

**SUPPLY, INSTALLATION, COMMISSIONING, OPERATION & MAINTENANCE SERVICES FOR CONTINUOUS AMBIENT AIR QUALITY MONITORING STATIONS (CAAQMS) & MOBILE AAQMS IN RAJASTHAN**

**Amendment no:1 to Bid Documents**

Sl. No.	Reference	Existing	Amended as
1.	Scope of Work Section-II, Attachment 1S Schedule No.12 (page 20 of 21)	Online UPS 10 KVA, capacity (Three Phase I/P and Single Phase O/P, with 02 hrs backup) (for Air Conditioner) : 37 nos	Online UPS 10 KVA, capacity (Three Phase I/P and Single Phase O/P, with 02 hrs backup) (for Air Conditioner): 35 nos
2	Scope of Work Section-II, Attachment 1S Schedule No.13 (page 20 of 21)	Online UPS 5 kVA, capacity (Single Phase I/P & Single phase O/P, with 02hrs backup) (01 for Analysers & 01 for Server at Central Station): 39 Nos	Online UPS 5 kVA, capacity (Single Phase I/P & Single phase O/P, with 02 hrs backup) (01 each for Analysers, 01 for Server at Central Station and 01 each for AC n Mobile Vans): 40 Nos
3.	Clause 15.1 (SCC)	The Performance Bank Guarantee shall be in the name of RSPCB	The Performance Bank Guarantee shall be in the name of <b>Member Secretary, RSPCB</b>
4	Clause 4.1.8, Vol-II, Technical Specification	The analyzers should complete with calibration system. The calibration system should be delivered along-with respective span gas cylinder/permeation tubes.	The analyzers should be complete with calibration system. The calibration system should be delivered along-with respective span gas cylinder and permeation tube.
5	Clause 7.1, Vol-II, Technical Specification	v. Calibration system using permeation .....provided	v. Calibration using permeation tube-based permeation system has to be provided.

6	Clause 2.1.1, & Clause 2.2.1 Vol-II, Technical Specification	Type & capacity: 2 Nos. split type, 2 ton capacity AC, roof mounted of 5star..... with each unit.  Type & capacity: 2 Nos. split type, 1 ton capacity AC, roof mounted of 5star..... with each unit.	Type & capacity: 2 Nos. split type, 2 ton capacity AC, wall mounted of 5 star..... with each unit.  Type & capacity: 2 Nos. split type, 1 ton capacity AC, wall mounted of 5 star..... with each unit.
7	BOQ, B) MINIMUM REQUIREMENT FOR MAAQ VAN, Vol-II, Technical Specification	PETROL GENERATOR SET-10KVA	PETROL GENERATOR SET-MINIMUM 7.5 KVA OR MORE AS PER THE LOAD REQUIREMENT. (accordingly, KVA specified at Sl. no. 32 of Attachment 3F (Section-IV Form of Financial Bid) stands amended to 7.5 KVA)
8	Clause 8.1, Note II, VOL II, Technical Specification	All the meteorological sensor should be certified/traceable to World Meteorological Organisation (WMO)and.....international agency.	All the meteorological sensor should be certified/traceable to World Meteorological Organisation (WMO)/NIST and.....international agency.
9.	Clause 4.1.1, Vol II, Technical Specification	All ambient Gas Analysers and Dust Monitor shall conform to the US EPA reference or equivalent method. A proof of approvals and certificates of the above compliance along with copy of the Test Report (in English) from internationally reputed agencies such as US EPA, TUV / UAB of Germany, Env. Canada, Env. Japan, EEC etc shall be furnished.	All ambient Gas Analysers and Dust Monitor shall conform to the US EPA reference or equivalent method. A proof of approvals and certificates of the above compliance along with copy of the Test Report (in English) from internationally reputed agencies such as US EPA, TUV / MCERT,UAB of Germany, Env. Canada, Env. Japan, EEC etc shall be furnished.
10.	Clause 6.0 of SCC, Volume-I	All the equipment shall be received at Continuous Ambient Air Quality Monitoring Station site, within 13 weeks from the date of Notification of Award and are to be installed and commissioned within 15 weeks from date of receipt at site. Mobile vans are to be delivered at RSPCB headquarter in Jaipur.  All the equipment of the awarded package shall be commissioned within 28 weeks from the date	All the equipment shall be received at Continuous Ambient Air Quality Monitoring Station site, within 17 weeks from the date of Notification of Award and are to be installed and commissioned within 15 weeks from date of receipt at site. Mobile vans are to be delivered at RSPCB headquarter in Jaipur.  All the equipment of the awarded package shall be commissioned within 32 weeks from the date of notification of award including all the incidental services i.e. training etc.

