

## **MINUTES OF TENDER COMMITTEE MEETING OF PRE-BID**

### **(2020\_MPCB\_603885\_1 “Supply, installation and commissioning And Operation & maintenance services of Mobile Continuous Ambient Air Quality Monitoring Van (MCAAQMVV)”- 15 Nos.)**

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**Date & Time :** 24<sup>th</sup> August, 2020 at 1230 Hrs.

**Venue :** Online meeting on Microsoft Teams.

**Committee Members:**

MPCB : JD (APC), CAO, LO, SA  
CPCB : Mr. S K Sharma  
NEERI : Dr. K V George, Head APC Division CSIR-NEERI  
MAHAGENCO: Mr. Nitin Wagh, MAHAGENCO

**Agenda:** Pre-bid meeting for the e-tender: “Supply, installation and commissioning And Operation & maintenance services of Mobile Continuous Ambient Air Quality Monitoring Van (MCAAQMVV)”15 Nos. (Tender reference no: MPCB/JD (APC)/07/2020)

Due to COVID-19, the pre-bid meeting was held online through VC to resolve the queries raised by the different bidders, following bidder were present in the pre-bid meeting:

- 1) M/s ACOEM ECOTECH India Pvt. Ltd.
- 2) M/s Chemtrols Industries Pvt. Ltd.
- 3) M/s Thermo Fisher India Pvt. Ltd.
- 4) M/s Environment SA India Pvt. Ltd

The Committee clarified the queries received in writing / 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 e-tender and shall be binding to both, MPCB and Bidders.

The committee has also decided that, the queries received after the deadline as per the tender condition / and after pre-BID meeting, shall not be considered for reply & e-tender bidding.

The meeting ended with vote of thanks to the chair.

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**Annexure-I**

Pre-bid queries for Tender Reference no: MPCB/JD(APC)/07/2020 dated 17.08.2020 for Supply, Installation & Commissioning Of Mobile Continuous Ambient Air Quality Monitoring Van (MCAAQMV) And Operation & Maintenance Services For This CAAQMS At State Of Maharashtra – 15 Nos.

**I. M/s. Ecotech Pty. Ltd, Queries / request are as follows: - Commercial Query**

<b>Sr.no.</b>	<b>Tender Page no.</b>	<b>Clause no.</b>	<b>Query raised by the bidder</b>	<b>Clarification given for the query</b>
1.	Pg.24 of 233	ITB – Instruction to Bidders Cl. 4.4 - Bid Security / Earnest Money	<ul style="list-style-type: none"><li>• Tender document stipulates for submission EMD of Rs. 65 Lacs (Rs. Sixty-Five Lakh Only) in from of Bank Guarantee from Nationalized Bank located in India or from the list of bank under Attachment 14</li><li>• Please confirm if Bank Guarantee from any Schedule India bank like HDFC Bank or Foreign Bank like Barclays Bank listed under the schedule of RBI is acceptable in addition to the name of bank listed under Attachment 14.</li><li>• Since processing a Bank Guarantee from a Nationalize bank during the Covid Crisis may lead to delay in issuance, since most of the banks are working with limited resources. Also, requested to please provide the following details for issuance of EMD in from of Bank Guarantee.  a) MPCB Bank details with Bank Account No. and IFSC code b) MPCB GST No. c) MPCB PAN No.</li></ul>	BG shall be from Nationalized Banks or the private banks whose net worth is greater than Rs.4000/- crore will be considered for payment of EMD through BG. Bank Details : Bank Account No. (SBI) :10184075404 IFSC Code: SBIN0005350 SWIFT Code: SBININBB355 GST No. 27AAAGM0150J1DT E-mail ID: account@mpcb.gov.in Mobile No. :9869365974
2.	Pg.24 of 233	Cl. 4.4 - Bid Security / Earnest Money	Also, it is requested to please confirm that the EMD in form of Bank Guarantee submitted by bidders 100% owned Indian subsidiary/ Indian establishment on behalf of Bidder is acceptable	Accepted.
3	Pg. 116 of 233	SCC – Cl. 6.0 (6.1, 6.2 & 6.3) Work Schedule - Delivery period	The Work schedule /delivery period of supplies provided in tender for 120 days may be insufficient considering the project being of large-scale turnkey nature with 15 nos. of supply & Installation of MCAAQMV at different locations across the state of Maharashtra.	No change in Tender Condition. Supply period shall be 120 days.

