RFP for Supply, Installation, Commissioning and Comprehensive Operation & Maintenance Services of 60 New Continuous Ambient Air Quality Monitoring Stations (CAAQMS) and Buy-back of 07 Existing CAAQMS in the State of Maharashtra

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Corrigendum 2

Minutes of Pre-Bid Meeting for "RFP for Supply, Installation, Commissioning and Comprehensive Operation & Maintenance Services of 60 New Continuous Ambient Air Quality Monitoring Stations (CAAQMS) and Buy-Back of 07

Existing CAAQMS in the State of Maharashtra"

1. Brief about the meeting

Date: 22/10/2024, Day: Tuesday, Time: 2.30 PM – 3:30 PM Place: MPCB Office and online meeting on MS Teams platform

2. Agenda

Table 1: Pre-Bid Meeting attendees

The following attendees were present for the Pre-Bid Meeting:

S. No.	Name .	Designation and Organization	In-person / Online
1	Dr. V M Motghare	Joint Director (APC), MPCB	In-person
2	Shri. Shankar Waghmare	Joint Director (WPC), MPCB	In-person
3	Shri. Shyamkumar Patil	Chief Account Officer, MPCB	In-person
4	Smt. Netra Chaphekar	Law Officer, MPCB	In-person
5	Saptarshi Das	Consultant KPMG	In-person
6	Rose Mary Noble	Consultant KPMG	In-person
7	Pritam Mazinder Baruah	Consultant KPMG	In-person



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3. Main Points Discussed

Table 2: Pre-Bid Queries

S. No.	Clause Reference & Page No.	Content of RFP Requiring Clarification	Change Request / Clarification required	Clarification/Amendment by MPCB
1.	Pg 40 of 204 Section - 4 - Scope of Works 4.1.1- Details of the Project Structure (last para) AND Pg 171 of 204	One no. of Day light & Night visible data display system 8 feet X 12 Feet to be protected by rain & all-weather conditions from the top is to be supplied, installed and maintained initially for five years AND	Kindly confirm the required size of display board to be considered, as the technical specification of display board under Pg 171 of 204 specifies display board size as 4ft x 12ft whereas, under Section 4-Scope of Works - 4.1.1-Details of the project structure Pg 40 of 204 specifies required size of the Display board as 8ft x 12 ft.	The required size of the display board to be 8 ft x 12 ft.
	Annexure-38 - Technical specification III. Specifications of Day Light & Night Visible Data	Technical Specification Size of Display board is 4ft x 12 ft.	Please confirm the correct size of display board required as per tender conditions.	
2.	Display System- Size 4ft x 12 ft Section - 4 - Scope of Works 4.1.2- Schedule of Requirement	Section - 4 - Scope of Works 4.1.2- Schedule of Requirement Sch no. 9 - UPS, 10 KVA (1 hr. full load back-up)	Please confirm the battery backup capacity for 10KVA UPS. Section 4 - 5 Scope of Works -Schedule of Required Sch. No. 9 specifies 10 KVA UPS	Schedule of Requirement, Page No. 41, Schedule No. 9 and in Annexure 38 Technical specification, Page No. 143, to be read as:



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S. No.	Clause Reference & Page	Content of RFP Requiring	Change Request / Clarification required	Clarification/Amendment by MPCB
	No.	Clarification		
	Sch no. 9 - UPS, 10 KVA (1	And,	with 1 Hr battery backup. Whereas Annex-38	"UPS of 10KVA to have 4-hours full load backup"
	hr. full load back-up) Pg 41		- Technical Specification under Cl. 3.1.6 -	
	of 204	Annexure 38 - Technical	Battery backup time (pg 143) specifies as 4-	
		specification	hour backup.	
	and			
	Annexure 38 - Technical	3.1 Online UPS - Single phase 10	Please confirm whether 1 hour back up or 4	
	specification Pg 143 of 204	kVA UPS with 1 Hr backup.	hours back up time is required for 10KVA	
	3.1 Online UPS - Single		UPS.	
	phase 10 kVA UPS with 1	3.1.6-Battery - Battery Backup		
	Hr backup.	time - 4 Hours on full Load		
	3.1.6-Battery - Battery			
	Backup time - 4 Hours on			
	full Load			
3.	Section - 4 - Scope of Works	Section - 4 - Scope of Works	As per Section - 4 - Sch. No. 1- NO-NO2-	As per CPCB protocol
	Pg 41 of 204	4.1.2- Schedule of Requirement	NOx+NH3 (pg 41 of 204) tender specifies for	i i
	4.1.2- Schedule of		single combined Gas Analyzer for	
	Requirement	Sch no. 1 - NO-NO2-NOx+NH3	measurement of NO/NO2/NOx & NH3	
			Ammonia instead of two separate analysers	
	Sch no. 1 - NO-NO2-	and	for NO-NO2-NOx & NH3. However, two	
	NOx+NH3		separate technical specification are provided	
	and	Annexure 38 - Technical	for NO _X & NH ₃ Analyers.	
	Pg. 148 of 204	specification		
	Annexure 38 - Technical	General Specifications for all	Please confirm if a single Combined Analyser	
	specification	Analysers	for measurement of NO-NO2-NOX+NH3 is	g
	General Specifications for	(A) NO-NO2-NOX Analyser	required, or two separate/ Individual	
	all Analyzers	(B) Ambient Ammonia Analyser	Analysers for each measurement of NOX and	
	(A) NO-NO2-NOX	(NH3)	NH3 are required separately.	
	Analyser		l sution of	

