

**BIDDING DOCUMENT
FOR
SUPPLY, INSTALLATION & COMMISSIONING
OF CONTINUOUS AMBIENT AIR QUALITY MONITORING STATIONS (CAAQMS)
AT DIFFERENT PLACES OF WEST BENGAL
AND COMPREHENSIVE MAINTENANCE & OPERATION CONTRACT (CMOC) OF THESE CAAQMS**

VOLUME- I



WEST BENGAL POLLUTION CONTROL BOARD

Paribesh Bhawan, 10 A, Block LA, Sector III

Kolkata - 700106, INDIA

Ph – 2335 9088 / 2335 1623

Fax – 2335 2813

Email: [wbpcnet@wbpcb.gov.in](mailto:wbpbcnet@wbpcb.gov.in)

Website: www.wbpcb.gov.in

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WEST BENGAL POLLUTION CONTROL BOARD

Paribesh Bhawan, 10 A, Block LA, Sector III
Kolkata - 700106, INDIA

INVITATION FOR BIDS (IFB)

NIT No.: WBPCB/CAAQMS-1/19-20/(e-10)G-A

Date: 17.09.2019

PROJECT: SUPPLY, INSTALLATION, COMMISSIONING OF CONTINUOUS AMBIENT AIR QUALITY MONITORING STATIONS (CAAQMS) AT DIFFERENT PLACES OF WEST BENGAL AND COMPREHENSIVE MAINTENANCE & OPERATION CONTRACT (CMOC) OF THESE CAAQMS

1. WEST BENGAL Pollution Control Board (WBPCB), invites bids through e-tender from eligible bidders for supply, installation & commissioning of equipment (listed in Bid documents) for Continuous Ambient Air Quality Monitoring Stations (CAAQMS) and Comprehensive Maintenance & Operation of these CAAQMS within West Bengal and related services as specified in the bid document.
2. This invitation for the Bid is open to any bidder who is a reputed manufacturer or authorized representative of the manufacturer, who meets the Qualifying Requirements stipulated hereunder for participation in the tender. The bidder shall furnish satisfactory evidence to establish that bidder meets the following qualifying requirements.
3. Prospective bidders may visit Websites: <https://wbtenders.gov.in> or <http://www.wbpcb.gov.in/tenders> directly for details terms and conditions of e-tender. Bidders willing to take part in the process of e-tendering are required to obtain Digital Signature Certificate (DSC) from any authorized Certifying Authority (CA) under CCA, Government of India viz. NIC, DSC is given as a USB e-token. After obtaining the DSC from the approved CA they required to register the fact of possessing the DSC through the registration system available in the website.
4. Prospective Bidders may download a complete set of bidding documents from the website: <https://wbtenders.gov.in> with the help of e-token. This is the only mode of collection of tender document. Tenders are to be submitted online. Details of submission procedure are given below under 'Instructions to Bidders'.
5. Bidders are requested to submit a non-refundable Bid Document fee of **Indian Rupees 10,000/- (Rupees Ten Thousand only)**. The bid document fee/Tender fee should be submitted through online vide Memorandum No. 3975 – F (Y) dated, 28th July 2016 of the Audit Branch, Finance Department, Govt. of West Bengal. For details procedure a copy of the said Memorandum is attached as a part of the tender document. **Bidders, participating in one or more Group, has to submit only one Bid Document Fee. In case a bidder wishes to submit bid for more than one group, the bid document fee is to be submitted with any group. In case of submissions for other group(s), the bidder has to opt for exemption by clicking "YES" when they fill up the "FEE MODULE" in e-procurement system. However, if the bidder participates in any or all groups, but does not submit the bid document fee, their submission will be rejected summarily.**

6. This bidding takes simultaneous bidding procedure in two part (Folder) bidding system Part-1) Techno Commercial Bid and Part-2) Financial Bid. All the eligible and interested bidders are required to submit the Techno-commercial bid and financial bid simultaneously through online e-tender system. Techno-Commercial bids (all folders of **5A & B** of Tender document) will be opened and analyzed first. Only the bidders whose Techno-commercial bid is found responsive will be notified by the Board and uploaded the techno commercial evaluation status through e-tender system. Financial Bids (all folders of **6 C, D1, D2, D3 & D4** of Tender document) of techno-commercially successful bidder(s) will be opened and the date opening of financial bid will also be informed through e-tender system.

For amendment in bidding documents or extension of bid submission date, if any, bidders are requested to visit website <https://wbtenders.gov.in> or <http://www.wbpcb.gov.in/tenders>. **Board will not publish further any notice in newspapers for such amendment/extension.**

7. Eligible Bidders must submit their bids for complete scope of work through online. Any bid submitted for incomplete scope shall be rejected out rightly.
8. **All the bids must be accompanied by bid security amount, as mentioned below, in accordance with the Instructions to the Bidders in the bidding documents.**

Group	Number of Stations	Bid Security fee (EMD)
Group – A	9	Rs. 22,37,000/-
Group – B	21	Rs. 45,25,000/-
Group – C	18	Rs. 36,20,000/-
Group – D	10	Rs. 18,80,000/-

9. The Bid Security/EMD should be submitted through online vide Memorandum No. 3975 – F (Y) dated, 28th July 2016 of the Audit Branch, Finance Department, Govt. of West Bengal. For details procedure a copy of the said Memorandum is attached as a part of the tender document. **Bidder may also submit the bid security in form of Bank Guarantee (BG) as per Attachment 10 of Section III (FORM OF BANK GUARANTEE FOR BID SECURITY). In that case, the bidder shall opt for exemption by clicking “YES” when they fill up the “EMD MODULE” in e-procurement system. A scanned copy of the BG has to be uploaded in folder “A” along with other documents in Technical Bid. Physical copy of the original BG has to be submitted in the tender box kept at the reception of the WBPCB within 24 hours of the bid closing date.**
10. WBPCB will not be responsible for any cost(s) or expense(s) incurred by bidders in connection with the preparation or delivery of bids.
11. The West Bengal Pollution Control Board reserves the right to reject any or all the tenders without assigning any reason whatsoever.
12. In the event of date being declared as a closed holiday for WBPCB’s Office, the date for submissions of bids and opening of bids will be the following working day at the appointed time.
13. The bidder or his official representative is invited to attend a **pre-bid meeting**, which will take place at **12.00 Hrs on 27th September, 2019** at the Board’s office. Prospective bidders are requested to send their queries, if any, to the e-mail id: ujjal@wbpcb.gov.in or contact at phone numbers (0-9830063508;

033-2335-1623) at least 3 days prior to the scheduled date of pre-bid meeting positively to prepare for discussion at the pre-bid meeting. However, if there is any other query that must be submitted in writing (hard copy & soft copy) before the pre-bid meeting. No verbal queries will be entertained for discussion at the pre-bid meeting.

14. For any assistance regarding downloading and uploading documents through e-tendering please contact NIC Help Desk: 033 -2334-6098.

Details of Date & Time of different activities at a glance:-

Sl.	Description of activities	Date & Time
1.	Publication of Invitation of Bids (IFB)	17 September 2019; 1700 hrs.
2.	Download of Bid Documents start from	17 September 2019; 1800 hrs.
3.	Pre-Bid Meeting to be held	27 September 2019; 1200 hrs.
4.	Minutes of the Pre-Bid Meeting to be uploaded	30 September 2019; 1600 hrs.
5.	Bid Submission Start Date	30 September 2019; 1700 hrs.
6.	Bid Submission Closing Date	21 October 2019; 1600 hrs.
7.	Technical Bid Opening Date	23 October 2019; 1100 hrs.

