

MINUTES OF TENDER COMMITTEE MEETING

(Published vide P.R. No.372361 dated- 06.02.2026 for Pre-bid Meeting “Supply, Installation, Commissioning And Operation & Maintenance Services Of Mobile Continuous Ambient Air Quality Monitoring Stations (MAAQMS) At Jharkhand”

Date & Time of Pre Bid Meeting	13.02.2026 at 12:30 PM
Venue	JSPCB, Head Quarter, Dhurwa, Ranchi
Committee Members	Sri. Rajeev Lochan 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
	Dr. Arvind Kumar Upadhyay, Principal Technical Officer, CSIR-NML, Jamshedpur
	Smt. Pratibha Priya, Scientist cum Member Convenor, JSPCB, H.Q. Ranchi
Agenda	Pre-bid meeting for the tender: “Supply, Installation, Commissioning And Operation & Maintenance Services Of Mobile Continuous Ambient Air Quality Monitoring Stations (MAAQMS) At Jharkhand” published vide P.R. No.372361 dated- 06.02.2026

The pre-bid meeting was held through online as well as offline on 13.02.2026 to resolve the queries raised by the different bidders. The representatives of following bidder were present in the pre-bid meeting:

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

The Committee has clarified all the queries raised by the bidders and same are recorded. The Queries raised by above bidder with tender committee remarks are placed at 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 vide P.R. No.372361 dated- 06.02.2026 and shall be binding to both, JSPCB and Bidders. The committee has also decided that, due to technical issues the tender may be cancelled.

The meeting ended with vote of thanks to the chair.


(Rajeev Lochan Bakshi)
Member Secretary

Annexure- 1

1. PRE-BID QUERIES FROM M/s. THERMO FISHER SCIENTIFIC

Sl. No.	Tender Page No.	Tender Clause	Bidders Query	Resolution to the Queries by Committee
1	1 & 5	Critical Dates Mismatch in the Bid Submission End date, please confirm what is the Bid submission end Date		Bid Submission End date is 27.02.2026 at 12.30 pm.
2	12	2.5.3 The bidder shall have supplied, tested Installed and commissioned at least 04 no's of Mobile Continuous Ambient Air Quality Monitoring Vans (MCAAQMV) consisting of (NO/ NO2/ NOx, NH3- Ammonia, SO2, CO, Ozone, BTEX, PM10, PM2.5, Multi-point dilution calibrator and rack mounted Zero Air Generator (OAM - original analyzer manufacturer make), Meteorological System, including Mobile Chassis & mobile body fabrication in any one of last 05 years to any of PSUs, Central/ State Pollution Control	Request you to kindly amend the clause to "The bidder shall have supplied, tested Installed and commissioned at least 02 no's of Mobile Continuous Ambient Air Quality Monitoring Mobile van (CAAQMS) consisting of (NO/ NO2/ NOx, NH3- Ammonia, SO2, CO, Ozone, BTEX, PM10, PM2.5, Multi-point dilution calibrator and Zero Air Generator (OAM - original analyzer manufacturer make), Meteorological System, including	The bidder shall have supplied, tested, installed and commissioned at least 02 no's of Mobile Continuous Ambient Air Quality Monitoring Mobile van (CAAQMS) consisting of (NO/ NO2/ NOx, NH3- Ammonia, SO2, CO, Ozone, BTEX, PM10, PM2.5, Multi-point dilution calibrator and Zero Air Generator (OAM - original analyzer manufacturer make), Meteorological System, including Mobile Chassis & mobile body fabrication in last 05 years to any of PSUs, Central/ State Pollution Control boards or

		<p>boards or any Govt. undertaking in compliance to the technical specification as mentioned in the tender and can produce evidence of experience of having successfully completed similar works as specified above (Continuous Ambient Air Monitoring Station based on NAAQMS guidelines -2009 of CPCB & amendment if any.)</p>	<p>Mobile Chassis & mobile body fabrication in any one of last 05 years to any of PSUs, Central/ State Pollution Control boards or any Govt. undertaking in compliance to the technical specification as mentioned in the tender and can produce evidence of experience of having successfully completed similar works as specified above (Continuous Ambient Air Monitoring Station based on NAAQMS guidelines -2009 of CPCB & amendment if any.)</p> <p>or</p> <p>"The bidder shall have supplied, tested Installed and commissioned at least 4 no's of Continuous Ambient Air Quality Monitoring (CAAQMS) consisting of (NO/ NO2/ NOx, NH3-Ammonia, SO2, CO, Ozone, BTEX,</p>	<p>any Govt. undertaking in compliance to the technical specification</p>
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			<p>PM10, PM2.5, Multi-point dilution calibrator and rack Zero Air Generator (OAM - original analyzer manufacturer make), Meteorological System, including in any one of last 10 years to any of PSUs, Central/ State Pollution Control boards or any Govt. undertaking in compliance to the technical specification as mentioned in the tender and can produce evidence of experience of having successfully completed similar works as specified above (Continuous Ambient Air Monitoring Station based on NAAQMS guidelines -2009 of CPCB & amendment if any.)</p>	
3	12	<p>2.5.4 The bidder shall be the Manufacturer of the above-mentioned analyzers and accessories. Experience of the bidder and the offered model should be of the same make.</p>	<p>Since there are limited no of supplier of BTEX analyzer, Thus request you to kindly amend the clause : "All the component of CAAQMS including Analyzers for (minimum 07 Parameters)</p>	<p>All the component of CAAQMS including Analyzers for (minimum 07 Parameters) except BTEX Analyzer and calibration Systems must be of Same Make</p>