Pollution Control MAHARASITRA BOOM AMERICAN AMER

S. No.	Clause Reference & Page No.	Content of RFP Requiring Clarification	Change Request / Clarification required	: Clarification/Amendment by MPCB
	(B) Ambient Ammonia			
	Analyser (NH3)			
4.	Annexure 41 Technical Data	Annexure 41 Technical Data	The specified permeation tube facility with	As per CPCB protocol
	Sheet	Sheet	permeation chambers for calibration is	
			generally not available with most of the	
	Cl. 4.6 - The analysers	Cl. 4.6 - The analysers should be	vendor, hence requested to generalize the	r.
	should be complete with	complete with calibration	same by deleting the text "Permeation	
	calibration system. The	system. The calibration system	chamber & tubes facility" since the	
	calibration system should be	should be delivered along-with	CAAQMS system will be calibrated as per	
	delivered along-with	respective span gas cylinder and	NIST standard traceable calibration cylinder	
	respective span gas cylinder	permeation tubes.	as specified in tender-Technical specification	
	and permeation tubes.		Cl.2.7 -Multicalibration System - a) - Gas	
	Pg 179 of 204	a) Gas Calibration System	Calibration System - Pg 155	
		"The system should include at		
	a) Gas Calibration System	least three permeation chambers	Also please note that as per latest update,	
	"The system should include	and should accept a Permeation	CPCB had removed the requirement of	
	at least three permeation	Tube up to 11 cm in total length	permeation tube on account of technical	
	chambers and should accept	and 2 cm in diameter."	reasons as there is frequent variation in	
	a Permeation Tube up to 11		concentration resulting in high span drift.	
	cm in total length and 2 cm in			
	diameter."			
	Pg 186 of 204			*
5.	Scope of Works	Availability	Please note that as per CPCB guidelines the	Modified clause in Section – 6: KPI & Penalty, 6.1-
	4.1.2- Schedule of		uptime is 85%, Please confirm the acceptance	Penalties/KPIs, Page No. 58 to be read as:
	Requirement		of 85 % availability as per CPCB guidelines.	"2. Hardware KPI's
	Pg 58 of 204		For your reference -the confirmation of uptime availability as per CPCB protocols	



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S. No.	Clause Reference & Page No.	Content of RFP Requiring Clarification	Change Request / Clarification required		Clarifica	tion/Amendme	nt by MI	PCB .
			was provide by MPCB in Prebid meeting replies of the previous tender which in being retendered now.	Sr. No	Service Level Objectiv e	Measureme nt	Servic e Level	Penalty
		•		1.	24 x 7 functioni ng of hardware items	Uptime calculation = (Uptime (in hours) for month / Total time (in hours) of month) x 100	85% uptime	INR 1000/ day/ item
				2.	Attendin g to calls	As a percentage of total calls/ month	100%	INR 1000/ instance
				3.	Resource Absence for each deployed resource	Total present days/total no of working days	100%	INR 500/ instance
6.	Minimum O&M requirement per year	Minimum O&M requirement per year	To upkeep the quality of O&M it is requested to kindly specify minimum yearly percentage of O&M to a minimum range of 12% per year of the total cost of supply + Installation& commissioning of the system as specified in	As p	er RFP cond	itions.		

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S. No.	Chause Reference & Page No.	Content of RFP Requiring Clarification	Change Request / Clarification required	Clarification/Amendment by MPCB
			the previous tender. Which is generally the O&M structure followed by CPCB and other PCBs for similar tenders.	
			For your reference -Please note that the minimum criteria of O&M value as 12% per year of the total cost of supply + Installation & commissioning was specified under Cl IV -	
			Preparation of Financial bid of the previous tender, which is being retendered now.	
7.	Section - 4 - Scope of Work 4.13 - Time and delivery Schedule Sl. No. 1 - Delivery of machinery complying with the specifications at locations intimated by MPCB Sl.No. 2-Demonstration of respective machinery and its operations and trainings to	Within 120 days from the date of issue of Letter of Intent / Letter of Acceptance / Work Order (T)	The work schedule /delivery period & Demonstration of supplies provided in tender for 120 days may be insufficient considering the project being of large-scale turnkey nature with 60 nos of supply & Installation of CAAQMS at 60 different sites within the state of Maharashtra. For your reference -Please note the conditions of project Completion as per SCC Cl. 11 of the previous tender was 180 days from date of LC opening. Requested to please retain the same condition in this re-tendered RFP.	
	MPCB Pg 52 of 204		Hence it is requested to please consider delivery period of supplies as 120 days + an additional 60 days towards Installation & commissioning and site activities in line with previous tender conditions i.e. Total of 180 days, as site activities & installation	