			Hence it is requested to please consider delivery period of supplies as 240 days from date of opening of Letter of credit for both Imports and Local supplies, and Installation & Commissioning to be carried out within 90 days from date of receipt of materials	
4	Pg.30 of 233	Cl. 6.5 - Currencies of Bid	<p>We understand as per Attachment- 2 – Summary of Price bid allows to offer the project on split currency basis (i.e. supplies &amp; services from Indian in INR and whereas Imports in foreign Currency in USD/GBP/Euro/Yen.).</p> <p>However, the BOQ_1045734.xls do not have provision to input price only in INR and not in multiple currency. (i.e. for supplies and services from India in INR and Imports in any of the Foreign currency).</p> <p>Please clarify.</p>	Necessary changes shall be made in BOQ.
5		Price Bid BOQ_1045734.xls	<p>BOQ_1045734.xls</p> <p>The quantity specified under- price bld BOQ_1045734.xlsx format is Qty 01 No. instead of Qty 15 nos. Kindly clarify if total price for single Qty to be inputted or price of Total Qty for 15 nos to be inputted as 01 lot under BOQ_1045734.xlsx format.</p> <p>The BOQ_1045734.xlsx have provision only for inputting the prices in INR. Requested to please include foreign currency towards supplies/imports made in foreign Currency along with INR portion.</p>	Necessary changes shall be made in BOQ.



		<ul style="list-style-type: none"> <li>• Cl. 4.7 - The permeation tube and the calibration gases provided with the system shall have Traceability to NIST.</li> </ul>	<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>	
<b>3</b>	Pg. 157	<ul style="list-style-type: none"> <li>• Cl. (G) 2.5 - BTX Monitor / Analyser Technical Specification</li> <li>• Cl. 2.5 Calibration Unit With Span Gas / In Built Calibration With /Permeation Tubes And Gas Mixing / Dilution Facility</li> </ul>		
<b>4</b>	Pg.158	<ul style="list-style-type: none"> <li>• Cl. (J ) Multi Calibration System</li> <li>• Cl. J (a) – Gas Calibration System</li> <li>• “The system should include at least three permeation chambers and should accept a Permeation Tube up to 11 cm in total length and 2 cm in diameter.”</li> </ul>		
<b>5</b>		Refueling charges of Vehicle towards (MCAAQMV) during operation and O&M period	Kindly confirm the refueling charges of Vehicle during operation of MCAAQMV from date of handover and during O&M period shall be in the scope of MPCB	Refueling charges will be borne by MPCB
<b>6</b>	-	Refueling of Petrol Generator towards (MCAAQMV) during operation and O&M period	Kindly confirm the refueling of Petrol Generator during operation of MCAAQMV from date of handover and during O&M period shall be in the scope of MPCB.	Refueling charges will be borne by MPCB
<b>7</b>	-	Appointment and monthly Salary of Driver and Cleaner for Vehicle.	We understand that appointment and payment of monthly Salary to Driver and Cleaner towards during operation of MCAAQMV from date of handover and during O&M period shall be in the scope of MPCB.	Yes, in the scope of MPCB.
<b>8</b>	-	Electricity Charges	Kindly confirm the monthly Electricity Charges (if applicable) during operation of MCAAQMV from date of handover and during O&M period shall be in the scope of MPCB	Electricity charges (If any) will be borne by the MPCB

**II. M/s. Chemtrols Industries Pvt. Ltd.- Queries / request are as follows:**

Sr.no.	Tender Page no.	Clause no.	Query raised by the bidder	Clarification given for the query
1.		E-tender time schedule: Bid submission due dated 10 <sup>th</sup> September, 2020 at 5.00 pm As	As our office is in buffer zone and local trains are not operational and many employees are residing in hot zones, hence they are unable to attend office. Hence, we request you to kindly extend the due date by another 1 month i.e. 10th October, 2020	No change in tender Condition.
2.		Volume – I Instruction to Bidders, Qualifying Requirements, Clause no: 2.5.1 : The bidder should be a manufacturer or an authorized agent listed in the scope of work and must have supplied, manufactured, installed, commissioned minimum three (02) nos. of mobile ambient air quality monitoring vans in their existing tenure and must have commissioned minimum 05 nos. of CAAQMS stations with 08 notable parameters in the last three years and should be in satisfactory operation.	Please clarify the correct numbers of documents requirement whether three / two as it calls for three in words and 02 nos. in figures.	Please read as this: The bidder should be a manufacturer or an authorized agent listed in the scope of work and must have supplied, manufactured, installed, commissioned minimum Two (02) nos. of mobile ambient air quality monitoring vans in their existing tenure and must have commissioned minimum 05 nos. of CAAQMS stations with 08 parameters in the last three years.
3		Volume – I Instruction to Bidders, Qualifying Requirements, Clause no. 2.5.6: Equipment to be supplier	We suggest 180 days from the date of notification of award and are to be installed and commissioned within sixty (60) days from date of receipt at site.	No change in tender condition

