

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

Clarification to Bidder's queries

Sl. No.	Page(pg) No , Doc. Ref. & details.	Clause Nos.	Bidder's Queries	NTPC's Response
1	IFB Qualifying Requirements of Bidders Pg 3 of 142	6.1	We understand from Cl 6.1 is that the bidder (i.e manufacture or authorized representative) should have experience in similar monitoring stations of the offered make/manufacturer of Gas Analysers only which the bidder intends to supply , Install & commission at NTPC RSPCB under this tender, and also the bidder should submit the experience/ completion certificate or client certificate / and purchase order as documentary evidence in support of satisfactory operation of similar monitoring stations for the offered make/manufacturer only, which the bidder intends to supply, Install & commissioning at NTPC-RSPCB under this tender. Please confirm.	Provisions of Bid Document shall prevail.
2	IFB note: Note: "Similar air monitoring stations" stands for CAAQM stations containing at least five analyzers out of eight base analyzers. Pg 4 of 142	Note	It is understood that as per CPCB norms the supply, Installation, commissioning & performance of all the eight parameters for eight Analysers namely SO ₂ , NO _x ,NH ₃ , CO, O ₃ , PM ₁₀ , PM _{2.5} & BTEX are required to meet the definition of Similar Air monitoring Station(CAAQMS) instead of specified five analyzers. Kindly confirm.	Provisions of Bid Document shall prevail.
3	IFB 'Class-I local suppliers' and 'Class-II local suppliers' only are eligible to participate in this tender, as	Cl 10.0	We understand that all preferences referred therein to the Class I & Class II local supplier under Aatmanirbhar Bharat / Make in India initiative in order to promote self reliance and manufacturing and	Provisions of Bid Document are clear

	defined in the bidding documents/ Public Procurement (Preference to Make in India), Order 2017 and its subsequent amendments/ revisions issued by DPIIT. The bidders may apprise themselves of the relevant provisions of bidding documents in this regard before submission of their bids." Pg 4 of 142		production of goods and services in India by an OEM/ Manufacturer under Make in India/ Aatmanirbhar Bharat initiative of the Govt of India Order No. P-45021/2/2017-PP (BE-II) Dated 04 th June 2020 shall be extended to the bidder. Kindly confirm.	
4	IFB– Bid Security Pg 2 of 142	Cl. 5.0	We understand from Cl. 5.0 of IFB that Bid security declaration in letter head of the bidder to be furnished instead of EMD / Bid Security in form of DD/NEFT/RTGS or Bank Guarantee. Please confirm.	Provisions of Bid Document are clear
5	Section - IV SCC Cl. 6.0 – Work Schedule Pg 116 of 142 SCC Cl. 11 – Completion Pg 118 of 142	Cl. 6.0 Cl. 11	Kindly note that considering the tender Qty of 37 nos of CAAQMS + MVCAAQMS and the project being large scale in nature involving various sub vendor components, Imports & long delivery items, & CAAQMS being an integrated complex systems, and considering the logistics limitations in present COVID situation with regards to imports and local Integration components with sub vendors, it is requested to consider the Work Schedule & Completion time as follows Delivery period as 36 Weeks instead of specified 13 weeks, and completion period as 48 weeks from date of letter of credit.	All the equipment shall be received at Continuous Ambient Air Quality Monitoring Station site, within 17 weeks from the date of Notification of Award and are to be installed and commissioned within 15 weeks from date of receipt at site.

CAAQM & MOBILE AAQM Stations for RSPCB	Bidding Doc. No.: CW-CM-11080-C-O-M-001	Clarification No. 1 to Bid Documents	Page 2 of 25
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6.	Section - IV SCC Cl. 15 – Performance Security Pg 120 of 142	Cl 15.0	Please consider revised Performance security as per latest GOI Notification No. F.9/4/2020-PPD dtd: 12/11/2020. (Notification Attached) On account of slowdown in economy due to the pandemic and there is acute financial crunch among many commercial entities and contractors, which in turn is affecting timely execution of the contracts. The Government of India considering many representations and based on that have revised the requirement of Performance security deposit through a order no. No. F.9/4/2020-PPD dtd: 12/11/2020 to 3% for all existing 5% to 10% requirements. Requested to please clarify & confirm the applicability of this order to this tender.	Provisions of Bid Document shall prevail..
7	Section - IV SCC Cl. 16 – Liquidated Damages Pg 121 of 142	Cl 16.0	Requested to please consider the standard rate of Liquidated Damages applicable to such CAAQMS tender and followed by other PCB's and Govt organisations. The standard rates are 0.5% per week on undelivered portion or part thereof, to maximum 5% of the supply value. Please confirm.	Provisions of Bid Document shall prevail.
8.	Customs duty		Kindly confirm if Customs duty exemption / concessional customs duty is applicable for this project to NPTC-RSPCB. If so, please make necessary provision in price bid to quote in foreign currency like USD/AUD/ EURO alongwith INR for domestic supplies & services.	Bid Documents provisions are clear
9.	Section-IV- Form of Financial Bid ATTACHMENT 3AF - BID PRICE BREAKUP FOR O&M OF ONE CAAQMS FOR SEVEN		Please note that post GST implementation by GOI, GST is extra applicable on the entire O&M Total Charges. (i.e extra on Service portion + extra on Spares & Consumables)	Please refer to Amendment-1 sl. no. 13.

