



JHARKHAND STATE POLLUTION CONTROL BOARD

TOWNSHIP ADMINISTRATION BUILDING, HEC, Complex, Dhurwa, Ranchi 834004
Telephone: 0651- 2400850 (FAX)/2400851, 2400852, 2401847, 2400979, 2400139

Ranchi, Dated.....

NOTICE INVITING TENDER (NIT)

Sub: Invitation of Tender for Procurement of CAAQMS to Strengthen Air Quality Monitoring

1. Jharkhand State Pollution Control Board invites open tender from eligible bidders for supply, installation, testing, demonstration, commissioning and comprehensive operation & maintenance services, and training of CAAQMS within the Jharkhand and related services as specified in the bid document. It will be delivered and installed at locations as suggested by the JSPCB. The Tender Document will be available on JSPCB's web site (www.jspcb.org.in).
2. The bidders are requested to read the tender document carefully and ensure compliance with all specifications/instructions herein. Non-compliance with specifications/instructions in this document may disqualify the bidders from the tender exercise. Incomplete tenders, amendments and additions to tender after opening or late tenders are liable to be ignored and rejected.
3. Interested Bidders may download the Tender Documents and submit their Bid at the address provided below:

*The Member Secretary, Jharkhand State Pollution Control Board,
T.A. Division Building, H.E.C, Dhurwa, Ranchi-834002*

4. Earnest Money Deposit (EMD) of 50 lakh of quoted price, in the form of Bank Guarantee/FDR in favour of "The Member Secretary, Jharkhand State Pollution Control Board" payable at Ranchi, must reach at the address given below on or before the last date of submission of bids. Bidders, however, have to attach scanned copies of EMD along with the technical bid of their-tender.

*The Member Secretary, Jharkhand State Pollution Control Board,
T.A. Division Building, H.E.C, Dhurwa, Ranchi-834002*

***THE REVISED DATE SHEET ARE AS FOLLOWS**

Description	Date & Time
Published Date	06/12/2025
Bid Document Download/Sale Start Date	07/12/2025
Clarification Start Date	10/12/2025
Clarification End Date	15/12/2025
Pre-Bid Meeting	17/12/2025
Uploading of Minutes/Clarifications on JSPCB Portal	22/12/2025
Bid Submission Start Date	24/12/2025
Bid Submission End Date	07/01/2026
Bid Opening Date	16/01/2026

5. The JSPCB reserves the right to withdraw, modify and/or cancel the tender without assigning any reasons whatsoever.

Rajiv
(Rajeev Lochan Bakshi)
Member Secretary

MINUTES OF TENDER COMMITTEE MEETING

Published the tender JSPCB/CAAQMS/2024-25, dated- 17/12/2025 for Pre-bid Meeting “Supply, Installation, Commissioning and Operation & Maintenance Services of Continuous Ambient Air Quality Monitoring Stations (CAAQMS)” in Jharkhand.

Date & Time of Pre-Bid Meeting	17.12.2025 at 12.30 PM
Venue	JSPCB, Head Quarter, Dhurwa, Ranchi
Committee Members	Sri. Rajeev Lokchan Bakshi, Member Secretary
	Sri Sanjay Kumar Srivastava, Officer on Special Duty, JSPCB, Ranchi
	Sri R. Naresh Kumar, Associate Professor, B.I.T. Meshra, Ranchi
	Sri Brijesh Kumar Mishra, Associate Professor, IIT (ISM), Dhanbad
Agenda	Pre-bid meeting for the tender: “Supply, Installation, Commissioning and Operation & Maintenance Services of Continuous Ambient Air Quality Monitoring Stations (CAAQMS)” in Jharkhand.

The pre-bid meeting was held both offline on 17.12.2025 to resolve the queries raised by the different bidders. The representatives of the following bidders were present in the pre-bid meeting:

1. M/s Thermo Fisher India Pvt. Ltd.
2. M/s Analyser Instrument Co. Pvt. Ltd
3. M/s ENVEA India Pvt. Ltd.
4. M/s ACOEM ECOTECH India Pvt. Ltd.

