



CENTRAL POLLUTION CONTROL BOARD
Regional Directorate, North East
Ministry of Environment and Forests, and Climate Change
Government of India

RDNE/17/Quo/2018-19/ 1378

February 11, 2019

To,

101395
18 FEB 2019
Central Pollution Control Board

Subject: Quotations for the supply of various office items.

Sir,

Sealed quotations are hereby invited from the reputed manufacturers/dealers/supplier (on urgent basis for training purpose) to supply various office items as listed in **Annexure I** and deliver at this office as per the terms and conditions as detailed below:-

1. The quotations containing the technical and financial bid for the item (name as per the Annexure-I, Table I) shall be mentioned without any ambiguity and quoting the price of each item separately and applicable other charges/taxes. The quotation document will be available on official website www.cpcb.gov.in.
2. The quotation shall be kept in a sealed envelope mentioning "**Quotation for the _____ (name as per Annexure)**" on top left of the envelope.
3. Any other charges other than the quoted one shall not be entertained at later stage.
4. The duly filled in quotation shall reach this office on or before **February 28, 2019** at **17:00** hours by post or by-hand.
5. The quotation received without sealed envelope shall not be entertained.
6. The items shall be delivered at the Office: **Central Pollution Control Board, Regional Directorate North East, Lower Motinagar, Near Fire Brigade H.Q., Shillong-793014.**
7. The call of quotation does not bind the Central Board to place the order.
8. The quotations submitted in response to this notice may be rejected without assigning any reasons.
9. The items shall be delivered along with the invoice in original at this Office within 21 days from the date of issue of Supply Order.

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10. The prices submitted in quotation shall have 90 (ninety) days validity minimum from the date of the quotation.
11. The payment shall be released through PFMS after satisfactory delivery, installation & commissioning. Bidders are requested to provide their bank details, PAN, GST and contact no. of concerned person. Payment will be made only after delivery and satisfactory installation, testing, commissioning etc depending upon the availability/release of funds by the Govt. and the agencies/contractors shall have no claim in case of delayed payment and no interest will be paid for the delayed payment.
12. All dispute or difference arising out of supply of any item/equipment assigned under the same shall be settled in accordance with the arbitration and conciliation Act, 1996. The arbitral Tribunal shall consist of three (3) arbitrators appointed by the Chairman, Central Pollution Control Board.
13. Vendor shall not be considered in default in delay in delivery occurs due to causes beyond his control such as acts of God, natural calamities, civil wars, strike, fire, frost, floods, riots and acts of usurped power. Only those causes which have duration of more than 7 calendar days shall be considered cause of force majeure.
14. Earnest Money Deposit
 - (i) The earnest money is required to protect the Purchaser against the Bidder's withdrawing or altering its bid during the validity period. Hence an EMD amount as specified in **Table-III**, must accompany with the tender. EMD is required to be submitted in original separately-itemwise on or before the last date of submission of bid.
 - (ii) The earnest money shall be furnished in the form of DD in favour of **CENTRAL POLLUTION CONTROL BOARD – RDNE** payable at **State Bank of India, LAITUMKHRAH (SHILLONG), A/c No.: 37836840072**
 - (iii) The earnest money shall be valid for a period of 90 days beyond the validity period of the tender.
 - (iv) Unsuccessful Bidder's earnest money will be returned, without any interest, to them not later than 45 days after the expiry of the tender validity period. Successful Bidder's earnest money will be returned without any interest, after receipt of performance security from that Bidder.



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(v) Earnest money of a bidder will be forfeited, if the Bidder withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender. The successful Bidder's earnest money will be forfeited if it fails to furnish the required performance security within the specified period

15. Contract Price

(i) The Contract Price of the equipment/ instrument shall be the price of equipment/ instrument chargeable for delivery at the place of installation. This price shall be firm and fixed and not subject to any variation except in cases where the rate of applicable taxes payable in India or at the place of delivery undergoes a change. These taxes shall be paid as per actuals. The contract price shall also include the cost of installation & commissioning, insurance, inspection & survey charges, test and trials, delivery, training, services of manufacturer's for two years Comprehensive Warranty period.