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	<p>YEARS Note: B - COST OF MATERIAL INCLUDING SPARES & CONSUMABLES FOR OPERATION & MAINTENANCE SHALL BE INCLUSIVE OF ALL TAXES & DUTIES. Pg 95 of 142</p>		<p>Hence GST shall be payable extra on the Total Charges of O&M. Please confirm.</p>	
10.	<p>Section-IV- Form of Financial Bid ATTACHMENT 1F - BID FORM ATTACHMENT 2F - SUMMARY OF BID PRICE. ATTACHMENT 3F - BID PRICE BREAKUP FOR EQUIPMENT ATTACHMENT 3AF - BID PRICE BREAKUP FOR O&M OF ONE CAAQMS FOR SEVEN YEARS (Pg 2, 3, 4, 5, 6 & 7 of 7 – Sec - IV) Pg 90 of 142 and Price bid format in XLS - BOQ_51547</p>		<p>Please note that your BOQ_51547.xls format provided under Financial bid shall suffice the requirement of Attachment – 1F – Bid Form, Attachment 2F- Summary of Price bid, Attachment 3F – Bid price break up for equipment and Attachment – 3AF Bid Price break up for O&M. Please note that duplication of uploading this financial bid format in pdf form along with BOQ_51547.xls may possibly create confusion in final price bid evaluation. Hence requested to please consider only Attachment – 1F – Bid Form price to be uploaded in pdf version along with BOQ_51547.xls . Kindly confirm.</p>	<p>Xls format is a mandatory system requirement wherein only total supply prices and total O&M charges are required to be filled in. Bidders to ensure uploading of all price bid attachments (duly filled) . Prices quoted in pdf formats shall prevail</p>
11.	<p>Price bid format in XLS - BOQ_51547</p>		<p>We understand that the Basic Rate (column 13) to be imputed under XLS price bid format for Qty 01 LPS specified under Column no. 4 & 5 towards Item Sl. No. 10.0001 is for entire Lot of 37 nos.of Supply FOR destination price to be quoted under Basic Rate as 01 Lot and, Sl. No. 10.0002 – O&M charges for 07 years is for entire lot of 37 nos of CAAQMS to be quoted under</p>	<p>Bidder's assumption is correct .XLS price bid shall contain only total supply price and O&M charges.</p>

			Basic Rate (column 13) as 01 lot for 07 Years for all 37 nos. Pls clarify & confirm.	
12.	Price bid format in XLS - BOQ_51547 Column 30 Any other Charges (Absolute Value for tendered Quantity)		Kindly confirm if GST value towards Supply & O&M to be imputed on Column 30 – under “Any other charges” of XLS price bid format. Or GST shall be calculated extra by NTPC and not to be imputed in XLS price bid format. Please clarify & Confirm.	Only GST shall be payable extra as per applicable rate by the owner. GST need not to be quoted in Bid.
13.	Road Tax towards Mobile AAQMS		Kindly confirm payment of Road Tax towards Mobile Van AAQMS shall be in the scope of NTPC-RSPCB, and shall be extra applicable or reimbursed against submission of payment advice by RSPCB to the contractor. Also please confirm necessary required documents shall be timely provided by RSPCB to the contractor if in case the same is exempted for RSPCB. Pls confirm.	Cost of registration of Vehicle and Road Tax shall be reimbursed by RSPCB against submission of documentary evidence. Required documents shall be provided by RSPCB
14.	Volume - II Technical Specification 4.1 - General Specification for all Analysers Cl. 4.1.8 “permeation tubes” (Pg 13 of 45) and ; Cl. 7.1 (1) (v) (vi) – Multigas Calibration System - (Pg 21 of 45) (v) “Calibration using permeation tubes for which at least two	Cl. 4.1.8 Cl. 7.1 (1) (v) (vi)	The specified Built in permeation bench and provision of permeation tubes under multigas calibration facility is generally not available with most of the vendor ,hence requested to generalize the same by deleting the text “atleast two chamber based permeation system” since the CAAQMS system will be calibrated as per NIST standard traceable calibration cylinder, 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.	Refer Amendment No 1, serial number 4 and 5