			except BTEX Analyzer and calibration Systems must be of Same Make "	
4	12	2.5.5 The bidder should be OEM / Manufacturer for supply of (NO/ NO2/ NOx, NH3- Ammonia, SO2, CO, Ozone, BTEX, PM10, PM2.5, multi-point dilution calibrator and rack-mounted Zero Air Generator (OAM - original analyzer manufacturer make).	Since there are limited no. of supplier of BTEX analyzer, Thus request you to kindly amend the clause: "All the component of CAAQMS including Analyzers for (minimum 07 Parameters) except BTEX Analyzer and calibration Systems must be of Same Make ".	All the component of CAAQMS including Analyzers for (minimum 07 Parameters) except BTEX Analyzer and calibration Systems must be of Same Make
5	12	2.5.6 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 components of 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.	Request you to kindly amend the clause to "All the component of CAAQMS including Analyzers for (minimum 07 Parameters) except BTEX Analyzer and calibration Systems must be of Same Make "	All the component of CAAQMS including Analyzers for (minimum 07 Parameters) except BTEX Analyzer and calibration Systems must be of Same Make

6	12	<p>2.5.8 The bidder should have executed a single order of Fixed Continuous Ambient Air Quality monitoring Stations including minimum 01 no. of Mobile Ambient Air Quality monitoring Stations having above all the specified parameter during the last 05 years totalling to Rs 750 Lacs or more with any of the public sector's organization, State pollution control boards or any Govt. undertaking ending last day of the month previous to the one in which the tender is floated. The bidder should submit the relevant documentary evidence, like PO/proof of supply or a duly attested Invoice copy, along with the technical bid.</p>	<p>The bidder should have executed a single order of Fixed Continuous Ambient Air Quality monitoring Stations including minimum 01 no. of Mobile Ambient Air Quality monitoring Stations having above all the specified parameter during the last 05 years totalling to Rs 500 Lacs or more with any of the public sector's organization, State pollution control boards or any Govt. undertaking ending last day of the month previous to the one in which the tender is floated. The bidder should submit the relevant documentary evidence, like PO/proof of supply or a duly attested Invoice copy, along with the technical bid.</p>	<p>The bidder should have executed a single order of minimum 02 no. of Mobile Ambient Air Quality Monitoring Stations having all the specified parameter during the last 05 years totalling to Rs 500 Lac or more with any of the public sector's organization, State Pollution Control Boards or any Govt. undertaking ending last day of the month previous to the one in which the tender is floated. The bidder should submit the relevant documentary evidence, like PO/proof of supply or a duly attested Invoice copy, along with the technical bid.</p>
7	12	<p>2.5.9 As per Govt of India order No. P-45021/2/2017-PP (BE-II) Dated 04th June 2020 issued by Ministry of Commerce and Industry, Department for Promotion of</p>	<p>Request you to kindly clarify on the MII Clause, Kindly share the exact Purchase preference criteria.</p>	<p>The clause 2.5.9 stands deleted</p>

		Industry and Internal Trade, in accordance with Public Procurement (Preference to Make in India) Order, 2017 Dt. 04-06-12 2020 will be followed for this Tender. The Indian manufacturer shall be given preference in this purchase. The purchase preferences towards supplies as stipulated in the referred order therein shall be extended to those who qualify under the category strictly on the basis of value addition carried out in India on the manufacturing & supply of Continuous Ambient Air Quality Monitoring Station (CAAQMS).		
8	14	2.5.13 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 CAAQM, client certificate in favor of bidder or manufacturers	Request you to kindly consider/accept Service report/ Performance certificate. Since most of the 8 Parameter AAQMS are installed in PSUS & generally they do not provide any Performance certificate in their letter head.	The tender condition shall prevail.

		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) 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 manufacturer or for last two (2) year in case bidder is authorized representative.		
9	13	2.5.14 The bidder shall submit the latest AQI report for any of the supplied & installed CAAQMS by the bidder, including all the specified 8 parameters duly approved by CPCB/ SPCBs.	We shall provide the details of customers whom we have supplied 8 parameter AAQMS In Jharkhand	The bidder shall submit the authentic data along with weblink in which data is transmitted.
10	31	Air Conditioner, Split Type, Roof Mounted along with voltage stabilizer (2 x 2 ton)	AC will be split type wall mounted as per Technical specification	AC can be wall mounted split type.
11	31	6.5 KVA petrol generator (2 nos.)	Kindly confirm the fuel required for the same will be in customers scope	Fuel will be in bidder's scope.
12	114	3.1 ONLINE UPS 10 kVA CAPACITY (Three Phase I/P & Single Phase O/P with 02 hours backup) (for Air Conditioner)	As per schedule or requirement 10 KVA UPS is not Mentioned but the same is in the technical Specification, kindly	The tender condition shall prevail.

			confirm. Shall we consider the same in the scope of Supply or not	
13	156	CE approval for EMC conformity: QAL1 certificate EN 61000-6-2, EN 61000-6-3, EN 61010, EN 61326	Request you to kindly accept MCERTS certificate as per CPCB guideline	As per CPCB latest protocol
14	157	5.9 MULTICALIBRATION SYSTEM	Specification of multi-calibration system is different from the CPCB guidelines, thus request you to kindly allow to follow/ provide system as per CPCB Guidelines.	As per CPCB latest protocol
15	157	a) Gas Calibration System:	Specification of gas calibration system is different from the CPCB guidelines, Thus request you to kindly allow to follow/ provide system as per CPCB Guidelines.	As per CPCB latest protocol
16	159	b) Zero Air Generator System The system should include a compressed air source, permeation dryer and a series of scrubbers, producing clean, dry dilution quality 'zero air.'	As per CPCB there is no guideline for Zero air generator to be 19' Rack mountable, kindly request you to amend the same to rack mounted / Wall Mounted.	The tender condition shall prevail.