Sd/-

(Dr. Rajesh Kumar)
Member Secretary
West Bengal Pollution Control Board

Important: Bidders are expected to examine the Bidding Documents carefully and are deemed to have received and read all documents. It shall be the responsibility of the Bidder to request copies of any missing documents. Failures to do so will be at the Bidder's risk.

VOLUME I

SECTION I

INSTRUCTIONS TO BIDDERS

1. DEFINITIONS

Unless the context of these instructions to Bidders otherwise requires the following terms wherever used in this Instructions to Bidders shall have the meaning defined hereunder:

Words imparting the singular shall also include the plural and vice versa where the context requires. Whether the words and phrases defined in this Clause are capitalized or not in the Contract shall not affect their meaning.

- 1.1 "The Project" or "The Work" means supply, installation, commissioning & handing over of equipment for Continuous Ambient Air Quality Monitoring Stations (CAAQMS) at different places of West Bengal and Comprehensive Maintenance & Operation Contract (CMOC) of these CAAQMS.
- 1.2 "The Board" means the West Bengal Pollution Control Board (WBPCB), India, having its office at Paribesh Bhawan, 10A, Block LA, Sector III, Kolkata - 700106, and shall include any person or persons authorized by the Board. The Board is also executing agency of the Project.
- 1.3 "The Owner" means the Urban Development Department, Govt. of West Bengal.
- 1.4 "The Executor" means the executing agency, i.e. West Bengal Pollution Control Board (WBPCB), India, having its office at Paribesh Bhawan, 10A, Block LA, Sector III, Kolkata - 700106.
- 1.5 "The Bid" means the offer or proposal of the Bidder to be submitted for the work in accordance with the stipulations set forth in this Bidding Documents.
- 1.6 "The Techno-commercial Bid" means the Techno-commercial part of the Bid.
- 1.7 "The Financial Bid" means the financial part of the Bid.
- 1.8 "The Bidder" means either the manufacturer of the Equipment or his authorized Representative, who submits the Bid for the Work.
- 1.9 "The Authorized representative" means the bidder who has enclosed the manufacturer's authorization as per the format **"Form of letter of authorities" provided as Attachment 3 of Section III.**
- 1.10 "The Contractor" or "The Supplier" means the Bidder, whose Bid for the Work has been accepted by the Board and includes his personal representatives, successors and authorized assignees.
- 1.11 "The Manufacturers" mean the firms, which produces the equipment to be furnished by the Contractor under the Contract with the Board.

- 1.12 "The Bidding Documents" mean all the documents in Volume I and II in the bidding documents annexed thereto.
- 1.13 "The Contract" means the written agreement to be concluded between the Board and the Contractor and includes terms and conditions stipulated on the Bidding Documents and any other descriptions annexed thereto which form an integral part of the agreement to be provided by the Board.
- 1.14 "The Equipment" means all kind of materials, machinery, components, apparatus, articles and instruments for the Project to be provided by the Contractor to the Board under the Contract.
- 1.15 "The Specifications" mean the specifications of the Works to be performed by the Contractor in conformity with those specified in the Technical Specifications of Volume II and all other related documents in the Bidding Documents, and modifications thereof or additions thereto as may from time to time be made and approved in writing by the Board in case prior to the Contract and agreed upon by both the Board and the Contractor after the Contract.
- 1.16 "S/W" means the Scope of Works in Section II of this Bidding Document.
- 1.17 "The Sites" means CAAQMS's at locations as specified in Clause 1 of S/W (Section – II).
- 1.18 "The Contract Price" means the price payable to the contractor under the contract for the full and proper performance of its contractual obligations.

2. INTRODUCTION

2.1 The West Bengal Pollution Control Board intends to invite bids from eligible bidders for supply, installation, commissioning & handing over of equipment for Continuous Ambient Air Quality Monitoring Stations (CAAQMS) and CMOC of these CAAQMS.

2.2 Scope of Works

The description of Scope of Works is set forth in Section-II of this Volume I.

2.3 Size of Bid

The whole bid is for single composite package as detailed at Section-II i.e. Scope of Work.

2.4 Eligible equipment and conformity to the bidding documents

- (1) All countries are the eligible source countries for goods and services to be supplied under this contract.
- (2) For the purpose of this clause "origin" means the place where the equipment or component parts thereof are mined, grown, or produced. Equipment are produced when, through manufacturing, processing or substantial and major assembling of components, a

commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.

- (3) The Bidder shall furnish the Certificate of Country of Origin (duly authenticated by competent authority of that country) of each Equipment here above (as per Attachment 4 to Section III) in these Instructions, as the documentary evidence of the eligibility of the Equipment.
- (4) The origin of equipment may be distinct from the nationality of the bidders.
- (5) Conformity to the Bidding documents may be in the form of literature, drawings, and data, and the Bidder shall also furnish:
 - a) A detailed description of equipment, essentially technical and performance characteristics.
 - b) A list giving full particulars, including available sources of all spares (whether mandatory or recommended) and their prices, special tools etc., necessary for the proper and continued functioning / maintenance of the equipment on long term basis.
 - c) An inventory of the spare parts for each equipment available with the bidder in India mentioning the ones not available in India and have to be imported in case necessary after the expiry of CMOC period.
 - d) A clause-by-clause commentary of the Board's Technical Specifications demonstrating the equipment's substantial responsiveness to these specifications or a statement of deviations and exceptions to the provisions of Technical Specifications.

The above stated requirements are a minimum and the Board reserves the right to request any additional information concerning the Bid Proposal in response to this Invitation of Bids.

2.5 Qualifying Requirements of Bidders

This invitation for the Bid is open to any bidder who is a reputed manufacturer or authorized representative of the manufacturer. The bidder shall meet the Qualifying Requirements stipulated hereunder for participation in the tender. The bidder shall furnish satisfactory evidence to establish that bidder meets the following qualifying requirements. Joint venture is allowed for this bidding, in which case, the declaration of the lead bidder, maintaining legality, is a compulsory precondition and all the partners of such consortium shall be solely responsible for completion of the project throughout the period. Any party or person shall singly or jointly be able to be a bidder in only one bid submission. Two or more bids submitted with the same person or party as a bidder shall be summarily rejected. However, in case of foreign bidders, their 100 percent subsidiaries in India may act as the CMOC vendor for the bidder. Clause 2.5.5 elucidates the Joint Venture issue.