	chambers based Permeation system has to be provided.”			
15.	Volume - II Technical Specification – (Pg 9, 10 of 45) Air Conditioners Cl. 2.1.1–Split Air Conditioners (2 Ton) Cl. 2.2.1–Split Air Conditioners (1 Ton)	Cl. 2.1.1 Cl. 2.2.1	Please note that the tender has stipulated split type, roof mounted Air Conditioners with 5 Star rating, please note that the wall mounted split type Ac’s is technically appropriate for easy maintenance in CAAQMS instead of roof mounted. Roof Mounted Air conditioning is also not recommended and advisable as the roof panel,thickness of the shelter may not hold the weight of cassette type air conditioners. Please clarify.	Refer Amendment No 1 serial number 6
16.	Volume - II Technical Specification – (Pg 10 of 45) Cl. 1.1.10 - Security Cabin & Section-IV- Form of Financial Bid (Page5 of 7) pdf pg 94 of 142 Attachment 3F – Bid price breakup for equipment – Sl. No. 34 – Security Cabin	Cl. 1.1.10	We understand that the Security Cabin specified under Cl. 1.1.10 of Housing container specification is to be offered and supplied on optional basis and the need will be purely based on site requirements. Kindly confirm. Also requested to provide appropriate provision in price bid format Attachment 3F – Bid price breakup for equipment and BOQ_51547.xls to quote for optional item.	Provisions of Bid Document shall prevail. Check Attachment 3F
17.	Volume - II Technical Specification – (Pg 27 of 45) Cl. 10.4 –Manageable Cisco Switch and Technical Specification – (Pg 5 of 45) Bill of Quantities (Pg 27 of 45) Manageable CISCO Switch (Rack Mountable		Please clarify if each CAAQM Station (i.e all the Local Station CAAQMS + MVCAAQMS) to be supplied with each Manageable Cisco Switch, Or only 01 no. to be supplied to Central Server. Since the tender calls for 37 nos of CISCO Managable Switch, instead of providing Qty 01 at central station server. Kindly confirm.	Provisions of Bid Document shall prevail.

18.	<p>Volume - II Technical Specification – (Pg 5 of 45) Rack Server – Computer (for Central Station at SPCB) for CAAQMS and Technical Specification – (Pg 6 of 45) Rack Server – Computer (for Central Station at SPCB) for MVCAAQMS</p>		<p>Please confirm the total quantity of Rack Server – Computer requirement at Central Station.</p> <p>The tender calls for 02 separate rack server computer for each CAAQMS & MVCAAQMS at Central Station.</p> <p>Kindly clarify & confirm, since a single Rack Server Computer can suffice the requirement of Central Station.</p>	Refer Amendment No 1 serial number 15
19.	<p>Volume - II Technical Specification – (Pg 31 of 45) Cl. 10.10 – Printer Specifications. Colour Laser printer (2 nos. - one A3 & one A4 size)</p>	Cl. 10.10	<p>We understand that the specified Colour laser printer under Cl.10.10 of technical specification is for Central stations with Qty requirement of 02 nos for the entire project. Please confirm.</p>	<p>Refer clause number 10.3 for colour laser printer for workstation computer at each AAQMS station.</p> <p>Further Refer Amendment No. 1, Serial Number 20</p>
20.	<p>Volume - II Technical Specification – (Pg 6 of 45) Bill of Quantities for Mobile CAAQMS Vehicle model number TATA LPT 709Ex2/Mahindra Load king or equivalent of reputed make along with vehicle frame (Chassis build</p>		<p>Please note that model TATA Model LPT 709 EX2 is with BS IV engine which is being discontinued. However as per new guidelines all engines should be BS VI. The upgraded model of the specified engine with BS VI standards is TATA LPT 712 Kindly provide your acceptability with this alternate model.</p>	Refer Amendment No.- 1 , serial number 18

	up) air conditioned and thermally stable instrument cabin.			
21.	Volume - II Technical Specification – (Pg 6 of 45) Bill of Quantities for Mobile Van AAQMS Ambient NO-NO2-NOx, Analyser Ambient NH3, Analyser		It requested to consider single Combined Gas Analysers for NO-NO2-NOx & NH3 parameters in Mobile Van AAQMS on account of space constraint instead of two separate Analysers inside the cabin, as only 2 nos of single bay 19” rack can be mounted/ accommodated on the mobile CAAQMS instead of 3 nos as used in CAAQMS with shelter/ container. Pls confirm.	Provisions of Bid Document shall prevail.
22.	Volume - II Technical Specification – (Pg 6 of 45) Bill of Quantities for Mobile CAAQMS PETROL GENERATOR SET-10 KVA		Please note that 10KVA load for petrol generator is non standard in Indian market and the availability of the same in matter of concern. Please note that 6.5 KVA portable petrol generator are standard and are available in the market which can be fitted easily in the Mobile Van and have been using as a standard practice for such Mobile CAAQMS. Kindly confirm your acceptability.	Refer Amendment No 1, serial number 7
23.	Refuelling charges of Vehicle towards Mobile AAQMS during operation and O&M period		Kindly confirm the refuelling charges of Vehicle during operation of Mobile AAQMS from date of handover and during O&M period shall be in the scope of RSPCB.	RSPCB shall reimburse fuel charges of Vehicle as per actual against documentary evidence.
24	Daily distance coverage of Mobile AAQMS		Kindly confirm the daily distance coverage in terms of KM by Mobile AAQMS, and number of days of sampling required per week.	As per requirement of RSPCB.
25.	Refuelling of Petrol Generator towards		Kindly confirm the refuelling of Petrol Generator during operation of Mobile AAQMS from date of	Refuelling of Petrol Generator during