		<p>The Zero Air generation system must be of the same make as the Gas Analyzers & Gas dilution calibrator. The system should include an external Logic Control connection to activate the air source when air is required by the calibrator. The system should be a 19" rack-mounted enclosure. Capable to provide in excess of 10 slpm of zero air. The system should include Heated CO Scrubber to remove CO to less than 0.1 ppm and the addition of a Hopcalite scrubber so that the high purity zero air will be available for CO analyzer for its background use.</p>		
17	165	7.0 DATA ACQUISITION SOFTWARE AT THE CENTRAL STATION AT EACH SPCB & CPCB	Kindly confirm CDAS is not in the scope of supply	The tender condition shall prevail.
18	167	7. Data display at display board outside the office at central location also Data display is also required at regional and	Please confirm the display board is not in the scope of supply.	Only one display board shall be mounted on the mobile van each.

		<p>central locations for which software provision has to be made at each location.</p> <p>(a) At SPCB Offices: A display board will have to be supplied & installed by the supplier at each SPCB Office for which space to be provided by CPCB/SPCB/PCC etc.</p> <p>(b) CPCB/SPCB intends to show the content:</p> <ul style="list-style-type: none"> i. Information from External Sources ii. Information drawn from Internal databases iii. Advertisement in the form of Text, Slides, Charts, Videos etc. iv. Live Feeds 		
19	170	a. DISPLAY BOARD DATA TRANSMISSION DEVICE	Request you to kindly remove the same since display Board is not in the scope of supply	Only one display board shall be mounted on the mobile van each.
20	171	b. DAY LIGHT & NIGHT VISIBLE DATA DISPLAY SYSTEM LOCATION NEAR TO CAAQM STATION	Kindly confirm the display board supply is not in the scope of supply	Only one display board shall be mounted on the mobile van each.
21	150	SO2 Span Check Facility: Built in permeation bench	We request you to kindly remove the permeation beach requirement for the	Calibration should be performed as per CPCB approved methodology.

22	150	5.2 AMBIENT OXIDES OF NITROGEN (NO-NO2-NOx)ANALYSER Span Check Facility: Built in permeation bench	analyzers, Since we can achieve 3 point calibration with span gas cylinders whereas only single point calibration is achieved using permeation tube/bench	As per CPCB protocol.
23	151	5.3 AMBIENT AMMONIA ANALYSER (NH3) Span Check Facility: Built in permeation bench		
24	155	BTEX Analyzer Span Check Built in permeation bench with NIST certified Benzene& Toluene permeation tube.		

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

SIN o.	Tender PgNo.	TenderClause	BiddersQuery	Resolution to the Queries by Committee
1	Pgno.2	Tender NoticeNo./TCN no.	Please confirm the tender no. for the said tender, as the document is uploaded in JSPCB website without tender no.	There is no tender number for the said tender.

2	Pgno.1	<p>IFB EMD Price 2%ofthevalueofsubjectmatteri ntheformofBankdraft/ BankGuarantee,infavorofMem berSecretary,Jharkhand State Pollution Control Board, payable at Ranchi.</p>	<p>The tender documents pecifies the Earnest Money Deposit (EMD) as 2%, but it is ambiguous — kindly clarify 2% of what amount the EMD is to be furnished.</p> <p>Additionally, we request that a fixed amount of EMD be specified instead of a percentage. This is the standard practice followed in similar tenders issued by various Government and State Government departments, including the State Pollution Control Board for CAAQMS tenders.</p> <p>A fixed EMD amount ensures uniformity and clarity for all bidders. Please confirm.</p>	EMD will be Rs. 10 Lac.
3	Pg16	<p>And ITB Clause 4.3 Bid Security/ Earnest Money (page 18) Sl. No. 1 & Sl. No.2</p> <p>Sl. No. 1 Pursuant to Clause 5.1 in this instruction, the Bidder shall furnish, the Bid Security amount of Indian</p>	<p>We understand that EMD in form of Bank Guarantee is acceptable, provided to be furnished from the list of banks provided under Attachment 14. (pg 71 to 72) of the tender documents.</p> <p>Please confirm.</p>	The tender condition shall prevail.

		Rupees (for all location) in the form of Bank draft or Bank Guarantee with validity as per Attachment No-10 of TCN at page 60”		
4	Pgno. 86 & 87	<p>ATTACHMENT 3A-BID PRICE BREAKUP FOR O&M OF MCAAQMV (ANALYZER SYSTEMS) FOR FIVE YEARS & ATTACHMENT 3B-BID PRICE BREAKUP FOR O&M OF MOBILE VEHICLE FOR FIVE YEARS</p>	<p>Please note that Attachment 3A and Attachment 3B may kindly be merged into a single price schedule as Attachment 3A for O&M of Mobile Van CAAQMS for 5 years, instead of having two separate price bids for the same scope.</p> <p>Further, Attachment 2– Summary of Bid Price presently includes values only from Attachment 3A and does not cover Attachment 3B.</p> <p>Since the entire Mobile Van CAAQMS will be integrated, operated, and maintained as one complete MVCAAQMS unit (and not separately for the system and vehicle chassis), it is requested to make the necessary revisions in the O&M price break-up sheet accordingly.</p>	The Attachment 3A stands deleted.

