## BIRBAL SAHNI INSTITUTE OF PALAEOBOTANY, LUCKNOW

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No.BSIP/Sponsored Project/2013-14/C-DIA

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Dated: 30.03.2016

Convener BSIP Web-site committee BSIP, Lucknow

### **SPEED POST**

Subject: Quotation for Benchtop Analytical Instrument for TDS and Elemental Analysis

Dear Sirs,

This Institute intends to purchase item mentioned above. Sealed quotations are invited so as to reach this office on or before 5.00 pm on **18.04.2016** duly superscribed by " **Benchtop Analytical Instrument for TDS and Elemental Analysis** " due to open in presence of vendors at a later date to be notified.

While submitting quotation please note that:

- 1. The material may either of indigenous manufacturer or of foreign make, available from ready stock. Any offer to supply on forward Delivery Basis under suppliers own quota license will also be considered.
- 2. The price quoted should be F.O.B.Destination.
- 3. Your rates should include packing, insurance and forwarding charges.
- 4. The rates of Sales Tax should be clearly indicated wherever chargeable. The tendered should also indicate Central/Sales Tax Registration Number and date in the quotation.
- 5. Specific mention should be made whether the offer is for supplies available ex-stock. In case the officer is on Forward Delivery basis, firm delivery period must be indicated.
- 6. The cover should be sealed and superscribed "Quotation for **Benchtop Analytical Instrument for TDS and Elemental Analysis** " must be written on envelope. The quotations not complying the procedure will be rejected.
- 7. Payments will be made by crossed cheque on the Indian Overseas Bank, Lucknow only after receipt and acceptance of supply and installation/if required satisfactory.
- 8. The acceptance of the quotation will rest with the Director who does not bind himself to accept the lowest quotation and reserves the right to himself to reject or partially accept any or all the quotation received without assigning any reason.
- 9. The quotations are liable to be cancelled if any of the above mentioned conditions are not complied with.

Yours sincerely,

(Dr. R.S.Singh)

Scientist 'G' with additional duties of Registrar

## Specification:

# The Portable Multiparameter kit with laptop and essential software is required:-

#### Portable Multiparameter Meter

Portable Multiparameter Meter for pH/mV/conductivity/Temperature/TDS/Salinity with multipurpose inputs, backlit graphic display, for mobile application with USB interface. It should be complete with electrodes for pH and Conductivity.

#### **SPECIFICATIONS**

pH mV Temperature

Calibration

Conductivity Cell constant Salinity TDS

Calibration memory

AutoRead

Celsius/Fahrenheit

Display Memory Logger

IP class for portability

Interface

Power Supply

Battery Life

-2.000 ... 19.999

+/-(2500 +/-) mV

-5.0 ... 105 °C +/- 0.1 °C 1-, 2-, 3-, 4-, 5- point

DIN, NIST add. 20 buffer sets 0.00 ... 1000 mS/cm +/- 0.5% Adjustable: 0.090-25.0 cm<sup>-1</sup>

0.0 ... 70.0 (acc. IOT) 0.1 – 1999 g/l Up to ten calibrations

Automatic/maual

Yes

Backlit LCD

manual 200 / 500 automatic manual / time controlled

IP 67

Mini USB-B

4 x 1.5 V AA or 4 x 1.2 V NiMH- rechargeable batteries

Up to 800 h without / 100 h with backlit

### PHOTOFLEX Multiparameter Meter

Light source

Wavelengths nm User-defined methods

Methods/software update

Data storage

pН

Turbidity

Accuracy Photometry

pH

Turbidity

Calibration: pH / Turbidity

Interface

Measuring parameters

Battery Type

Rechargeable battery

Test marks Warranty LED

436, 517, 557, 594, 610, 690 + 860

100

Via Internet 1000 data sets

0-16

0-1100 NTU/FNU

<2 nm wavelength accuracy, 0.005 abs. reproducibility

±0.01 pH

0.01 NTU/FNU or ±2% of the

measured value

3 point

RS 232, USB via adapter (optional)

Photometry, pH, Turbidity

Type AA batteries 4x1.5 V, for approx.

3000 measurements

Optional: rechargeable battery or

LabStation

cETLus 2 years

Kit should be in light weight carrying case.

# The elemental analysis objects along with kit:

S No.	Element / Reagent	Measuring
		Range
1.	Calcium (Ca)	1.0 - 250  mg/l
2.	Chloride (cl)	2.5 - 250  mg/l
3.	Phosphate (PO4)	0.05 - 15  mg/l
4.	Potassium (K)	5 - 50  mg/l
5.	Sodium (Na)	10 - 300  mg/l
6.	Nitrate (NO3)	0.01 ~15 mg/l