

**MINUTES OF THE PRE-BID MEETING REGARDING INVITATION OF BIDS FOR
SUPPLY, INSTALLATION, COMMISSIONING AND OPERATION & MAINTENANCE
SERVICES FOR CONTINUOUS AMBIENT AIR QUALITY
MONITORING STATIONS (CAAQMS) IN UTTARAKHAND-02 Nos**

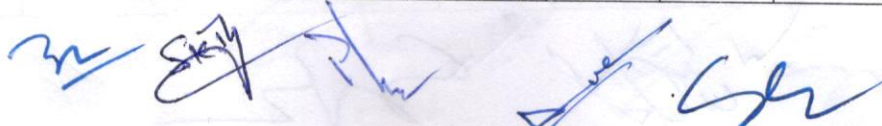
E-Tender and Advertisement was published proposals for Invitation of Bids For Supply, Installation, Commissioning And Operation & Maintenance Services for Continuous Ambient Air Quality Monitoring Stations (Caaqms) In Uttarakhand-02 Nos for which pre-Boid Meetig was held on 24.01.2020 at 11:00 AM in the Head Office. In the meeting following officials of the Board and representatives of the institutions are participated: -

1. Sh S.S. Pal, Chief Environment Officer, UEPPCB, Deharsadun
2. Sh. P.K. Joshi, EE, Environment Engineer, UEPPCB, Dehradun
3. Dr. Ankur Kansal, Environment Engineer, UEPPCB, Dehradun
4. Dr. D.K. Joshji, Scientific Officer, UEPPCB, Dehradun
5. Dr. S.K. Tyagi, Former Additional Director, Central Pollution Control Board as Expert Member
6. Sh Manish Sachan, PCRI, BHEL Haridwar
7. Mr Tamomood Ghosh, Thermo Fisher
8. Ms. Suvika Videsh, Thermo Fisher
9. Mr. Rohit Kumar, Environment SA
10. Mr Gautam Sakuja, Ecotech

During the meeting presentation on the Tender document was made by Board Officials. Various aspects were discussed with the representatives present in the meeting considering to all comments following decisions are taken: -

1. Financial Bid Format to be replaced as follows:-

Sl. No.	Items	Manufacturer	Country of Origin	Model	Quantity in Nos. / Sets	Unit Price (BID CURRENCY INR)	TOTAL Price (BID CURRENCY INR)
1	Monitoring Station foundations	NA	NA	NA	02		
2	Air Conditioner, Split Type, Wall mounted along with voltage stabilizer (2 X 2 ton, 1 X 1 Ton). at the CAAQM Station				06		
3	On line 10 KVA UPS 1 Hr Backup				02		
4	On line 5 KVA UPS/Inverter (02 hr Backup)				02		



5	Sampling System having 10 port sample handling system with Sampling line Internal fitting Instruments racks Electrical and Gas line fittings, Tools (electrical and mechanical) and furniture's.				02		
6	19" Rack cabinet to accommodate all analyzers				02		
7	Ambient Oxides of Nitrogen(NO/NO2/NOx/NH3) Analyzer				02		
8	Ambient Sulphur Dioxide(SO2) Analyzer				02		
9	Ambient Ozone(O3) Analyser				02		
10	Ambient Carbon Monoxide (CO) Analyser				02		
11	BTEX Analyser				02		
12	PM10 MONITOR				02		
13	PM2.5 MONITOR				02		
14	Multi calibration System for Gas calibration and Meteorological, Flow and Electronic Calibration				02		
15	Meteorological Sensors for Wind Direction, Wind Speed, Ambient Temperature, Rainfall, Relative Humidity, Solar Radiation and Telescoping Crank - up Meteorological Tower				02		
16	(a) Data Acquisition System (DAS): One for each CAAQM Station				02		
17	(b) Computer System for DAS				02		
18	(c) Computer System for AQI: One for each CAAQM Station				02		
19	(d) Central Management Software with License w.r.t. Data Acquisition: One for each SPCB*				01		
20	(e) Remote Calibration & Validation Software				01		
21	(f) Remote Connectivity Tool/Software				01		
22	Day & Night Visible Data Display Board (Near to the station)				02		
23	Indoor Doata Display Board for Herad Office				01		
24	Continuous Automatic Monitoring Stations with Sampling line, Internal fitting, Instruments racks, Electrical fittings and Gas line fittings, Tools (electrical and mechanical), Data display system, Recommended spares in a Housing Container				02		





25	Lease Line for Internet AND Broadband (for Station) AND Data Card as mode Communication system (for display Board)				02		
26	RCC foundation, pillars misc works including Caging, civil & electrical work (for CAAQM stations as well as Data Display Boards)				02		
27	Computer system consisting of one PC along with Laser B/W Printer and DAS at the monitoring station				02		
28	Computer system consisting of one PC along with Laser Colour Printer and DAS at the monitoring station				01		

2. Attachment - 8 "FORM OF CERTIFICATE OF SUPPLY OF SPARES AND CONSUMABLES BY MANUFACTURER" is to be modified as follows: - Format to be replaced as follows:

In the second para period of 15 years will be read as period of 10 years.

Bidder shall provide list of minimum consumables/spare parts along with mandatory requirement/ frequency to change the specific spare parts/ consumable and numbers thereof.