2.5.1 Qualifying Requirement for Group – A (Total Number of Stations – 9, see Clause-6, Section-II, Scope of Works)

(a)	The bidder who must have supplied, tested and commissioned and can produce evidence of experience of having successfully completed similar works during last 7 years ending the date of opening of this bid (technical bid) should be either of the following: - 1a. One “similar completed work” costing not less than the amount equal to INR 9.0 crore. or 1b. Two “similar completed works” each costing not less than the amount equal to INR 5.60
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	<p><i>crore.</i></p> <p style="text-align: center;">or</p> <p>1c. Three “similar completed works” each costing not less than the amount equal to INR 4.50 crore.</p> <p>“Similar Completed Works” stands for supplying, testing, commissioning and successful operation and maintenance of similar systems containing at least four analyzers out of the seven base analyzers (as identified by items appearing at Group-A as mentioned above and same should be in satisfactory operation and maintenance with no adverse report during last one year as on date of this bid opening (technical bid).</p> <p>Further it may be clarified that bidder should submit the experience/completion certificate of offered make/manufacturer only. In other words if the bidder submits experience/completion certificate of one make and offered make/manufacturer are different, the completion certificate shall not be considered and the bid shall be treated as technically non responsive.</p>
(b)	The bidder should offer maximum three make/manufacturer for supply of 8 different analysers including calibrator.
(c)	For all the items not manufactured by the Bidder / his principal (if bidder is an authorized representative) i.e. Analyzers, Monitors, Calibrators and Sensors, the bidders should be authorized by the manufacturers for these items as per the format “Form of letter of authorities” provided as Attachment 3 of Section 3.
(d)	Bidder should have adequate financial capability to execute the contract supported by Bank Certificate. The bidder must have average annual <i>financial turnover during the last 3 years, ending 31st March 2019, should be at least INR 3.40 Crore</i> . The annual turnover amount is to be supported by Annual Audit Report (Balance Sheet & Profit & Loss Account). IN case of non-availability of Audited report for f/y 2018/2019, provisional accounts duly signed by authorized person may be submitted. Details of annual turnover shall be furnished as per Attachment 8A of Section 3.
(e)	Bids of bidders quoting as authorized representative of a manufacturer who meets the above requirements in full, can also be considered, provided the manufacturer furnishes a legally enforceable authorization certificate in the prescribed form at Attachment –3 Section-III, assuming full guarantee and CMOC obligations as per GCC and SCC, for the goods offered; and the bidder meets the conditions mentioned in Clause 2.5.1. (a), (b), (c) and (d) above.
(f)	The bidder should furnish the information on all past supplies and satisfactory performance for both 2.5.1, in “Performance Statement” as per Attachment No. 8 B & 8 C respectively of Section 3 and minimum two (2) no. documentary evidences (client certificates and payment certificates in favor of bidder or manufacturers of equipment) in support of the satisfactory operation and maintenance of similar air monitoring stations, which is in use for last two (2) years.
(g)	The bidder must provide, from the manufacturer, an UNDETAKING FOR SUPPLY OF SPARES AND CONSUMABLES FOR 10 YEARS AFTER 5 YEARS OF OPERATION AND MAINTENANCE through this contract.
(h)	The bidder should have well trained CMOC personnel on its regular rolls as per following details. To establish this, the bidder should enclose the curriculum vitae of such persons with required experience. Please refer Clause 2.0 D of the Section – II (Scope of Works) of this Bid Document for number of such support staffs and their required qualification and experience.
(i)	The bidder shall furnish an undertaking regarding carrying out satisfactory comprehensive CMOC of CAAQMS’s covered in this document as per terms & conditions of the document.

(j)	The successful bidder must have office in West Bengal preferably in Kolkata with all set up and required stock of essential consumables and spares parts so that uninterrupted operation and services are ensured. The successful bidder shall furnish an undertaking (which will be an integral part of the contract) in Stamp Paper of Rs. 10/-or higher regarding the establishment of office-cum-service-center within West Bengal preferably in Kolkata for installation, commissioning and Continuous Operation & Maintenance with all set up and submit documentary evidence in support of this before signing the contract. The bidder shall also ensure availability required stock of essential consumables and Spare parts available to this office for uninterrupted support to the stations.
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2.5.2 Qualifying Requirement for Group – B (Total Number of Stations – 21, see Clause-6, Section-II, Scope of Works)

(a)	<p>The bidder who must have supplied, tested and commissioned and can produce evidence of experience of having successfully completed similar works during last 7 years ending the date of opening of this bid (technical bid) should be either of the following: -</p> <p>1a. One “similar completed work” costing not less than the amount equal to INR 18.0 crore.</p> <p style="text-align: center;">or</p> <p>1b. Two “similar completed works” each costing not less than the amount equal to INR 11.0 crore.</p> <p style="text-align: center;">or</p> <p>1c. Three “similar completed works” each costing not less than the amount equal to INR 9.0 crore.</p> <p>“Similar Completed Works” stands for supplying, testing, commissioning and successful operation and maintenance of similar systems containing at least four analyzers out of the six base analyzers (as identified by items appearing Group-B as mentioned above and same should be in satisfactory operation and maintenance with no adverse report during last one year as on date of this bid opening (technical bid). Further it may be clarified that bidder should submit the experience/completion certificate of offered make/manufacturer only. In other words if the bidder submits experience/completion certificate of one make and offered make/manufacturer are different, the completion certificate shall not be considered and the bid shall be treated as technically non responsive</p>
(b)	The bidder should offer maximum three make/manufacturer for supply of 7 different analysers including calibrator.
(c)	For all the items not manufactured by the Bidder / his principal (if bidder is an authorized representative) i.e. Analyzers, Monitors, Calibrators and Sensors, the bidders should be authorized by the manufacturers for these items as per the format “Form of letter of authorities” provided as Attachment 3 of Section 3.
(d)	Bidder should have adequate financial capability to execute the contract supported by Bank Certificate. The bidder must have average annual <i>financial turnover during the last 3 years, ending 31st March 2019, should be at least INR 6.8 Crore</i> . The annual turnover amount is to be supported by Annual Audit Report (Balance Sheet & Profit & Loss Account). IN case of non-availability of Audited report for f/y 2018/2019, provisional accounts duly signed by authorized person may be submitted. Details of annual turnover shall be furnished as per Attachment 8A of Section 3.
(e)	Bids of bidders quoting as authorized representative of a manufacturer who meets the above requirements in full, can also be considered, provided the manufacturer furnishes a legally enforceable authorization certificate in the prescribed form at Attachment –3

	Section-III, assuming full guarantee and CMOC obligations as per GCC and SCC, for the goods offered; and the bidder meets the conditions mentioned in Clause 2.5.2. (a), (b), (c) and (d) above.
(f)	The bidder should furnish the information on all past supplies and satisfactory performance for both 2.5.1, in “Performance Statement” as per Attachment No. 8 B & 8 C respectively of Section 3 and minimum two (2) no. documentary evidences (client certificates and payment certificates in favor of bidder or manufacturers of equipment) in support of the satisfactory operation and maintenance of similar air monitoring stations, which is in use for last two (2) years.
(g)	The bidder must provide, from the manufacturer, an UNDETAKING FOR SUPPLY OF SPARES AND CONSUMABLES FOR 10 YEARS AFTER 5 YEARS OF OPERATION AND MAINTENANCE through this contract.
(h)	The bidder should have well trained CMOC personnel on its regular rolls as per following details. To establish this, the bidder should enclose the curriculum vitae of such persons with required experience. Please refer Clause 2.0 D of the Section – II (Scope of Works) of this Bid Document for number of such support staffs and their required qualification and experience.
(i)	The bidder shall furnish an undertaking regarding carrying out satisfactory comprehensive CMOC of CAAQMS’s covered in this document as per terms & conditions of the document.
(j)	The successful bidder must have office in West Bengal preferably in Kolkata with all set up and required stock of essential consumables and spares parts so that uninterrupted operation and services are ensured. The successful bidder shall furnish an undertaking (which will be an integral part of the contract) in Stamp Paper of Rs. 10/-or higher regarding the establishment of office-cum-service-center within West Bengal preferably in Kolkata for installation, commissioning and Continuous Operation & Maintenance with all set up and submit documentary evidence in support of this before signing the contract. The bidder shall also ensure availability required stock of essential consumables and Spare parts available to this office for uninterrupted support to the stations.