	<p>Pg111 of SCC Pdfpg1 12</p> <p>Pg113 (pdfpg 114)</p>	<p>Special Conditions Work Schedule (GCCC 1.16) (page 119) Equipment to be supplied</p> <p>All the equipment shall be received at Continuous Ambient Air Quality Monitoring Station Sites within 90days from the date of notification of award and are to be installed and commissioned within sixty(60) days from date of recipient site.</p> <p>(Pg 111) and 11.0 COMPLETION (GCC CLAUSE 23)</p> <p>The Contractor shall complete all the Works up to</p>	<p>With reference to the tender specifications, the overall supply completion period has been defined as 120 days from the date of signing of contract & 60 days for Installation & Commissioning.</p> <p>We would like to submit that the time line may be insufficient, considering the large-scale turnkey nature of the project involving the fabrication & supply and installation of 02 Mobile Continuous Ambient Air Quality Monitoring Stations (Mobile CAAQMS) as the Vehicle Chassis & Body building is a long delivery item.</p> <p>Given the complexity of the Mobile CAAQMS systems—comprising multiple sub-assemblies and components such as fabrication of mobile van body, analyzers, meteorological sensors, data loggers,—along with the logistics and coordination involved across several vendors and specifically with regards to delivery time of Mobile Chassis & Mobile van body fabrication, the stipulated period appears to be too short for 02 Nos for effective and compliant</p>	<p>The completion period as 180 days after the date of opening of Letter of Credit (LC).</p>
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	<p>installation & commissioning of MCAAQMV's within 180 days after the date of opening of Letter of Credit (LC). (Pg113)</p>	<p>execution.</p> <p>Accordingly, we request you to kindly consider revising the schedule as follows:</p> <ul style="list-style-type: none"> • Delivery Period: 180 days from the date of issuance of the Notification of Award (NOA). • Installation & Commissioning: To be completed within 60days 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>	
<p>Pg115 Pdfpg11 6</p>	<p>13.2 Terms and Conditions of Payment</p> <p>b) Payment of goods and services (excluding O&M charges) supplied from India.</p> <p>c) On Delivery: Eighty(80)% of the contract price shall be paid</p>	<p>With reference to the payment terms specified under SCC Clause 13.2 (b) (pg 115) 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</p>	<p>The tender condition shall prevail</p>

	<p>(Through LC) on receipt of Goods and upon submission of the documents specified in Clause 5.2(2) of SCC: and</p> <p>ii) 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 (to be certified by the Board)</p>	<p>timelines.</p> <p>In view of the above, we respectfully request that the following payment terms be considered for Indian manufacturers:</p> <ul style="list-style-type: none"> • 95% payment to be made through an Irrevocable Letter of Credit (LC) upon dispatch of goods. • Balance 5% payment to be released upon successful Installation & Commissioning (I&C) at the site. <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>	
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	Pg 138	<p>SCHEDULE OF REQUIREMENTS</p> <p>Sl.21 Fresh Water Tank and Drain Water Tank and Wash basin</p> <p>Fresh water overhead storage Tank of about 50 liter (plastic) shall be fixed on the top of the roof of the van. & The drain water tank (15 ltrs) shall be made of 3mm thick, food grade plastic, to be mounted underneath the platform table.</p>	<p>These requirement of Fresh Water Tank, Drain Water Tank and Wash basin are typical to laboratory set up where Lab analysis of samples & specimens are carried out.</p> <p>Mobile VAN CAAQMS is a fully automated Instrumentation system where physically collection of samples and lab analysis are not required, moreover presence and storage of water can lead to leakages and can possibly risk of damaging the instruments.</p> <p>Secondly, Overhead mounting water tank and underneath mounting of drain tank will have compliance issues with RTO approval and passing of Vehicle.</p> <p>Kindly confirm the removal of said tanks from the scope of supply</p>	The tender condition shall prevail
	Pg140 To 142 Pdf pg 141 to	<p>TECHNICAL SPECIFICATIONS</p> <p>1.0 MOBILE MONITORING VAN</p> <p>1.3 Frame:</p>	<p>Please note that the construction specification of Thermally Stable Housing (Body Built up) for Mobile Van specified under said Cl. 1.3 to C 1.9 are for Fixed Shelter is not fit mentanable suitable for body building on Mobile Chasis.</p> <p>The standard PCB specification for Thermally Stable</p>	BOQ is attached as annexure.