The Committee has clarified all the queries raised by the bidders, and the same are recorded. The Reply of the Pre-bid queries has been vetted by two committee members viz Shri B.K Mishra, Associate Professor, IIT (ISM), Dhanbad & Shri. R. Naresh Kumar on 18.12.2025. The Queries raised by the above-mentioned bidders with the tender committee's remarks are placed in Annexure-I. The committee has also decided that pre-bid minutes of the meeting should be treated as part of the Tender Conditions of tender published dated 17/12/2025 and shall be

binding to both JSPCB and Bidders. The committee has also decided that the queries raised/received after this pre-Bid meeting shall not be considered for tender bidding.

On the verbal request of all the vendors, the following change in dates are as follows: -

Bid Submission End dates – 07.01.2026

Bid Opening date – 16.01.2026

The meeting ended with a vote of thanks to the chair.

ANNEXURE-1**1. PRE-BID QUERIES FROM M/s. THERMO FISHER INDIA PVT. LTD.**

S.No	Document Reference	Page No.	Clause No.	Specified Clause	Query	Resolution to the Queries by the Committee
1	Tender Document for CAAQMS(JSPCB)(DEC 2025)	5	5	5. The bidder should furnish the information on all past supplies and satisfactory performance, in "Performance Statement" as per Attachment No. 8B and Attachment No. 8 C of Section III and minimum two (2) no. documentary evidence (client certificates in favour of bidder or manufacturers of equipment) in support of the satisfactory operation of similar air quality monitoring stations	Most of the 8 parameter AAQMS are installed in PSU's and they don't provide with any performance letter in their letter head, thus we request you to kindly accept Service report.	The Service Report/Performance report will be considered.
2	Tender Document for CAAQMS(JSPCB)(DEC 2025)	13	5.b	b. A list giving full particulars, including available sources of all spares (whether mandatory or recommended) and their prices, special tools etc., necessary for the proper and continued functioning / maintenance of the equipment on long term basis	Please confirm the list of spares recommended and Mandatory is not a part of evaluation of the bid and no Need to supply with the Main Equipment	The tender condition shall prevail.
3	Tender Document for CAAQMS(JSPCB)(DEC 2025)	8	18	Monitoring Station foundation, RCC foundation, pillars misc works including Caging, civil & electrical work (for CAAQM Station as well as Data Display Board)	Please confirm what kind of Caging need to be done.	The Standard caging will be recommended solely by the service provider.

4	Tender Document for CAAQMS(JSPCB) (DEC 2025)	14	2.4.2	<p>2.4.2 The bidder should be a manufacturer or authorized representative as listed in the scope of work who must have manufactured, supplied, tested, commissioned and doing O&M of minimum ten (10) nos. of similar air monitoring stations (CAAQM stations for all eight AAQ monitoring parameters (CO, SO₂, NH₃, NO/NO₂/NO_x, O₃, BTX, PM₁₀, PM_{2.5})) in India in last Ten years which should be in satisfactory operation in CPCB/SPCB/PSUs of the Government of India. Client's certificate in clients letter head shall be submitted by the bidder in compliance to same.</p>	<p>Most of the 8 parameter AAQMS are installed in PSU's and they don't provide with any performance letter in their letter head, thus we request you to kindly accept Service report. Additionally, as per Clause No.5 (Page 5) Performance of 2 Nos of AAQMS is Asked & and as per 2.4.8 performance of 5 Nos of AAQMS is asked, please confirm the no. of Performance letter need to be submitted</p>	<p>A total of ten (10) similar air monitoring stations should have been installed in India over the last ten years and must be in satisfactory operation with CPCB, SPCBs, or Government of India PSUs.</p>
5	Tender Document for CAAQMS(JSPCB) (DEC 2025)	14	2.4.3	<p>2.4.3 The bidder a manufacturer or authorized representative of Manufacturer must design and manufacture the systems in order to provide a high level of control over the quality of the systems. All the component of CAAQMS including analysers (for minimum 08 parameters) and calibration systems must be of the same make.</p>	<p>There is very limited supplier of BTEX analyser in India, thus request you to kindly amend the Clause with "Except BTEX analyser"</p>	<p>Modified the clause and will read as: "All the component of CAAQMS including analysers (for minimum 07 parameters) except BTEX analyser and calibration systems must be of the same make".</p>