2.5.3 Qualifying Requirement for Group – C (Total Number of Stations – 18, see Clause-6, Section-II, Scope of Works)

(a)	<p>The bidder who must have supplied, tested and commissioned and can produce evidence of experience of having successfully completed similar works during last 7 years ending the date of opening of this bid (technical bid) should be either of the following: -</p> <p>1a. One “similar completed work” costing not less than the amount equal to INR 14.5 crore.</p> <p style="text-align: center;">or</p> <p>1b. Two “similar completed works” each costing not less than the amount equal to INR 9.00 crore.</p> <p style="text-align: center;">or</p> <p>1c. Three “similar completed works” each costing not less than the amount equal to INR 7.2 crore.</p> <p>“Similar Completed Works” stands for supplying, testing, commissioning and successful operation and maintenance of similar systems containing at least three analyzers out of the five base analyzers (as identified by items appearing at Group-C as mentioned above and same should be in satisfactory operation and maintenance with no adverse report during last one year as on date of this bid opening (technical bid).</p> <p>Further it may be clarified that bidder should submit the experience/completion certificate of offered make/manufacturer only. In other words if the bidder submits</p>
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	experience/completion certificate of one make and offered make/manufacture are different, the completion certificate shall not be considered and the bid shall be treated as technically non responsive
(b)	The bidder should offer maximum two make/manufacture for supply of 6 different analysers including calibrator.
(c)	For all the items not manufactured by the Bidder / his principal (if bidder is an authorized representative) i.e. Analyzers, Monitors, Calibrators and Sensors, the bidders should be authorized by the manufacturers for these items as per the format “Form of letter of authorities” provided as Attachment 3 of Section 3.
(d)	Bidder should have adequate financial capability to execute the contract supported by Bank Certificate. The bidder must have average annual <i>financial turnover during the last 3 years, ending 31st March 2019, should be at least INR 5.40 Crore</i> . The annual turnover amount is to be supported by Annual Audit Report (Balance Sheet & Profit & Loss Account). IN case of non-availability of Audited report for f/y 2018/2019, provisional accounts duly signed by authorized person may be submitted. Details of annual turnover shall be furnished as per Attachment 8A of Section 3.
(e)	Bids of bidders quoting as authorized representative of a manufacturer who meets the above requirements in full, can also be considered, provided the manufacturer furnishes a legally enforceable authorization certificate in the prescribed form at Attachment –3 Section-III, assuming full guarantee and CMOC obligations as per GCC and SCC, for the goods offered; and the bidder meets the conditions mentioned in Clause 2.5.3. (a), (b), (c) and (d) above.
(f)	The bidder should furnish the information on all past supplies and satisfactory performance for both 2.5.1, in “Performance Statement” as per Attachment No. 8 B & 8 C respectively of Section 3 and minimum two (2) no. documentary evidences (client certificates and payment certificates in favor of bidder or manufacturers of equipment) in support of the satisfactory operation and maintenance of similar air monitoring stations, which is in use for last two (2) years.
(g)	The bidder must provide, from the manufacturer, an UNDETAKING FOR SUPPLY OF SPARES AND CONSUMABLES FOR 10 YEARS AFTER 5 YEARS OF OPERATION AND MAINTENANCE through this contract.
(h)	The bidder should have well trained CMOC personnel on its regular rolls as per following details. To establish this, the bidder should enclose the curriculum vitae of such persons with required experience. Please refer Clause 2.0 D of the Section – II (Scope of Works) of this Bid Document for number of such support staffs and their required qualification and experience.
(i)	The bidder shall furnish an undertaking regarding carrying out satisfactory comprehensive CMOC of CAAQMS’s covered in this document as per terms & conditions of the document.
(j)	The successful bidder must have office in West Bengal preferably in Kolkata with all set up and required stock of essential consumables and spares parts so that uninterrupted operation and services are ensured. The successful bidder shall furnish an undertaking (which will be an integral part of the contract) in Stamp Paper of Rs. 10/-or higher regarding the establishment of office-cum-service-center within West Bengal preferably in Kolkata for installation, commissioning and Continuous Operation & Maintenance with all set up and submit documentary evidence in support of this before signing the contract. The bidder shall also ensure availability required stock of essential consumables and Spare parts available to this office for uninterrupted support to the stations.

2.5.4 Qualifying Requirement for Group – D (Total Number of Stations – 10, see Clause-6, Section-II, Scope of Works)

(a)	<p>The bidder who must have supplied, tested and commissioned and can produce evidence of experience of having successfully completed similar works during last 7 years ending the date of opening of this bid (technical bid) should be either of the following: -</p> <p>1a. One “similar completed work” costing not less than the amount equal to INR 7.50 crore.</p> <p style="text-align: center;">or</p> <p>1b. Two “similar completed works” each costing not less than the amount equal to INR 4.70 crore.</p> <p style="text-align: center;">or</p> <p>1c. Three “similar completed works” each costing not less than the amount equal to INR 3.75 crore.</p> <p>“Similar Completed Works” stands for supplying, testing, commissioning and successful operation and maintenance of similar systems containing at least three analyzers out of the four base analyzers (as identified by items appearing at Group-D as mentioned above and same should be in satisfactory operation and maintenance with no adverse report during last one year as on date of this bid opening (technical bid).</p> <p>Further it may be clarified that bidder should submit the experience/completion certificate of offered make/manufacturer only. In other words if the bidder submits experience/completion certificate of one make and offered make/manufacture are different, the completion certificate shall not be considered and the bid shall be treated as technically non responsive</p>
(b)	<p>The bidder should offer maximum two make/manufacturer for supply of 5 different analysers including calibrator.</p>
(c)	<p>For all the items not manufactured by the Bidder / his principal (if bidder is an authorized representative) i.e. Analyzers, Monitors, Calibrators and Sensors, the bidders should be authorized by the manufacturers for these items as per the format “Form of letter of authorities” provided as Attachment 3 of Section 3.</p>
(d)	<p>Bidder should have adequate financial capability to execute the contract supported by Bank Certificate. The bidder must have average annual <i>financial turnover during the last 3 years, ending 31st March 2019, should be at least INR 2.80 Crore</i>. The annual turnover amount is to be supported by Annual Audit Report (Balance Sheet & Profit & Loss Account). IN case of non-availability of Audited report for f/y 2018/2019, provisional accounts duly signed by authorized person may be submitted. Details of annual turnover shall be furnished as per Attachment 8A of Section 3.</p>
(e)	<p>Bids of bidders quoting as authorized representative of a manufacturer who meets the above requirements in full, can also be considered, provided the manufacturer furnishes a legally enforceable authorization certificate in the prescribed form at Attachment –3 Section-III, assuming full guarantee and CMOC obligations as per GCC and SCC, for the goods offered; and the bidder meets the conditions mentioned in Clause 2.5.1. (a), (b), (c) and (d) above.</p>
(f)	<p>The bidder should furnish the information on all past supplies and satisfactory performance for both 2.5.1, in “Performance Statement” as per Attachment No. 8 B & 8 C respectively of Section 3 and minimum two (2) no. documentary evidences (client certificates and payment certificates in favor of bidder or manufacturers of equipment) in support of the satisfactory operation and maintenance of similar air monitoring stations, which is in use for last two (2) years.</p>
(g)	<p>The bidder must provide, from the manufacturer, an UNDETAKING FOR SUPPLY OF SPARES</p>

	AND CONSUMABLES FOR 10 YEARS AFTER 5 YEARS OF OPERATION AND MAINTENANCE through this contract.
(h)	The bidder should have well trained CMOC personnel on its regular rolls as per following details. To establish this, the bidder should enclose the curriculum vitae of such persons with required experience. Please refer Clause 2.0 D of the Section – II (Scope of Works) of this Bid Document for number of such support staffs and their required qualification and experience.
(i)	The bidder shall furnish an undertaking regarding carrying out satisfactory comprehensive CMOC of CAAQMS's covered in this document as per terms & conditions of the document.
(j)	The successful bidder must have office in West Bengal preferably in Kolkata with all set up and required stock of essential consumables and spares parts so that uninterrupted operation and services are ensured. The successful bidder shall furnish an undertaking (which will be an integral part of the contract) in Stamp Paper of Rs. 10/-or higher regarding the establishment of office-cum-service-center within West Bengal preferably in Kolkata for installation, commissioning and Continuous Operation & Maintenance with all set up and submit documentary evidence in support of this before signing the contract. The bidder shall also ensure availability required stock of essential consumables and Spare parts available to this office for uninterrupted support to the stations.