	143	<p>1.4 Paneling</p> <p>1.5 Floor</p> <p>1.6 Outer Door</p> <p>1.7 Electric Power Supply Box</p> <p>1.9 Station Furnishing:</p>	<p>Housing (Body Built up) on Mobile Van chassis is as follows.</p> <p><i>“Heavy Duty Vehicle with chassis (conformed to latest CPCB norms) registerable and useable in State and also anywhere in State as per existing MV rules from Indian manufacturers suitable to fabricate Continuous Automatic Air Quality Monitoring (CAAQM) container shall be provided. The mobile station shall be equipped with SO₂, NO-NO_x,NH₃,CO, O₃, PM₁₀, PM_{2.5}, BTEX and Meteorological Equipment, data logger, multipointcalibrator, Air conditioners, UPS etc, as required for a complete self-contained mobile air pollution monitoring station.</i></p> <p><i>The Mobile chassis shall have necessary accessories for fitting CAAQMS with adequate Suspension to minimize the impact on the instruments while driving the vehicle.</i></p> <p><i>The van shall be equipped with connection from the Grid supply and accordingly 50meter cable drum</i></p>	
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		<p><i>shall be provided, so that cable can be drawn and connected to the mains electrical supply based on the actual site conditions. Mobile van shall have compartments of air conditioning environment for mounting of analyzer equipments, non air conditioning compartments for storing calibration gases and Batteries.</i></p> <p><i>The driver cabin shall be vehicle suppliers standard design.Necessary nos.</i></p> <p><i>Of entrance as per the requirement shall be provided in the mobile van.</i></p> <p><i>The outer shell of the van shall be with outer layer of MS/PPGI sheets with minimum thickness 1mm, and the inner layer shall be of MS/PPGI/Anodized Aluminum with minimum thickness 1mm painted material with full rain, sun and environment protection. The PUF insulation shall be provided between inner and outer layer. The thickness of the insulation shall be 40 mm as minimum.</i></p> <p><i>The painting on the interior and exterior wall</i></p>	
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		<p><i>shall be done as per the CPCB requirement. PCB will provide details on the color and artistic works to be done on the mobile van during the painting.</i></p> <p><i>Monitoring Container is designed for housing the ambient air quality monitoring instruments to protect them from dust and heat. Temperature and Humidity sensors shall be installed in the housing for checking the humidity and temperature inside the station.</i></p> <p><i>Necessary number of 19" racks cabinet shall be installed inside the container so that the analysers are easily accessible from front & back for calibration and maintenance. All other infrastructure work for setting up the stations viz, flooring mat, paneling, internal wiring for Air conditioning, Inverter and UPS shall be provided by the contractor."</i></p> <p>Requested to please make necessary changes in the said technical specifications.</p>	
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<p>Page 149 & 150</p> <p>Page 151 & 152</p>	<p>Technical Specification CI.5-AMBIENT AIR QUALITY MONITOURNG ANALYSERS</p> <p>5.2- Ambient NO-NO2-NOx Analyser</p> <p>5.3-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>As per CPCB protocol</p>
	<p>RoadTaxpayment&Vehicleregistrationcharges.</p>	<p>Kindly confirm whether the Road Tax applicable during the registration of the Mobile Van/ Chassis is exempted or concessional for JSPCB, considering JSPCB is a State Government entity.</p> <p>In case the exemption or concession is not applicable, please confirm whether the Road Tax paid by the bidder on behalf of JSPCB shall be reimbursed separately upon submission of the relevant documentary evidences in the same will be in the name of JSPCB.</p>	<p>The road tax and vehicle registration charges will be in the scope of the bidder.</p>

Pg 137 Pdf	<p>Schedule of requirements</p> <p>Sl.16. 6.5KVA Petrol Generator</p>	<p>Please note that the rating of petrol generator of 6.5KVA is nonstandard for CAAQMS technically not feasible for fitment in the Mobile Van, the required rating of petrol generator for Mobile van CAAQMS should be 5 KVA instead of 6.5KVA.</p> <p>Requested to please confirm the correct rating of petrol generator. Accordingly the following correction is proposed.</p>	<p>The tender condition shall prevail</p>
Pg 13	<p>NB: <i>One no.</i> of Technician for operation of Mobile CAAQMS shall be stationed in Mobile Van for operation of CAAQMS.</p>	<p>Kindly confirm the required deployment of technicians for the two (02) Mobile CAAQMS units.</p> <p>Is the requirement for one(01) technician per Mobile CAAQMS or one(01) technician to be deployed for all two (02) Mobile CAAQMS units collectively?</p> <p>Your clarification on the above will be appreciated.</p>	<p>One (01) technician for all two (02) Mobile CAAQMS units collectively.</p> <p>The tender condition shall prevail</p>

		Tender due date extension.	<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>Kindly consider and confirm the extension.</p>	The tender condition shall prevail
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3. PRE-BID QUERIES FROM M/s. ENVEA INDIA PVT. LTD.

SINo.	Tender PgNo.	TenderClause	BiddersQuery	Resolution to the Queries by Committee
1	PageNo3	INVITATION FOR BIDS (IFB)	The TCN number and date are missing from the tender document. Kindly confirm the correct TCN No. and issue date to allow us to acknowledge the tender accordingly.	There is no tender number for the said tender.
2	PageNo3	EMD Price : 2% 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.	EMD in terms of percentage of submitted bid value will declared the quoted bid price value and hence, it will be against secrecies & basic norm of tender. In view of the above, fixed EMD value must be indicated which will be commonfor all bidders.	EMD will be Rs. 10 Lac.
3	PageNo5	Point No. 15 of Annexure 1 Air Conditioner, Split Type, Roof Mounted along with voltage stabilizer (2 x 2 ton) Two Unit	We request that split-type wall-mounted air conditioners to be considered in place of roof-mounted units, as roof-mounted ACs are generally not recommended due to accessibility and maintenance issues. Kindly confirm.	AC can be wall mounted split type.

4	PageNo5	Point No. 15 of Annexure 1 6.5KVA petrol generator (2nos.) OneUnit	Kindly confirm whether two (2) numbers of 6.5 kVA petrol generators need to be provided per Mobile van. Kindly confirm the scope of supply of fuel for petrol generator up to O&M period shall be under the scope of JSPCB.	The tender condition shall prevail
5	Page No. 6	Point No. 20 & 21 Annexure 1 Prior approval for material quality and make shall be taken from the engineer in charge.	Kindly Provide the Make	Tender condition shall prevail
6	Page No. 11	2.5 Qualifying Requirements of Bidders: The bidder should have executed a single order of minimum 01 no. of Mobile Ambient Air Quality monitoring Stations having above all the specified parameter during the last 05 years totaling to Rs 750 Lacs	Kindly clarify whether the eligibility condition mandates that both Fixed and Mobile CAAQMS must be part of the same single order. Since such combined orders are uncommon, we request confirmation that any single order of Rs. 750 lakhs or more, comprising either Fixed CAAQMS with Mobile CAAQMS or only mobile CAAQMS will be considered acceptable under this clause.	The bidder shall have supplied, tested, installed and commissioned at least 02 no's of Mobile Continuous Ambient Air Quality Monitoring Mobile van (CAAQMS) of any single order of Rs. 500 lakhs consisting of (NO/ NO2/ NOx, NH3- Ammonia, SO2, CO, Ozone, BTEX, PM10, PM2.5, Multi-point dilution