6	Tender Document for CAAQMS(JSPCB)(DEC 2025)	15	2.4.8	<p>2.4.8 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 AAQ monitoring parameters (CO, SO₂, NH₃, NO/NO₂/NO_x, O₃, BTX, PM₁₀, PM_{2.5})) with CPCB/SPCB/PSUs of the Government of 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 manufacturer or for last two (2) year in case bidder is authorized representative.</p>	<p>Most of the 8 parameter AAQMS are installed in PSU's and they don't provide with any performance letter in their letter head, thus we request you to kindly accept Service report. Additionally, as per Clause No.5 (Page 5) Performance of 2 Nos of AAQMS is Asked & and as per 2.4.8 performance of 5 Nos of AAQMS is asked, please confirm the no of Performance letter need to be submitted</p>	<p>A total of ten (10) similar air monitoring stations should have been installed in India over the last ten years and must be in satisfactory operation with CPCB, SPCBs, or Government of India PSUs.</p>
7	Tender Document for CAAQMS(JSPCB)(DEC 2025)	34	2.0	<p>2.Operation and Maintenance of the CAAQMS for a period of 5 years from after the expiry of manufacturer's warranty</p>	<p>Please confirm the O&M shall start from the date of commissioning or from the date of expiry of warranty</p>	<p>The O&M period shall start from the date of commission.</p>
8	Tender Document for CAAQMS(JSPCB)(DEC 2025)	38		<p>6.0 LOCATION The location of the Air Monitoring Station shall be decided by the Authority. (Note: Authority will identify exact locations for installation of each CAAQM Station at above places in Letter of Award (LOA) / Purchase Order (PO) to be issued to the successful Bidder).</p>	<p>We would request the location shall be selected in such a way that the nearest point from electricity supply shall exceed 20-30 meters max.</p>	<p>The tender condition shall prevail.</p>

9	Tender Document for CAAQMS(JSPCB)(DEC 2025)	39		<p>10.0 PROVISION OF TRAINING The supplier shall provide the training to the Jharkhand State Pollution Control Board staff for minimum two (2) weeks to five (5) persons(maximum) after the performance test and commissioning. Training should include but not limit to the following:</p>	Kindly confirm the Training need to be provided at the various locations of the AAQMS.	The tender condition shall prevail.
10	Tender Document for CAAQMS(JSPCB)(DEC 2025)	158	4.1.8	<p>4.1.8 The analysers should complete with calibration system. The calibration system should be delivered along-with respective span gas cylinder and permeation tubes. The span gas concentration should be within 60 – 90% of first measuring range. The analysers must have zero-point internal calibration system and in agreement with minimum detection limit of each analyser. The calibration procedures are to be integrated into the software system for automatic calibration & remote calibration</p>	It is recommended to use span gas cylinders for calibration as it gives 3-point calibration instead of single point calibration in permeation tube, we request you to remove the permeation tube from analyser and calibrator. Also, Maintenance of permeation tube is very challenging. Thus, request you to kindly remove the permeation tube requirement	The Latest CPCB guidelines shall prevail.

2. PRE-BID QUERIES FROM M/S. ANALYSER INSTRUMENT CO. PVT. LTD

Sl. No.	JSPCB clause no.	JSPCB Description	AIC Request	Resolution to the Queries by Committee
1.	Clause 4 Annual Turnover	Bidder or their authorized representative 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 last 3 financial years should be FY FY2022-23, FY2023-24, FY2024-25. As presently FY2025-26 is going on. Please consider to revise the average financial turnover criteria as minimum Rs. 40 crores (Rupees Forty Crores Only) during last 3 financial years of 22- 23, 23-24, 24-25. We are enclosing tender excerpt pages from UPPCB CAAQMs tender in which they have requirement of 18 sets CAAQMS and average annual turnover requirement is INR 12 crores. Also, in MPPCB (39 sets) they have average annual turnover requirement of Rs.30 Crores (as per corrigendum enclosed of MPPCB). Please amend the minimum average annual turnover as per above.	Modified the clause 4 and and will read as: “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 2022-2023, 2023-2024 & 2024-2025.” The other condition shall prevail.