Note:-

- a) The bidder's proposal shall positively include the written evidence regarding the experience and qualifications as required above.
- b) The above stated requirements are a minimum and owner reserves the right to request for any additional information and also reserves the right to reject the proposal of any bidder, if in the opinion of the owner the qualification data is incomplete or the bidder is found not qualified to satisfactorily perform the work.
- c) Notwithstanding anything stated above, the Owner reserves the right to assess the Bidder's capability and capacity to perform the contract, should the circumstances warrant such assessment in the overall interest of the Owner.
- d) No of stations may increase or decrease not more than 20%. Proportionate amount shall be changed. No further increase/decrease in price shall be made due to decrease/increase in CAAQMS.
- e) Requirement of above manpower is only to access capability of the CMOC service & support and having no bearing on operation contract or otherwise.

2.5.5 Joint Venture / Consortium Issue

Bids with Joint Ventures (JV) / Consortiums are also acceptable. All partners of the JV / Consortium shall be liable jointly and severally for the execution of the contract in accordance with the contract terms, and a statement to this effect shall be included in the Agreement [in case of a successful bid]. However, the **LEAD PARTNER** will be solely responsible for the overall supply and works and satisfactory performance of the entire assignment. The number of members of JV / Consortium to be limited to three member including **LEAD PARTNER**.

The JV / Consortium shall jointly be bound for the successful performance of the Contract and shall be fully responsible for the works in terms of quality requirements and timelines in performance and in accordance with the Contract. Irrespective of joint responsibility, it is expressly understood that **LEAD PARTNER** will be present at the site of the entire works, through its authorized representative at all times and play lead role in mobilizing resources and execution of the contract.

Each member/partner shall meet the qualification jointly as laid down in qualification requirement. However, for any particular qualification criteria, volume and value cannot be split or shared among the members/partners to achieve the qualification requirement.

One of the partners shall be nominated as being in charge, and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the members/partners;

The bid and, in case of a successful bid, the Agreement, shall be signed so as to be legally binding on all members/partners;

Any member/partner of JV/Consortium shall not permitted to be the member/partner of any other JV/Consortium intending to participate in this tender.

A copy of the JV/Consortium Agreement entered into by the members/partners shall be submitted with the technical bid in Folder "A".

2.6 Bidding Procedure

- (1) The Bidding will take two part bidding procedure Part-1) Techno Commercial Bid and Part-2) Financial Bid through e-tender system.
- (2) Both part of the Bid shall be submitted simultaneously through e-tender system by the designated date specified in Sub-clause 7.2 in this instruction. Techno-Commercial bids (all folders of **5 A & B** of Tender document **IFB**) will be opened and evaluated first. Only the bidders whose Techno-commercial bid is found responsive will be notified by the Board and uploaded the techno commercial evaluation status through e-tender system. Financial Bids (all folders of **6 D1, D2, D3 & D4** of tender documents) of techno- commercially successful bidder(s) will be opened and the date and place to participate in the public opening of the financial bid will also be informed through e-tender system.
- (3) The Techno-commercial Bid shall consist of two (2) Folders i.e. Folder "A", will contain the qualification documents and the Folder "B" will contain technical specifications pursuant to Clause 5 of this Instruction.
- (4) The envelope for the Financial Bid shall consist of documents pursuant to Clause 6 of these Instructions.
- (5) The bidder must quote for complete scope of work in the package. In case the bidder does not quote for complete scope of work, the bid shall be rejected at Techno-commercial evaluation stage.
- (6) The bidder shall bear all costs associated with the preparation and delivery of its bid, and purchaser will in no case be responsible or liable for those costs.

3. BIDDING DOCUMENTS

3.1 Bidding Documents

Bidding Documents will be available only at Websites: <https://wbtenders.gov.in> or <http://www.wbpcb.gov.in/tenders>. **Eligible Bidders can be downloaded a complete set of bidding documents.**

3.2 DELETED

3.3 Check of the Bidding Documents

The Bidder shall check the number of pages and drawings and notify the Board of any missing or duplicate pages and drawings or of any figures or words, which may be indistinct or ambiguous. No claim will be admitted as result of the Bidder's failure to comply with the foregoing. The address for the contact is specified in Sub-clause 3.5 of this Instruction.

3.4 Contents of Bidding Documents

(1) The Bidding Documents include:

Volume I: Invitation for Bids

Section I	Instruction to Bidders
Section II	Scope of Works
Section III	Form of Techno-commercial Bid
Section IV	Form of Financial Bid
Section V	General Conditions of Contract
Section VI	Special Conditions of Contract

Volume II: Technical Specifications

(2) Bidders must acquaint themselves with all the Bidding Documents embodied in Volume I and II. In order to familiarize with the Works, the Bidders should ascertain all particulars regarding the location and site conditions at their own expenses. No plea attributed to lack of information or insufficient information will be entertained at any time.

The Board shall reserve the right and privilege to settle the affairs in case any doubt may occur concerning the Bidding Documents.

3.5 Clarification of Bidding Documents

(1) If a prospective Bidder has any doubt as to the meaning of any part of the Bidding Document, he may notify the Board for supplementary information and explanation in writing or facsimile in compliance with Form of Questionnaire of Attachment 1 in Section III at the following address at least three (3) days prior to the date set for pre-bid conference.

Member Secretary
Paribesh Bhawan, 10A, Block LA, Sector – III
Salt Lake, Kolkata - 700106
Ph: 91-33-23351623 (D)/ 23359088(EPABX)
Fax: 91-33-23392813

Verbal clarifications and information given by the Owner / Board or their employee(s) or representative(s) shall not in any way be binding on the Owner.

(2) Pre-Bid Meeting

The bidder or his authorized representative is invited to attend the pre-bid meeting to be held at the office of the Board on the date and time mentioned above. If required the Pre-bid conference will continue on next day.

- a) The purpose of the conference will be to clarify issues regarding the Bidding Document.
- b) The bidder is required to submit questions in writing or by cable to reach the Board's office with a copy to the owner, not later than three days prior to the pre-bid conference.
- c) Record notes of conference including the text of the questions raised and responses given will be transmitted without delay to prospective bidders who have purchased the Bidding Documents. Any modification of the Bidding Document which may become necessary as a result of the pre-bid conference shall be made by the Owner / Board exclusively through an addendum to the bidding documents and not through the record notes of the pre-bid conference.
- d) Non-attendance of the pre-bid conference will not be a cause for disqualification of a bidder.
- e) The bidder shall depute maximum two authorized persons to take part in pre-bid conference.
- f) The bidder is not expected to raise any additional query after pre-bid conference and the Owner/Executor is not obliged to reply any such query.
- g) The pre-bid conference shall be open to any prospective bidders.

(3) Amendment of Bidding Documents

- (1) At any time prior to the deadline for submission of the Bid, the Board, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, may modify the Bidding Documents by amendment.

For amendment in bidding documents or extension of bid submission date, if any, bidders are requested to visit website <https://wbtenders.gov.in> or <http://www.wbpcb.gov.in/tenders> till 30/09/2018 1600 hrs. Board will not publish further any notice in newspapers for such amendment/extension.

The **Owner/Executor** will bear no responsibility or liability arising out of non-receipt of the same in time or otherwise.

- (2) In order to allow prospective Bidders reasonable time in which to take amendment into account in preparing their Bids, the **Board** at its discretion may extend the deadline for submission of the Bid.

4. PREPARATION AND SUBMISSION OF BID

Bid submission to be done through e-tendering procedure(s) detailed in Clause 5 and 6 below.