		from India: All the equipment shall be received at Continuous Ambient Air Quality Monitoring Station Sites within 120 days from the date of notification of award and are to be installed and commissioned within sixty (60) days from date of receipt at site.		
<b>4</b>		Volume – Section VI.GCC Clause 29,SCC Clause 13.2: (b) Payment of goods and services (excluding O&M charges) supplied from India. i) On Delivery: Eighty (80) % of the contract price shall be paid (Through LC) on receipt of Goods and upon submission of the documents specified in Clause 5.2	Complete system will be delivered which is built at our factory. There are no work at site for Mobile Monitoring Vans . All work : Chasis building at our factory. Van will be registered in the name of MPCB. We suggest delivery challan /MPCB inspection report of Mobile Van /Chemtrols internal inspection report to be part of negotiating document of LC	No change in tender condition
<b>5</b>		Volume I, Section V, GCC Clause no. 25.0 Payment: 25.2 The payment shall be made promptly by the Board but in no case not later than sixty (60) days after submission of invoice or claim by the contractor.	Since the LC is on DP basis, this clause is not applicable	No change in tender condition
<b>6</b>		Volume I, Section II, Scope of Works b. Schedule of Requirements: Details of Project Structure: 9 : Petrol Generator Set :10 KVA – 1 unit	We recommend Diesel Generator considering safety.	6.5 KVA petrol generator set and 5 KVA UPS system is required.

7		BOQ_1045734	<ul style="list-style-type: none"> <li>• There is no provision for providing the Commercial bid formats, only prices in figures are to be indicated. Please confirm.</li> <li>• Please confirm: Mobile van if and when to be taken out for monitoring, Driver, Diesel... instance etc in whose scope. Vehicle cannot remain stationery all through. At least twice a week Van has to be taken out.</li> <li>• Mobile Monitoring Vans is stationed at Regional offices. Will it be powered from electric grid of Regional Office which means we do not operate Diesel Generator. In a day how many hours Mobile Monitoring Van will be operated</li> </ul>	BOQ will be updated.  MMV are at the disposal of Respective RO's, they will schedule the monitoring.
8		NEFT Details Request	We request to please provide NEFT details for transferring tender fees amount	MPCB Bank details: a) State Bank Of India, A/c No: 10184075426 b) GST No: 27AAAGM0150J1DT C) PAN: AAAGM0150J
			Under Atmanirbhar Bharat and Public Procurement Policy ,if the local content is met by the bidder, are there any price preference.	Not for this tender.

**III. The queries / request from M/s. Thermo Fischer Scientific India Pvt. Ltd. are as under:**

Sr.No.	Tender Page no.	Tender Clause no.	Query raised by the bidder	Clarification given to the query
1.	Pg. 10 & 19 of 233	Invitation for Bids & Instructions to Bidders Clause - 2.4 & 2.5.5	We request that number of documentary evidence to be changed from 2 nos. to 1 no. for Mobile AAQMS.	No change in tender Conditions
2.	Pg. 18 of 233	Instructions to Bidders	We request that the clause be changed as follows:	No change in tender Conditions



		Clause - 2.5.1	The bidder should be a manufacturer or authorized agency as listed in the scope of work who must have manufactured, supplied, tested and commissioned/built minimum <b>One (1) no. Mobile Continuous Ambient Air Quality Monitoring Van (MCAAQMV)</b> in their existing tenure and should have commissioned minimum Five (05) nos. of Continuous Ambient Air Quality Monitoring Stations (CAAQMS); for online monitoring of <b>Five (5) number</b> of notified parameters as per AQ Standards 2009 in the last three years and which should be in satisfactory operation. Please confirm your acceptance.	
3.	Pg.46 of 233	Vol-1, Section -II, Scope of Work  Clause: 11	During Operation and maintenance of MAAQMV, please confirm that fuel for Mobile AAQMV shall be in MPCB's scope.	Refueling charges will be borne by MPCB
4.	Pg.82 of 233	Attachment 13, Indemnity Bond – Clause 3	Regarding the said clause, we request you to delete the following clause "... It is clearly understood by the Contractor that non - observance of the obligations under this Indemnity Bond by the Contractor shall inter-alia constitutes a criminal breach of trust on the part of the Contractor for all intents and purposes including legal / penal consequences." Our legal team requests that the abovementioned clause be deleted from the Indemnity Bond as the system will be	Consider alternate word under applicable law instead of criminal law.

