



**INVITATION FOR QUOTATION**

Our Ref No.: DBATU/Store /DoCE/ENV Lab Equipments/2023/2725

Date: 25 OCT 2023

Quotation for Supply of ENV Lab Equipments

Due On: 20-11-2023

Date of Opening: 21-11-2023

Time: 3.00 pm

To,

**Sub: QUOTATION FOR THE SUPPLY OF Supply of Environmental Engineering Laboratory Equipment's.**

Dear Sir,

Your quotation for the items listed overleaf, may please be submitted to the under signed, so as to reach this Office not later than 20-11-2023 . While submitting your quotation, the following procedure

May please be observed and other points borne in mind.

01. The maker's name must be specified.
02. The "Terms and Conditions" for supply and delivery of stores, should be clearly indicated in the quotation, stating whether rates are, inclusive of all taxes, Packing and forwarding charges Freight charges, etc. or not, however rates offered as including all taxes will be more welcome.
03. If packing and forwarding charges are to be charged separately, it should be so clearly stated in your quotation.
04. Please mention clearly whether consignment would be Ex-Godown, Ex-Shop, of F.O.R. dispatching stations. Preferably terms offered as "Delivery of consignment of stores, on F.O.R.
05. Envelope should be clearly marked with our reference No and date of this quotation. It should also be superscripted as per the format given above.
06. The quotation would be opened as per date and timing given above, if desired by you, you may depute an authorized representative with a letter of authority to be present at the time of opening of the quotation at this Office on the aforesaid day, date & time.
07. Your quotation must be valid for a minimum 30 (Thirty) working days from the date of it's opening.
08. Quotation received after the date of opening may not be taken into consideration.
09. Items tendered should confirm to the specification shown in the attached list when and where, full or no specifications are indicated against items in the list. Kindly furnish your full specification in accordance with accepted standards against each item tendered. Where reference to catalogue is made, the relevant catalogues/ Pamphlets/ Literature should accompany the quotation.
10. Your quotation should be for all new items and not for second hand and should be submitted as per standard format of Quotation Submission attached herewith.
11. Please state whether items will be available Ex-Stock. If not the minimum period for delivery, or for supplying the items or stores.
12. It should be clearly stated whether **GST, Insurance, Freight or packing** and forwarding charges, or any other taxes and duties, etc. leviable.
13. It would be appreciated if illustrated catalogues/Literature etc is furnished with the quotation.

14. Expression to as "Complete with standard Equipment" complete with standard accessories "Equipment to" As good as should be avoided. If at all their use is unavoidable then it should be very specifically indicated as to what exactly they mean and what exactly would be supplied under them. Any ambiguity or vagueness should be avoided.
15. For convenience, kindly adopt while quoting the same serial Nos. as given in the list detailed below.

Thanking You.

Yours faithfully,

  
Registrar

Dr. Babasaheb Ambedkar Technological  
University,

### List of Items

Sr.No	Description / Specification	Make	Approx. Qty.
01	Environmental Engineering Laboratory Equipment's (The detailed specifications are as attached sheet.		

Department of Civil Engineering

Detailed Technical Specifications for Environmental lab equipment's.