(ii) If Purchaser is required by Indian Law to deduct or withhold any other taxes or other amounts, the gross amount payable by Purchaser shall be paid after making such deductions or other withholdings. Necessary certificate for the deductions so made will be issued by the Purchaser.

(iii) The Contract Price shall not be subjected to any adjustment in respect of rise or fall in the cost of labour, materials, currency rate variation, devaluation or any other matter having implication on the cost of the execution of the Contract and adjustments for subsequent legislation, statute, ordinance, decree, law, regulation that may occur in the country in which the equipment/ instrument is being manufactured.

(iv) Further, during the period of delivery systems, in case the supplier delivers equipment/ instrument having same quoted model at less price to any other party (price being the sole consideration in the supply), the contract price will be deemed to have been reduced by the difference between the price offered to the Purchaser and the other party. Any difference in the terms of supply shall be duly accounted in the process.

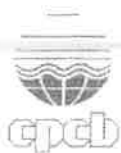
16. Discrepancy in Prices

(i) If, in the price structure quoted by a Bidder, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless the Purchaser feels that the Bidder has made a mistake in placing the decimal point in the unit price, in which case the total price as quoted shall prevail over the unit price and the unit price corrected accordingly.

(ii) If there is a discrepancy between the amount expressed in words and figures, the amount in words shall prevail.

17. Tender currencies

Equipment / Instrument price, installation and commissioning charges should be quoted in Indian rupees only. The prices should be quoted both in figures and in words, in such a way that interpolation is not possible.



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18. Make in India Purchase Preference

Except as otherwise prescribed by the Nodal Ministry i.e. MoEF&CC, Govt of India, and subject to purchaser's verification of the fact that there is sufficient local capacity and local competition, purchase preference will be given to eligible suppliers as per Govt of India, Min of Commerce and Industry, DIPP order NO. P-45021/2/2017-B.E-II dated 15 June 2017, on submission of certificate of minimum local content from statutory auditor or cost auditor or from a practising chartered accountant giving the percentage of local content.

19. Insurance

The Supplier shall, in his own interest, insure the goods against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery. The Supplier shall be responsible till the entire stores contracted for arrive in good condition at destination. The transit risk in this respect shall be covered by the Supplier by getting the stores duly insured. The insurance cover shall be obtained by the Supplier in its own name and not in the name of the Purchaser or its Consignee.

20. Clearance / Receipt of Goods

The Supplier shall make his own arrangements for clearance of goods through customs and their receipt and onward dispatch for the site of installation after obtaining the necessary custom exemption certificate from the purchaser.

21. Warranty

(i) Bidders must give the comprehensive on-site warranty of at least two years (24 months) from the date of successful installation of Equipment and also give the warranty declaration that "everything to be supplied by us hereunder shall be free from all defects and faults in material, workmanship and shall be of the highest quality and material of the type ordered, shall be in full conformity with the specification and shall be complete enough to carry out the experiments, as specified in the tender document". As per Warranty/Guarantee card for Desktop PC computer and Laptop

(ii) In case of any claim arising out of this warranty, the Purchaser shall promptly notify the same in writing to the Supplier. Upon receipt of such notice, the Supplier shall, with all reasonable speed, repair / replace the defective goods or parts thereof, free of cost, at the ultimate destination. The Supplier shall take over the replaced parts/goods after providing their replacements and no claim, whatsoever shall lie on the Purchaser for such replaced parts/goods thereafter.

(iii) If the Supplier, having been notified, fails to rectify/replace the defect(s) within a reasonable period the Purchaser may proceed to take such remedial action(s) as deemed fit by the Purchaser, at the risk and expense of the Supplier and without prejudice to other contractual rights and remedies, which the Purchaser may have against the Supplier.

22. Assignment

The Supplier shall not assign to anyone, either in whole or in part, its contractual duties, responsibilities and obligations to perform the contract, except with the Purchaser's prior written permission.