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11.	Clause 11.0 of SCC, Volume-I	The supplier has to install and commission CAAQMS and Mobile AAQMS along with training to lab personnel within period of 28 weeks from date of issue of Notification of Award, if it is not completed within 28 weeks, LD clause will be applicable as per clause 16.0 of SCC	The supplier has to install and commission CAAQMS and Mobile AAQMS along with training to lab personnel within period of 32 weeks from date of issue of Notification of Award, if it is not completed within 32 weeks, LD clause will be applicable as per clause 16.0 of SCC.
12.	Clause 18.2 of GCC, Volume-I	In case O & M is not awarded / terminated the equipment shall remain warranted for 10 years from date of commissioning of the station..	In case O & M is terminated the equipment shall remain warranted for 12 months from the date of commissioning or 18 months from the date of supply, whichever is earlier.
13.	Attachment 3AF, Section-IV, Volume-1	NOTE: A. GST SHALL BE PAYABLE ON THE SERVICE PORTION OF O&M COST ONLY (EXCLUDING SUPPLY OF SPARES FOR MAINTENANCE & OVERHAULING).  B. COST OF MATERIAL INCLUDING SPARES & CONSUMABLES FOR OPERATION & MAINTENANCE SHALL BE INCLUSIVE OF ALL TAXES & DUTIES.	NOTE: A. GST SHALL BE PAYABLE EXTRA ON THE TOTAL O&M CHARGES.  B. Deleted  <b>Replace Attachment 3AF with Attachment 3AF(R)</b> as per Annexure-1 to Amendment No. 1 to Bid Documents  <b>Also, Replace Attachment 2F with Attachment 2F(R)</b> as per Annexure-1 to Amendment No. 1 to Bid Documents
14.	Clause 5.1, ITB, Section-I	Documents to be submitted in hard copy in separate sealed envelope	Bidder to upload scanned copy of documents online, however bid evaluation of such bidders shall be processed on receipt of hardcopy of required documents.