		<p>or more with any of the public sector's organization, State pollution control boards or any Govt. undertaking ending last day of the month previous to the one in which the tender is floated. The bidder should submit the relevant documentary evidence, like PO/proof of supply or a duly attested Invoice copy along with the technical bid.</p>		<p>calibrator and Zero Air Generator (OAM - original analyzer manufacturer make), Meteorological System, including Mobile Chassis & mobile body fabrication in last 05 years to any of PSUs, Central/ State Pollution Control boards or any Govt. undertaking in compliance to the technical specification</p>
7	Page No. 13	<p>2.5 Qualifying Requirements of Bidders: 2.5.14 The bidder shall submit the latest AQI report for any of the supplied & installed CAAQMS by the bidder, including all the specified 8 parameters duly approved by</p>	<p>As the latest AQI reports approved by CPCB/SPCB are confidential and may be restricted from sharing. We request acceptance of representative/sample AQI data (in CPCB/SPCB reporting format) in lieu of actual approved reports. Kindly confirm.</p>	<p>The bidder shall submit the authentic data along with weblink in which data is transmitted.</p>

		CPCB/ SPCBs.		
8	Page No.19	<p>6.0 PREPARATION OF FINANCIAL BID</p> <p>Preparation of Financial Bid: The Bidder shall enter a price or rate against all the forms specified in the following Sub-clauses from 6.2 to 6.5 and Attachments in Section IV, and the same documents shall be submitted in a separate sealed financial packet "C" only.</p>	We have noticed that Sub-clauses 6.4 & 6.5 are missing. Request you to kindly Provide the same.	The stated sub-clause is hereby deleted.
9	Page No. 19	<p>6.2 Summary of Bid Price:</p> <p>The unit rates and the prices shall be quoted by the bidder separately (in BoQ). The bid shall be submitted only in INR.</p>	We have noticed that no separate BOQ has been provided in the tender documents. If there is any specified format, kindly provide the same.	BOQ is attached as annexure.

10	Page No. 20	<p>6.3 Bid Price Breakup</p> <p>The unit rates and the prices shall be quoted by the bidder separately (in BoQ). The bid shall be submitted only in INR.</p>	<p>We have noticed that no separate BOQ has been provided in the tender documents. If there is any specified format. Kindly provide the same.</p>	<p>BOQ is attached as annexure.</p>
11	Page No. 28	<p>1.0 DETAILS OF PROJECT STRUCTURE</p> <p>b)The successful bidder would be awarded the project/work under a Supply and Service Agreement, which would entail:</p> <p>1. Supply of Vehicle model number TATA 1616 LPT or its equivalent, BS-VI variant (02nos.): - The procurement of 02 numbers of Vans along with chassis (VehicleFrame) and Supply, installation, and Commissioning of One</p>	<p>We kindly request your confirmation on whether the scope includes the supply, installation and commissioning of one or two analyzer systems.</p>	<p>One complete set for each MCAAQMV</p>

		<p>Set of air quality monitoring, one analysers system will be in the scope of the bidder. The Bidder would provide a complete set of Mobile Continuous Ambient Air Quality Monitoring Van ready to monitor the Continuous ambient air quality wherever required.</p>		
12	PageNo28	<p>(b) Supply, Installation and Commissioning of the analyzers system, total of 2 Nos. each in each MCAAQMV as per invitation for bids section.;</p>	<p>We kindly request your confirmation on whether the scope includes the supply, installation and commissioning of one or two analyzer systems.</p>	<p>One complete set for each MCAAQMV</p>
13	Page No. 16	<p>4.3 Bid Security/Earnest Money (2) The Bid securities in the form of Bank Draft in favour</p>	<p>Kindly Confirm the validity of bid security whether it is one hundred sixty-five (165) days from the date of opening of Techno-commercial Bids or one (1) year after commissioning of</p>	<p>The validity of EMD shall be one hundred sixty-five (165) days from the date of opening of Techno-commercial Bids.</p>

		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.	entire system.	
141	Page No. 16	This guarantee will remain in force up-to one(1) year after commissioning of entire system.	Kindly Confirm the validity of bid security whether it is one hundred sixty-five (165) days from the date of opening of Techno-commercial Bids or one (1) year after commissioning of entire system.	The validity of EMD shall be one hundred sixty-five (165) days from the date of opening of Techno-commercial Bids.
15	PageNo33	<p>GENERAL GUIDELINES</p> <ul style="list-style-type: none"> WorkingHours: The site for MCAAQMV operation should be maintained to work- manned by the employees of the Successful Bidder for 24 hours a day. In addition, the Successful Bidder would arrange for a 	As the tender is for mobile CAAQMS, kindly review and clarify the requirement for 24x7 site manning and deployment of security personnel, as it may not be applicable in the context of a mobile system.	As per the Labor Laws, 2025

		security of the site and equipment. through appointment for security agency (providing at least one security guards) throughout the day.		
16	Page No. 75	PRE CONTRACT INTEGRITY PACT This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on day of the month of 2025,	As per our understanding, This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on..... day of the month of 2026, Kindly Confirm	This pre-bid pre- contract Agreement (hereinafter called the Integrity Pact) is made on..... day of the month of 2026,
17	Page No. 82	BidForm Date this-----day of 2026.	As per our understanding, It is 2026. Kindly rectify.	Tender condition shall prevail
18	Page No. 95	17.0 WARRANTY/ O&M CONTRACT In case O&M is not awarded/ terminated the equipment shall remain warranted for 3 years.	In case O & M is not awarded/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.	In case O&M is not awarded/ terminated the equipment shall remain warranted for two (02) years.