4.1 Language

The Bid to be prepared by the Bidders, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and **the Board or the Board** shall be written in English. Failure to comply with this may disqualify a bid.

4.3 One Bid per Bidder

Each Bidder shall submit one Bid. A Bidder who submits or participates in more than one Bid will be disqualified.

4.4 Local Representation

- a) Foreign Bidders, if they have in India a local representative/Indian Agent, shall indicate in their bid (Bid Proposal Sheets), the name of such person or firm and also shall furnish the following information in their bid:
- 1) The precise relationship between the Bidder and his Indian Agent.
 - 2) The mutual interest which the Bidder and the Indian Agent have in business of each other.
 - 3) Any payment which the Indian Agent receives in India or abroad from the Bidder whether as a commission for the Contract or as a general retainer fee.
 - 4) Indian Agent's Income Tax Permanent Account Number.
 - 5) Bidder's Income Tax Permanent Account Number,
 - 6) All services to be rendered by the Indian Agent whether of general nature or in relation to the particular contract.
 - 7) All above statements have to be substantiated by authenticated documents from competent authority.
- b) Agent's commission, if any, (to be included in the Bid Price) shall be indicated separately but as a part of Bid Price and the same will be payable only in equivalent Indian Rupees. Indian agent's commission will not be subject to any escalation whatsoever and will be payable at the time of final payment after commissioning & training. To effect such payments, the Indian Agent's commission will be calculated on the basis of exchange rates (BC selling exchange rate established by State Bank of India) as on the date of notice of the award to the successful Bidder.
- c) The bidder/Contractor shall not be paid any Indian Agent's Commission, unless declared in the bid.

4.5 Bid Security

- (1) Pursuant to Clause 8 & 9 of IFB, the Bidder shall furnish Bid Security through on line (vide Memorandum No. 3975 – F (Y) dated, 28th July 2016 of the Audit Branch, Finance Department, Govt. of West Bengal. For details procedure a copy of the said Memorandum is attached as a part of the tender document as part of its Bid.
- (3) The Bid Security shall be submitted through on line (vide Memorandum No. 3975 – F(Y) dated, 28th July 2016 of the Audit Branch, Finance Department, Govt. of West Bengal. For details procedure a copy of the said Memorandum is attached as a part of the tender document.
- (5) The Bid Security may be forfeited:
 - a) If a Bidder withdraws / modifies its Bid during the period the Bid validity specified in Sub-clause 4.6 hereunder;
 - b) If a bidder refuses to accept the arithmetical corrections made according to ITB (Instructions to the Bidder) Clause No. 11;

- c) In case of a successful Bidder, if the Bidder fails to sign the Contract in accordance with Sub-clause 13.3 in this Instructions and to furnish Performance Security in accordance with Clause 14 in this Instructions;
- d) In case bidder refuses to withdraw, without any cost to the Owner, those deviations, which the bidder did not state in the Deviation Schedules.

(6) No interest will be payable by the Owner on the above Bid Security.

4.6 Validity of Bid

The bid shall remain valid and binding on the Bidder for one hundred twenty (120) days from the final time and date for submission of the Bid. Bid validity for a shorter period shall be rejected by the Board as non-responsive.

In exceptional circumstances, the Board may in writing or by facsimile, solicit the Bidder's consent to an extension of the period of the Bid validity. If the Bidder agrees to the request for extension, the Bid Security shall also be extended for an equivalent period of time.

Any Bidder may refuse to extend the validity of his Bid without forfeiting his Bid Security, but the Bid will not be considered.

Bidders granting the requests for extension of the Bid validity will not be required or permitted to modify their Bids.

4.7 Modification and Withdrawal of Bid

- a) The Bidder may modify or withdraw its Bid after the Bid's submission; prior to the deadline prescribed for submission of Bids.
- b) No Bid shall be allowed to be modified subsequent to the deadline for submission of Bids.
- c) No bid shall be allowed to be withdrawn in the interval between the deadline for submission of Bids and the expiration of the period of bid validity specified in the clause 4.6 above. Withdrawal during this period may result in the forfeiture of the bid security pursuant to clause 4.5 (5)(a).

4.8 Rejection of Bid

Failure by the Bidder to comply with the provisions of these Instructions to Bidders or any part of the Bidding Documents may result in rejection of the Bid and forfeiture of the Bid Security.

The Board reserves the right to accept or reject any or all Bids or to annul the Bidding process at any time prior to award of the Contract without thereby incurring any liability to the affected

Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Board's action.

The Board also reserves to itself the right of accepting the whole or any part of the Bid and the Bidder shall be bound to perform the same at the rate quoted.

4.9 Contacting the Board

Except for responses to request for clarification of the Bid by the Board, the Bidder shall not contact the Board for any matter related to this Bid from the time of submission of the Bid until the Contract is awarded.

Any efforts by the Bidder to influence the Board in his/her decision in respect of evaluation of the Bid or award of the Contract shall result in the rejection of the Bid and forfeiture of the Bid Security.

5. PREPARATION OF TECHNO-COMMERCIAL BID (Part-1)

5.1 Contents of Folder "A", Qualification Documents

Following documents shall be submitted in "A" for qualification documents.

1. The Power of Attorney authorizing the signatory of the Bid to commit the Bidder.
2. Attachments in support of meeting qualifying requirements as per Clause No. 2.5 for the quoted packages (Attachments 8A, 8B & 9 of Section-III).
3. Certificate of letter of authority from manufacturers for all the Equipment (Attachment 3 of Section III).
4. Certificate of Supply of Spares and Consumables from manufacturers (Attachment 3A of Section-III).
5. Certificate from manufacturer stating the country of origin of each Equipment duly authenticated by competent authority of that country (Attachment 4 of Section III).
6. DELETED
7. List of Equipment offered (Attachment 6 of Section III).
8. List of Manufacturers of the equipment offered (Attachment 7 of Section III).
9. Pre-requisites for installation of equipment offered (Attachment 11 of Section III)

5.2 Contents of Folder "B": Techno-Commercial bid including Technical Specifications and Catalogues

The following documents shall be submitted in "B" for Technical Specifications and Catalogues.

- 1) **UNPRICED** Attachments 1 & 2 of Financial Bid, Section IV.
- 2) Deviation Schedule (Attachment 12 of Technical Bid, Section – III).
- 3) Technical Data sheets of the Equipment in the package (Annexure-I, Vol. II) offered:

- a) In case that there is no deviation from the Board's requirement, the Bidder must write down "complied" in the column for "Bidder's Response" and it is not necessary to rewrite the same words of the requirements.
- b) In case of any deviation from the requirement the Bidder must write down the "not complied" & the deviation in the blanks under "Bidder's Response".
- c) The Bidder shall clearly indicate contents and quantities of standard accessories for the proposed Equipment in the blanks.
- d) The Bidder shall understand that decision of the Board will be binding in regards of anything not specifically mentioned in the technical specification.
- e) The Bidders shall offer only one manufacturer, one brand and one model.
- f) Complete set of original catalogues and/or photographs and/or pamphlets illustrating principal feature.

