



# Department of Civil Engineering

## National Institute of Technology, Kurukshetra

Ref. No. CED/Envi./NITK/2017/ 24

Dated: - 25.01.2018

M/s. Addressed as per


List attached


**SUBJECT: INVITATION OF QUOTATIONS FOR PURCHASE OF MULTI PARAMETER WATER ANALYSIS KIT.**

1. You are invited to submit your most competitive quotation for the following good(s):

| Sr. No. | Brief Description & Specification of Goods   | Quantity | Delivery Period | F. O. R.           |
|---------|--|----------|-----------------|--------------------|
| 1.      | Multi Parameter Water Analysis Kit as per Detailed Specifications on attached separate sheet | 01       | 4-6 Weeks       | N.I.T. Kurukshetra |

2. Necessary Literature of the goods may please be sent to facilitate to take decision.
3. All duties, taxes and other levies payable by the Institute shall be included in the total price. This Institute does not issue Form C or D.
4. Payment will be made Online through RTGS/NEFT within 30 days after receipt of material in good condition and according to specifications. The bank detail for making online payment may be indicated in the quotation.
5. The item must be supplied within delivery period or delivery period extended by the Institute on the request of the supplier on genuine grounds otherwise the penalty for delayed period @ 0.5% of the amount shall be charged for every week or part thereof and the maximum 10%.
6. The goods are not required exclusively for Research Purpose. The Duties are payable by the Institute.
7. The quotation should remain valid for a period not less than 45 days from the date of submission.
8. The right of accepting or rejecting any quotation and to cancel the bidding process and reject all quotations without assigning any reason is reserved with the Institute.
9. The due date of receipt of Quotation is **15.02.2018** and will be opened on next working day. Please quote on the top of the envelope our Reference No. and due date of opening.

  
Head of Department (Incharge)  
Civil Engineering Department

  
INDENTOR  
Indentor  
Civil Engineering Department  
National Institute of Technology

## Specifications of Multi Parameter Water Analysis Kit

Portable multi parameter water analysis kit complete with all accessories and essential features including electrodes, probes, conductivity cell, sample cells/cuvettes, primary calibration standards, bi-directional RS232 interface for data output to computer or printer & data input, operating manual, carrying case, covers, batteries, etc. for measuring Conductivity, pH, Temperature, TDS, Salinity, DO, ORP; operating modes: manual or auto range selection; LED display of readings; Power requirement: AC 220 - 240 V, 50-60 Hz; The equipment shall have minimum 3 years warranty.

### pH:

Range: 0 - 14

Accuracy:  $\pm 0.01$  pH

Resolution: 0.01 pH

Calibration Points: 1 to 5 points

Temperature Compensation: 0 - 100°C

Compensation Mode: Manual or Automatic

### mV/ORP

Range: -1999.9 - 1999.9 mV

Accuracy:  $\pm 0.2$  mV

Resolution: 1mV

### EC:

Range: 0 - 20.00, 200.0, 2000  $\mu$ S/cm, 20.00, 200.0 mS/cm

Accuracy:  $\pm 0.5\%$  full range

Resolution: 0.1  $\mu$ S/cm

Calibration Points: 1 to 5 points

Temperature Compensation: 0 - 100 °C

Manual or Automatic

### TDS:

Range: 0 - 1000 ppm

Accuracy:  $\pm 1\%$  full scale

### Salinity:

Range: 0 - 80 ppt

Accuracy:  $\pm 1\%$  full scale

### DO:

Range: 0.00 - 20.00 mg/L

Accuracy:  $\pm 0.2$  mg/L

Resolution: 0.01 mg/L

Temperature Compensation: 0 - 50°C Automatic

Pressure Correction: 60.0 - 112.5 kPa, 450 - 850 mmHg

Salinity Correction: 0 - 50 g/L

**Temperature:**

Range: 0 - 105°C

Accuracy:  $\pm 0.5$  °C

Resolution: 0.1 °C

**Warranty:** Three years from the date of installation.

**Installation & Servicing:** The equipment should be installed by certified engineer of the firm. The service engineer of the firm shall be visiting as frequently as necessary for repair and maintenance of equipment during 3 year warranty period.

**Accessories and Spare Consumables:** The instrument should include all essential accessories including electrodes, probes, conductivity cell, stirrer, sample cells/cuvettes, electrode stand, calibration standards, buffer solutions, membranes, electrolyte solutions, carrying case, operating manual, dust cover, power cord, batteries, etc. and spare consumables for satisfactory continuous operation during three year of warranty period.