

Reply of Clarification of Vendors for purchase of 15 nos. of CAAQMS

S.No.	Tender Clause	Question	Clarification
1.	Mode of Submission: Physical submission through speed post/registered post/courier or in person.	Kindly confirm whether the entire bid—both Techno- Commercial Bid and the Price Bid to be submitted in physical mode only or there is online mode available. Also confirm whether bid to be submitted in both modes (Physical & Online).	It is clarified that both Techno-Commercial Bid and the Price Bid will be submitted in physical mode only.
2.	EMD Price: Indian Rupees 5% /- only in the form of Bank draft/ Bank Guarantee, in favor of Member Secretary, Jharkhand State Pollution Control Board, payable at Ranchi.	EMD in terms of percentage of submitted bid value will be declared the quoted bid price value and hence, it will be against securities & basic norm of tender. In view of the above, fixed EMD value must be indicated which will be common for all bidders.	The Earnest Money Deposit (EMD) amount of approx. 80 lakhs to be submitted.
3.	ANNEXURE – I Air Conditioner, Split Type, Roof Mounted along with voltage stabilizer (2x2 ton, 1x 1ton)- 2 unit Air Conditioner, Split Type, Roof Mounted along with voltage stabiliser (2x2 ton, 1x 1ton)- 3 Unit	We understand that total 3 Units of AC (2x2 ton, 1x 1ton) to be considered for each CAAQMS Station. Kindly Confirm. Also, split type wall mounted air conditioners to be considered in place of roof mounted. Kindly Confirm.	3 wall-mounted air conditioners shall be considered, comprising 2 units of 2x2-ton capacity each and one unit of 1x 1-ton capacity.
4.	Total Nos. of CAAQMS required: pre-defined city/ location (Total Quantity required is 15 Nos of Continuous Ambient Air Quality Monitoring Stations). Total Mention locations on page no 49 for CAAQMS : 17 nos.	As per the page no. 11, the total qty. of supply is mentioned as 15 units. Whereas, on Page No. 52, a total of 17 locations are listed. Kindly confirm the exact quantity required and confirm the name of the locations to be considered accordingly.	Clarified the issue

5.	<p>The Bidder shall enclose scan copy of the Bid Security in the mentioned .pdf file in the portal i.e., https://jspcb.org.in/ and "ORIGINAL" will be submitted on the date mentioned in the NIT.</p> <p>The Bidder shall enclose scan copy of all the Qualification documents as follows in the mentioned .pdf file in the portal i.e., https://jspcb.org.in/.</p> <p>The Bidder shall enter a price or rate against all the forms specified in the following Subclauses from 6.2 to 6.5 and Attachments in Section IV and scan copy of the same will be uploaded in the portal i.e., https://jspcb.org.in/ in financial packet only.</p>	<p>We are unable to locate the section or file upload option on the portal to submit the required scanned documents in the specified .pdf format. Please guide us how and where to upload as we tried finding but could not locate.</p>	<p>The Bid Security link shall be provided/updated in due course.</p>
6.	<p>18.0 WARRANTY / O & M CONTRACT : All the CAAQMS's shall be under O&M Contract from the date of commissioning of the CAAQMS's.</p> <p>In case O & M is not awarded / terminated the equipment shall remain warranted for 3 years from the date of commissioning.</p> <p>O&M Contract The contractor shall carry out Operation & Maintenance of Air Monitoring Stations for a period of five (5) years after expiry of manufacturer's warranty.</p>	<p>We understand O&M is applicable from the date of the commissioning of the CAAQMS.</p> <p>Kindly confirm.</p>	<p>The entire tender document will be revised to reflect that Operation and Maintenance (O&M) is applicable post-commissioning.</p>

7.	The analyzers must have 3 x analogue inputs with 160 uV resolution for connection of external sensors such as wind speed and direction, relative humidity and temperature sensors.	Since, all meteorological sensors output shall be connected and displayed in the local DAS. Therefore, 3 x analogue inputs with 160 uV resolution for connection of external sensors such as wind speed and direction, relative humidity and temperature sensors should not be necessary. Kindly provide your acceptance.	Serial output is needed inspite of analogue inputs
8.	Gas analyzers should have tactile sturdy number pad for inputs setting instead of touch screen.	Please note that the number pad is the old technology and now latest technology is touch screen type. Hence, any option can be accepted. Kindly confirm.	Both touchscreen and keypad interfaces shall be considered acceptable.
9.	Output Signals or Analog Output : 3 Analog output 0 – 1 V, 0 – 10 V, 0 – 20 mA or 4 – 20 mA.	Kindly note that analog outputs are no longer accepted by the CPCB. Standard Serial outputs are now used for uploading data to CPCB and SPCB. Kindly request you to accept only Serial signal output (USB/ Ethernet).	As in S. No. 8
10.	(H) Continuous Black Carbon (BC) Monitor : Principle : Filter-Based Multiple Wavelength Optical Absorption	Please note that this is a specific technology mentioned while other better technologies are available having various advantages. Hence, it should not be limited to one specific technology and other technologies like photoacoustic absorption technology should also be accepted. Kindly Confirm.	Equivalent or superior technologies for continuous Black Carbon (BC) measurement may be considered
11.	(H) BTX MONITOR / ANALYSER	The given specification is not in line with the specifications published by central pollution control board for National ambient air quality monitoring systems. We request you to kindly consider the specifications as publish by central pollution control board and followed by all other state pollution control board.	The matter will be reviewed, and necessary updates shall be incorporated in the Tender Document accordingly