Documents to be submitted in Techno & Commercial Bid (Part-I):-

Techno- Commercial Bid Packet		
Corr. Cl.	Folder	Documents to be uploaded by the Bidder
5.4	Folder " A "	<ul style="list-style-type: none"> • The Power of Attorney authorizing the signatory of the Bid. • Financial Capability of Bidder (for a period of last three years), Attachment – 8A in Section-III. • Performance Statement for Manufacturer (for a period of last five years), Attachment – 8B in Section-III. • Performance Statement for Authorized Representative of the Manufacturer (for a period of last five years), Attachment – 8C in Section-III. • Certificate of letter of Authority from Manufacturers for all the Equipment. Attachment –3 in Section - III. • Certificate of supply of Spares and Consumables by Manufacturers, Attachment 3A in Section - III. • Certificate from Manufacturer stating the country of origin of each Equipment, Attachment –4 in Section - III • List of Equipment Offered, Attachment –6 in Section-III. • List of Manufacturers of the Equipment offered, Attachment –7 in Section - III. • Pre-requisites for installation of Equipment offered, Attachment –11 in Section - III. • Joint Venture / Consortium documents
5.2	Folder "B "	<ul style="list-style-type: none"> • UNPRICED Attachments 1 & 3 of Financial Bid i.e. Bid Form and BID PRICE BREAKUP FOR EQUIPMENT in Section IV. • Deviation Schedule attachment 12 of Technical Bid, Section- III. • Technical Data Sheets of the Equipment in the Package Attachment I of Section II.

6. PREPARATION OF FINANCIAL BID (Part-2)

6.1 Preparation of Financial Bid

The Bidder shall enter a price or rate against all the forms specified in the following Sub-clauses from 6.2 to 6.5 and Attachments in Section IV. All required documents regarding exemption of customs duty shall be supplied at the time of award of contract. In case of compulsory statutory taxes and duties, the Board shall pay all at actuals. In other words, the bidders should not consider any TAX or DUTY in their bid price. Evaluation will be done without considering TAX and DUTY. The bidder shall submit in folder "C" the price offer in the BOQ in EXCEL format.

6.2 Bid Form - Folder D1.

The Bid Price to be quoted by the Bidder shall be prepared on the official letter head of the respective Bidder according to the Attachment 1 "Bid Form" in Section IV without any alteration or change.

The Bid Price shall be quoted for performing the Contract strictly in accordance with the Technical Specifications.

The Bid Price quoted by the Bidder shall be firm during the Bidder's performance of the Contract and not subject to variation on any account.

A Bid Price submitted with an adjustable price will be treated as non-responsive and will be rejected.

6.3 Summary of Bid Price – Folder D2.

Summary of Bid Price shall be prepared and submitted in accordance with the Attachment 2 in Section IV.

The Bidder shall indicate prices for the package in the following manner:

- (i) For the Goods Supplied from Foreign Origin
 1. CIF Price at Port of de-embarkment.
 - a) FOB Price of the Package (for the equipment to be supplied from Foreign Origin)
 - b) Freight for complete Package
 - c) Insurance covering all risks up to Port of de-embarkment
 2. Local Costs
 - a) Port handling and clearance charges.
 - b) Transportation cost from the port of Port of de-embankment to Sites.
 - c) Insurance covering all risks from Port of de-embankment up to handing over.

- d) Installation and commissioning.
- (ii) For the Goods Supplied from India
 - a) The price of the Equipment quoted ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf including all taxes and duties already paid or payable on the components and raw material used in the manufacture or assembly of the Equipment quoted ex-works or ex-factory.
 - b) Price for handling and inland transportation, insurance up to handing over the equipment at Site and other local costs up to delivery of the Equipment to each Site.
 - c) Installation and commissioning charges.
 - d) Price of other incidental cost, if any, clearly specifying the issue.
- (iii) Price of other incidental cost(s) such as Indian Agent's Commission, if any. The Bidder shall specify the same.
- (iv) Cost for CMOC of CAAQMS's for five (5) years including insurance.
- (v) Cost of Training.

The Bidder shall quote the price for the training as indicated in clause 5 of S/W.

Cost of Travel, Boarding & Lodging and local transport cost of training-participants shall be borne by WBPCB.

Note:

Quoted cost of CMOC of a CAAQMS for each year should be minimum 12% and maximum 16% of the cost of supply & installation of the CAAQMS. In case the bidder quotes CMOC cost lower than 12% or higher than 16% of the supply & installation cost, the Owner will adjust the CMOC and supply & installation cost suitably, so as to make the CMOC cost in the range of 12% and 16% of the supply & installation cost, keeping the total quoted cost as unchanged. Yearly CMOC costs may be quoted in ascending order during the entire period of contract i.e. 05 year with the objective to maintain the quality of operation.

- (1) After completion of the contract of supply and initial operation of five years, the CMOC cost for the system shall be enhanced @5% of the CMOC cost of the previous year.
- (2) All taxes on the Equipment if the Contract is awarded, shall be paid extra at actual by Board.
- (3) Service tax, if applicable, shall be paid extra at actual by the Board.

6.4 Bid Price Breakup – Folder D3.

The Bidder shall prepare and submit the Bid Price Breakup (CIF Price or Ex-works price as applicable) for each item of the quoted package(s) in accordance with Attachment 3 in Section IV.

6.5 Bid Price Breakup for CMOC Contract – Folder D4.

The Bidder shall prepare and submit break up of Operation & Maintenance of both the CAAQMS's as per Attachment 3A in Section – IV.

Documents to be submitted in Financial Bid (Part-II):-

Corr. Cl.	Folder	Documents to be uploaded by the Bidder
6.1	Folder "C"	BOQ in Excel format.
6.2	Folder "D1"	Bid Form indicating Bid Price, Attachment 1 in Section-IV.
6.3	Folder "D2"	Summary of Bid Price in Attachment 2 in Section IV.
6.4	Folder "D3"	Bid Price Breakup Attachment 3 in Section-IV.
6.5	Folder "D4"	Bid Price Breakup for CMOC Contract attachment 3A in Section IV.

6.6 Currencies of Bid:

The unit rates and the prices shall be quoted by the bidder separately in maximum three foreign currencies in addition to INR

7. COMPLETION AND SUBMISSION OF BID

7.1 Completion of Bids

7.1.1 Techno-commercial Bid

- (1) The Techno-commercial Bid shall not contain any information regarding Bid Prices and other financial matters except the Bid Document Fees and Bid Security pursuant to Clause 5 in this instruction.
- (2) Techno-commercial Bid shall consist of two (2) folders. The first folder will contain the qualification documents and the second folder will contain technical specifications pursuant to Clause 5 of this Instruction.

7.1.2 Financial Bid

7.1.3 Others

- (1) Any interlineations, erasures or over-writing shall be valid only if they are initialed by the person or persons signing the bid with official stamp. A list of such occurrences are to be brought out in separate sheet including Section number, Clause number and Page number and submitted along with respective envelope of Techno-commercial and/or financial bid.
- (2) The Bid shall be signed by the Bidder himself or for and on behalf of the Bidder by an officer or officers with Power of Attorney as the case may be. A notarized copy of such Power of Attorney shall be submitted with the Bid pursuant to Clause 5 in this Instruction.

7.2 Submission of Bid

All the documents for the Techno-commercial Bid and Financial Bid shall be submitted through e-tender system. Original Bank Guarantee shall be submitted to the address as follows:-
Member Secretary

West Bengal Pollution Control Board
Paribesh Bhawan, 10A, Block LA, Sector – III
Salt Lake, Kolkata - 700106
Ph: 91-33-23351623 (D)/ 23359088(EPABX)
Fax: 91-33-23392813

The original Bank Guarantee received after the specified time and date for whatever reason shall be declared “Late” and rejected and returned unopened to the bidder.

8. OPENING AND EVALUATION OF TECHNO-COMMERCIAL BID

8.1 Opening of Techno-commercial Bid

Only the Techno-commercial Bid will be opened on the date for opening of the Bid from e-procurement system.

