lpm automatically regulated.
		Rinsing Air Flow	At least 0.3 lpm for optical cleaning.
		Laser Wavelength	Between 600 and 700 nm (Spectrometer)
		Data Storage	USB Flash Drive.
		Operating Temperature	+5 to +40 deg C.
		Operating Rel. Humidity	<95% (non-condensing).
		Storage and Transportation Temp.	0 to 45 deg C.
		Particle Count Range	Spectrometer: 1 to 2 x 10 <sup>6</sup> particles/litre or more. Electrometer: 3 x 10 <sup>3</sup> to 10 <sup>6</sup> particles/cm <sup>3</sup> or more.
Particle Mass Range	0.1 microgram/m <sup>3</sup> to 100 milligram/m <sup>3</sup> or more (Spectrometer).		
Software	Compatible with all 32 and 64 - bit Windows operating systems from XP and above.		
Accessories	Power Adapter for Battery Charging Carrying Case for Transportation in Field.		

is presently lodged in Pauri jail.



## DOON UNIVERSITY

Mothrowala Road, Kedarpur,  
Dehradun Ph. 0135-2533105

### SHORT TENDER NOTICE 002/DU/DST/2016

Doon University invites sealed quotation in two-bid form for supply of TOC Analyzer, EC/OC Analyzer, and Particle size Analyzer Equipments under DST FIST Scheme.

Tender documents can be obtained from Doon University on payment of Rs 1145/- (Inclusive of taxes). The Tender documents may also be downloaded from Doon University website [www.doonuniversity.org](http://www.doonuniversity.org) and submitted along with a demand draft of Rs 1145/- in favour of Doon University. The Tender should reach on or before 17.03.16 by 12:00 hrs which will be opened on the same day at 15:30 hrs in presence of the tenders or their representatives.

**Store & Purchase office**