	Mobile AAQMS during operation and O&M period		handover and during O&M period shall be in the scope of RSPCB	operation of Mobile AAQMS shall be in the scope of the Bidder.
26.	Electricity Charges & internet/telephone charges towards operation of Mobile AAQMS.		Kindly confirm the monthly Electricity Charges during operation of Mobile AAQMS from date of handover and during O&M period shall be in the scope of RSPCB	As per clause 11.2 d of scope (vol II) monthly charges for electricity bill shall be borne by the Contractor.
27	Invitation for Bidders (Clause no. 4) Pre-bid meeting schedule.		Since our State of Maharashtra is under lockdown till 30th April, with private office being completely closed, physical appearance for this schedule pre-bid meeting may not be possible for members from our office. In lieu of the above, we request you to please allow us to be present in the pre-bid over virtual meeting.	Link of MS teams given and meeting conducted successfully.
28	Volume – I: GCC Clause 16, SCC Clause 11 Completion Schedule: The supplier has to install and commission CAAQMS and Mobile AAQMS along with training to lab personnel within period of 28 weeks from date of issue of Notification of Award, if it is not completed within 28 weeks, LD clause will be applicable as per clause 16.0 of SCC.	Clause 11 (SCC)	For the large quantum of supplies for this project (i.e. 35 nos. of CAAQMS stations & 02 nos. of Mobile Vans), we propose- For 35 nos. of CAAQMS stations: The equipment's shall be received within 180 days from the date of notification of the award and are to be installed and commissioned within 90 days from the date of the receipt of the material at site. Please accept the same. For 02 nos. of Mobile Van: We agree for a completion schedule of 28 weeks from the date of notification of award.	Please refer to Amendment-1 of bid document.
29.	Volume – I: GCC Clause 25, SCC Clause 13 Payment Terms:	Clause 13 (SCC)	We propose a payment terms of For Supply: 100% payment through irrevocable Letter of Credit (LC).	Provisions of Bid Document shall prevail.

	<p>i. On Delivery: Eighty (80)% of the contract price along with applicable taxes & duties shall be paid (through LC) on receipt of Goods and upon submission of the documents specified in Clause 5.2 of SCC, and</p> <p>ii. On Final Acceptance: Balance Twenty (20) percent of contract price of the equipment after satisfactory completion of installation & commissioning including Training (to be certified by the RSPCB) of all the Equipment of the particular package at specified site/ mobile AAQMS and submission of acceptance certificate as per Attachment 3 of SCC</p>		<p>For Supervision of Installation & Commissioning: 100% payment within 15 days from the date of the Installation & Commissioning reports.</p>	
30.	<p>Volume – I: GCC Clause 31, SCC Clause 16 Rate: The Contractor shall pay to the RSPCB as liquidated damages a sum equivalent to One and half (1.5) percent of the contract price (supply portion) of each station for per week of delay in Commissioning of each station.</p> <p>Maximum Deduction: The total liquidated damages on account of delay in supplies</p>	<p>Clause 16 (SCC)</p>	<p>We propose to accept Liquidated damage at the rate of 0.5% per week to max. 5% per week, with a grace period of 4 weeks over our quoted delivery/completion schedule.</p>	<p>Provisions of Bid Document shall prevail.</p>

	payable to the RSPCB shall not in any case exceed ten (10) percent of the Contract price of supply portion only (Excluding O&M charges).			
31.	Volume – II: Technical Specifications (BOQ) & Volume – II: Technical Specifications 5.2 & 5.3 As per this point, we need to supply NOx & NH ₃ analyzers for your project requirement.		There are separate specification for NOx & NH ₃ analyzers, please clarify if a combined analyzer for NOx & NH ₃ can be offered or separate analyzers are required for both these parameter.	Provisions of Bid Document shall prevail.
32.	Volume – II: Technical Specifications 5.3		Rise & fall time Rise and fall time shall be same as response time for NH ₃ analyzer.	Provisions of Bid Document shall prevail.
33.			Please confirm the scope of the following for mobile vans: a) Refueling charges of Vehicle (Mobile Van) during operation & O&M period. b) Refueling of the Petrol Generators during operation & O&M period. c) Appointments and Monthly salaries for the Driver and cleaners for the Mobile van during operation & O&M period. d) Electricity charges for the Mobile van during operation & O&M period. Please clarify on these points.	a) RSPCB's Scope b) Bidder's Scope c) Bidder's Scope d) Bidder's Scope

34.			<ol style="list-style-type: none"> 1. Communication protocol available for the additional 33 nos. of the LED display units. 2. Connectivity to the AAQMS stations for the additional 33 nos. of LED display units 3. AAQMS data to be displayed for these additional 33 nos. of display units 4. Scope of the interconnecting cable along with any additional hardware required for these display units. 	<ol style="list-style-type: none"> 1. Bidder to decide the communication protocol as per his standard practice. 2. Included in the scope of the contract. 3. Included in the scope of the contract. 4. Included in the scope of the contract.
35.	<p>'Volume-I Section I to VI' - DETAILED INVITATION FOR BIDS Page 2 of 5 Clause no. 6.0 QUALIFYING REQUIREMENTS FOR BIDDERS:</p>		<p>6.1 The bidder should be a manufacturer of items (i.e. Analyzers, Monitors, Calibrators and Sensors), who must have manufactured, supplied, tested and commissioned minimum twenty (20) nos. similar air monitoring stations either container based or otherwise in last five years (reckoned as on date of techno-commercial bid opening) which should be in continuous operation as on date of techno-commercial bid opening. As evidence of being a manufacturer, bidder must enclose copy of manufacturer's license/manufacturer's brochure or catalogue for the aforesaid items i.e. Analyzers, Monitors, Calibrators and Sensors. As evidence of having manufactured, supplied and</p>	<p>Provisions of Bid Document shall prevail.</p>

