



Central Pollution Control Board
Regional Directorate (South)
Nisarga Bhawan, Thimmaiah Road
7th D main, Shiva nagar, Bengaluru - 560079
(Landline: 080 23233739 / 23232559)

CPCB/RLB/ Pur/2021-22 /

28th July, 2021

TENDER NOTICE

Sub: Inviting sealed quotation for purchase of instruments / equipment

Sealed quotations are invited in single stage two bid system (Technical and financial bid) from reputed agencies for supply of laboratory instrument/Equipment as given in Annexures 1 to 3. Technical bid shall contain specifications, make, model, statement showing the specifications of the instrument/equipment to be supplied meeting the specifications given by CPCB, spares that will be supplied along with instrument/equipment and certificates. Financial bid cover shall contain details of unit price, discount percentage, GST, packing and forwarding charges and charges for additional spares, others, if any. Quotations should be submitted to this office **on or before Monday 23rd August 2021 at 16.00 hours**. **Tender information also available at CPCB website: cpcb.nic.in. The terms and conditions are given below:**

Terms and Conditions:

1. The tender shall be submitted in two parts, viz, Technical bid and Financial bid. The bids shall be kept in two separate sealed cover mentioning technical bid and financial bid and both the covers shall be kept in a cover and sent to this office superscripted with **“Quotation for purchase of instruments” on top left side of the envelope.**
2. Financial bid will be opened only when the technical bid is qualified.
3. The validity of quotation shall be for **180 days** from the date of opening
4. All charges including GST, packing, transportation etc. should be mentioned clearly.
5. Duly filled in quotation shall reach this office on or before **23rd August 2021 at 16.00 hours**
The quotations may be sent by registered post or may also be dropped in the tender box kept at this office.
6. The supplier shall arrange for installation at this office facility and to train two scientific staff on operation and maintenance.
7. Payment will be made through **PFMS**, on submission of bill in duplicate and satisfactory installation and providing training.
8. Competent authority in the Board has full right to accept or reject any/all tenders / quotation without assigning any reason thereof.
9. For any queries, you may contact Shri. S.Jeyapaul, Scientist-D & Lab.Incharge, CPCB, Bengaluru (Mobile: 94490 52314, Mail ID: jeyapaulcpcb@yahoo.com)
10. Typographical and clerical errors are subject to correction
11. In the event of any dispute, the decision of the Chairman, CPCB, will be final binding upon both the parties.

Yours faithfully



एस. सुरेश
28/7/2021
(S.Suresh)

Regional Director
Mobile: 9480672128
E mail: ssuresh.cpcb@nic.in

Encls: As above

Specifications for Microprocessor controlled flame photometer:

| | |
|---|--|
| Measuring elements | Sodium, Potassium, Calcium and Lithium |
| Range of measurement (without dilution) | Na: 100 PPM, K: 100 PPM, Ca: 300 PPM and Li: 50 PPM |
| Full scale sensitivity | Na:2PPM, K:1 PPM, Ca:30 PPM and Li: 1 PPM |
| Resolution | Na:0.02 PPM, K:0.01 PPM, Li: 0.01 PPM and Ca: 0.03 PPM |
| Repeatability | ± 2.0% FS |
| Accuracy | 1.0% |
| Sampling rate | 3 mL approximately/element |
| Air compressor | Built in air regulator and air filter to supply stable and moisture/oil free air with pressure of 1 kg/cm ² |
| Fuel gas | Suitable for use with LPG |
| Response time | 2-15 seconds |
| Automation | Micro controller based instrument |
| Memory | Storage of minimum 500 results |
| Power | 230V± 10%, 50Hz |
| Ignition | Inbuilt automatic flame ignition |
| Calibration | Three to Five points Facility for re-standardisation using single standard |
| Readout | 4 line 20 character LCD / LED readout |
| Communication port | USB / RS 232 port |
| Printer port | Compatible with any printer |
| Facility | Facility for re-standardisation, real time clock, determination of four elements with single aspiration |
| Certificate | To be supplied along with test certificate for EMC/EMI as per EN 61326-1:2013 and test certificate from any approved agency to prove conformity to specification. |
| Warranty | 3 years |
| Optional accessories | Filter for Lithium and calcium PC link software Cleaning accessories for nebuliser |
| General conditions | Instrument shall be complete in all aspects. Shall be supplied along with gas lighter, compressor, manual, dust cover, air tube, gas tube, software for PC link, cable etc. |



1/21.2/231
28/7/2021
(S.Suresh)

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Specifications for TKN digestion unit along with scrubber:

A. Digestion unit:

| | |
|------------------------------|---|
| Name of the equipment | Total Kjeldahl Nitrogen (TKN) Digestion unit |
| Number of places | Six / Eight |
| Digestion Tube - Cylindrical | Capacity-250 mL, Glass - Borosilicate glass (42 x 300 mm) or quartz |
| Current rating | 8 amps |
| Digestion time | Up to 50 minutes |
| Temperature range | Ambient to 450° C |
| Accuracy | ± 1.0 ° C |
| Temperature controller | Digital PID with J type thermocouple with auto tuner |
| Power | 230 V ± 10%, 50 Hz, single phase, AC |
| Digestion block | Made of aluminium and to have sufficient space between tubes and walls of the block wells, Insulated with ceramic wool / ceramic fibre bound with asbestos |
| Equipment body | Made of mild steel, powder coated with SS top cover |
| Exhaust manifold | Leak proof exhaust manifold made of borosilicate glass with manifold rack and Teflon cover for digestion tubes. |
| Certificate | CE certificate to prove safety norms |
| Warranty | Three years from the date of installation |
| Accessories | 1. Digestion tube holder stand made of SS. 2. Vapour aspirator pump made of borosilicate glass and Teflon drain valve and stand for aspirator pump. 3. Spare digestion tubes (Glass or quartz) |

B. Scrubber unit:

The unit shall have the following facilities:

1. Two stage scrubbing with water and alkali, capacity of tank – 2 litres each
2. Oil free Suction Pump to create vacuum.
3. Provided with condensate collection vessel and facility to drain



एस. सुरेश
(S.Suresh) 28/12/2021

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