			<p>maintained by us and we assure you that the system will be utilized only for the purpose mentioned in the tender.</p> <p>A criminal liability linked to this clause is not acceptable to our legal team and to our global management in the US.</p> <p>Kindly confirm your acceptance.</p>	
5.	Pg.147 of 233	<p>Vol-II, Technical Specifications</p> <p>Clause 4.6 &amp; 4.7</p>	<p>It is recommended that calibration of analyzers be done using Calibration Gas Cylinders.</p> <p>Please confirm whether permeation tubes and provision for calibration using permeation tubes in analyzers and calibrators are required.</p>	<p>Calibration of analyzers should be done using Calibration Gas Cylinders.</p>
6.	Pg.147 of 233	<p>Vol-II, Technical Specifications</p> <p>Clause 4.10</p>	<p>We request that the word “<b>conform</b>” be replaced by “<b>approved</b>” as CPCB requires that all <b>analyzers used in AAQMS shall be approved</b> by USEPA/TUV/EN/MCERTS/ equivalent authority. Please confirm your acceptance.</p>	<p>As per CPCB specifications.</p>
7.	Pg.150 of 233	<p>Vol-II, Technical Specifications</p> <p>Clause 7.0 (A) -09</p>	<p>Response Time for NOx analyser shall be 40 seconds as manufacturer’s standard. Also, CPCB specifications call for response time of 120 seconds. Please confirm acceptance of the same.</p>	<p>No change in tender conditions</p>
8.	Pg. 158 of 233	<p>Vol-II, Technical Specifications</p> <p>Clause J (a)</p>	<p>Please confirm whether Permeation Bench is required in multi-point calibrator as the calibration of all analyzers are to be done using calibration gas cylinders.</p>	<p>Calibration of analyzers should be done using Calibration Gas Cylinders</p>

9.	Pg. 229 of 233	Vol-II, Technical Specifications Clause 10	Please confirm if Display Board is required at MPCB office and on Mobile AAQMS.	It is not needed either at MPCB office as well as on Mobile CAAQMS
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**IV. The queries raised by M/s. Environment SA India Pvt. Ltd:**

Sr.no.	Tender page no.	Tender Clause no.	Query raised by the bidder	Clarification to the query
1.	Pg. 3 of 253	Tender Notice details EMD Amount & Mode of Payment	In Tender Notice Details (pg. no. 3 of 253) EMD Amount is mentioned as Rs. 65 lakhs (Rupees sixty-five lakhs only) whereas, as per Tender Details available on e-portal, EMD amount is mentioned Rs. 0.00 & also there is no option to upload the EMD in the form of Bank Guarantee on e-portal. Kindly clarify the same.	Read it as Rs.65 lakhs only. (Rupees sixty-five lakhs only)
2.	Pg. 30 of 253	Vol: I, Instruction to Bidder Clause no. 6.5 - Currencies of Bid	We understand that as per Attachment- 2 – Summary of Price bid allows to offer on the basis split currency (i.e. supplies & services in Indian Currency and Analyzers in foreign Currency. However, in the BOQ_1045734.xls there is provision for price in INR only. So, we understand that the total value filled in BOQ should be converted from	BOQ will be amended.

