

Minutes of Pre-bid meeting of RFP For "Procurement and Comprehensive Annual Maintenance of One High Pressure Liquid Chromatograph and Four Inductively Coupled Plasma Optical Emission Spectroscopy for MPCB"**MAHARASHTRA POLLUTION CONTROL BOARD**

Tel: +91 22 24087295

Website: www.mpcb.gov.inE-mail : psa@mpcb.gov.inMaharashtra Pollution Control Board
महाराष्ट्र प्रदूषण नियंत्रण मंडळKalpataru Point, 3rd & 4th Floor

Opp. Cine Planet Cinema,

Near Sion Circle, Sion (E)

Mumbai- 400 022.

Corrigendum 2

Date: 05/05/2025

Minutes of Pre-Bid Meeting of RFP For Procurement and Comprehensive Annual Maintenance of One High Pressure Liquid Chromatograph and Four Inductively Coupled Plasma Optical Emission Spectroscopy for MPCB**1. Brief about the meeting**

Date: 24/04/2025, Day: Thursday, Time: 14:30 PM – 15:30 PM

Place: MPCB Office and online meeting over MS Teams platform

2. Agenda: Pre-bid meeting

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. Vishwajeet Thakur	PSO	In-person
2	Shri. Shyamkumar Patil	CAO	In-person
3	Shri Shankar Waghmare	JD-WPC	In-person
4	Shri. Rajendra Rajput	AST	In-person
5	Shri. Ravindra Andhale	JD-APC	In-person
6	Dr. Nilesh Amritkar	Managing Director, M/s. Envirocare Labs., Thane (Expert member of CPC)	Online

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S. No.	Name	Designation and Organization	In-person / Online
7	Dr. P. D. Khadkikar	SSO	In-person
8	Mr. K. V. Gawankar	I/c. SSO	In-person
9	Mrs. Sumitra Mahajan	SO	In-person
10	Shri. Ishan Rai	M/s. Biozed Engineering	In-person
11	Shri. Prashant Thokale	M/s. Biozed Engineering	In-person
12	Shri. Arun Jha	M/s. Thermo Fischer	In-person
13	Shri. Prashant Bhole	M/s. Thermo Fischer	In-person
14	Shri. Prashant Shah	M/s. Agilent	Online
15	Shri. Ganesh Kokate	M/s. Agilent	Online
16	Dr. Jayraj Rane	M/s. Lab India	Online
17	Ms. Jaya Nayar	M/s. Lab India	Online
18	Shri. Manubai Darji	M/s. Borg Cheminova Pvt. Ltd.	Online
19	Saptarshi Das	Consultant KPMG	In-person
20	Prabhakar Bagade	Consultant KPMG	In-person
21	Pritam Baruah	Consultant KPMG	In-person

3. Main Points Discussed

Table 2: Pre-Bid Queries and Clarifications

S. No.	Page No.	Section no.	Content of tender document requiring clarification	Points of clarification required	Clarification/Amendment by MPCB
1.	35	4.1.2 Inductively Coupled Plasma-Optical Emission Spectroscopy (ICP-OES), S. No. 1- Optics	<ul style="list-style-type: none"> System should have grating with more than 110 lines/mm for higher dispersion & resolution. 	System should have grating with more than 110 lines/mm or superior technology for higher dispersion & resolution.	The revised clause should be read as: System should have grating with more than 110 lines/mm or superior technology for higher dispersion & resolution.
2.	35	4.1.2 Inductively Coupled Plasma-Optical Emission	<ul style="list-style-type: none"> An optical system purge gas flow should be of 0.7L/min or less and can use either nitrogen or 	An optical system purge gas flow should be 1.0L/min or less and can use either nitrogen or argon	No Change, RFP clause prevails.