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23. Sub-contracts

(i) The Supplier shall notify the Purchaser in writing of all sub-contracts awarded under the contract. Such notification, in its original tender or later, shall not relieve the Supplier from any of its liability or obligation under the terms and conditions of the contract.

(ii) Sub-contract shall be only for bought out items, sub-assemblies & maintenance of goods and for the goods as a whole.

24. Applicable Law and Jurisdiction

The contract shall be governed by the laws of India for the time being in force.

25. Injury and Damage

(i) Injury or Death of Persons - The Supplier shall be liable for and shall indemnify the Board against any liability, loss claim or proceedings whatsoever arising under any statute or law in respect of personal injury death or any disability caused by the carrying out the Works unless due to any act or neglect of the Board, or of any person for whom the Board is responsible.

(ii) Damage to Property - The Supplier shall be liable for and indemnify the Board against and insure and cause any Manufacturers and subcontractors to insure against any expense, liability, loss claim or proceedings in respect of any damage whatsoever to any real or personal property for any one occurrence in so far as such damage arises out of or in the course of or by reason of the carrying out of the Works and is due to any negligence, omission or default of the Supplier or any person for whom the supplier is responsible or any Manufacturers and subcontractors or person whom the Manufacturers and subcontractors are responsible.

26. Post Warranty Maintenance

(i) The bidder shall provide Post Warranty Services and post contractual support i.e. AMC, repair, maintenance, etc. and assure supply of consumables and spare parts for 10 years from the date of installation. The bidder will take up the post warranty AMC when asked to do so.

27. Bidders who can Bid

(i) To be eligible, the Bidder should have not been banned or suspended from Government transactions due to any reason including corrupt and fraudulent practices.

(ii) Original Equipment Manufacturers (OEM) may bid directly. OEM should be internationally/nationally reputed manufacturer/branded company.

OR

An authorised agency/representative nominated by the OEM, who have minimum two years continuous agreement with OEM, may also bid. Relevant documents along-with tender specified Authorization Form indicating the Bidder is an authorised agency/representative of the OEM for bid submission shall be enclosed with tender bid. The OEM shall give an undertaking to supply



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components / parts/ consumables during warranty & post-warranty periods as well as continued supply of components/ spare parts for the period of product support. OEM shall also assure full technical back-up and support in the matter of providing maintenance including software up-gradations. Copy of agreement between OEM and the agency/representative confirming the above requirements and nomination from the OEM for supplying stores shall be enclosed with the tender.

(iii) The Bidder should have supplied the quoted/similar Equipment/Instrument in the last three years to Govt Ministries/Department/Public Sector Undertaking/Scientific Institute of National Repute. The details of such institutions and the cost with name of equipment may also be supplied with the bids. Purchase Orders and minimum 03 Performance Certificates from the users of such supplies must be given in the Technical Bid by the bidder. The Purchaser and/ or its nominated representative(s), in order to satisfy itself, may enquire the performance of similarly supplied goods from other Govt or Private users. The user may also inspect and/or test the quoted/ordered goods and the related services to confirm their conformity to the tender qualification criteria, specifications and other quality control details incorporated in the tender/contract at the cost of the purchaser.

(iv) Non-compliance of tender terms, non-submission of required documents, lack of clarity of the specifications, contradiction between bidder specification and supporting documents etc. may lead to rejection of the bid.

(v) Furnishing of wrong/ambiguous information in the compliance statement may lead to rejection of bid and further black-listing of the bidder, if prima-facie it appears that the information in the compliance statement was given with a malafide/fraudulent intent.

Thanking you

Yours sincerely,

Addl. Director

Copy to.