2	<p>Clause 4.1.13 Page 156 written TUV / USEPA approved but in 5.1, 5.2, 5.4, 5.5, 6.1, 6.2 written USEPA & TUV QAL1 approved analyser</p>	<p>All ambient gas analyzers shall be approved by the USEPA / TUV. However, in case of BTEX Analyzer, it shall be approved by USEPA/TUV/MCERT. For Ammonia Analyzer specifications as given will be considered. Method of measurement used shall also comply with the stipulation on National Ambient Air Quality Standards (NAAQS) 2009 (Details of Methods of Measurement is available at MoEF and CPCB websites). All analysers shall be micro-processor-controlled standards. All analyzers should be fully integrated in the rack cabinet, fully calibrated & tested before supply and ready for start – up at the respective sites. Analyzer must exhibit performance equal to or better than values specified in the Calibration & test certificate provided with each analyzer.</p>	<p>We are enclosing CPCB specifications dtd. July 2019 in full for your kind perusal.</p> <p>On page 12 of 43 of these specifications following clause 4.1.11 is applicable & reproduced below:</p> <p>"All ambient gas analyzers shall be approved by the USEPA / TUV. However, in case of BTEX Analyzer, it shall be approved by USEPA/TUV/MCERT. For Ammonia Analyzer specifications as given will be considered. Method of measurement used shall also comply with the stipulation on National Ambient Air Quality Standards (NAAQS) 2009 (Details of Methods of Measurement is available at MoEF and CPCB websites)".</p> <p>In above USEPA / TUV means either USEPA or TUV approved ambient air analyzers are required to be used.</p> <p>Please refer clause 4.1.15 Quality Control and Standard from CPCB standard enclosed). specifications (copy</p> <p><u>Quote</u></p> <p>Data shall be collected and validated according to US EPA standards, using the methodologies included in 40 Code of Federal Regulations. All analyzers shall have current US EPA reference or equivalent method designation and shall be of the latest design.</p> <p>The supplier shall submit a Standard Operating Procedure for the air quality monitoring stations to the Buyer at the time of bid submission. This Standard Operating Procedure shall be approved by the Buyer prior to award. The Standard Operating Procedure shall contain the following:</p>	<p>The tender condition shall prevail.</p>
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			<ul style="list-style-type: none">1. Operating procedures for all analyzers and meteorological sensorsii. Calibration proceduresiii. Calibration scheduleiv. Maintenance proceduresv. Maintenance schedulevi. Data validation proceduresvii. Quality Assurance proceduresviii. Sample quality documentation assuranceix. Sample Air Quality Report <p>The calibration procedures for analyzers shall conform to US EPA methodologies and shall include daily calibration checks, by weekly precision checks and linearity checks every six weeks. All analyzers shall undergo full calibration in every three months. Data obtained from these calibration checks and copies of associated Quality Assurance and calibration documentation, shall be submitted to the Buyer along with the Air Quality Data.</p> <p>Air Quality Data shall be submitted to the Buyer on Real Time basis through automated system and on a monthly basis in the form of an Air Quality Report. This report shall include tabular and graphic on gas and dust information concentrations as well as meteorological data for each site. The data shall be reported in the form of 15 minute averages and shall also include daily, weekly and monthly averages, minimum, maximum, standard deviations, total data captured and percent data capture. It should also have stat validation mechanism and delayed data check mechanism. The Air Quality Report shall also include wind roses where wind speed and direction are measured.</p>	
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			<p>As per above all analysers should confirm to USEPA methodologies.</p> <p>To comply with above requirements USEPA approval of Analysers is adequate.</p> <p>You have mentioned the requirement of both USEPA & TUV approval in the Analyser datasheets.</p> <p>This requirement of both USEPA & TUV approved will favour only couple of vendors and is not required.</p> <p>The TUV approval is normally obtained by companies operating in European markets.</p> <p>It offers no advantage to you because you get same analyser from all vendors which are USEPA approved. There is no change in analyser when some of these companies additionally get TUV approval.</p> <p>USEPA approval of AAQMS analyser only is required as per CPCB requirements.</p> <p>Please amend your requirements accordingly.</p>	
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3. PRE-BID QUERIES FROM M/S. ENVEA INDIA PVT. LTD.