12.	Data display at display board outside the office at central location also	We understand that the one data display board is required at Central Station also. which is not appearing in BOM & Bid Price breakup. Please confirm the requirement of display board at central station. Accordingly please revise BOM & Bid price breakup.	Clarified the issue
13	Central Staion	We understand that the one no of central station is required at HO, which comprises of PC, DAS, Rack server, Manageable CISCO Switch, 42 U Industrial rack, Access point, UTM device. Kindly Confirm.	Clarified the issue
14.	General: Technical specifications for continuous real time ambient air quality monitoring analyzers/stations.	We believe these technical specifications are outdated or alligned with few specific vendors. We request that the technical specifications be revised in accordance with the CPCB guidelines published in 2019, which are consistently adhered to by all State Pollution Control Boards.	The matter will be reviewed, and necessary updates shall be incorporated in the Tender Document accordingly
15.	Bank Details	Request to customer to provide bank details in regards the submission of bank gaurantee.	Clarified the issue
16.	ITB Cl. 4.4 – Bid Security// Earnest Money Sl. 1 “.....The NSIC registered companies (Explanation: Traders/ resellers/ distributors/ authorized agents will not be considered for availing benefits under PP Policy, 2012 for MSEs as per MSE guidelines issued by MoMSME) will be exempted from depositing EMD.	We refer to the relevant clause regarding EMD (Earnest Money Deposit) in the tender document. As per Government of India notifications, manufacturers holding valid MSME/Udyam registrations are exempted from the payment of EMD, in addition to NSIC-registered companies. We are a registered MSME manufacturer and possess valid MSME and Udyam registrations. Kindly confirm	Already clarified in the clause and will be guided under PP policy, 2012.

		the exemption from EMD is also applicable to us under the said clause.	
17.	<p><u>Special Conditions of Contract</u> Equipment to be supplied All the equipment shall be received at Continuous Ambient Air Quality Monitoring Station Site, within 180 days from the date of signing of contract agreement by both the parties and are to be installed and commissioned within Ninety (90) days from date of receipt at site. Commissioning and others incidental services:</p>	<p>With reference to the tender specifications, the overall supply completion period has been defined as 180 days from the date of award of contract & 90 days for Installation & Commissioning. We would like to submit that the timeline may be insufficient, considering the large-scale turnkey nature of the project involving the supply and installation of 15 Continuous Ambient Air Quality Monitoring Stations (CAAQMS) and 15 Display Boards across multiple locations in the State of Madhya Pradesh. Given the complexity of the CAAQMS systems—comprising multiple sub-assemblies and components such as shelters, analyzers, meteorological sensors, data loggers, and large outdoor display boards—along with the logistics and coordination involved in site readiness across several districts, the stipulated period appears to be too short for effective and compliant execution. Accordingly, we request you to kindly consider revising the schedule as follows: Delivery Period: 240 days from the date of issuance of the Notification of Award (NOA). Installation & Commissioning: To be completed within 120 days from the date of receipt of materials at the respective sites. We request your kind consideration and confirmation on the above to ensure realistic timelines and quality execution of the project.</p>	Clarified the issue