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S. No.	Clause Reference & Page No.	Content of RFP Requiring Clarification	Change Request / Clarification required	Clarification/Amendment by MPCB
			procedures will account for majority of the time after delivery.	
			Also the delivery to be considered from the date of opening of LC instead of LOA as the tender conditions specifies payment through LC.	
8.	Section 5 - Payment Terms 5.2 Payment schedules - Project Timelines Page 55 and 56 a. Consolidated invoices for all 60 CAAQMS along with each CAAQMS invoice summary duly verified by respective ULBs/ Municipal Corporations/ Councils;	Section 5 - Payment Terms 5.2 Payment schedules - Project Timelines a. Consolidated invoices for all 60 CAAQMS along with each CAAQMS invoice summary duly verified by respective ULBs/ Municipal Corporations/ Councils;	Please note as per the tender conditions the Supply, Installation & Commissioning and O&M for 5 years of the CAAQMS to be carried out to Maharashtra Pollution Control Board, Hence, verification from MPCB officials are recommended as MPCB is the direct party &Owner of the contract instead of ULB's and Municipal corporations. For your reference -Please note the conditions of Inspection as per SCC Cl. 10 of the previous tender was to be carried out by MPCB instead of ULBs/ Municipal Corporations/ Councils. Requested to please retain the same condition	Modified Clause in Section 5 - Payment Terms, 5.2 Payment schedules - Project Timelines, Page No. 56, Point (a) to be read as: "a. Consolidated invoices for all 60 CAAQMS along with each CAAQMS invoice summary duly verified by MPCB officials."
			in this re-tendered RFP. Kindly consider verification Invoices by MPCB authorities only for better coordination.	
9.	Letter of Credit opening Applicant charges.	General	We understand LC will be opened in	The initial application charges for opening of LC shall be borne by MPCB, however if there is any amendment

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Ş. No.	Clause Reference & Page No.	Content of RFP Requiring Clarification	Change Request / Clarification required	Clarification/Amendment by MPCB
			Practice for documentary credit, hence the expenditure towards opening of LC or applicant charges will be in the scope of MPCB.	after issuance of the LC, then such amendment charges shall be borne by the Bidder.
			For your reference -Please note as per SCC Cl. 13.2 opening of LC is subject latest Uniform Customs and Practice for documentary credit, hence initial LC establishment charges / application charges will be borne by the Applicant.	
			Requested to please retain the same condition in this re-tendered RFP. Kindly consider verification Invoices by MPCB authorities only.	
10.	Section 6 - KPI & Penalty Sl. 1 - Delivery of the batch of machineries Page 57	1% (One Percent) of the value of machinery with required civil infrastructure for the delay of each week applicable for each machinery of each batch defined under delivery schedule.	Requested to please considered Penalty / LD in line with previous tender conditions instead of 1% per week. Also, maximum cap of Penalty / LD is not specified in the tender. Please confirm the same.	Modified clause Section 6 - KPI & Penalty S. No. 1 - Delivery of the batch of machineries, Page No. 57 to be read as: "Delivery and commissioning of the CAAQMS: 1% per week of the contract price of each station for per week of delay in commissioning of each station after scheduled date of completion to a maximum of 10% of
			For your reference -Please note that the LD / penalty conditions as per SCC Cl. 16 of the previous tender was 0.5% per week of the contract price of each station for per week of delay in commissioning of each station after	



S. No.	Clause Reference & Page No.	Content of RFP Requiring Clarification	Change Request / Clarification required	Clarification/Amendment by MPCB
			scheduled date of completion to a maximum of 5% of the Contract price of Supply portion only (Excluding O&M charges).	
			Requested to please retain the same condition in this re-tendered RFP. Kindly considered verification Invoices by MPCB authorities	
11.	Annexure 17 Format for Financial Bid PART C: Breakup for Buy Back of the old CAAQMS and Item Rate BOQ - BOQ_1951679.xls (Excel Price Schedule)	Item Rate BOQ - BOQ_1951679.xls (Excel Price Schedule)	only. Please note that "Annexure 17- PART C: Breakup for Buy Back of the old CAAQMS" the provision of inputting the cost of Buy Back of old & nos of CAAQMS is not provided in Item Rate BOQ - BOQ_1951679.xlx (Excel Price Schedule). Requested to please make provision for same in the Item Rate BOQ -BOQ_1951679.xls (Excel Price Schedule)	Refer revised Annexure 17A as part of Corrigendum 2.
12.	Pg 106 of 204 Attachments not provided in the retender RFP, however, was part of the previous RFP for 50 nos of CAAQMS		(Excel Price Schedule). The following attachment number are not provided in retendered RFP for 60 nos of CAAQMS, however was part of previous RFP. Please confirm.	The attachment's/ annexures mentioned alongside which were a part of the last tender document need not be submitted, since there is no mention of the same in the current tender document. However, MPCB reserves the right to seek any
			Attachment 2 - Certificate of O&M Partner of the Bidder in India Attachment 5- Form of Certificate of Carrying Out Comprehensive O&M	additional document/annexure/clarification at any time during the tendering and contract period, as deemed fit.



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S. No.	Clause Reference & Page	: Content of RFP Requiring	Change Request / Clarification required	Clarification/Amendment by MPCB
	No.	Clarification		
			Attachment 6 - List of Equipment Imported	
			and Indigenous	
			Attachment 7 - List of Manufacturer Imported	
			and Indigenous	
			Attachment 9 -Capability & Experience of	
			O&M Partner	
13.	Tender NIT (on the	Tender Document Fees: Rs.	As per the NIT documents (as seens through	Yes, the tender processing fee amount has to be
	eProcurement portal)	24,100 (i.e., Rs. 23,600 (Tender	in the e-procurement portal), there is a	included while paying the tender fees.
	- "	document fees) + Rs. 500	processing fees of Rs. 500.00, which is not	
		(Processing Fees)	indicated in the tender documents.	
		Tender document fees	Plese clarify, if this is to be included while	ī.
		exemption: Yes (allowed)	submitting the tender document fees.	
			The clause also calls for exemption in the	
			tender document fees, please clarify. Since,	
			we cannot proceed	-
			further on the eprocurement portal without	
			submitting these details / documents while	
			submitting the bids.	
14.	Tender NIT (on the	EMD: Rs. 1.50 Cr to be	As per the NIT documents (as seens through	There will be no relaxation in EMD
	eprocurement	submitted in form of	in the eprocurement portal), calls for	
	portal)	RTGS/NEFT/BG	exemption in the tender document fees, please	
		EMD exemption: Yes (allowed)	clarify. Since, we cannot proceed further on	
			the eprocurement portal without submitting	
			these details / documents while submitting the	
		t.	bids.	
			Further, please clarify if EMD Bank	
			Guarantee in SFMS (Structured Financial	
			Messaging System) format is accepted on the	