Questionnaire Format				
Tender No.	Page No.	Tender Clause	Question	Resolution to the Queries by Committee
	Page No.6 of 203	ANNEXURE – I Air Conditioner, Split Type, Roof Mounted along with voltage stabilizer (2x2 ton, 1x 1ton)	We Request split type wall mounted air conditioners to be considered in place of roof mounted. Please note roof mounted Ac's are not recommended in shelter due to maintenance issues. Kindly Confirm.	The split type wall mounted air conditioners shall be considered
	Page No.3 of 203	The bidder should have at least five years' experience in supply, installation, commissioning and Operation & Maintenance experience of minimum eight parameters of the tendered equipment / analyzers of real time system for Ambient Air Quality Monitoring.	With reference to the eligibility criteria mentioned in the tender, it is observed that there is a discrepancy regarding the required experience period: Kindly Confirm, Whether the bidder is required to satisfy both experience criteria, i.e., five (5) years and ten (10) years, or	A total of ten (10) similar air monitoring stations should have been installed in India over the last ten years and must be in satisfactory operation with CPCB, SPCBs, or Government of India PSUs.
	Page No.12 of 203	2.4.2 The bidder should be a manufacturer or authorized representative as listed in the scope of work who must have manufactured, supplied, tested, commissioned and doing O&M of minimum ten (10) nos. of similar air	Whether compliance with either one of the above experience periods would be considered sufficient for meeting the eligibility requirements.	
		monitoring stations (CAAQM stations for all eight AAQ monitoring parameters (CO, SO ₂ , NH ₃ , NO/NO ₂ /NO _x , O ₃ , BTX, PM ₁₀ ,		

	<p>PM2.5)) in India in last Ten years which should be in satisfactory operation in CPCB/SPCB/PSUs of the Government of India.</p>		
Page No.19 of 203	<p>5.2 Contents of Folder “B”, Qualification Documents 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/. Authorization letter authorizing the signatory of the Bid to commit the Bidder (Power of attorney to sign the Bid).</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 bidders shall submit their bids in two separate envelopes or packets: one containing the technical bid and the other the financial bid. The enclosed envelope shall be submitted through speed post/registered post/courier or in person.</p>
Page No.23 of 203	<p>1.1 Preparation of Financial Bid the Bidder shall enter a price or rate against all the forms specified in the following Sub- clauses from 1.2 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>		
Page No.92 of 203	<p>BID PRICE BREAKUP FOR EQUIPMENT IN RUPEES. Online UPS 5 kVA, capacity (Single Phase I/P & Single-phase O/P, with 02hrs backup) Qty: 15 Nos.</p>	<p>We understand that a total of 16 Nos. of Online UPS 5 KVA capacity (Single Phase I/P & Single-Phase O/P with 02 hours backup) shall be provided, comprising 15 Nos. for CAAQMS stations and 01 No. for the Central Server.</p>	<p>The tender condition shall prevail.</p>

Page No.154 of 203	3.2 ONLINE UPS 5 KVA, CAPACITY (Single Phase I/P & Single phase O/P, with 02 hours backup) (01 for Analysers & 01 for Server at Central Station): 15 nos. for CAAQMS & 01 for Central Server so total 16 nos. Of 5 KVA ONLINE UPS with with 2 hours backup in full capacity should be provided for the smooth operation of Analyzers and peripherals at the station:	In view of the above, we request confirmation that our understanding is correct. Accordingly, we kindly request you to correct/modify the "Bid Price Breakup for Equipment in Rupees" to reflect the quantity as 16 Nos. of 5 kVA Online UPS with 2 hours backup, to enable accurate price submission.	
Page No.92 of 203	BID PRICE BREAKUP FOR EQUIPMENT IN RUPEES. Display board with data transmission device, day light, and night visible data display system Qty: 15 Nos.	We understand that a total of 16 Nos. of display board shall be provided, comprising 15 Nos. for regional and 01 No. for the Central locations. In view of the above, we request confirmation that our understanding is correct. Accordingly, we kindly request you to correct/modify the "Bid Price Breakup for Equipment in Rupees" to reflect the quantity as 16 Nos. of 5 kVA Online UPS with 2 hours backup, to enable accurate price submission.	The tender condition shall prevail.
Page No.182 of 203	Data display at display board outside the office at central location also Data display is also required at regional and central locations for which software provision has to be made at each location.		