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S. No.	Page No.	Section no.	Content of tender document requiring clarification	Points of clarification required	Clarification/Amendment by MPCB
		Spectroscopy (ICP-OES), S. No. 1- Optics	argon for purging and the gas flows must be controlled by the system controller.	for purging and the gas flows must be controlled by the system controller. 0.7L/min is specific to certain vendors and restricts broader participation.	
3.	35	4.1.2 Inductively Coupled Plasma-Optical Emission Spectroscopy (ICP-OES), S. No. 3- RF Generator	<ul style="list-style-type: none"> RF generator must be solid state and have power output range of 750 - 1500 watts and should be variable & computer controlled. 	RF generator must be solid state and have power output range of 750 - 1350 watts or broader and should be variable & computer controlled.	No Change, RFP clause prevails.
4.	35	4.1.2 Inductively Coupled Plasma-Optical Emission Spectroscopy (ICP-OES), S. No. 5- Sample introduction system	<ul style="list-style-type: none"> The system must include at least Four channel peristaltic pump to allow on-line addition of internal standards. Systems with additional channels for adding reducing agent mainly for hydride elements will be preferred. 	The system must include at least three channel peristaltic pump to allow on-line addition of internal standards. Systems with additional channels for adding reducing agent mainly for hydride elements will be preferred. ICP-OES utilizes peristaltic pump with one channel for uptake of the solution, second channel for rinse and third for hydride application. Hence, we request you to amend it to three or more channels.	No Change, RFP clause prevails.



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5.	35	4.1.2 Inductively Coupled Plasma-Optical Emission Spectroscopy (ICP-OES), S. No. 5- Sample introduction system	<ul style="list-style-type: none"> The system should have fully computer controlled, variable speed peristaltic pump >70 rpm. 	<p>The system should have fully computer controlled, variable speed peristaltic pump >70 rpm or suitable RPM.</p> <p>The uptake speed of peristaltic pump depends on the ID of the tubing used for sample uptake and rinse. The ideal operation speed for Thermofisher ICP-OES is around 45 RPM. Hence, we request you to amend it to suitable RPM.</p>	No Change, RFP clause prevails.
6.	36	4.1.2 Inductively Coupled Plasma-Optical Emission Spectroscopy (ICP-OES), S. No. 7- Mass flow controllers (MFC)	<ul style="list-style-type: none"> All gas flows to control the plasma should have Mass Flow Controllers on them for precise gas flow control. This includes the plasma gas (coolant), auxiliary gas, nebulizer gas and make up gas. The Successful Bidder must specify number of MFCs provided along with precision for each MFC. 	<p>All gas flows to control the plasma should have Mass Flow Controllers on them for precise gas flow control. This includes the plasma gas (coolant), auxiliary gas, nebulizer gas and make up gas (if applicable).</p> <p>Since we use high precision MFC for all gas flows, we do not use makeup gas for plasma generation. Hence request you to amend the make-up gas (if applicable).</p>	No Change, RFP clause prevails.
7.	36	4.1.2 Inductively Coupled Plasma-Optical Emission Spectroscopy (ICP-OES), S. No. 9- Detector	<ul style="list-style-type: none"> Radial viewing height should be fully adjustable for entire viewing range. 	Radial viewing height should be fully adjustable or pre-optimized for entire viewing range. Radial viewing height is applicable for radial only view instruments. But since MPCB is	No Change, RFP clause prevails.

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				planning to procure dual view, the low concentration elements will be analyzed in axial mode thus eliminating the need to optimize their performance in radial mode.	
8.	36	4.1.2 Inductively Coupled Plasma-Optical Emission Spectroscopy (ICP-OES), S. No. 9-Detector	<ul style="list-style-type: none"> Detector should have minimum read time/ Integration time of 1 second for faster analysis, saving sample, reagents & Ar gas consumption. 	<p>Detector should have minimum read time/ Integration time of 15 second for faster analysis, saving sample, reagents & Ar gas consumption.</p> <p>All the reputed vendors publish their detection limit data with either 15s or 30s integration time. 1s integration time results poor detection limits and poor %RSD. Hence request you to please amend the integration time to 15s.</p>	No Change, RFP clause prevails.
9.	38	4.1.2 Inductively Coupled Plasma-Optical Emission Spectroscopy (ICP-OES), S. No. 17-Flexibility & future upgradability	<ul style="list-style-type: none"> Multielement standards of two bottles of 1 litre capacity of 1000 ppm each for the elements mentioned below to be quoted. Copper, Cadmium, Zinc, Nickel, Lead, Iron, Chromium, Manganese, Cobalt, Mercury, Boron, Arsenic, Aluminium, Vanadium, Selenium, Tin, Silver, Barium, Strontium, Antimony, Beryllium, Calcium, Magnesium, Sodium, Potassium, Lithium 	<p>Please note, all the mentioned elements are not covered in multielement standards.</p> <p>Elements not covered in multielement standard can be quoted as a single element standard.</p> <p>These standards are having shelf life 12-18 months & are available in 125ml & 500ml volume capacity.</p> <p>Is it to be delivered in staggered way?</p>	<p>The revised clause should be read as:</p> <p>Bidder should quote two Nos. of 500 ml elemental standards of 1000 ppm covering following elements.</p> <p>Copper, Cadmium, Zinc, Nickel, Lead, Iron, Chromium, Manganese, Cobalt, Mercury, Boron, Arsenic, Aluminium, Vanadium, Selenium, Tin, Silver, Barium, Strontium, Antimony, Beryllium,</p>