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S. No.	Clause Reference & Page	Content of RFP Requiring Clarification	Change Request / Clarification required	Clarification/Amendment by MPCB
			portal, since payment option for payment is "ONLINE" through SBI Bank Gateway. Please be informed, we cannot proceed further on the eprocurement portal without submitting these details /documents while submitting the bids. If EMD in form of BG is acceptable, please enable submission of the EMD in form of BG in the eProcurement portal, during the submission of the bid. We request an extension of the Bid	Refer Corrigendum 1 for the extension of dates
15.	Tender NIT (On the eprocurement portal)	Last date of Bid Submission is 29.10.2024	submission due date by 2 weeks from originally scheduled 29th October	uploaded on e-tender portal
16.	Tender NIT (on the eprocurement portal)	Documentation uploading size limitation	We understood during the uploading of the documents in the NIC portal, during the submission of the tender last time, there was limitation on the size of the documents to be submitted. But due to the quantum of the documents to be submitted under each section of the "Technical bid", we request you to please increase this size upto 100MB.	
17.	Tender NIT (on the eprocurement portal)	Time duration for payment realization for the EMD	Since the amount of EMD (I.e., Rs. 1.50 Cr) is a huge amount, online payment realization time is about 72 hrs as per the NIC portal (which we understood during the submission	





S. No.	Clause Reference & Page No.	Content of RFP Requiring Clarification	Change Request / Clarification required	Clarification/Amendment by MPCB
			of the bid, last time). Hence, please confirm,	
			if this is applicable for this tender as well.	
18.	Tender	Point no. 4.1.1.3 (ii) Buy-back of	In order to understand the detailed scope of	MPCB will provide necessary permission may be
	documents,	the existing seven (07 nos.)	work to ascertain the price for the 7 nos. of	granted on the request of the Bidder for the site visit to
	Clause no.	CAAQMS in "as is" condition	station to be quoted under buy-back scheme,	7 buy-back site locations.
	4 Scope of Work	&	we (bidder) will need letter / permission from	
	Page 40/204	4.2.1 Supply of Replaced	MPCB to visit the site and understand the	
	Page 42/204	spares/equipment at designated	scope of work. Request you to please provide	
		Locations: Buyback: The bidder	the same. Since we have not had the	
		is required to buy back the	opportunity to inspect the buy-back sites, we	
		existing 7 CAAQMS in as-is	are not able to comment on pricing guidelines.	
		condition from the locations	As almost all Display units with structure are	5.
		mentioned in the Annexure 43.	in Public Place with open access to all public	
		At the time of dismantling of the	safety, both structural as	
		equipments from the respective	well as societal has become a critical factor.	
		site, if any damage occurs, the	Hence the structure needs restricted access to	
		successful bidder to restore the	only authorised Persons. Accordingly,	,
		foundation at his own cost. Also,	additional space and appropriate structural	*
		the successful bidder shall be	boundary has to be provided.	
		required to undertake repairs of		
		any existing damage at the time		
		of handing over of the station to		
		MPCB.		
19.	PQ4 - 3.1 Pre-Qualification C	riteria	We respectfully request the removal or	Modified Clause in Section 3, PQ4 - 3.1 Pre-
			modification of this clause. As a leading	Qualification Criteria, Page No. 29 to be read as below:
			Original Equipment Manufacturer (OEM) in	•
			the industry, our expertise and high-quality	
			products are trusted both in India and	and the same of th