4. PRE-BID QUERIES FROM M/s. ACOEM ECOTECH INDUSTRIES PVT LTD

Sl No.	Tender Pg No.	Tender Clause	Bidders Query	Resolution to the Queries by Committee
1	<p>Pg no. 17 (pdf pg no. 19)</p> <p>Pg no. 02 (pdf pg no. 4)</p>	<p>IFB</p> <p>Cl. 4.4 – Bid Security/ / Earnest Money</p> <p>and;</p> <p>IFB pg 4 – EMD Price 50 lakhs of the value of subject matter in the form of Bank draft/ Bank Guarantee, in favor of Member Secretary, Jharkhand State Pollution Control Board, payable at Ranchi.</p>	<p>As per the Tender Document, IFB Page 2 of tender document – EMD for Rs. 50 lakhs in form of Bank draft or Bank Guarantee from the list of banks provided under “Attachment 14 - List of Banks Acceptable for Submission of Bank Guarantee for Bid security” of page no. 72 are only acceptable. Please confirm.</p>	<p>The tender condition shall prevail.</p>
2	<p>Pg no. 17 (pdf pg no. 19)</p> <p>Pg no. 66</p>	<p>IFB</p> <p>Cl. 4.4 – Bid Security/ / Earnest Money</p> <p>Sl. 2) The Bid securities in the form of Bank Draft in favor of the Member Secretary, Jharkhand State Pollution Control Board, payable at Ranchi shall be valid for one hundred sixty-five (165) days from the date of opening of Techno-commercial Bids.</p> <p>and;</p> <p>Format - Attachment - 10 - FORM OF BANK GUARANTEE FOR BID</p>	<p>As per IFB Clause 4.4 (Bid Security – 2), we understand that the Bid Security validity shall be 165 days from the date of opening of the Techno-Commercial Bid.</p> <p>However, in Attachment 10 – Form of Bank Guarantee for Bid Security, the last line mentions a validity of 1 year after commissioning of the entire system, which appears to be incorrect and more appropriate for a Performance Bank Guarantee, not for a Bid Security.</p> <p>Requested to kindly confirm and correct the</p>	<p>The Bank Guarantee / Bank Draft shall be valid for a period of one (01) year.</p>

	<i>(pdf pg no. 68)</i>	<p>SECURITY</p> <p>Last line of the format</p> <p>“This guarantee will remain in force up-to one (1) year after commissioning of entire system.” - Pg 66</p>	<p>wording to:</p> <p><i>“This guarantee will remain in force up to 165 days from the date of techno-commercial bid opening.”</i></p>	
3	Pg no. 21 & 22 <i>(pdf pg 23)</i>	<p>5.0 PREPARATION OF TECHNO-COMMERCIAL BID</p> <p>5.2 Contents of Folder “B”, Qualification Documents</p> <p>J. The Authorized Indian Agent/Representative of Manufacturer of Analyzers (Minimum 08 parameters) should have 02 years continuous agency partnership/joint venture/ preparation or collaboration with their Principal foreign supplier. The documentary proof of such agency ship/ authorization/ MOU should be submitted along with technical part. The bid of the firm that does not contain the proof of such nomination/ authorization as Indian agent will be rejected. <i>(pg 21 & 22)</i></p>	<p>We understand that the applicability of this clause pertains to bidders participating as authorized representatives of the Original Analyzer Manufacturer.</p> <p>For bidders who are themselves the OEM/Original Analyser Manufacturer of the primary gas analyzers, we understand this clause may not be applicable. Kindly confirm.</p>	The tender condition shall prevail.
4	Pg no. 20 <i>(pdf pg 22)</i>	<p>5.0 PREPARATION OF TECHNO-COMMERCIAL BID</p> <p>5.2 Contents of Folder “B”, Qualification Documents</p>	<p>We understand that this clause applies when a bidder or its authorized representative offers multiple makes/models for the major parameters (NO_x-NH₃, SO₂, CO, O₃, PM₁₀ & PM_{2.5}, Calibrator, Zero Air Generator).</p>	<p>Modified the clause and will read as:</p> <p>“All the component of CAAQMS including analysers (for minimum 07 parameters) except BTEX analyzer and</p>