1. I/c. IT Div., CPCB, New Delhi, With a request to upload in the official website please
2. As per list

S.D. 12.2.2019
Addl. Director

ANNEXURE I

Table I: Specifications of Instruments

Sl. No.	NAME OF THE INSTRUMENT	SPECIFICATIONS
1	Portable Carbon Monoxide (CO) Analyser	<p>Range: CO: 0 to 200000 mg/m³ Lower Detection Limit: 0.029 mg/m³ Accuracy: CO: ±5% of reading Technology used: Non Dispersive Infra Red (NDIR) spectroscopy method of measurement Size, Weight and Design: Portable, Light and Fit for Field Work Warranty: 2 years</p>
2	Portable Ammonia (NH ₃) Analyser	<p>Range: 0 to 20000 µg/m³ Lower Detection Limit: 1 µg/m³ Accuracy: ±0.5% Technology used: Chemiluminescence Agency Approval: Accepted by Govt. of India Size, Weight and Design: Portable, Light and Fit for Field Work Warranty: 2 years</p>
3	Portable Ozone (O ₃) Analyser	<p>Range: 0 to 20000 µg/m³ Lower Detection Limit: 0.1 µg/m³ Accuracy: ±0.2% Technology used: UV Photometric/Chemiluminescence Size, Weight and Design: Portable, Light and Fit for Field Work Warranty: 2 years</p>
4	Portable Respirable Dust Sampler/ PM ₁₀ Sampler with Attachment for Gaseous Pollutants Sampling	<p>RDS Flow Rate: 0.9 – 1.4 m³ /min free flow Particle Size: Particles of 10 microns & below collected on Filter Paper. Sampling Time: 28 hours Sampling Time Record: 0 to 9999.99 hrs. recorded on a Time Totalizer Size, Weight and Design: Portable, Light and Fit for Field Work Warranty: Two years</p> <p>Attachment for Gaseous Pollutant Sampling Flow Rate: 0.2 to 2 LPM, accuracy 2% of span Flow Control: Four inlet, one outlet with needle valves for flow control of each unit Sampling Train: 4 Nos. of 35ml Borosilicate glass impingers placed in Thermo-Electric Cooling Tray Size, Weight and Design: Portable, Light and Fit for Field Work Warranty: Two years</p>
5	Portable Gaseous Pollutants Sampler	<p>Absorbers Provided: 3 Nos. of 35ml borosilicate glass impingers and 1 fritted disc impinger (amber glass impinger for monitoring Ozone) placed in thermoelectrically cooled tray. Sampling Rate: 0.3 -2.0 lpm Sampling Train: A manifold having four inlets and one out let manifold with built in needle valves for flow control of each inlet Sampling Time: 28 hours Sampling Time Record: 0 to 9999.99 Hrs Automatic Sampling Control: 24 hr programmable timer to automatically shut off the system after preset interval and In built suction pump, flow meter, time totalizer and timer for auto start / stop Size, Weight and Design: Portable, Light and Fit for Field Work Warranty: Two years</p>