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S. No.	Page No.	Section no.	Content of tender document requiring clarification	Points of clarification required	Clarification/Amendment by MPCB
				23 elements standard: 125ml bottle: 16 nos. 7 single element standards: 500 ml bottle: 4 nos.	Calcium, Magnesium, Sodium, Potassium & Lithium
10.	38	4.1.2 Inductively Coupled Plasma-Optical Emission Spectroscopy (ICP-OES), S. No. 17-Flexibility & future upgradability	<ul style="list-style-type: none"> Instrument should be quoted with all the consumables like torch, tubing, optics window, detector etc. for next 3 years, as required for their system. 	Please specify the number of samples to be analyzed every year or in 3 years to quote all the required consumables in appropriate quantity.	The revised clause should be read as: On an average about 6000 samples will be analyzed per year.
11.	38	4.1.2 Inductively Coupled Plasma-Optical Emission Spectroscopy (ICP-OES), S. No. 18-Warranty and CAMC	<ul style="list-style-type: none"> Warranty - 3 years and CAMC – 3 years Transit insurance is the sole responsibility of the successful bidder 	Please clarify warranty & CAMC to be quoted with: <ul style="list-style-type: none"> Preventive maintenance kit Preventive visit Annual Calibration 	The revised clause should be read as: <ul style="list-style-type: none"> Warranty - 3 years and CAMC – 3 years Covering preventive maintenance kit per year, preventive visit and annual calibration with OQ PQ.
12.	NA	Training support	At site Pune, Navi Mumbai, Nagpur, Chandrapur	Kindly share the expectations of training like no. of days, scope of training etc.	The revised clause should be read as: Successful bidder should give onsite training to two MPCB Scientists from each laboratory for operation and maintenance, application of ICP-OES & HPLC.

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13.	12	NA	<div>Summary of details with regard to invitation of bids and Tender Schedule</div> <table><tr><th>S. No.</th><th>Items</th><th>Description</th></tr><tr><td>13</td><td>Earnest Money Deposit (EMD) via online procurement portal</td><td>₹ 1,500,000/ (INR Fifteen Lakhs Only) to be paid online through e-tender portal</td></tr></table>	S. No.	Items	Description	13	Earnest Money Deposit (EMD) via online procurement portal	₹ 1,500,000/ (INR Fifteen Lakhs Only) to be paid online through e-tender portal	Request you to please give us exemption from submitting such a huge EMD amount. Alternatively, EMD by way of BG should also be accepted.	No Change, RFP clause prevails.
S. No.	Items	Description									
13	Earnest Money Deposit (EMD) via online procurement portal	₹ 1,500,000/ (INR Fifteen Lakhs Only) to be paid online through e-tender portal									
14.	12	NA	<div>Summary of details with regard to invitation of bids and Tender Schedule</div> <table><tr><th>S. No.</th><th>Items</th><th>Description</th></tr><tr><td>14</td><td>Security Deposit / Performance Bank Guarantee (PBG)</td><td><div>1. Five (5%) of the Total cost incl. GST (Supply cost) for Supply of One (01) HPLC and Four (04) ICP-OES with One (01) Year warranty valid up to One (01) Year and Six (06) months from the date of signing the Contract Agreement.</div><div>2. Five (5%) of the Total cost incl. GST (CAMC cost) valid for a period of Five (05) Years and Three (03) months including extended warranty for Two (02) Years and CAMC for Three (03) Years.</div><div>PBG should be only from Nationalized / Scheduled commercial banks.</div></td></tr></table>	S. No.	Items	Description	14	Security Deposit / Performance Bank Guarantee (PBG)	<div>1. Five (5%) of the Total cost incl. GST (Supply cost) for Supply of One (01) HPLC and Four (04) ICP-OES with One (01) Year warranty valid up to One (01) Year and Six (06) months from the date of signing the Contract Agreement.</div> <div>2. Five (5%) of the Total cost incl. GST (CAMC cost) valid for a period of Five (05) Years and Three (03) months including extended warranty for Two (02) Years and CAMC for Three (03) Years.</div> <div>PBG should be only from Nationalized / Scheduled commercial banks.</div>	Validity of PBG until warranty period only.	No Change, RFP clause prevails.
S. No.	Items	Description									
14	Security Deposit / Performance Bank Guarantee (PBG)	<div>1. Five (5%) of the Total cost incl. GST (Supply cost) for Supply of One (01) HPLC and Four (04) ICP-OES with One (01) Year warranty valid up to One (01) Year and Six (06) months from the date of signing the Contract Agreement.</div> <div>2. Five (5%) of the Total cost incl. GST (CAMC cost) valid for a period of Five (05) Years and Three (03) months including extended warranty for Two (02) Years and CAMC for Three (03) Years.</div> <div>PBG should be only from Nationalized / Scheduled commercial banks.</div>									