	<p>Pg no. 12 (pdf pg 14)</p>	<p>C. Certificate of letter of authority from manufacturers for all the Analyzer Equipment (Attachment 3 of Section III).</p> <p>(Attachment-3: The Bidder shall obtain and submit the letter of authority in Attachment-3, from manufacturer of analyzer equipment in letter head of the manufacturer. For different analyzer equipment, the bidder shall obtain separate letter of authority from respective manufacturers in their letter heads in Attachment-3. If the bidder is the manufacturers of equipment, they will submit the letter of authority in letter head of the equipment manufactured by them</p> <p>However; Name of Single Manufacturer for specified equipment/analyzer is to be proposed for evaluation of technical and commercial bid.)</p> <p>(pg 22)</p> <p>And</p> <p>2.4 Qualifying Requirements of Bidders:</p> <p>2.4.3 The bidder a manufacturer or authorized representative of Manufacturer must design and manufacture the systems in order to provide a high level of control over the quality of the systems. All the component of CAAQMS including</p>	<p>However, BTEX analyzers are generally not manufactured in- house by most OEMs/Analyser Manufacturers and are usually procured from third-party manufacturers.</p> <p>Therefore, we request that an exception be made for BTEX. Kindly allow BTEX analysers of any make that meets the tender technical specifications, with the option to choose from up to two manufacturers instead of a single manufacturer.</p> <p>Kindly confirm.</p>	<p>calibration systems must be of the same make”.</p>
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		<p>analyzers (for minimum 08 parameters) and calibration systems must be of the same make. Pg no. 12</p>		
5	<p>Pg no. 24 & Pg 90 (pdf pg 26 & 92)</p>	<p>ITB 6.0 PREPARATION OF FINANCIAL BID</p> <p>Note: Quoted cost O&M of a CAAQMS for each of first two years should be at least 8% (Excluding GST) and each of subsequent years should be at least 12% (excluding GST) of the cost of supply & installation of the CAAQMS. In case the bidder quotes O&M cost lower than given percentage (excluding GST) of the supply & installation cost, the Owner will reduce the supply & installation cost suitably, so as to make the O&M cost in line with the percentage value (excluding GST) of the supply & installation cost keeping the total quoted cost as unchanged</p>	<p>The present tender specifies O&M cost at 8% per annum for the first two years and 12% per annum for the subsequent three years. This structure is not advisable, as it may adversely impact the quality and standard of O&M services offered by certain bidders attempting to remain competitive at the cost of performance.</p> <p>To maintain uniformity and ensure quality O&M services throughout the contract period, it is requested to kindly revise and specify a minimum yearly O&M percentage of 12% per annum of the total cost of supply, installation, and commissioning of the system for all 5 years.</p> <p>This approach aligns with the standard O&M cost structure range followed by CPCB and other State Pollution Control Boards for similar CAAQMS tenders. For reference, the previous tender issued for the same scope had also specified a minimum O&M value of 12% per annum under the same clause/point.</p>	<p>The tender condition shall prevail.</p>
6	<p>Pg 120 (pdf pg no. 122)</p> <p>Pg 122</p>	<p>6.1 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</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.</p> <p>We would like to submit that the timeline</p>	<p>The tender condition shall prevail.</p>

<p>(pdf pg no. 124)</p>	<p>commissioned within Ninety (90) days from date of receipt at site.</p> <p>6.2 Commissioning and others incidental services:</p> <p>(Pg 120)</p> <p>and</p> <p>11.0 Completion Clause The Contractor shall complete all the Works up to installation and commissioning of CAAQMS's within 270 days after the date of signing of contract agreement by both the parties. (Pg 122)</p>	<p>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.</p> <p>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.</p> <p>Accordingly, we request you to kindly consider revising the schedule as follows:</p> <ul style="list-style-type: none">• 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. <p>We request your kind consideration and confirmation on the above to ensure realistic timelines and quality execution of the project.</p>	
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7	<p>Pg no. 32 (Pdf pg 34)</p> <p>Pg no. 120 (Pdf pg 122)</p>	<p><u>Vol – I Section – II – Scope of Works</u></p> <p><u>1.0 DETAILS OF PROJECT STRUCTURE</u></p> <p>Sl. 2- Operation and Maintenance of the CAAQMS for a period of 5 years from after the expiry of manufacturer’s warranty.</p> <p>and ;</p> <p><u>SCC</u></p> <p><u>6.3 O&M Contract</u> The contractor shall carry out Operation & Maintenance of Air Monitoring Stations for a period of five (5) years from commissioning which can be extended up to extended (5) years at all mutually agreed rates and terms & conditions</p>	<p>Kindly confirm the start date of the O&M period. We understand that it will commence as per SCC Clause 6.3, i.e., from the date of commissioning.</p> <p>Please confirm.</p>	<p>The O&M period will be started from the date of commissioning.</p>
8	<p>Pg 160 & 161 (Pdf pg 162,163,164)</p>	<p>Technical Specification Ambient NO-NO2-NOx, Analyser Ambient NH3, Analyser (pg 160 & 161)</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>The latest CPCB guidelines shall prevail.</p>