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S. No.	Clause Reference & Page No.	Content of RFP Requiring Clarification	Change Request / Clarification required		Clarification/An	nendment by MPCB
l l	No. Criteria-Pre- Qualification Criteria PQ Project Experience 1: The Bidder must have experience in "similar works" * during last seven (07) years in India as on last date of submission of bid as per following details: One (01) project worth at least INR. 60 Cr. OR Two (02) projects each costing not less than the amount equal to INR. 40 Cr. OR Three (03) projects each costing not less than the amount equal to INR. 30 Cr.	Bidders shall submit copy of Purchase Order (PO)/ Work Order (WO)/ Letter of Award (LOA) / Contract Agreement mentioning the relevant scope of Work. Completion Certificate from the client mentioning the total value of completed projects OR In case of on-going project, partial completion certificate from the client on client's letter head mentioning the relevant scope of Work, having received the payment matching the 'Minimum Project Value' of the partially completed project. Performance statement formats for Manufacturer and for Authorized representative of	globally. With a long-standing presence in the market and a wide customer base, we have successfully executed more than 500 projects, including several high-value ones. However, the financial thresholds specified in PQ4 are exceptionally high and may inadvertently prevent prominent OEMs like us from participating in this prestigious project. We would appreciate the opportunity to present several significant high-value projects where we have efficiently served customers across both public and private sectors. Our extensive market presence and strong market share further underscore our capability to deliver high-quality solutions. Further please also note that we are meeting all the 10 remaining PQ points and in light of the above, we kindly request you to consider either removing or adjusting the clause to allow OEMs like us to participate in the bid.	PQ 4	Criteria-Pre-Qualification Criteria Project Experience 1: The Bidder must have experience in "similar works" * during last seven (07) years in India as on last date of submission of bid as per following details: One (01) project worth at least INR. 30 Cr. OR Two (02)	Bidders shall submit copy of Purchase Order (PO)/ Work Order (WO)/ Letter of Award (LOA) / Contract Agreement mentioning the relevant scope of Work. Completion Certificate from the client mentioning the total value of completed projects OR In case of on-going project, partial completion certificate from the client on client's letter head mentioning the relevant scope of Work, having received the payment matching the 'Minimum Project Value' of the partially completed project. Performance statement
		manufacturer: in format given in Annexure 5 Project Citation as given in Annexure 4.			projects each costing not less than the amount equal to INR. 15 Cr.	formats for Manufacturer and for Authorized representative of manufacturer: in format given in Annexure 5

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S. No.	Cla	use Reference & Page No.	Clarificat	tion	Chan	ge Req	uest / Clarification required	Clarification/	Amendment by MPCB
			needs to be su ascertain proof of p	invoice and ts/statement bmitted to				Three (03 projects eac costing not les than th amount equal t	h Annexure 4. s For bidders submitting e private work orders, GST
20.	3.3 T S. No.	echnical Evaluation Cr Criteria	Evaluation Parameters	Supporting Documents		Modi belov		chnical Evaluation Crite	eria, Page No. 32-33 to be read as
	TE 2.1	Relevant Bidder Experience 1:	ience (50 Marks) Max Marks: 20 Cumulative Project	Bidders shall su	Maria (1997)	S. No.	Criteria Relevant Bidder Experience (5	Evaluation Parameters	Supporting Documents
		The Bidder must have experience in "similar works" * during last seven (07) years as on last date of submission of bid as per following details One (01) project worth at least INR. 60 Cr.	value of maximum any three projects submitted. >=INR 60 Cr and < INR 90 Cr: 10 Marks >=INR 90 Cr and < INR 120 Cr: 15 marks >=INR 120 Cr.: 20 marks	Order (PO)/ V Order (WO)/ L of Award (LO Contract Agree mentioning relevant scope Work. Completion Certificate from client mentioning total value	Work Letter A) / ment the of the g the of	TE 2.1	Project Experience 1: The Bidder must have experience in "similar works" * during last seven (07) years as on last date of submission of bid as per following details One (01) project worth at least INR. 30 Cr. OR	Marks) Max Marks: 20 Cumulative Project value of maximum any three projects submitted. <inr 0="" 30="" :="" cr="" marks="">=INR 30 Cr and < INR 50 Cr: 10 Marks >=INR 50 Cr: 10 Marks</inr>	Bidders shall submit copy of Purchase Order (PO)/ Work Order (WO)/ Letter of Award (LOA) / Contract Agreement mentioning the relevant scope of Work. Completion Certificate from the client mentioning the total value of completed projects OR In case of on-going project
		Two (02) projects each costing not less than the amount equal to INR. 40 Cr.	e e	completed project OR In case of on-g project, pa completion			Two (02) projects each costing not less than the amount equal to INR. 15 Cr. OR Three (03) projects each	>=INR 70 Cr.: 20 marks	partial completion certificate from the client on client's letter head mentioning the relevant scope of Work, having received the payment matching the





S. No.	Clau	se Reference & Page	Content of RFP I		ge l	Requ	est / Clarification required	Clarification/	Amendment by MPCB
		No.	Clarificati	on				Line and the second	
		OR		completion			costing not less than the		'Minimum Project Value' of the
1 11		Three (03) projects		certificate from the	Ш		amount equal to INR. 8.0 Cr.		partially completed project.
		each costing not less		client on client's	П				Performance statement formats
		than the amount equal		letter head	Ш		Similar works" means		for Manufacturer and for
		to INR. 30 Cr.		mentioning the	П		successful Supply, Installation,		Authorized representative of
				relevant scope of	Ш		Commissioning and		manufacturer: in format given
		Similar works" means		Work, having	Ш		Comprehensive Operation &		in Annexure 5
		successful Supply,		received the payment	Ш		Maintenance Services of		
		Installation,		matching the	Ш		Analysers / Software / Display		Project Citation as given in
		Commissioning and		'Minimum Project	Ш		units/ Computers, AC units for		Annexure 4.
		Comprehensive		Value' of the	П		CAAQMS for any Central		For bidders submitting private
		Operation &		partially completed	Ш		Government / State		work orders, GST invoice and
		Maintenance Services		project.	Ш		Government / Urban Local		payment receipts/statement
		of Analysers /		Performance	Ш		Body (ULB)/State-Govt		needs to be submitted to
		Software / Display		statement formats for			Undertakings/PSUs in India or		ascertain proof of payment.
		units/ Computers, AC		Manufacturer and for			large private industries in India		Purchase Order (PO)/ Work
		units for CAAQMS		Authorized			with annual turnover more than		Order (WO)/ Letter of Award
		for any Central		representative of			INR 500 crore.		(LOA) / Contract Agreement
		Government / State		manufacturer: in		TE	Similar Work Project		issued only in the name of
		Government / Urban		format given in		2.2	Experience	No. of "similar works"	participating entity shall be
		Local Body		Annexure 5			The bidder should have	projects completed in	considered.
		(ULB)/State-Govt					successfully executed "similar	Central Government /	
		Undertakings/PSUs in		Project Citation as			works" ** project	State Government	
		India or large private		given in Annexure 4.			during last seven (07) years as	/PCB/ Large Industries	
		industries in India with		For bidders			on last date of bid submission	in India:	
		annual turnover more		submitting private	\dagger		date.	01 to 03 projects: 05	
		than INR 500 crore.		work orders, GST				marks	
	T	Similar Work Project	Max Marks: 10	invoice and payment				04 to 05 projects: 07	
	Е	Experience	No. of "similar works"	receipts/statement				marks	
	2.	The bidder should	projects completed in	needs to be submitted				Above 05 projects: 10	
	2	have successfully	Central Government /					marks	