15.	BOQ, B) MINIMUM REQUIREMENT FOR MAAQ VAN, Vol-II, Technical Specification	Rack Server (For Central station at SPCB) ---1 No.	DELETED. In view of above, total quantity of Rack server at sl. no. 7 of Attachment 1S stands revised to 1 (from existing 2).								
16.	BOQ, B) MINIMUM REQUIREMENT FOR MAAQ VAN, Vol-II, Technical Specification	Online UPS 5 kVA, capacity (Single Phase I/P & Single phase O/P, with 02 hrs backup) (01 for Analysers & 01 for Server at Central Station) <table border="1" data-bbox="535 511 1186 576"> <tr> <th>Qty in Nos./Van</th> <th>Total Quantity</th> </tr> <tr> <td>1</td> <td>3</td> </tr> </table>	Qty in Nos./Van	Total Quantity	1	3	Online UPS 5 kVA, capacity (Single Phase I/P & Single phase O/P, with 02 hrs backup) (01 for Analysers) <table border="1" data-bbox="1207 479 1911 544"> <tr> <th>Qty in Nos./Van</th> <th>Total Quantity</th> </tr> <tr> <td>1</td> <td>2</td> </tr> </table>	Qty in Nos./Van	Total Quantity	1	2
Qty in Nos./Van	Total Quantity										
1	3										
Qty in Nos./Van	Total Quantity										
1	2										
17.	Clause 5.4(10), Vol II, Technical Specification	<b>5.4 AMBIENT CARBON MONOXIDE (CO) ANALYSER</b> <table border="1" data-bbox="535 836 1186 868"> <tr> <td>10.</td> <td>Response Time</td> <td>30 seconds or less</td> </tr> </table>	10.	Response Time	30 seconds or less	<b>5.4 AMBIENT CARBON MONOXIDE (CO) ANALYSER</b> <table border="1" data-bbox="1207 795 1911 828"> <tr> <td>10.</td> <td>Response Time</td> <td>60 seconds or less</td> </tr> </table>	10.	Response Time	60 seconds or less		
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18.	BOQ, B) MINIMUM REQUIREMENT FOR MAAQ VAN, Vol-II, Technical Specification	Vehicle model number TATA LPT 709Ex 2/Mahindra Loadking or equivalent of reputed make along with vehicle frame (Chassis build up) air conditioned and thermally stable instrument cabin. Arrangements like Thermally Stable Housing (Body Built up)for installation of Continuous Ambient air quality Monitoring analysers with Sampling line, Internal fittings, Instruments racks, Electrical and Gas line Fittings, Tools (electrical and mechanical).	Vehicles of reputed make/model like TATA Ultra 1412/, MAHINDRA, ASHOK LEYLAND, EICHER or equivalent of reputed make compatible with BS VI along with vehicle frame (Chassis build up) air conditioned and thermally stable instrument cabin. Arrangements like Thermally Stable Housing (Body Built up) for installation of Continuous Ambient air quality Monitoring analysers with Sampling line, Internal fittings, Instruments racks, Electrical and Gas line Fittings, Tools (electrical and mechanical) are included.								

19.	BOQ, A) MINIMUM REQUIREMENTS FOR AAQM STATION, Vol-II, Technical Specification	Brief Description	Qty. in No./Station	Total Quantity	Brief Description	Qty. in No./Station	Total Quantity	
		Manageable CISCO Switch (Rack Mountable)	1	35	Manageable CISCO Switch (Rack Mountable) : 1 No. at each station and 1No. at Central Station	1	36	
		(In view of above, total quantity at sl. no. 21 of Attachment 1S stands revised to 38).						
20.	Clause 10.10 , Vol II, Technical Specification	<ul style="list-style-type: none"> <li>Colour Laser printer (2 nos. - one A3 &amp; one A4 size)</li> </ul>		<ul style="list-style-type: none"> <li>Colour Laser printer (1 nos. - A3 size)</li> </ul>				
21.	Clause 14 , Vol II, Technical Specification	DAY LIGHT & NIGHT VISIBLE DATA DISPLAY SYSTEM		DAY LIGHT & NIGHT VISIBLE DATA DISPLAY SYSTEM Display board should be compatible to display the data related to pollutant, AQI in public awareness form with the colour code of AQI and AQI health advisory. Environment conservation notification will also be shown The system should also have the facility to display the environment message, environmental picture through video camera / VCR / CD Player etc. for public awareness.				
22.	Scope of Work	O&M of Mobile Van		Mobile van may be used 24X7 for monitoring of ambient air quality. Further, if mobile van is out stationed then all the expenses of the driver and technician will be borne by the bidder.				
23.	Section-III (Form of Techno-Commercial Bid) ATTACHMENT 3AT &	Existing " <b>ATTACHMENT 3AT</b> "		Replace with " <b>ATTACHMENT 3AT(R)</b> " as per Annexure-1 to Amendment No. 1 to Bid Documents				

<Letterhead of the Manufacturer>  
**FORM OF CERTIFICATE OF SUPPLY OF SPARES AND CONSUMABLES BY  
MANUFACTURER**

Date:

To,

**Add. General Manager (C&M)  
Consultancy Wing,  
NTPC Ltd,  
EOC Annexe Building,  
A-8A, Sector-24, Noida-201301,  
India.**

**Sub: Certificate of Supply of Consumables and Spare Parts by Manufacturer**

This is to certify that we .....(Name of Manufacturer).... shall supply the consumables and spare parts of the equipment mentioned below during O&M period under the contract..... (contract detail)..... to the contractor .....(Name of the contractor).../ Owner (RSPCB) in case of termination of Contract.