Table will be modified as follows: -

Item No.	Name of Equipment	Name of spare part/ consumable	Quantity/number	Frequency of change of Consumable or spare part


3. In the Terms & Conditions For Operation And Maintenance Contract at page no. 41 S. No 17 shall be inserted and read as follows: - The O&M cost will be minimum 15% of the total equipment cost (FOR Cost).
4. In the entire bid document, O&M will be read as for 10 Years. The word "O&M for next 05 year will be deemed omitted" Accordingly the Attachment 13 will also be treated as deemed omitted. Bidder shall write NA in this table/Attachment.
5. Page No. 37 Para 7 (C): It is clarified that the qualified staff means minimum diploma holder in electronics/ instrumentation with one-year experience in O&M of CAAQMS.

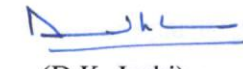
6. Page No 59: Annexure-IV: Para-2 "Payment" stands amended as below: -
85% Payment will be made through letter of credit for all import items against the supply of valid documents with in 30 days. However, for local supply 80% payment will be made after dispatch of the items and submission of the valid documentation with in 30 days after proper certification of Bill by Officer I/c. Rest of the payment will be made after satisfactory installation/commissioning and performance demonstration of the system to the satisfaction of the concerning Board Officials/Committee.
7. EMD to be submitted in the form of Bank Guarantee: bank Details are as follows:
Bank Name: Central Bank of India, Branch, Arvind Marg Dehradun
Account No. 3727208403, IFSC Code: CBIN0283170
8. Page No 59: Annexure-IV: Para-2 "Delivery" stand amended as follows: - The instrument should be supplied within 120 days from the date of opening of Letter of Credit (L/C) for equipment to be supplied from foreign country.
9. Page 36: In the Para TERMS & CONDITIONS FOR OPERATION AND MAINTENANCE CONTRACT, it is clarified that monthly charges/ recurring cost towards electricity bill and phone bill etc towards the O&M to be beared by the Bidder.
10. Page 07 Annexure-1. It is modified as the Bidder shall provide atleast one solar lamp/light at the CAAQMS site
11. In the Technical Attachment Page 19/43 Para-7.1 (1)- iv, vi, vii and para 7.1 (4) stands deleted.
12. In the Technical Attachment Page 12/43 Para 4.1.8 The Gas Clynder capacity may be read as 10 Lit or bigger and traceability of Gas may be read as NIST or CSIR-NPL India. With maximum Measurement of Uncertaninty (MU) value less than or equal to 2%.
13. In the Technical Attachment Page 13/43 after Part (VI), Part (VII) shall be inserted and read as follows: -
Part (VII): Claibration / Verification record of LOD/LOQ, Linairaity and Uncertainty of measurement for each analyser/parameter.
14. In the Technical Attachment Page 13/43 Para 4.5 (vii) Quality Assurance to be given with procedure of calculation of LOD/LOQ, Linairaity and Uncertainty of measurement for each analyser/parameter.
15. In the Para No 20 at page No 11 the value of liqudated damage rate will be read as 5% instead of 10%.
16. In the Technical Attachment Page 15/43 Para 5.3 (Ambient Ammonia Analyse): Point No- 07 in the table Zero Drift shall be read as less than 02 ppb. In the same table Point no-12 Rise/ Fall Tie m to be read as less than 300 sec.




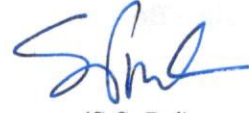
17. In the Technical Attachment Page 21/43: Note: -(ii) is amended as follows:- All the meteorological sensor should be certified/ traceable to World Meteorological Organization (WMO) or they shall be of nternationally repute make. Software should also have certification from the appropriate international agency.


Further committee has decided to inspect the manufacturer/ supplier factory/site to witness pre-shipment quality assurance testing facilty of the equipments. Board will bear travel of the committee members. However, local logistic and other arrangements have to be made by the supplier.


(Ankur Kansal)
Env. Engineer
UEPPCB


(D.K. Joshi)
Scientific Officer
UEPPCB


(P.K. Joshi)
Env. Engineer
UEPPCB


(S.S. Pal)
Chief Env. Officer
UEPPCB


Dr. S.K. Tyagi
Former Additional
Director, CPCB

HEAD OFFICE

गौरा देवी पर्यावरण भवन

Uttarakhand Environment Protection
and Pollution Control Board
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Dehradun(Uttarakhand)



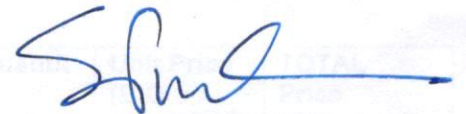
उत्तराखण्ड पर्यावरण संरक्षण एवं
प्रदूषण नियंत्रण बोर्ड
46-बी, सिडकुल, आईटीओ पार्क, सहस्त्रधारा रोड, देहरादून (उत्तराखण्ड)

UEPPCB/HO/Gen-350/2020/ 10321-1696,

dated 24/01/2020,

Copy to Following for information and necessary action:-

1. Member Secretary, UEPPCB for information please.
2. All Participants of the meeting.
3. Sh. Nikhil, Programmer, with a direction to upload the same on e-tender and update BOQ accordingly.
4. Guard file.



Chief Environment Officer