19	Page No. 98	<p>Inspections and Tests</p> <p>The purchaser will test the equipment at the manufacturer's place before dispatch and also after completion of the installation and commissioning at the site of the installation</p>	<p>Please note Inspections and all necessary Tests shall be conducted at our Envea India Mumbai facility. Kindly Provide your acceptance.</p>	<p>The test shall be performed at site.</p>
20	Page No. 25	<p>14.0 PERFORMANCE SECURITY</p> <p>Within thirty (30)days of notification of award from the JSPCB, the successful Bidder shall furnish the Performance Security in the form of Bank Guarantee issued by a reputed bank (as per enclosed list of Attachment-15) having license to do business in India in accordance with Attachment-1” Performance</p>	<p>Kindly confirm the exact percentage of Performance Security to be submitted.</p>	<p>The performance security will 10% of the total price</p>

		Security Form” provided in Special Conditions Contract for an amount equivalent to 3% (three percent) of the Contract Price for one year after successful Commissioning of system.		
21	Page No. 100	<p>26.0 PERFORMANCE SECURITY</p> <p>The Contractor within thirty (30) days from the date of notification of award shall furnish a Bank Guarantee from a reputed Indian or Nationalized Commercial Bank having license to do business in India to the Board in line with the enclosed form as per Attachment-1 Section VI towards performance guarantee for an amount</p>	Kindly confirm the exact percentage of Performance Security to be submitted.	The performance security will 10% of the total price.

		<p>equal to ten (10 %) percent of the total Price under the Contract for faithful and due fulfillment by the Contractor of all obligations under the terms and conditions of the Contract. (Valid up to 1 Year from date of Successful installation and Commissioning) [Attachment - 1, Section VI].</p>		
222		<p>6.0 WORKS SCHEDULE (GCC CLAUSE 16)</p> <p>6.2 Equipment to be supplied from India:</p> <p>All the equipment shall be received at Continuous Ambient Air Quality Monitoring Station Sites within 90 days from the date</p>	<p>We request to consider the completion period as 180 days after the date of opening of Letter of Credit (LC).</p>	<p>The completion period as 180 days after the date of opening of Letter of Credit (LC).</p>

		<p>of notification of award and are to be installed and commissioned within sixty (60)days from date of receipt at site.</p> <p>6.3 Commissioning and others incidental services: Alltheequipmentoftheawarded packageshallbe commissioned within 120 days after the date of opening of Letter of Credit (L/C) including all the incidental services i.e. training etc.</p>		
23	PageNo113	<p>11.0 COMPLETION (GCC CLAUSE 23)</p> <p>The Contractor shall complete all the Works up to installation and commissioning of MCAAQMV's within 180</p>	<p>Please confirm if coverage for war risks and strikes is mandatory under the comprehensive insurance requirement, as these risks are typically not covered under standard insurance policies.</p>	<p>Tender condition shall prevail</p>

		days after the date of opening of Letter of Credit(LC).		
24	PageNo112	<p>8.0 INSURANCE(GCC CLAUSE19)</p> <p>A. The insurance (Comprehensive) shall be in an amount of equal to One Hundred Ten (110) percent of the value of the Equipment upto handing over of the Equipment to the Board on “All Ricks” basis, including war risks and strikes, naming the Board as the beneficiary.</p>	Please confirm if coverage for war risks and strikes is mandatory under the comprehensive insurance requirement, as these risks are typically not covered under standard insurance policies.	Tender condition shall prevail
25	PageNo143	<p>3.0 ONLINE UNINTERRUPTED POWER SUPPLY (UPS)</p> <p>3.1 ONLINE UPS 10KVA CAPACITY (Three Phase I/P & Single Phase O/P with 02 hours backup) (for Air</p>	As the 10 kVA UPS is not mentioned in Annexure 1, Attachment 1, and Attachment 3 (Price Breakup), kindly confirm the scope of the 10 kVA UPS. Accordingly, please include it in the Attachment-3 (Price Breakup) & Attachments.	Tender condition shall prevail.

		Conditioner)		
26	PageNo149-154	TECHNICAL SPECIFICATIONS Analog Output: 0-1V, 0-10V, 0-20mA or 4-20 mA	Kindly note that analog outputs are no longer in use. Standard digital outputs are now used for uploading data to CPCB and SPCB. Kindly request you to accept only digital signal output (USB/ Ethernet).	Both Analog/ Digital output will be considered.
27	PageNo165	7.0 DATA ACQUISITION SOFTWARE AT THE CENTRAL STATION AT EACH SPCB& CPCB	We understand that the scope of central station is not part of this requirement. Kindly Confirm	Tender condition shall prevail
28	PageNo170	b. DAY LIGHT & NIGHT VISIBLE DATA DISPLAY SYSTEM LOCATION NEAR TO CAAQM STATION	Kindly Confirm the scope of display board. As the Display board is not mentioned in Annexure 1, Attachment 1, and Attachment 3 (Price Break up), kindly confirm the scope of the Display board. Accordingly, please include it in the Attachment-3 (Price Breakup) & Attachments.	Only one display board required which shall be mounted over each mobile van.
29	PageNo153	5.8 BTEX MONITOR/ ANALYSER	The specifications provided in the tender differ from those outlined in the latest CPCB CAAQMS guidelines. We request that the specifications as per the CPCB guidelines be	As per CPCB protocol