			<p>commissioned the stations, bidder must enclose copy of purchase orders/letters of award/agreement, clearly indicating the scope of work, which must include the supply and commissioning of ambient air monitoring stations either container based or otherwise.</p> <p>Please modify as per below:</p> <p>6.1 The bidder should be a manufacturer of CAAQMS and manufacturer or Authorised representative of items (i.e. Analyzers, Monitors, Calibrators and Sensors), who must have manufactured, supplied, tested and commissioned minimum twenty (20) nos. similar air monitoring stations either container based or otherwise in last five years (reckoned as on date of techno-commercial bid opening) which should be in continuous operation as on date of techno-commercial bid opening. As evidence of being a manufacturer, bidder must enclose copy of manufacturer's license/manufacturer's brochure or catalogue for the CAAQMS and aforesaid items i.e. Analyzers, Monitors, Calibrators and Sensors. As evidence of having manufactured, supplied and commissioned the stations, bidder must enclose copy of purchase orders/letters of award/agreement, clearly indicating the scope of work, which must include the supply and commissioning of ambient air monitoring stations either container based or otherwise.</p> <p>We request you to please modify QR condition as per above.</p>	
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36.			EMD 0, tender fee Rs. 22,500/- Kindly confirm the EMD value and the payment mode for the same.	Provisions of Bid Document shall prevail.
37	Annexure-I to ITB (Section-I of Vol I) Sub: Preference to Make In India and Eligibility for Participation granting of Purchase Preference to Class-I local suppliers- regarding 4.0 Minimum Local Content 4.1 The local content requirement to categorize a Bidder/ Supplier as 'Class-I local supplier' is minimum 50%. For 'Class-II local supplier', the 'local content' requirement is minimum 20%.		With respect to the Domestic Preference and the clause mentioned in the said Annexure, local content to qualify as Class-I or Class-II supplier, local content shall include manufacturing and production of goods locally and by sourcing goods and services applicable under the contract/ package from domestic suppliers/service providers. Please note that the O&M is a very big part of the contract and shall be done locally and hence it should be considered part of the local content to qualify local supplier. Kindly confirm, if our understanding is correct.	Bidder's understanding is correct.
38.	Page No. 12 of 21 of Section-I (ITB) Clause 5.1 Documents to be submitted in hard copy in separate sealed envelope 1) The bid security declaration furnished in accordance with ITB Clause 4.4 shall be sealed in a separate envelope duly marking the envelope as BID SECURITY DECLARATION".	Clause 5.1 (ITB)	Due to ongoing COVID-19 pandemic, lockdown is announced in Delhi and Maharashtra. Due to above reason, we are finding it a bit challenging to send hardcopy of required documents. Therefore, requesting you to kindly allow us to submit mentioned documents through Online portal and the hard copy of the same shall be submitted later once situation is normal. Kindly confirm your acceptance.	Bidder to upload scanned copy of documents online, however bid evaluation of such bidders shall be processed on receipt of hardcopy of required documents.

<p>2) A power of attorney duly authorized by a Notary Public, indicating that the person(s) signing the bid has/have the authority to sign both [Techno-Commercial Bid and Financial Bid] the bid and that the bid is binding upon the Bidder during the full period of its validity. The Authority of the person issuing the Power of Attorney shall also be submitted.</p> <p>3) Declaration / Affidavit of not being blacklisted/banned etc. shall be sealed in a separate envelope duly marking the envelope as "Declaration/Affidavit of not being Black listed/Banned etc." as per Attachment-18T.</p> <p>4) The joint venture/consortium agreement (if applicable) shall be sealed in a separate envelope duly marking the envelope as "Joint Venture/Consortium Agreement".</p> <p>5) Integrity Pact (IP) to be signed by the bidder and submitted in a</p>			
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	separate envelope along with Techno-commercial bid.			
39.	<p>Page No. 12 of 21 of Section-I (ITB) Clause 5.1 Documents to be submitted in hard copy in separate sealed envelope</p> <p>2) A Power of attorney duly authorized by a Notary Public, indicating that the person(s) signing the bid has/have the authority to sign both [Techno-Commercial Bid and Financial Bid] the bid and that the bid is binding upon the Bidder during the full period of its validity.</p>	<p>Clause 5.1 (ITB)</p>	<p>Due to ongoing COVID-19 pandemic, lockdown is announced in Delhi and Maharashtra. Due to above reason, we are finding it a bit challenging to submit Notarized Power of Attorney, therefore, requesting you to kindly allow us to submit mentioned document later once situation is normal.</p>	<p>Please refer to Amendment-1 of bid document.</p>
40.	<p>Page 10 of 21 of Scope of Work (Section II) Scope of Work - Attachment 1S – Schedule No. 2 2. Continuous Automatic Air Quality Monitoring Analyzers for NH3</p>	<p>Attachment 1S – Schedule-2</p>	<p>Kindly confirm whether to quote two separate Analyzers for NOx and NOx-NH3 (NOx + NH3 Converter) or single analyzer NOx-NH3 is acceptable.</p>	<p>Provisions of Bid Document shall prevail.</p>
41.	<p>Page 10 of 21 of Scope of Work (Section II) Scope of Work - Attachment 1S – Schedule No. 7 & 8 7. Rack Server (For Central Station at RSPCB) – 2 Nos.</p>	<p>Attachment 1S – Schedule-7 & 8</p>	<p>Kindly confirm exact quantity of Central Station at RSPCB.</p>	<p>One at Jaipur</p>