9	Pg 154 (pdf 156)	<p>Technical Specification</p> <p>3.2 - ONLINE UPS 5 KVA, CAPACITY (Single Phase I/P & Single phase O/P, with 02 hours backup) (01 for Analyzers & 01 for Server at Central Station) : 15 nos. for CAAQMS & 01 for Central Server so total 16 nos. Of 5 KVA ONLINE UPS with with 2 hours backup in full capacity should be provided for the smooth operation of Analyzers and peripherals at the station: (Pg 154)</p>	<p>Please confirm the total number of 05 KVA UPS units required for the project.</p> <p>As per the Schedule of Requirements (Pg. 146 & 147, Sl. No. 17), the quantity of 05 KVA UPS specified is 1 set per CAAQMS, amounting to a total of 15 sets.</p> <p>However, Clause 3.2 (Technical Specification of 05 KVA UPS) additionally specifies one 05 KVA UPS for the Server at the Central Station with total requirement of 05KVA UPS as 16 Nos.</p> <p>Kindly confirm the total number of 05 KVA UPS units to be considered under this project.</p>	The tender condition shall prevail.
10	Pg 156 (pdf 158)	<p>4.1 General Specifications for all Analyzers</p> <p>4.1.8 - The analyzers should complete with calibration system. The calibration system should be delivered along- with respective span gas cylinder and permeation tubes.</p>	<p>The specified permeation tuber under 4.1 General Specifications for all Analyzers is vendor specific hence requested to generalize the same by deleting the text “permeation tubes” since the CAAQMS system will be calibrated using NIST standard traceable calibration gas cylinder.</p> <p>Also please note that as per latest update, CPCB had removed the requirement of permeation tube on account of technical reasons as there is frequent variation in concentration resulting in high span drift.</p>	The latest CPCB guidelines shall prevail

11	Pg no. 151 & 152 (Pdf pg 153 & 154)	<p>VOL – II- Technical Specifications</p> <p>2. SPLIT AIR CONDITIONER</p> <p>2.1 SPLITAIR CONDITIONER (2.0 TON CAPACITY) 2.1.1 Type& Capacity: 2 Nos. split type, 2-ton cooling only capacity Inverter AC, roof mounted of 5-star rating with an automatic timer. Separate Automatic Voltage stabilizer will be provided with each unit.</p> <p>And</p> <p>- Type & Capacity: 1 Nos. split type, 1 ton cooling only capacity Inverter AC, roof mounted of 5 star rating with an automatic timer. Separate Automatic Voltage stabilizer will be provided with each unit.</p>	<p>We understand split type wall mounted air conditioners to be considered in place of roof mounted. Please note roof mounted Ac's are not recommended in shelter due to maintenance issues.</p> <p>Kindly Confirm.</p>	<p>The Split type wall mounted air conditioner shall be considered.</p>
12	Pg 168 Pdf 170	<p>Cl. 7.1 (iii) MULTI POINT GAS CALIBRATION SYSTEM:</p> <p>iii) Generate zero air of 99.9% purity (High Performance Zero Air Generator to be provided). (pg 168)</p>	<p>We understand that the Zero Air Generator to be supplied under Sample handling system should be of 19” Rack mounted and of original analyser manufacturer make with inbuilt CO reactor for stable functional output. Kindly confirm.</p>	<p>The tender condition shall prevail.</p>