			considered and accepted as the applicable standard. Kindly confirm.	
30	Page No. 147	4.1.11 However, in case of BTEX and Ammonia Analyzer specifications as given will be considered	Please refer to the latest CPCB Technical Specifications for CAAQMS (July 2019), which state: "However, in case of BTEX Analyzer, it shall be approved by USEPA/TUV/MCERT and for Ammonia Analyzer specifications as given will be considered." In view of the above guideline, kindly confirm that the BTEX analyzer to be supplied under this tender shall have approval from USEPA/TUV/MCERTS as specified by CPCB, and that the tender specifications will be aligned accordingly.	As per CPCB protocol
31	PageNo149-150	5.0 AMBIENT AIR QUALITY MONITORING ANALYSERS (GAS): SO_x, NO_x, NH₃ & BTEX Span check facility: Built in permeation bench	Since certified span gas cylinders are provided for calibration of the analysers, the requirement for an in-built permeation bench may be considered non-mandatory. Kindly confirm your acceptance.	As per CPCB protocol

32	PageNo156-157	a) Gas Calibration System:	The specifications provided in the tender differ from those out lined in the latest CPCB. CAAQMS guidelines We request that the specifications as per the CPCB guidelines be considered and accepted as the applicable standard. Kindly confirm.	As per CPCB protocol
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4. PRE-BID QUERIES FROM M/s. TRIPURARI ENTERPRISES PVT. LTD

Sl No.	Tender Pg No.	Tender Clause	Bidders Query	Resolution to the Queries by Committee
1	Pg no. 11	2.5.7 The bidder shall have an annual turnover not lower than Rs 50 Crore or more at least during one year out of the last 3 financial years. The bidder shall produce an annual report (Balance sheet & profit & loss statement) as proof for the same.	Request you to kindly ammend the clause to The bidder/OEM shall have an annual turnover not lower than Rs 50 Crore or more at least during one year out of the last 3 financial years. The bidder/OEM shall produce an annual report (Balance sheet & profit & loss statement) as proof for the same or The bidder shall have a turnover not lower than Rs 10 Crore or more last 3 financial years.	Tender condition shall prevail

Note: Kindly refer to the replies other than above made to the OEM.

ATTACHMENT 2

SUMMARY OF BID PRICE

DESCRIPTION	Total Value in Indian Rs. (excluding GST)
I SUPPLY	
The FOR-destination price of the Equipment from Attachment – 3	
II O&M CHARGES	
Total O&M charges for five years as indicated in Attachment 3A	
GRAND TOTAL CONTRACT PRICE (INR) (I + II)	
(Indian Rupees -----Only.)	

Note:-

1. Contract price quoted for supply part shall be on FOR destination basis and shall include all cost except GST
2. Only GST shall be payable extra as per applicable rate by JSPCB.
3. Quoted cost of O&M of Mobile CAAQMS for each year should be at least 12% (excluding GST) of the cost of supply. If O&M price is less than 12% than supply price will be adjusted to make the O&M cost as 12% of the supply cost (FOR destination) keeping the total quoted cost as unchanged.

ATTACHMENT - 3**BID PRICE BREAKUP FOR EQUIPMENT (FOR Destination) PRICE**

Item / Analyzer Name	Manufacturer	Country of Origin	Model	Quantity in Nos. / Sets	Unit Price in Rs.	TOTAL Price in Rs.
Automatic Ambient CO Analyzer				2		
Automatic Ambient SO ₂ Analyzer				2		
Automatic Ambient NO, NO ₂ ,and NO _x Analyzer				2		
Automatic Ambient NH ₃ Analyzer				2		
Automatic Ambient O ₃ Analyzer				2		
PM ₁₀ Monitor				2		
PM _{2.5} Monitor				2		
Ambient BTX Analyser				2		
Multi-calibration systems for Gas Calibration and Meteorological, Flow and Electronic Calibration				2		
Meteorological System comprising of sensors for (A) Wind Speed, (B) Wind Direction, (C) Ambient Temperature, (D) Relative Humidity, (E) Solar Radiation , (F) Rainfall, mounted on				2		

(G) Telescopic Crank-up Meteorological Tower						
Computer system consisting of one PC along Colour Laser printer with latest specification, and DAS at the monitoring station with peripherals. Software for data acquisition/ Data transfer and system integration, telephone, Modem.				2		
19" rack cabinet to accommodate all Analyzers & Systems				2		
Arrangements like Thermally Stable Housing (Body Built up) for installation of Continuous Ambient air quality Monitoring analysers with Sampling line, Internal fitting, Instruments racks, Electrical and Gas line Fittings, Tools(electrical and mechanical) as per specification				2		

Vehicle model number TATA 1616 LPT OR equivalent along with vehicle frame (Chassis build up) air conditioned and thermally stable instrument cabin including GPS				2		
Air Conditioner, Split Type, Roof Mounted along with voltage stabilizer (2 x 2 ton)				4		
6.5 KVA petrol generator with cable drum of 50 mtrs				2		
Online UPS (1x5 KVA, 2 Hours backup)				2		
TOTAL Indian Rs.						

ATTACHMENT 3(i)

BID PRICE BREAKUP FOR O&M OF CAAQM STATIONS FOR FIVE YEARS

Sl. No	Year of O&M	Unit Rate per year	Quantity	Total O&M charges for the year
		(In Rs.)	(In Nos.)	(In Rs.)
1	1st year		2	
2	2 nd year		2	
3	3 rd Year		2	
4	4 th year		2	
5	5 th year		2	
TOTAL				

NOTE:

**GST/ Taxes shall be payable extra by JSPCB.
Fuel Charges for vehicle and generator will be reimbursed extra at actuals on monthly basis against documentary evidence of fuel bill and submission of invoice.**