			foreign currency that mentioned in attachment-2 into INR so that while placing the order prices will be considered in Euro as mentioned in attachment-2. We request your acceptance.	
3.		Clause:2.5.1	<p>Typographical Error – It should be Minimum Three (03) nos. OR Minimum Two (02) nos.</p> <p>Three (03) nos. OR Two (02) nos. Mobile Continuous Ambient Air Quality Monitoring Van in their existing tenure and (05) Nos of CAAQMS Station with 8 Notified Parameters in last three years are on the higher side, hence requested to relax these qualification requirements a bit.</p>	<p>Please read as this: The bidder should be a manufacturer or an authorized agent listed in the scope of work and must have supplied, manufactured, installed, commissioned minimum Two (02) nos. of mobile ambient air quality monitoring vans in their existing tenure and must have commissioned minimum 05 nos. of CAAQMS stations with 08 notable parameters in the last three years and should be in satisfactory operation.</p>
4.		<p>SCC Clause :6.0</p> <p>Clause 6.1,6.2 &amp; 6.3 Material delivery &amp; Commissioning period</p>	<p>The project being of large-scale turnkey nature with 15 nos. of supply &amp; Installation of MCAAQMV at different locations across the state of Maharashtra.</p> <p>Hence it is requested to please consider delivery period of supplies as <b>180 Days</b> from date of opening of Letter of credit for both Imports and Local supplies, and Installation &amp;</p>	No change in tender condition

			Commissioning to be carried out within <b>30 days</b> from date of receipt of materials.	
5.	-	Mobile Van Parking location	Kindly confirm the Mobile Van Parking Location selection of Vehicle during operation of MCAAQMV from date of handover and during O&M period shall be provided by MPCB.	<ul style="list-style-type: none"> <li>• Mobile van will be parked at Regional / Sub-Regional office.</li> <li>• One engineer will be posted on each Mobile Van.</li> </ul>
6.		Refuelling for Mobile van & Petrol generator	Kindly confirm the re-fuelling charges of Mobile Van & Re-fuelling Charges of Petrol Generator during operation of MCAAQMV from date of handover and during O&M period shall be in the scope of MPCB, else kindly confirm the per day kilometre for each Van & we shall adjust the fuel Cost in O & M. However, if vehicle used more than mentioned, vendor will charge fuel cost accordingly to MPCB.	Refueling charges will be borne by MPCB
7.	Pg.182 of 253	Vol. II, Annexure -I: 3.0,3.1.1	Please note that 6.5 KVA portable petrol generator are available in the market which can be fitted easily in the Mobile Van and has been used as a standard practice, Kindly confirm acceptability.	5 KVA UPS system and 6.5 KVA petrol generator set will be the part of this tender.
8.	-	Driver recruitment and salary	Kindly confirm, in whose scope is recruitment & monthly Salary of Driver during operation of MCAAQMV from date of handover and during O&M period.	Scope of MPCB
9.	-		Please note that model LTP 709 EX2 is BS IV engine, however as per new guidelines	Tata Model LTP 709 EX2 or its equivalent, BS-VI variant.

		Vehicle Model no: LPT 709 EX2	all engines should be BS VI, also note that the said model is not available in market. Kindly provide an alternate model.	
10.	-	Selection of monitoring site, Location and permission	Kindly confirm that MPCB shall provide Monitoring site location and also all necessary permission including power supply at these locations.	MPCB will provide the tour programme of the Van. One Engineer will accompany the van, wherever it goes. Further when the van is at stationary condition (parked at RO/SRO office, Engineer should perform the calibration and other necessary maintenance of the analysers)

**Annexure-II**

Technical specifications of “AMBIENT OZONE (O<sub>3</sub>) ANALYSER” Conforming to  
USEPA Automated Federal Reference Method (FRM) Designation

01	Principle	:	UV Photometric
02	Measurement	:	Ozone in Ambient Air
03	Display	:	Digital
04	Range	:	Auto ranging 0 - 500 PPB
05	Minimum Detectable Limit	:	2.0 PPB
06	Noise	:	± 1.0 PPB
07	Zero Drift	:	< ½% per month
08	Span Drift	:	< 1% per month
09	Calibration	:	With built in Zero and span generator and also see Multi-calibration section
10	Linearity	:	Continuous + 1%
11	Output Signals or Analog Output	:	3 Analog output 0 - 1 V, 0 - 10 V, 0 - 20 mA or 4 - 20 mA
12	Digital Output	:	RS 232 port/ Ethernet

**Technical specifications of “5 KVA Stabilizer”**

01	Installation	:	Wall mount / Table-Top
02	Display	:	Seven Segment
03	Operation	:	Automatic
04	Cabinet Material	:	Metal
05	Listing Description	:	Automatic Voltage Stabilizer Input Voltage: 90V-300V Application-5KVA/15A Mainline
06	Input Voltage Range	:	90V-300V
07	Accuracy	:	± 9 % or better
08	Other	:	<ul style="list-style-type: none"><li>• Cut off protection</li><li>• Overload-Short circuit protection</li><li>• Surge protection</li></ul>