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15.	27-28	3.1 Pre-Qualification Criteria	S. No.	Items Description	Instead of The Bidder it should read as OEM / Bidder. Also, Private NABL lab should be removed as MPCB itself is a government body.	No Change, RFP clause prevails.
			PQ 4	<p>Project Experience 1:</p> <p>The Bidder should have experience in supply/ manufacturing, installation, commissioning/ annual maintenance of Inductively Coupled Plasma- Optical Emission Spectroscopy (ICP-OES) to any Central Government / State Government / Union Territory (UT) / Urban Local Body (ULB) / Public Sector Undertaking (PSU)/ Government Undertaking/ Private NABL accredited Lab in India in the last Five (05) Years as on Bid submission Due date as per the following details:</p> <p>One (01) project costing at least ₹ 5.5 Cr.</p> <p>OR</p> <p>Two (02) projects each costing at least ₹ 4.00 Cr.</p> <p>OR</p>	<p>a) Bidders shall submit a copy of work order/ Purchase order/ contract agreement having the relevant scope of Work, number of instruments supplied etc.</p> <p>b) Completion Certificate from the client or Proof of payment received i.e. copy of Bank statement clearly reflecting the name of the Bidder and amount received matching with Minimum Project value along with GST Invoice</p> <p>OR</p> <p>In case of on-going project, a certificate from the client on client's letterhead mentioning the relevant scope of Work; number of instruments supplied and current status of</p>	

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				Three (03) projects each costing at least ₹ 2.70 Cr. 		

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			Undertaking/ Private NABL accredited Lab in India in the last Five (05) Years as on Bid submission Due date.as per the following details: One (01) project costing at least ₹ 60 Lakhs OR Two (02) projects each costing at least ₹ 45 Lakhs OR Three (03) projects each costing at least ₹ 30 Lakhs	along with GST Invoice OR In case of on-going project, a certificate from the client on client's letterhead mentioning the relevant scope of Work, number of instruments supplied and current status of the partially completed project. Project citation as per format in Error! Reference source not found. c) Self-Declaration as per Error! Reference source not found. NABL Accreditation Certificate for Private laboratory experience		
17.	41	4.6 Delivery Schedule	S. Deliverable Milestones No.	Delivery Timelines	Delivery timeline - 5 Months	No Change, RFP clause prevails.
			1. Supply of One (01) High-Performance	Within Three (03) months from the date of signing of Agreement.		