6	Portable Benzene Sampler	<p>Flow Rate Range: 20-200ml/min</p> <p>Calibrated Personal Sampling Pump: Flow within $\pm 2\%$ at the recommended Flow Rate.</p> <p>Built-in Flow: directly indicates the volume of air sampled in liters.</p> <p>Charcoal Tubes: Glass with both ends flame sealed, 7cm long with a 6mm O.D and a 4mm I.D., containing 2 sections of 20/40 mesh activated charcoal separated by a 2mm portion of urethane foam. The activated charcoal is prepared from coconut shells and is fired at 600°C prior to packing. The adsorbing section contains 100mg of charcoal, the back-up section 50mg. A 3mm portion of urethane foam is placed between the outlet end of the tube and the back-up section. A plug of silanized glass wool is placed in front of the adsorbing section. The tube is provided with push-on caps for sealing after sampling. The pressure drop across the tube must be less than one inch of mercury at a flow rate of 1 L per minute</p> <p>Size, Weight and Design: Portable, Light and Fit for Field Work</p> <p>Warranty: Two years</p>
7	Portable UV Spectrophotometer	<p>Wavelength Range: 190-900nm</p> <p>Cells: 1cm and transparent in the near ultraviolet region.</p> <p>Wavelength Accuracy: $\pm 0.2\text{nm}$ (at 352nm, 540nm, 560nm, and 630nm)</p> <p>Wavelength Repeatability: $\pm 0.05\text{nm}$</p> <p>Photometric Range: Absorbance: -4~4 Abs, Transmittance: 0~400 %</p> <p>Photometric Accuracy: ± 0.002 Abs (at 0.5 Abs), ± 0.004 Abs (at 1 Abs), ± 0.006 Abs (at 2 Abs)</p> <p>Photometric Repeatability: 0.001 Abs or less (at 0.5 Abs), 0.001 Abs or less (at 1 Abs), 0.003 Abs or less (at 2 Abs)</p> <p>Light Source: Halogen lamp, Deuterium lamp (Built-in light source position automatic adjustment mechanism)</p> <p>Monochromator: Czerny-Turner spectrometer (Uses blazed holographic grating)</p> <p>Detector: Silicon photodiode</p> <p>Size, Weight and Design: Portable, Light and Fit for Field Work</p> <p>Warranty: Two years</p>
8	Portable Climate Meter	<p>SENSORS SUPPORTED</p> <p>(i) Wind Speed : range 0 to 100 Km/hr.</p> <p>(ii) Wind Direction: range 0 to 360 degrees with 1 degree resolution</p> <p>(iii) Temperature & RH: range 0 to 50 C with resolution of 0.1 C and 0 to 100% RH with 1% resolution</p> <p>(iv) Solar Radiation</p> <p>(v) Barometric Pressure</p> <p>(vi) Rainfall: range 0 to 50 mm/hr with 0.5 mm resolution</p> <p>(vii) Memory Capacity: Forty five days storage of all parameters.</p> <p>(viii) Real Time Sync: Built-in battery backed Real time clock to ensure data is synchronized with real-time even after periods of prolonged power failure</p> <p>(ix) Software: Download to a PC and analysis. Analysis tools include export to MS Excel, Graphs, Monthly Averages & Plot Windrose Diagrams</p> <p>Size, Weight and Design: Portable, Light and Fit for Field Work</p> <p>Warranty: Two years</p>

9	Portable/Handheld pH Meter	Accuracy: ± 0.01 Display: pH and Temperature Size, Weight and Design: Portable, Light and Fit for Field Work Warranty: 2 years
10	Portable Turbidity Meter	Range: 0 – 1000 NTU Accuracy: $\pm 1\%$ Size, Weight and Design: Portable, Light and Fit for Field Work Warranty: 2 years
11	Desktop PC computer with preload operating system	Processor – 7th gen Intel Core™ i5 (6MB Cache, up to 3.00 GHz) RAM – 8GB DDR4 HDD – 1TB USB wired Keyboard and Mouse Windows 10, Integrated LAN, Integrated Graphic, Monitor 16"–18.5" The computer should be supplied with necessary instruction/operation/maintenance manual along with Warranty/Guarantee card. Also necessary computer cable and other peripherals should also be supplied along
12	Laptop	Processor – Intel Core i5 (8 th Gen) RAM – 8GB DDR4 HDD – 1TB Screen Size – 15.6 inch The computer should be supplied with necessary instruction/operation/maintenance manual along with Warranty/Guarantee card. Also necessary computer cable and other peripherals should also be supplied along
13	NOISE METER	Specifications Attached Below (Table II)

Table II: Specifications for Noise Meter

SPECIFICATIONS FOR NOISE METER			
Measurement range			
Lpeak Function			
Upper limit of the indicator:	0 dB		
Lower limit of the indicator:	157.0 dB		
Operating limits modified by the sensitivity of the microphone.			
FREQUENCY WEIGHTING			
Primary Range	A	C	Z
Upper limit	120.0	120.0	120.0
Lower limit	30.0	32.0	38.0
Measurement Range (with nominal sensitivity of microphone):			
Upper limit	137.0	137.0	137.0
Upper limit for crest factor 3:	130.0	130.0	130.0
Upper limit for crest factor 5:	126.0	126.0	126.0
Upper limit for crest factor 10:	120.0	120.0	120.0
Lower limit	24.5	26.0	31.0
Electrical Noise (with nominal sensitivity of the microphone) (typical):	14.4	16.8	21.9
Electrical Noise at 20°C (electrical + thermic of microphone) (typical):	19.6	21.1	25.9
Upper limit of the indicator:	0		dB
Lower limit of the indicator:	160.0		dB
Operating limits are modified by the sensitivity of the microphone.			