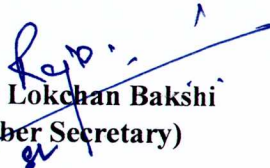
18.	<p>Special Conditions to Contract</p> <p>CL. 13.0 PAYMENT (GCC CLAUSE 25)</p> <p>Payment of goods and services (excluding O&M charges) supplied from India.</p> <p>On Shipment: Eighty (80) percent of the contract price of the Goods shipped shall be paid through irrevocable Letter of Credit</p> <p>On Final Acceptance: Balance Twenty (20) percent of contract price of the equipment including 100% of the local costs, incidental cost, costs of training after satisfactory completion of installation & commissioning including Training..."</p>	<p>With reference to the payment terms specified under SCC Clause 13(a) & (b) of the tender document., we wish to highlight that the currently stipulated payment structure may significantly impact our cash flow during the execution phase of this large-scale project. This may, in turn, affect timely manufacturing, delivery, and installation, thereby potentially impacting overall project execution timelines.</p> <p>In view of the above, we respectfully request that the following payment terms be considered for Indian manufacturers:</p> <p>90% payment to be made through an Irrevocable Letter of Credit (LC) upon dispatch of goods.</p> <p>Balance 10% payment to be released upon successful Installation & Commissioning (I&C) at the site.</p> <p>We request your kind confirmation and favorable consideration of this request, which will enable broader participation from Indian OEMs and ensure smooth and timely execution of the project.</p>	<p>Requests for changes shall not be accepted or taken into consideration."</p>
19.	<p>Technical Specification</p> <p>Ambient NO-NO2-NOx, Analyser Ambient NH3, Analyser</p>	<p>Kindly confirm whether a single combined Gas Analyser capable of measuring NO/NO₂/NO_x and NH₃ (Ammonia) is acceptable in place of two separate analysers for NO-NO₂-NO_x and NH₃ Ammonia.</p> <p>The single Gas Analyser can simultaneously provide separate and accurate measurements for both NO/NO₂/NO_x and NH₃ Ammonia.</p> <p>Please confirm the acceptability of this configuration.</p>	<p>In lieu of two separate analyzers for NO-NO₂-NO_x and NH₃, a combined gas analyzer with the capability to measure all four parameters shall be considered acceptable.</p>
20.	<p>Tender due date extension.</p>	<p>In view of the clarifications sought in the above queries, which may significantly impact the techno-commercial competitiveness of the bid, we respectfully request that the bid submission deadline be extended by 15 days from the date of issuance of your response to these queries.</p>	<p>Extension of the tender due date may be considered.</p>

		Kindly consider and confirm the extension.	
21.	The bidder should have at least five years' experience in Supply, Installation, and Commissioning, Operation & Maintenance experience of minimum eight parameters of the tendered equipment / analyzers and should be in satisfactory operation of Real time Continuous Ambient Air Quality Monitoring Stations with CPCB or any of the SPCB in India.	The Authorized Representative /OEM should have at least five years' experience in Supply, Installation, and Commissioning, Operation & Maintenance experience of minimum eight parameters of the tendered equipment / analyzers and should be in satisfactory operation of Real time Continuous Ambient Air Quality Monitoring Stations with CPCB/SPCB/PSU/Government customer in India.	The proposal to accept experience limited to eight parameters of the tendered analysers in projects executed for CPCB/SPCB/PSU/Government agencies in India is hereby not accepted.
22.	The bidder should be a manufacturer or authorized representative as listed in the scope of work who must have manufactured, supplied, tested and commissioned minimum ten (10) nos. of similar air monitoring stations (CAAQM stations for all eight (CO, SO2, NH3, NO/NO2/NOx, O3, BTX, PM10, PM2.5) AAQ monitoring parameters) in India in any one year of the last five years which should be in satisfactory operation with CPCB or any of the SPCB in India. Client's certificate or completion certificate in clients letter head shall be submitted by the bidder in compliance to same.	The Authorized Representative /OEM have manufactured, supplied, tested and commissioned minimum ten (10) nos. of similar air monitoring stations (Similar air monitoring stations" stands for CAAQM stations containing at least five analyzers out of eight base analyzers)in India in any one year of the last five years which should be in satisfactory operation with CPCB/SPCB/PSU/Government customer in India. Client's certificate or completion certificate shall be submitted by the bidder in compliance to same.	As discussed, CAAQM station for all 8 parameters are required.
23.	The bidder, a manufacturer or authorized representative must design and manufacture equipment used in the systems in order to provide a high level of control over the quality of the systems. All the component of	2.5.4 The bidder, a manufacturer or authorized representative must design and manufacture equipment used in the systems in order to provide a high level of control over the quality of the systems. All the component of CAAQMS including all gas analyzers,	The request for equipment of the same make and manufacturer shall not be entertained.