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				liquid chromatograph and Four (04) Inductively Coupled Plasma- Optical Emission Spectroscopes (ICP-OES) with minimum specifications as per RFP with One Year warranty		Within Fifteen (15) days from the date of Installation, commissioning and training of HPLC and ICP-OES at Central Laboratory intimated by MPCB 1 st Year of onsite Warranty Services post completion of Acceptance.			
18.	45	5.1 Payment Terms	S. No.	Milestones	Unit of Measure ment	Delivery Timelines	Payment Terms and Conditio ns	We request you to please accept below mentioned terms: 1) 30% advance against advance bank guarantee 2) 60% Against delivery 3) 10% after installation	No Change, RFP clause prevails.
			Payment Terms of Part A (ICP-OES)						
			1.	Supply of the Four (04) Inductively Coupled Plasma- Optical Emission Spectroscopes (ICP-OES) with minimum specifications as per RFP with One Year warranty	Number	Three (03) months from the date of signing of Agreement.	80% of the quoted item from the cost of the instruments after delivery onsite along with delivery challan(s), all the user manuals on signing of the Consignme nt Receipt Certificate (as per		



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S. No.	Page No.	Section no.	Content of tender document requiring clarification				Points of clarification required	Clarification/Amendment by MPCB
						Error! Reference source not found.)		
			Installation commissioning and training of the supplied Four (04) Inductively Coupled Plasma- Optical Emission Spectroscopy (ICP-OES) with minimum specifications as per RFP	Number	Fifteen (15) days from the date of supply of Four (04) Inductively Coupled Plasma- Optical Emission Spectroscopy (ICP-OES) with minimum specifications as per RFP at designated regional offices mentioned in this RFP or as intimated by MPCB.	Balance 20% of the quoted item cost of the instrument s after submission of Final Acceptance Certificate (as per Error! Reference source not found.) and Training completion report signed by the Nodal officer		
			Standard 1 st Year of onsite Warranty Services	Year	1 st Year after receipt of Final Acceptance Certificate.	No separate payment. The Successful Bidder		

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S. No.	Page No.	Section no.	Content of tender document requiring clarification					Points of clarification required	Clarification/Amendment by MPCB
							should submit Preventive maintenance Reports, Service Records, Logbook etc. duly verified by the Nodal Officer of respective location after deduction of applicable penalties, if any.		
19.	47	5.1 Payment Terms	S. No.	Milestones	Unit of Measureme nt	Delivery Timelines	Payment Terms and Conditions	In case the lab is not ready for installation, final 10% will be due within 30 days from supply date.	No Change, RFP clause prevails.
			Payment terms of PART B (HPLC)						
			7.	Supply of High-Performance liquid chromatograph and with	01 Nos.	Within Three (03) months from the date of signing of Agreement.	80% of the quoted item cost of the instruments after delivery onsite along		

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				minimum specifications as per RFP with One Year warranty			with delivery challan(s), all the user manuals on signing of the Consignment Receipt Certificate (as per Error! Reference source not found.)	
				Installation, commissioning and training of High-Performance liquid chromatograph at central laboratory with minimum specifications as per RFP	01	Within Fifteen (15) days from the date of supply of the instrument with minimum specifications as per RFP at Central laboratory as mentioned in this RFP or as intimated by MPCB.	Balance 20% of the quoted item cost of the instruments after submission of Final Acceptance Certificate (as per Error! Reference source not found.) and Training completion report signed by Nodal officer	

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			Standard 1 st Year of onsite Warranty Services	01	1 st Year after receipt of Final Acceptance Certificate.	No separate payment. The Successful Bidder should submit Preventive maintenance Reports, Service Records, Logbook etc. duly verified by the Nodal Officer of respective location after deduction of applicable penalties, if any.			
20.	51	6.1 Penalties / KPIs	S. No.	Penalty Type	Penalty Description	Validation frequency	Penalty Amount	Penalty amount should be maximum 5% of the PO value	No Change, RFP clause prevails.
			1.	Delivery of the laboratory instrument	Delay in delivery of the laboratory	One time at the time of delivery	₹ 5,000/- (Five thousand only) per day of delay		

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					instrument (beyond permissible timelines as mentioned in the delivery schedule).		for each of the instrument.	
			2.	Installation, Commissioning and training of the laboratory instrument on-site	Delay in installation, commissioning, training and obtaining Final Acceptance Certificate and training completion report (beyond permissible timelines as mentioned in the delivery schedule).	One time at the time of installation, commissioning and training	₹ 5,000/- (Five thousand only) per day of delay for each of the instrument.	
			3.	Breakdown Response (Response time to breakdown repair after Incident notification) during	Repair of instrument and their components to fully working condition within 48 hours from	Monthly basis	₹ 3,000 /- (Three thousand only) per day of delay in repair of instrument and its components.	