	8. Data acquisition software for a) Station (CAAQM) -37 nos b) Central station at RSPCB-1 no			
42.	Page 10 of 21 of Scope of Work (Section II) Scope of Work - Attachment 1S – Schedule No. 9 9. Display board data transmission device, day light and night visible data display system (35 at the stations+ 33 at the different city areas)	Attachment 1S – Schedule-9	Kindly clarify exact quantity of display transmission devices. If the 33 Nos. display transmission devices mentioned extra for other third party displays (not supplied under this contract), whose scope shall be the integration of the same.	Included in the scope of the contract. Further refer clarification at sl no 34. Also refer Amendment No.1, Serial number 21
43.	Page 3 of 17 of Section VI (SCC) 6.0 Work Schedule: 6.1 Supply, Installation, commissioning and other incidental services: All the equipment shall be received at Continuous Ambient Air Quality Monitoring Station site, within 13 weeks from the date of Notification of Award and are to be installed and commissioned within 15 weeks from date of receipt at site. Mobile vans are to be delivered	Clause 6.0 (SCC)	Looking at the complete scope of supply, we would request for the below schedule, Complete supply within 20 weeks from the date of Notification of Award and shall be installed and commissioned within 15 weeks. All the equipment of the awarded package shall be commissioned within 35 weeks from the date of notification of award. Kindly confirm your acceptance.	Please refer to Amendment-1 of bid document.

	<p>at RSPCB headquarter in Jaipur.</p> <p>All the equipment of the awarded package shall be commissioned within 28 weeks from the date of notification of award including all the incidental services i.e., training etc.</p>			
44.	<p>Page 10 of 21 of Scope of Work (Section II)</p> <p>Scope of Work - Attachment 1S - Schedule No. 12</p> <p>12. Online UPS 10 KVA, capacity (Three Phase I/P and Single Phase O/P, with 02 hrs backup) (for Air Conditioner)</p> <p>B) MINIMUM REQUIREMENTS FOR MAAQM VAN (Page 5 of 45 of Volume – II Technical Specifications)</p> <p>Online UPS 5 KVA, capacity (Single Phase I/P and Single Phase O/P, with 02 hrs backup) (for Air Conditioner)</p>		<p>As per Scope Of Work - Attachment 1S, UPS of 10 KVA, capacity (Three Phase I/P and Single Phase O/P, with 02 hrs backup) (for Air Conditioner) is required, whereas in Volume –II Technical Specifications, It is mentioned as For air conditioners UPS of 5 KVA, capacity (Single Phase I/P and Single Phase O/P) is required.</p> <p>Kindly clarify exact requirement of UPS for Air Conditioner of Mobile Van.</p>	<p>12. Online UPS 10 KVA :35 nos (for Air conditioners)</p> <p>And</p> <p>13. Online UPS 5 KVA : 35 (for station analysers) + 1 (for server at central station) +2(for AC in mobile vans) +(2 for analysers in mobile vans) =40</p> <p>Amendment no:1 to Bid documents is issued.</p>
45.	<p>Vehicle model number TATA LPT 709Ex 2/Mahindra Loading or equivalent of reputed make along with</p>		<p>As per the clause mentioned, the recent BS norms calls for BS VI, however the models mentioned follow older BS norms.</p> <p>Kindly clarify.</p>	<p>Please refer Amendment no.-1 Sl. no. 18</p>

	vehicle frame (Chassis build up) air conditioned and thermally stable instrument cabin.			
46.	<p>Page 21 of 45 of Volume – II Technical Specifications Clause No. 7.1 Multi Point Gas Calibration System</p> <p>v. Calibration using permeation tubes for which at least two chambers based Permeation system has to be provided.</p>	<p>Clause No. 7.1 of Tech.S specifications (Vol II)</p>	<p>Please note that all the gas parameters shall be calibrated through gas cylinders. The permeation tubes asked in the technical specification are difficult to handle and store. Also, they are less accurate than gas cylinders.</p> <p>With respect to the above, we request to accept gas cylinders and remove permeation tubes from the specifications.</p>	Refer Amendment no 1 serial number 4 & 5
47.	Analog outputs for all analyzer (Technical Specifications)		<p>Kindly note Analog outputs are no more used for uploading data to CPCB and SPCB. Standard digital output is used for uploading data to CPCB and SPCB. Kindly request you to accept only digital signal output (USB/ Ethernet).</p>	Provisions of Bid Document shall prevail.
48.	<p>Page 23 of 45 of Volume – II Technical Specifications</p> <p>8. Meteorological System</p> <p>II. All the meteorological sensor should be certified/ traceable to World Meteorological Organization (WMO) and software should also have certification from the appropriate international agency.</p>		<p>As per the specification, meteorological sensors are to be certified or traceable to WMO, however, we would like to bring to your notice that WMO doesn't certify any meteorological sensors nor any of them are traceable to WMO.</p> <p>To ensure a quality product from a reputed make, NTPC/ RSPCB can request for self-declaration from manufacturers meeting WMO guidelines and also the calibration equipment's used to calibrate these sensors at factory are NIST traceable or not.</p>	Refer Amendment no 1 serial number 8