	CAAQMS including all gas analyzers, calibration systems, zero air generators, sample manifolds, data acquisition system and central data management software must be of the same make & manufactured by the supplier.	calibration systems, zero air generators, sample manifolds, Except Btex , Sample manifold,DAS,CDAS must be of the same make & manufactured by the supplier.	
24.	The bidder, as authorized representative, supplied, tested and commissioned minimum ten (10) nos. similar air monitoring stations (CAAQM stations for all eight (CO, SO2, NH3, NO/NO2/NOx, O3, BTX, PM10, PM2.5) AAQ monitoring parameters) with CPCB or any of the SPCB in India in any one year of the last five years which should be in satisfactory operation with no adverse report as on date of bid opening. Client's certificate or completion certificate in clients letter head shall be submitted by the bidder in compliance to same.	The Authorized Representative /OEM have manufactured, supplied, tested and commissioned minimum ten (10) nos. of similar air monitoring stations (Similar air monitoring stations" stands for CAAQM stations containing at least five analyzers out of eight base analyzers)in India in any one year of the last five years which should be in satisfactory operation with CPCB/SPCB/PSU/Government customer in India. Client's certificate or completion certificate shall be submitted by the bidder in compliance to same.	As discussed, CAAQM station for all 8 parameters are required.
25.	The bidder should furnish the information on all past supplied and satisfactory performance for both 2.5.1 and 2.5.4 (ii) above, in "Performance Statement" as per Attachment No. 8 B & 8 C respectively of Section-III and documentary evidences for minimum five (5) nos. of CAAQMs, client certificate in favor of bidder or manufacturers of equipment for similar air monitoring stations (CAAQM stations for all eight (CO, SO2, NH3, NO/NO2/NOx, O3, BTX, PM10, PM2.5) AAQ monitoring parameters) with CPCB or any of the SPCB in India towards support of the satisfactory operation of similar air	The bidder should furnish the information on all past supplied and satisfactory performance for both 2.5.1 and 2.5.4 (ii) above, in "Performance Statement" as per Attachment No. 8 B & 8 C respectively of Section-III and documentary evidences for minimum five (5) nos. of CAAQMs, client certificate in favor of manufacturers of equipment for similar air monitoring stations (CAAQM stations for five(CO, SO2, NO/NO2/NOx, PM10, PM2.5) AAQ monitoring parameters) with govt/ PSU/ CPCB or any of the SPCB in India towards support of the satisfactory operation of similar air monitoring stations, which is in use for last two (2) years in case bidder is either manufacturer / authorised representative or for last two (2) year	As discussed, CAAQM station for all 8 parameters are required.

	monitoring stations, which is in use for last two (2) years in case bidder is manufacturer or for last two (2) year in case bidder is authorized representative.		
26.	The bidder shall submit latest AQI report for any of the supplied & installed CAAQMS by bidder, including all the specified 8 parameters dully approved by CPCB/ SPCBs.	We shall share the our AAQMS Install list and Credentials of Jharkhand State	Vendors may either provide an Excel sheet reflecting data for all the 8 parameters as available on the server, or submit a formal data report for the same
27.	Data shall be collected and validated according to US EPA standards/National Ambient Air Quality Standards using the methodologies included in 40 Code of Federal Regulations. All analyzers shall have current US EPA reference or equivalent method designation (Except BTEX, Black Carbon, NH3) and shall be of the latest model and design and a certificate in this regard also need to be submitted.	Analysers should be USEPA approved and certificate shall be submitted	Clarified the issue
28.	This warranty includes all spare parts and services to keep the instruments and equipment in operating condition. In case O & M is not awarded / terminated the equipment shall remain warranted for 3 years from the date of commissioning.	As per tender scope of work include supply and O&M after commissioning, thus the O&M shall start right after commissioning, and warranty, Warraty covers the manufacturing defets of our Analyzers only, daily operation and maintanace is a must activity which can only be covered by O&M, Thus to maintain daily data availability O&M need to be awarded with Supply PO) .	Operation and maintenance will be started from date of commissioning.
	Perform gas phase titrations (USEPA Method) and ozone precision checks achieved using its internal ozone generator.	Ozone shall be measured and calibrated as per standard USEPA methods	The USEPA-approved method shall be acceptable for ozone (O ₃) analysis.

29.	Gas Analysers must have Bluetooth connectivity and suitable and android App must be available for direct communication to analysers	As per CPCB Bluetooth connectivity and android app is Not required, thus request you to kindly amend/remove the pointer.	The information will be duly incorporated in the tender document
30	Bidder or their associate as O&M partner should have adequate financial and technical capability to execute the contract. The bidder should have average financial turnover of minimum Rs.50.0 crores (Rs. Fifty Crores) or above in last three financial years ending with FY 2021-2022, 2022-2023 & 2023-2024. The bidder should submit audited balance sheet/CA Certificate, with effect to same under. The bidder should be profitable in last three financial years.	2.5.8 Bidder/OEM or their associate as O&M partner should have adequate financial and technical capability to execute the contract. The bidder / OEM or their associate should have average financial turnover of minimum Rs.50.0 crores (Rs. Fifty Crores) or above in last three financial years ending with FY 2021-2022, 2022-2023 & 2023-2024. The bidder/OEM or their associate should submit audited balance sheet/CA Certificate, with effect to same under. The bidder/OEM or associate should be profitable in last three financial years. Bidder should be able to submit financial documents of OEM	The proposed condition cannot be accepted


Rajeev Lokchan Bakshi
 (Member Secretary)