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			warranty/ CAMC period.	date and time of notification. Any delay in repairing beyond 48 hours will attract per day penalty				
			4. Delay in attending scheduled inspection of the laboratory instrument during warranty/ CAMC period.	Delay in attending scheduled inspection at each quarter.	Monthly basis	₹ 1,000 /- (One thousand only) per day of delay from the pending payment or from PBG.		
21.	31	3.6 Signing of Contract Agreement	3. Any expenses related to registration of Agreement shall be borne by the Successful Bidder				What registration of agreement is needed? Kindly confirm.	After signing the Contract Agreement between the selected bidder and MPCB, the contract has to be register contract with Department of Registration and Stamps Government of Maharashtra.
22.	39	4.3 Testing and operational acceptance	4. The Successful Bidder shall maintain necessary log in respect of the result of the test to establish to the entire satisfaction of MPCB, the successful completion of the test specified.				Please explain this clause.	The selected bidder shall maintain all the documents related to installation, testing and calibration along with console snaps. The same documents must be submitted to MPCB authority for acceptance.
23.	40	4.4 Training and Calibration	2. Develop the training modules and instruction manual both English and Marathi language as per				Manual is available in English only.	No Change, RFP clause prevails.

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S. No.	Page No.	Section no.	Content of tender document requiring clarification	Points of clarification required	Clarification/Amendment by MPCB						
			design approved by MPCB. The training module/ instruction manual with online content shall be available for ready reference.								
24.	34	4.1.1 High-Performance liquid chromatograph with DAD and FLD Detector	<table><tr><th>S. No.</th><th>Specification</th><th>Description</th></tr><tr><td>10.</td><td>Warranty and CAMC</td><td><ul style="list-style-type: none">Warranty - 3 Years and 3 Years CAMC.Transit insurance is the sole responsibility of the successful bidder.</td></tr></table>	S. No.	Specification	Description	10.	Warranty and CAMC	<ul style="list-style-type: none">Warranty - 3 Years and 3 Years CAMC.Transit insurance is the sole responsibility of the successful bidder.	<p>Please confirm following point for HPLC:</p> <ul style="list-style-type: none">In warranty and CMC do you require Calibration to be perform?During this period do you required PM Kit?In warranty period do you require PM visit from our Engineer?Do you require Advance features in Autosampler like Dilution, derivatization and spiking of the sample?	<p>The revised clause should be read as:</p> <ul style="list-style-type: none">Warranty - 3 years andCAMC – 3 yearsCovering preventive maintenance kit per year, preventive visit and annual calibration with OQ PQ.Advance features in Autosampler like Dilution, derivatization and spiking of the sample is not required.
S. No.	Specification	Description									
10.	Warranty and CAMC	<ul style="list-style-type: none">Warranty - 3 Years and 3 Years CAMC.Transit insurance is the sole responsibility of the successful bidder.									
25.	83-101	Annexure 14 Draft Conditions of Contract	Annexure 14 Draft Conditions of Contract	Draft Agreement will be provided after award of contract or after receiving PO	Draft Agreement shall be shared after issue of Purchase Order.						
26.	105	Annexure 17 Template for Consignment Receipt Certificate	Annexure 17 Template for Consignment Receipt Certificate.	Will be provided at the time of delivery.	Bidder should deliver the instrument at respective laboratories and submit the consignment receipt certificate as per Annexure – 17 for advance 80% payment.						
27.	106	Annexure 18 Template for Final Acceptance Certificate	Annexure 18 Template for Final Acceptance Certificate.	Will be provided at the time of delivery.	Bidder should install the instrument at respective laboratories, impart the training and submit the final acceptance certificate as per Annexure – 18 for balance 20% payment.						

Minutes of Pre-bid meeting of RFP For "Procurement and Comprehensive Annual Maintenance of One High Pressure Liquid Chromatograph and Four Inductively Coupled Plasma Optical Emission Spectroscope for MPCB"

-----End of Document-----

~~5.5.2025~~
KV. Gaudan

~~by~~
05/05/2025

Dr. P. D. Khadke
880 of Head - C. Lab .

~~Dr. V. J. Thelam~~
- 5/5/25
Dr. V. J. Thelam, PSO.

~~Dr. J. J. Thelam~~
Dr. J. J. Thelam

~~Dr. J. J. Thelam~~
- 5/5/25
(R.A. Rajat)