S. No.	Clause Reference & Page	Content of RFP Req Clarification		Chang	e Request / Clarification required		Clarifica	tion/Amendme	nt by MPC	СВ
	during last seven (07)	State Government to a pay in India: Pur 01 to 03 projects: 05 Wo marks Let 04 to 05 projects: 07 (LC marks Above 05 projects: 10 onl marks par	ascertain programment. urchase Order fork Order (etter of A	(WO)/ Award ontract issued ume of entity	"					
21.	Cl. 3.1 - Software SLAs	Availability		As per (85%. W	Te request that uptime availability of stead of 99.7%. Please confirm your	KPIs I		in Section 6, 8 should be read Measurement		- Software Penalty
						1	Availabil ity / Uptime of services resources for Web applicati	Uptime calculation of Web application server ranging due to application issues	Availabil ity / Uptime of the Web applicati on server >=95%.	Availabilit y / Uptime will attract penalty as indicated below. <95% (5% of the
							on server functioni ng	= (Uptime (in hours) for month / Total time (in hours)	Monitori ng shall be on monthly basis.	total quarterly payment)



S. No.	Clause Reference & Page No.	Content of RFP Requiring Clarification	Change Request / Clarification required	Clarification/Amendment by MPCB
				of month) x 100
22.	Cl. 1.3 of II (Technical Specification) Page 139	Panelling of the Shelter	Please confirm your acceptance of the following: 1. Powder coating to any of component will not be applicable, painting shall be done to all the brackets and cages including the base frame. Since outer sheets are required coated 1.2mm thick MS sheets, these shall be further coated with std. epoxy painting not the powder coating. 2. As per your specifications, any of steel part shall not be galvanized @ 275 micron and also any of internal sheet shall not be powder coated.	As per RFP conditions.
23.	Cl. 1.8.1 of II (Technical Specification)	Security cabin	Please confirm if Security cabin is required near every AAQMS.	A separate security cabin is not required at every CAAQMS station, however there should be a simple shelter provided from sun/rain for the security guard outside the shelter premises.
24.	Cl. 4 (i) of 4. Air Quality Analysis System of II (Technical Specification)	Approvals for Analyzers	1) As per CPCB specifications, please include MCERTS approval also for analyzer approvals. Please confirm. 2) Please note that USEPA does not give approval for NH3 analyzer, but NH3 analyzer is basically NOx analyzer with NH3 converter, so NOx analyzer approval document shall be provided. Please confirm your acceptance.	MCERTS approval for analyzers is acceptable





S. No.	Clause Reference & Page No.	Content of RFP Requiring Clarification	Change Request / Clarification required	Clarification/Amendment by MPCB
25.	Cl. 7 (A) (09)- Oxides of	Response time	Please note that Response for NO-NO2-NOx	The Response time for NO-NO ₂ -NO _x Analyzer to be
	Nitrogen (NO-NO2-NOx)		analyzer by CPCB specifications is '120	as per CPCB protocols.
	Analyser		seconds or less'. Please accept the same.	
26.	Cl. 7 (B) (11 and 13) -	Response time	Please note that Response Time and Rise and	The Response time for Ammonia Analyzer to be as per
	Ammonia Analyser NH3		Fall Time of analyzers shall be same. Please	CPCB protocols
			confirm acceptance of 180 seconds for both.	
27.	Analog output for analyzers	Analog output for analyzers	Please confirm if analog output for analyzers	The Analog output for analyzers to be as per CPCB
	Page 148		is required as all the connectivity and data	protocols
			transfer can be done using RS232 and	
			Ethernet output available in the analyzers.	
28.	Cl. 2.7 (a)	Ozone Analyser calibration	Please note that as we are providing ozone	The calibration of the Ozone analyzer to be as per CPCB
	Page 155		generator within ozone analyzer itself so	protocols
			calibration of ozone analyzer through	
			calibrator is not applicable. So please remove	*
			the requirement of ozone analyzer calibration	
			through calibrator.	
29.	Tender Document clause no	PQ5-Project Experience 2: The		Only credentials of the Entities bidding in this tender
	2.15 Section 3: Pre-	Bidder should have experience	of OEM to meet this clause.	process shall be considered for evaluation purpose for
	Qualification Criteria And	of "similar works" * of		meeting all the pre-qualification criteria.
	Technical Evaluation- 3.1	supplying at least 15 nos. of		
	Pre-Qualification Criteria	CAAQMS along with O&M		
	Page 29	during the past seven (07) years.		