Linear measurement range			
Minimum upper limit		140.2	dB
Upper limit with nominal sensitivity of microphone		160.0	dB
Detector - Functions L_F, L_S and L_I			
Maximum error in the maximum response to a tone burst			
Function	Duration of the tone burst (ms)	Maximum error (db)	
LF	200	± 1.0	
LS	500	± 1.0	
LI	20	± 1.5	
	5	± 2.0	
	2	± 2.0	
Maximum error for signals with crest factor ≤ 3:		± 0.5	dB
Maximum error for signals with crest factor ≤ 5:		± 1.0	dB
Maximum error for signals with crest factor ≤ 10:		± 1.5	dB
Maximum overshoot:			
L_F :		1.1	dB
L_S :		1.6	dB
Maximum error of level linearity (31.5 to 12500 Hz):		± 0.7	dB
Maximum error of differential level linearity (31.5 to 12500 Hz):		± 0.2	dB
Peak detector - L_I function			
Decay rate:		2.9 dB/s ± 0.5 dB/s	
Onset time constant:		< 3.5	ms
Peak detector - L_{peak} function			
Onset time constant:		< 75	µs
Integrator - L_T, L_t and L_E functions			
Linearity range:		110	dB
Pulse range:		65	dB
Response time to a steady input signal:		2	s
Frequency weighting			
Frequency weightings available			
Function		A, C or Z	
L_{peak}		A, C or Z	
LF		A, C or Z	
L_S		A, C or Z	
L_I		A, C or Z	
L_E		A, C or Z	
L_T		A, C or Z	
L_t		A, C or Z	
L_x (percentiles)		A	

Measurement range (octave band spectrum analyser)		
L _T Function		
Measurement range (with linearity error lower than 0.4 dB):		
Octave bands with nominal central frequency		
Lower than 63 Hz:	Upper limit:	137 dB
	Lower limit:	31 dB
From 63 Hz to 8 kHz:	Upper limit:	137 dB
	Lower limit:	20 dB
Higher than 8 kHz:	Upper limit:	137 dB
	Lower limit:	25 dB
<i>The noise (electrical + thermic of the microphone) is, as a minimum, 10 dB lower than the lower limit of the measurement range.</i>		
Measurement range (one third octave spectrum analyser)		
L _T Function		
Measurement range (with linearity error lower than 0.4 dB):		
One third octave bands with nominal central frequency		
From 20 Hz to 31,5 Hz:	Upper limit:	137 dB
	Lower limit:	28 dB
From 40 Hz to 5 kHz:	Upper limit:	137 dB
	Lower limit:	20 dB
From 6,3 kHz to 10 kHz:	Upper limit:	137 dB
	Lower limit:	24 dB
<i>The noise (electrical + thermic of the microphone) is, as a minimum, 10 dB lower than the lower limit of the measurement range.</i>		
Size, Weight and Design: Portable, Light and Fit for Field Work with Waterproof mounting system complete with windshield and bird-spikes, Robust weather-proof carrying case and long life battery		
Warranty: 2 years		

Table III: Earnest Money Deposit Amount

Sl No	Type of Equipment/ Instrument	Earnest Money Deposit (₹)
1	Portable Carbon Monoxide (CO) Analyser	60,000/-
2	Portable Ammonia (NH ₃) Meter	7,000/-
3	Portable Ozone (O ₃) Meter	20,000/-
4	Portable Respirable Dust Sampler/ PM ₁₀ Sampler with Attachment for Gaseous Pollutants Sampling	24,000/-
5	Portable Gaseous Pollutants Sampler	4,000/-
6	Portable Benzene Sampler	5,000/-
7	Portable UV Spectrophotometer	8,000/-
8	Portable Climate Meter	5,000/-
9	Portable/Handheld pH Meter	5,000/-
10	Portable Turbidity Meter	10,000/-
11	Desktop PC computer with preload operating system	7,000/-
12	Laptop	8,000/-
13	NOISE METER	35,000/-