



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
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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



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(S.Suresh) 28/12/2021

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Requirement: Portable calibrators for RDS, PM 2.5 sampler and source emission sampling**PART - A**

S.No	Name of the item	Description
1	Top loading orifice calibrator (For Envirotech make RDS)	For calibration of RDS flow rate Range: 0.8 to 1.4 cubic meter/minute by varying perforated plated Material of construction: Aluminium with powder coated/anodizing Perforated plates: 5 nos. with different number of holes Monometer: Digital monometer with least count of atleast 0.1 mm of water scale Stop watch: with start and stop buttons, least count 0.01 seconds Accessories: Coupling pipe, connecting pipe, knurling nuts
2	Low flow calibrator (For PM 2.5 sampler, stack rotameter)	Flow calibration of PM 2.5 sampler and stack kit rotameter and DGM Range: 5 – 50 LPM Stop watch: With start and stop buttons, least count 0.01 sec. The whole system to be housed in sturdy carrying case
3	Pyrometer (For stack kit)	K-type pyrometer with calibrator
4	Vernier caliper (For stack nozzle)	To measure effective area of different type of nozzles
5	General conditions	All above instruments to be supplied along with calibration certificate produced by NABL accredited calibration laboratory Warranty: One year

PART – B

Description	Req.qty
Supply of filter paper cassettes for PM 2.5 filter papers (Filter paper cassettes required for storing PM 2.5 filter papers after sample collection)	100 nos.



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28/1/2021

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