RFP for Supply, Installation, Commissioning and Comprehensive Operation & Maintenance Services of 60 New Continuous Ambient Air Quality Monitoring Stations (CAAQMS) and Buy-back of 07 Existing CAAQMS in the State of Maharashtra

Annexure 1A Format for Financial Bid

(Not to be enclosed along with Technical Cover)

Ref: MPCB RFP No:

PART A: Price breakup for total 60 CAAQMS

S. No.	Item / Analyzer Name	Quantity Nos. / Sets	Unit Price (in INR excl. GST)	TOTAL Price (In INR excl. GST)
1	Continuous Ambient Air Quality Monitoring System	60	0	0
1	having integrated set of following equipments and			
	accessories including one (1) year warranty			
1.1	Automatic Ambient CO Analyzer	60		
1.2	Automatic Ambient SO ₂ Analyzer	60		
1.3	Automatic Ambient NOx and NH3 Analyzer	60		
1.4	Automatic Ambient O ₃ Analyzer	60		
1.5	PM ₁₀ Monitor	60		
1.6	PM _{2.5} Monitor	60		
1.7	BTX Analyzer	60		
1.8	Multi-calibration systems for gaseous monitors	60		
	comprising of gas supply/ generation and automated			
	calibration			
1.9	Meteorological Instrumentation comprising Wind	60		
	direction, Wind speed, Ambient temperature,	1		
	Relative humidity, Solar Radiation and Rainfall		/	
	mounted on telescoping crank up meteorological			
	Mast.			
1.10	Computer system consisting of one PC along with	60		
	Laser Printer and DAS at the monitoring station and			
	one PC at central office with peripherals and			
	software for data acquisition / Data display Board /			
	transfer and system integration, telephone,			
1.11	Modem.	120		
1.12	Housing/ Container for Continuous Automatic	60		
	Monitoring Stations with Sampling line, Internal			
	fitting, Instruments racks, Electrical fittings and Gas			
	line fittings, Tools (electrical and mechanical), Data			
	display system			

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RFP for Supply, Installation, Commissioning and Comprehensive Operation & Maintenance Services of 60 New Continuous Ambient Air Quality Monitoring Stations (CAAQMS) and Buy-back of 07 Existing CAAQMS in the State of Maharashtra

S. No.	Item / Analyzer Name	Quantity Nos. / Sets	Unit Price (in INR excl. GST)	TOTAL Price (In INR excl. GST)
1.13	2 Ton capacity split Air conditioner	120		4
1	1 Ton capacity split Air conditioner	60		
1.15	Single Phase 10 kVA UPS, 1 Hour backup	60		
1.16	Single Phase 5 kVA UPS, 4 Hrs. backup	60		
1.17	RCC Foundation, pillars and miscellaneous works	53		
	including civil and electrical (compound wall and			
	beautifications work all around)			
1.18	Display Board along with its foundation	60		

^{*}In the excel BOQ format, Bidders are requested to fill in '0' in row 1.01.

PART B: Breakup for O&M including CAMC of 60 CAAQMS for Five Years:

O&M Cost/Station including Cost of (Incidental Charges consisting of security, Electricity, Phones/ internet, Manpower, AMCs, material including spares & consumables for Operation & maintenance and others)

S. No.	Year of O&M	Quantity (Nos.)	Per unit rate (INR)	Total (&M Charges for the year in INR
1.	1st year	60			
2.	2nd year	60			
3.	3rd year	60			
4.	4th year	60			
5.	5th year	60			
TOTAL					

PART C: Breakup for Buy Back of the old CAAQMS

S. No.	Buy Back price in INR	Quantity (Nos.)	Tota	l price offered (INR)
1.		07		
	TOTAL			

The above buyback cost will be considered for awarding the contract to L1 bidder. The L1 bidder must accept and offer highest buyback cost discovered through this bidding process.



RFP for Supply, Installation, Commissioning and Comprehensive Operation & Maintenance Services of 60 New Continuous Ambient Air Quality Monitoring Stations (CAAQMS) and Buy-back of 07 Existing CAAQMS in the State of Maharashtra

Total Contract Value

S. No.	Part	Total Value (excl. GST)
1.	PART A	
2.	PART B	
3.	PART C	
	TOTAL VALUE = PART A+ PART B – PART C	
	(excl. GST)	

Note:

- 1. The Bidder shall provision for all costs required for the entire duration of the contract. MPCB shall not be liable to pay any additional costs, apart from that mentioned in the table above.
- 2. The rate quoted by bidder shall include all costs associated with fulfilling the project deliverables, Out of Pocket Expenses including Travelling, Lodging, Food, insurance, etc. MPCB shall not pay any additional cost to bidder.
- 3. All costs shall remain valid for the entire duration of the contract.
- 4. All factor/services/components need to be taken into consideration before filling rate in the Financial Proposal Format. No changes will be entertained once the bid has been submitted. MPCB does not guarantee work order for the bids submitted.
- 5. All the prices are to be entered in Indian Rupees ONLY. In case of bidder dealing with multiple currencies for the purpose of procurement under this tender, the INR vs Foreign Currency has to hedged by the bidder to accommodate for change in Rupee value. No additional payment will be paid by MPCB apart from the rates quoted in BoQ.
- 6. The quoted rates shall be inclusive of all taxes and excluding GST. GST shall be paid as actual at prevailing rates by MPCB after awarding the contract to successful bidder at the time of releasing the payments.
- 7. Bids not conforming to the formats and instructions given below, the Bids will be considered as invalid / non-responsive. MPCB's decision will be final in such case.
- 8. The PRICE BID has to be submitted online in the BOQ format and PDF format provided. In the excel BOQ format, bidders are requested to fill in '0' in row 1.01 and values for PART A and PART B as is in excel and PDF. Additionally, bidders also need to fill in values for PART C and Final Contract Table provided in the PDF.