49.	Clause 6.0 (IFB) Qualification Requirement	Clause 6.0 (IFB)	We are an EPC based firm dealing with Solar, Construction, Water Treatment, EV and other EPC based projects in India. We are also a new authorised dealer of Air Quality Monitoring System/Air Management System from the Original Equipment Manufacturer so I would request you to allow us to participate in this tender through the OEM's experience. We have also done various projects for NTPC in the field of solar energy and recently we have acquired the project of HPCL in EV Charging Station, installation and commissioning.	Provisions of Bid Document is clear.
50.	Pg 8 of 47 Volume-II, Technical specification Bill of Quantity B) MINIMUM REQUIREMENTS FOR MAAQM VAN		As we are already providing 1 no. 5KVA UPS at Central Station along with CAAQMS, extra UPS is not required again at Central DAS along with Mobile AAQMS. Please correct total qty. of UPS from 3 nos. to 2 nos. against: Online UPS 5 kVA, capacity.	Refer Amendment No.1, serial number 16
51.	Pg 13 of 47 Volume-II, Technical specification Cl. 2.1.2 and 2.2.2 – Air Conditioners		Please confirm if 3-star ACs are acceptable instead of 5-star ACs.	Provisions of Bid Document shall prevail.
52.	Pg 14 of 47 Volume-II, Technical specification Cl 4.1.1 and 4.1.12, general specifications of all analyzers		As per CPCB Technical specifications dtd. July 2019 only USEPA/TUV/MCERTS certification is acceptable. We request you to accept the same only.	Provisions of Bid Document shall prevail.
53.	Pg 14 of 47 Volume-II, Technical specification Cl 4.1.6, Digital output, general specifications of all analyzers		Please note all the gaseous analyzers are designed for 45 Deg C and dust Analyzer for upto 50deg C. These analyzers are placed in air-conditioned room/shelter. For optimum working analyzers have to be operate at 23degC. Please confirm your acceptance.	Provisions of Bid Document shall prevail.

54.	Pg 15 of 47 Volume-II, Technical specification Cl 4.1.8, Permeation Tubes		Please note that it is recommended to calibrate analyzers using cylinders instead of permeation tubes as cylinders helps to perform linearity checks due to three - point calibration. Hence, we request you to kindly remove the requirement of calibration using permeation tubes and permeation option requirement in analyzers and calibrator. Please confirm.	Refer Amendment no 1, serial number 4 & 5
55.	Pg 16 of 47 Volume-II, Technical specification Cl 4.1.15, general specifications of all analyzers		Please consider RS232/TCP/IP Ethernet connection instead of additional requirement of 4-20mA outputs.	Provisions of Bid Document shall prevail.
56.	Pg 18 of 47 Volume-II, Technical specification Cl. 5.1 (12)		We request you to keep calibration of SO2 analyzers using calibration cylinders and remove the requirement for calibration using permeation tubes. Please confirm.	Refer Amendment no 1, serial number 4 & 5
57.	Pg 18 & 19 Volume-II, Technical specification Cl 5.2 and 5.3, separate NOx and Nh3 Analyzer		NH3 analyzer is basically NO-NO2-NOx analyzer with NH3 converter. We recommend that instead of purchasing separate analyzers for NO-NO2-NOx and NH3, NTPC may consider purchasing combined analyzer for NO-NO2-NOx-NH3 as this analyzer shall provide reading of all parameters simultaneously. Please confirm your acceptance.	Provisions of Bid Document shall prevail.
58.	Pg 18 of 47 Volume-II, Technical specification Cl. 5.2 (11) and 5.3 (13)		We request you to keep calibration of NH3/NOx analyzers using calibration cylinders and remove the requirement for calibration using permeation tubes. Please confirm.	Refer Amendment no 1, serial number 4 & 5