	Name of Equipment's	Specification	Qty
1	pH Meter	<ul style="list-style-type: none"> <li>• Type: Microprocessor Based</li> <li>• Display: LED / LCD / Touch Screen, 3 digits</li> <li>• Range: 0.00 to 14.00 pH</li> <li>• Resolution: 0.01 pH</li> <li>• Accuracy: <math>\pm 0.05</math></li> <li>• Temperature Compensation Type: Automatic</li> <li>• Dimensions: 205mm x 65mm x 130 mm</li> <li>• Table top with standard accessories (with electrode)</li> </ul>	1
2	Turbidity Meter	<ul style="list-style-type: none"> <li>• Range: 0-2000 NTU</li> <li>• Resolution: 0.1 NTU in lowest</li> <li>• Accuracy: <math>\pm 2\% FS \pm 1</math> Digit</li> <li>• Detector: Photodiode/ Photocell</li> <li>• Calibration: manual.</li> <li>• With Beaker and standard solution bottles</li> </ul>	1
3	Digital Conductivity Meter	<ul style="list-style-type: none"> <li>• Range: 0- 20<math>\mu</math>s, 200 <math>\mu</math>s, 2 <math>\mu</math>s, and 200 ms/cmS</li> <li>• Resolution: 0.001</li> <li>• Accuracy: 0.1</li> <li>• Dimensions: 350mm x 350mm x 350 mm</li> <li>• Table top with standard accessories</li> </ul>	1
4	B. O. D. Incubator	<ul style="list-style-type: none"> <li>• Double walled with inner chamber of stainless steel and outer wall of M. S. Sheet</li> <li>• Adjustable shelves</li> <li>• Digital Temperature control</li> <li>• Resolution 0.1-degree Celsius</li> <li>• CFC free compressor utilizing R134 ecofriendly refrigerant</li> <li>• Capacity: 6 Cu. Ft. (170 Litres)</li> <li>• Inner Dimensions: 50x50x70 cm</li> <li>• Temp Range: 5° to 60° C</li> <li>• Accuracy: <math>\pm 0.5^\circ</math> C</li> </ul>	1
5	Digital Analytical Balance	<ul style="list-style-type: none"> <li>• Capacity: 300gm</li> <li>• Readability: 0.01 g</li> <li>• Repeatability: <math>\pm 0.01</math>g</li> <li>• Linearity: <math>\pm 0.02</math> g</li> <li>• Pan size (mm): 128 dia.</li> </ul>	1
6	COD Digestion Apparatus	<ul style="list-style-type: none"> <li>• For 15 samples with glassware (COD tube and condenser)</li> <li>• Temp Range: above amb.to 180°C</li> <li>• Resolution: 1°C</li> <li>• Timer: selectable</li> <li>• Dimensions: 500 mm x 270 mm x 210 mm (w x d x h)</li> <li>• Hole size: 40 mm dia. and 80 mm depth</li> <li>• With accessories: glass tube, air condenser, tube stand and condenser stand</li> <li>• Glass tubes: 38mm dia. 15 no's (3X2 rows)               <ul style="list-style-type: none"> <li>• Recommend Accessories (At Extra Cost)</li> <li>• I. C.O.D. Tube stand for 15 tubes</li> </ul> </li> </ul>	1

		<p>2. C.O.D. an condenser stand for 15 tubes</p> <p>3. S.S. bath for c.o.d digestion Apparatus</p>	
7	TDS Meter	<ul style="list-style-type: none"> <li>• Table model</li> <li>• Ranges: 5 ranges 0-1000 ppt Mohs/cm</li> <li>• Temp. Compensation: manual 0 -50° C</li> <li>• Measuring frequency: 1000 Hz</li> <li>• Accuracy: + 1% FSI</li> <li>• Dimensions: 76 X 275 X 175 mm</li> </ul>	1
8	Dissolved Oxygen Meter	<ul style="list-style-type: none"> <li>• Portable Model</li> <li>• Range: D.O: 0 to 20 ppm</li> <li>• Resolution: D.O.: 0.1 ppm</li> <li>• Accuracy: 0.1 ppm ± 1 count</li> <li>• Temp. compensation: 0° C to 50° C manual</li> </ul>	1
9	Colorimeter	<ul style="list-style-type: none"> <li>• Range: 400 - 700 nm</li> <li>• Output: OD (0 to 1.99)</li> <li>• Resolution: OD: 0.01</li> <li>• Accuracy: 0.5 and FSI</li> <li>• Min. volume: 1 ml</li> <li>• With battery backup</li> </ul>	1
10	Flocculator - Jar Test Apparatus	<ul style="list-style-type: none"> <li>• M. S. body with digital R.P.M. indicator</li> <li>• Range: variable speed up to 30 - 150 RPM with electronic speed regulator</li> <li>• DC electric motor with Digital RPM indicator</li> <li>• Stainless steel paddles</li> <li>• 1 Liter x 6 Stirrer</li> </ul>	1
11	Specific gravity bottle	<ul style="list-style-type: none"> <li>• 50 ml-narrow mouth for soil-with</li> <li>• Teflon stopper</li> </ul>	5
12	Desiccator	<ul style="list-style-type: none"> <li>• Borosilicate Glass - Plain 150 Mm</li> </ul>	2
13	Hydrometer for Grain Size analysis of Soil	<ul style="list-style-type: none"> <li>• Should be calibrated at 27°C,</li> <li>• range of 0.995 to 1.030 g/cc,</li> <li>• graduation lines at interval of 0.0005; in conformity with IS- 3104: 1965.</li> <li>• The maximum permissible scale error on the hydrometer should be plus or minus one scale division.</li> <li>• Should be provided with NABL certificate</li> </ul>	3

Technical Specifications shown above are checked and verified by the Technical Committee of the Department.

  
HoD