 For the purpose of evaluation only the PDF document will be assessed for deciding the L1 bidder.
- 9. A copy of commercial bid printed on letterhead to be uploaded on Mahatender portal.



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Yours sincerely,

Authorized Signature [In full and initials]:

Name and Title of Signatory:

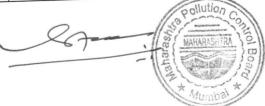
Date and Stamp of the signatory

Name of Firm:

RFP for Supply, Installation, Commissioning and Comprehensive Operation & Maintenance Services of 60 New Continuous Ambient Air Quality Monitoring Stations (CAAQMS) and Buy-back of 07 Existing CAAQMS in the State of Maharashtra

Annexure 2 (A) Checklist for documents to be included in the Pre-Qualification

S. No.	Minimum Eligibility Criteria- Pre-Qualification Criteria	Document to be submitted	Document submitted Yes/No	Pg. No.
PQ 4	Project Experience 1: The Bidder must have experience in "similar works" * during last seven (07) years in India as on last date of submission of bid as per following details One (01) project worth at least INR. 30 Cr. OR Two (02) projects each costing not less than the amount equal to INR. 15 Cr. OR Three (03) projects each costing not less than the amount equal to INR. 8.0 Cr.	mentioning the total value of completed projects OR In case of on-going project, partial completion certificate from the client on client's letter head mentioning the relevant scope of Work, having received the payment matching the 'Minimum Project Value' of the partially completed project. c) Performance statement formats for Manufacturer and for Authorized representative of manufacturer: in format given in Annexure 5 d) Project Citation as given in Annexure 4. For bidders submitting private wor orders, GST invoice and payment receipts/statement needs to be	r H n	
		allution		



RFP for Supply, Installation, Commissioning and Comprehensive Operation & Maintenance Services of 60 New Continuous Ambient Air Quality Monitoring Stations (CAAQMS) and Buy-back of 07 Existing CAAQMS in the State of Maharashtra

Annexure 3 (A) Checklist for the documents for Technical Proposal

S. No.	Criteria	Evaluation Parameters	Max. Marks		Supporting Documents	Document submitted Yes/No	Pg. No.
TE 1.	Relevant Bidder Ex						
TE	Project	Cumulative	20	a)	Bidders shall submit		
2.1	Experience 1:	Project value of			copy of Purchase		
		maximum any			Order (PO)/ Work		
	The Bidder must	three projects			Order (WO)/ Letter	-	
	have experience in	submitted.			of Award (LOA) /		
	"similar works" *	<inr 0<="" 30="" :="" cr="" td=""><td></td><td></td><td>Contract Agreement</td><td></td><td></td></inr>			Contract Agreement		
	during last seven	Marks			mentioning the		
	(07) years as on				relevant scope of		
	last date of	>=INR 30 Cr		1->	Work.		
	submission of bid	and < INR 50		b)	•		
	as per following	Cr: 10 Marks			Certificate from the		
	details				client mentioning the total value of		
	0 (01)	>=INR 50 Cr					
	One (01) project	and < INR 70			completed projects OR		
	worth at least INR. 30 Cr.	Cr: 15 marks					
	OR				In case of on-going project, partial		
	and the same of th	>=INR 70 Cr.:			project, partial completion		
- 5,	Two (02) projects each costing not	20 marks			certificate from the		
	less than the	20 marks			client on client's		
	amount equal to				letter head		
	INR. 15 Cr.				mentioning the		
	OR				relevant scope of		
	Three (03)				Work, having		
	projects each				received the		
	costing not less				payment matching		
	than the amount				the 'Minimum		
	equal to INR. 8.0				Project Value' of		
	Cr.				the partially		
TE	Similar Work	No. of	10	1	completed project.		
2.2	Project	"similar		c)	Performance		
	Experience	works"		"	statement formats		
	The bidder should	projects			for Manufacturer	=	
	have successfully	completed in			and for Authorized		
	executed "similar	Central			representative of		
	works" ** project	Government /			manufacturer: in		
	during last seven	State			format given in		
	(07) years as on	Government			Annexure 5		
	last date of bid	/PCB/ Large					
	submission date.	Industries in					

MAHARASHIRA MODELLA MAHARASHIRA MURANA MURAN

S	Criteria	Evaluation Parameters	Max. Marks	Supporting Documents	Document submitted Yes/No	Pg. No.
		India: 1) 01 to 03 projects: 05 marks 2) 04 to 05 projects: 07 marks 3) Above 05 projects: 10 marks		d) Project Citation as given in Annexure 4. For bidders submitting private work orders, GST invoice and payment receipts/statement needs to be submitted to ascertain proof of payment. Purchase Order (PO)/Work Order (WO)/Letter of Award (LOA)/Contract Agreement issued only in the name of participating entity shall be considered.		