59.	Pg 19 of 47 Volume-II, Technical specification Cl. 5.4 (10)		As CPCB asks for Response Time to be 60 seconds instead of 30 seconds for CO analyzer, we request that same shall be accepted here too. Please confirm.	Refer Amendment No.1, serial number 17
60.	Pg 19 of 47 Volume-II, Technical specification Cl. 5.1 (11)		We request you to keep calibration of CO analyzers using calibration cylinders and remove the requirement for calibration using permeation tubes. Please confirm.	Refer Amendment no 1, serial number 4 & 5
61.	Pg 21 & 22 of 47 Volume-II, Technical specification Cl. 6 – 6.1 and 6.2		Please confirm if combined PM10 and PM2.5 analyzer is acceptable. The analyzer shall give simultaneous readings for both PM10 and PM2.5. Please confirm. Hence, we request you to remove the clause “A distance of around 1.5 meter should be maintained between two sampling heads of PM2.5 and PM10 samplers.” As the readings will be same with combined or separate analyzers.	Provisions of Bid Document shall prevail.
62.	Pg 23 of 47 Volume-II, Technical specification Cl. 7.1 (v, vi)		As per our request in points above, we request that permeation tube and oven requirement to be removed from calibrators. Kindly confirm.	Refer Amendment no 1, serial number 4 & 5
63.	Pg 28 of 47 Volume-II, Technical specification Cl 10.2 Data acquisition and handling system at station.		We request for the common PC for the DAS and AQI.	Provisions of Bid Document shall prevail.
64.	Pg 33 of 47 Volume-II, Technical specification Cl 10.10 Printer Specifications		a) Please confirm if 600X600dpi printer is acceptable instead of 1200X1200dpi. b) Please confirm quantity of these printers required as separate specifications for printers are given along with AQI workstation specifications (Pg 29/47 Cl. 10.3)	Provisions of Bid Document shall prevail.

65.	Pg 41 of 47 Volume-II, Technical specification Cl 14 Display Board at AAQMS		<p>There are extra 33 nos. Display Boards required apart 35 nos. required at each station. Please confirm the following queries:</p> <ol style="list-style-type: none"> 1) Do we have to follow same specifications for the extra 33 nos. Display Boards as per specifications against Cl. No. 14 2) Please confirm scope of work to be done for those 33 nos. Display Boards in terms of civil work, electricity, location etc. 3) Do we have to give Display Board as per Cl. No. 15 of Technical Specifications as the same is not mentioned in Bill of Quantity. 	<ol style="list-style-type: none"> 1. Yes 2. Included in the scope of contract 3. Refer Cl no 14(B) for the display board far away from station <p>Further Refer Amendment No.-1, Serial number 21.</p>
66.	Pg 26 of 47 Volume-II, Technical specification Cl 9.1		Please confirm the supply of fuel for running the mobile AAQMS shall be in the scope of the bidder or purchaser/end user.	RSPCB shall reimburse fuel charges of Vehicle as per actual against documentary evidence.
67.	Pg 73 of 142 Vol-I, Section III Attachment 13 T, Indemnity Bond		<p>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 constitute a criminal breach of trust on the part of the Contractor for all intents and purposes including legal / penal consequences.”</p> <p>Our legal team requests that the above-mentioned clause be deleted from the Indemnity Bond as the system will be maintained by us and we assure you that the system will be utilized only for the purpose</p>	Provisions of Bid Document shall prevail.

			mentioned in the tender. A criminal liability linked to this clause is not acceptable to our legal team and to our global management in the US. Kindly confirm your acceptance.	
68.	Pg 73 of 142 Vol-I, Section V clause-18 warranty Period.		OEM's standard warranty is 12 months from the date of commissioning or 18 months from the date of supply whichever is earlier Therefore we would request you to accept the warranty of equipment of one year in case O&M wouldn't awarded.	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.
69.	Pg 121 of 142 Vol-I, Section VI SCC clause no.16 LD		We request that the minimum LD shall be 0.5% per week per station to max maximum 5% of supply value instead 1.5% to 10% of Supply portion. Please confirm your acceptance	Provisions of Bid Document shall prevail.
70.	Pg 120 of 142 Vol-I, Section VI SCC clause no.13.2 Payment terms		We request that Payment Terms as Supply: For supply 90% payment will be made against LC on receipt of goods and 10% against commissioning and training. Kindly confirm your acceptance.	Provisions of Bid Document shall prevail.
71.	Pg 120 of 142 Vol-I, Section VI SCC clause no.15.1 Payment terms		We request that the Performance Security shall be as follows: (i) 10% of the value of contract for supply part valid up to 90 days after successful installation and commissioning of all 35 CAAQMS & 2 Mobile AAQMS.	Provisions of Bid Document shall prevail.

			(ii) 5% of the value of the contract for O&M services valid up to 90 days beyond O&M period of 7 years.	
72.	Page 25 of 47 Volume II, Technical Specifications		WMO cannot provide any certificates. But all sensors are certified/ traceable. We requesting to amend specifications instead of certification.	Refer Amendment no. 1, serial number 8
73.	Volume II, Technical Specifications, Clause 9.1 A. Mobile Vehicle		We are considering that latest BS norm available similar specification or better vehicle to be considered. Since Vehicle will be in scope to bidder, also container fabrication is required which can be done within the same state or out of the state of end-user. In this regards please clarify about who will do the vehicle registration and cost involved for vehicle transport, manpower and In-transit insurance.	Refer clarification given at serial number 45.
74.	Volume II, Technical Specification, Clause 7.1		We suggest here that permeation tube feature shouldn't be mandatory as calibrator can dilute the gases with traceable supplied gas cylinders. Here we request you to re-consider this clause to remove or not making it mandatory.	Refer Amendment no. 1, serial number 4 & 5
75.	Volume II, Technical Specification, Clause 1.1.11		As per CPCB guidelines, here we recommend to follow CPCB guideline- which says 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.	Refer Amendment no. 1, serial number 9