It is hereby guaranteed that we shall maintain stocks of consumables and spare parts for the following equipment for a period of Seven (7) years after the commissioning of the equipment in India.

Item No.	Name of Equipment	Name of Manufacturer

Signature:

Name of Person:

Position:

Name of Manufacturer:

Office Seal of Manufacturer:

Legal Address of Manufacturer:

**SUMMARY OF BID PRICE**

DESCRIPTION	Value in Indian Rs. for 35 CAAQMS & 2 MOBILE AAQMS
<b>I. SUPPLY</b>	
The FOR destination price of the Equipment	
<b>II. O&amp;M CHARGES</b>	
Total O&M charges for Seven years as indicated in Attachment 3AF	
<b>GRAND TOTAL CONTRACT PRICE (INR) (I + II )</b>	

**NOTE:**

1. Contract Price quoted for Supply part shall be on FOR destination basis and shall include all cost e.g. custom duty, transportation, insurance, installation, commissioning, training, etc. No additional charges will be paid by RSPCB
2. ONLY GST SHALL BE PAYABLE EXTRA AS PER APPLICABLE RATE BY THE OWNER.
3. QUOTED COST OF O&M OF CAAQMS & MOBILE AAQMS FOR EACH YEAR SHOULD BE AT LEAST 15% OF THE COST OF SUPPLY (FOR DESTINATION) OF THE CAAQMS & MOBILE AAQMS. IN CASE THE BIDDER QUOTES O&M COST LOWER THAN 15% OF THE SUPPLY (FOR DESTINATION) COST, THE OWNER WILL REDUCE THE SUPPLY (FOR DESTINATION) COST SUITABLY, SO AS TO MAKE THE O&M COST AS 15% OF THE SUPPLY COST (FOR DESTINATION), KEEPING THE TOTAL QUOTED COST AS UNCHANGED.

**ATTACHMENT 3AF(R)**  
**(Section-IV Form of Financial Bid)**

**BID PRICE BREAKUP FOR O&M OF CAAQM AND MOBILE AAQM STATIONS FOR SEVEN YEARS**

<b>Sl. No.</b>	<b>Year of O&amp;M</b>	<b>Service charges (70%) for O&amp;M in Rs.  (i)</b>	<b>Cost of (Incidental charges(30%) consisting of security, Electricity, Phones/ internet, Manpower, AMCs material including spares &amp; consumables for Operation &amp; maintenance and other in Rs.  (ii)</b>	<b>Total Charges for the year in Rs.  (i)+(ii)</b>
1.	1 <sup>st</sup> year			
2.	2 <sup>nd</sup> year			
3.	3 <sup>rd</sup> year			
4.	4 <sup>th</sup> year			
5.	5 <sup>th</sup> year			
6.	6 <sup>th</sup> year			
7.	7 <sup>th</sup> year			
<b>TOTAL</b>				

**Total Bid Price of CAAQM and Mobile CAAQM Stations shall be transferred to Attachment 2F(R) under Column “Value in Indian Rs. For 35 CAAQMS& 2 MOBILE AAQMS”**

**NOTE: GST SHALL BE PAYABLE EXTRA ON THE TOTAL O&M CHARGES.**

CAAQM & MOBILE AAQM Stations for RSPCB	Bidding Doc. No.: CW-CM-11080-C-O-M-001	Annexure- 1 to Amendment No. 1 to Bid Documents	Page 1 of 1
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