8.2 Confidentiality of the Process

Information relating to the examination, clarification, evaluation and comparison of Bids and recommendations for the award of the contract shall not be disclosed to bidders or any other person not officially concerned with such process. Confidentiality of the process will be dealt as per the process of e-procurement. Any effort by a bidder to influence the Board's processing of Bids or award decisions may result in the rejection of the Bidder's Bid. The request for clarification and the response shall only be done through e-procurement portal, but no change in the price or substance of the bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by the Board in the evaluation of the bids in accordance with the clause 11.2 of these instructions.

8.3 Clarification of Techno-commercial Bids

To assist the Techno-commercial examination and evaluation of bids, the Board may, at its discretion ask the bidder for a clarification of its Techno-commercial bid. All responses to request for clarification shall only be done through e-procurement portal, and **no change in the price bid shall be sought, offered or permitted.**

8.4 Preliminary Examination

The Board will examine the Techno-commercial Bids to determine whether they are complete, whether the documents have been properly signed and whether the Techno-commercial Bids are generally in order. Any Techno-commercial Bid found to be non-responsive for any reason i.e. non-submission Bid Document Fees, non-conformity of bid security, or not meeting any criteria

pursuant to any clause of ITB etc. will be rejected by the Board. No further Techno-commercial evaluation shall be carried out for such bidders.

Prior to detailed evaluation of Techno-commercial bids, pursuant to clause 8.5, the Board will determine the substantial responsiveness of each Bid to the Bidding Documents including acceptable quality of goods offered pursuant to clause 2.4 & 2.5. A substantially responsive Bid is one, which conforms to all terms and conditions of the Bidding Documents without material deviations, objections, conditionality or reservations. A material deviation, objection, conditionality or reservation is one (i) that affects in any substantial way the scope, quality or performance of the contract; (ii) that limits in any substantial way, inconsistent with bidding documents, the Owner's rights or the successful Bidder's obligations under the Contract; or (iii) whose rectification would unfairly affect the competitive position of other Bidders who are presenting substantially responsive bids.

No deviation, whatsoever, is permitted by the Owner to the provisions relating to the following clauses (important Conditions):

- (a) Bid security (ITB Clause 4.5).
- (b) Resolution of Disputes (GCC clause 38),
- (c) Applicable law (GCC clause 43),
- (d) Taxes & duties (GCC Clause 39),
- (e) Performance security (ITB clause 14 & GCC clause 29),
- (f) Force Majeure (GCC clause 36).

A bid with deviation to any of the above clauses (important Conditions) will be liable to be rejected.

The Owner's determination of bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence. If a bid is not substantially responsive, it will be rejected by the Owner, and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

8.5 Evaluation of Techno-commercial Bid

- (1) The Board will determine the responsiveness of the Techno-commercial Bids for opening of Financial Bid, if the Techno-commercial Bid meets satisfactorily technical specification and any other information, which the Board consider relevant.
- (2) If a Bidder is found not substantially responsive to the technical requirement, the Techno-commercial Bid will be rejected and the subsequent information as to opening of the Financial Bid will not be notified.
- (3) If the Techno-commercial clarifications are required by the Board to any part of the Techno-commercial Bids, the Bidder will be requested to clarify the same through e-procurement portal.

8.6 Evaluation Criteria of Techno-commercial Bid

The Bidder who fulfills the requirement specified under Qualification Requirement (**Clause 2.5**) will be short listed. Under the Qualification Requirement a minimum threshold limit has been set for each parameter like technical experience and financial strength. Bidders not meeting the minimum threshold limit in any of these parameters will not be considered for **detailed techno-commercial evaluation**.

9. NOTIFICATION OF SUCCESSFUL TECHNO-COMMERCIAL BID

After completion of evaluation of Techno-commercial Bid, the Board will notify name of the **successful techno-commercially responsive Bidders through e-procurement portal**.

10. OPENING OF FINANCIAL BID

The financial bids of the Techno-commercially qualified bidders will be opened through e-procurement portal.

11. EXAMINATION OF FINANCIAL BID

11.1 After opening of the Financial Bid, the Board will evaluate and determine the responsive Bidders.

A Financial Bid determined as nonresponsive will be rejected.

The Board may waive any minor informality or non-conformity or irregularity in a Financial Bid which does not constitute a major deviation or reservation provided such waiver does not prejudice or affect the relative ranking of any Bidder.

If there is any discrepancy between words and figures, the amount in words will prevail.

The Financial Bid which is incomplete or conditional will be rejected.

11.2 During examination of Financial Bid any **arithmetical errors** will be corrected as follows:

- a) If there is a discrepancy between the unit price and the total price per item that is obtained by multiplying the unit price and quantity, the unit price shall prevail and total price per item will be corrected. If there is a discrepancy between the Total Amount and the sum of the total price per item, the sum of the total price per item shall prevail and the Total Amount will be corrected accordingly.
- b) The amount stated in the Form of Bid shall be adjusted by the Board in accordance with the above procedure for the correction of errors and, shall be considered as binding upon the bidder. If the bidder does not accept the corrected amount of bid, its bid will be rejected, and the bid security will be forfeited in accordance with clause 4.5 (5).

12. EVALUATION AND COMPARISON OF FINANCIAL BID

12.1 Evaluation Procedure

The Board will evaluate the Bids previously determined to be Techno-commercially responsive pursuant to clause 8.6. The Board reserves the right to reject any bid or bids received at its discretion without assigning any reason whatsoever.

12.2 The purchaser's evaluation of a bid will take into account following factors:

I. Total cost of supply, installation, commissioning and handing over of the equipment required for the CAAQM stations together as below:

- 1) The CIF port of entry price of the equipment to be offered from abroad including price of consumables & spare parts.
- 2) The ex-factory / ex-warehouse / off-the-shelf price of the equipment to be offered from within India (such price include all costs as well as duties and taxes paid or payable on components and raw material incorporated or to be incorporated in the equipment)
- 3) Local costs i.e.
 - a. Cost of port handling and custom clearance,
 - b. Transportation cost from Port of de-embarkment to Sites,
 - c. Insurance from Port of de-embarkment up to handing over and
 - d. Installation and commissioning charges at site.
- 4) Other incidental costs, if any (such as Indian agent's commission).
 - II. Cost of Training.
 - III. Cost compensation for deviations, if any.

NOTE:

- Taxes and duties shall not be considered for the purpose of evaluation.

12.3 The Board will evaluate and compare Bids for each complete package, it means, the total cost of the CAAQM stations for each package.

12.4 The rate of exchange for evaluation

To facilitate evaluation and comparison, the Board will convert all Tender prices to Indian Rupees at the opening exchange rate of Reserve Bank of India, **on the last date of submission of Bid.**

12.5 Clarification on Financial Bid

For the purpose of examination, evaluation and comparison of the Financial Bid, the Board may at his discretion request the Bidder to clarify his Financial Bid through e-procurement portal, but no change in the Bid Price or substance of the Bid will be sought, offered or permitted.

12.6 Cost Compensation for deviations

Deviations specifically declared by the bidders in respective Deviation Schedule (Attachment 12 of Section – III) only will be taken into account for the purpose of evaluation.

In case any of these deviations are not acceptable to the Owner, the Bid shall be rejected.

In case any of the deviations are acceptable to the Owner, the Owner will make its own assessment of the cost of these deviations and consider it for evaluation for the purpose of ensuring fair comparison of bids.

Bidders may note that all deviations / variations and additional conditions etc. found elsewhere in the bid other than those stated in the Deviation Schedules, save those pertaining to any rebates, shall not be given effect to in evaluation and it will be assumed that the bidder complies to all the conditions of Bidding Documents. In case bidder refuses to withdraw, without any cost to the Owner, those deviations, which the bidder did not state in the Deviation Schedules, the bid shall be rejected and the bid security of the bidder may be forfeited

13 AWARD OF CONTRACT

13.1 Award of Contract to Successful Bidder

The Board will award the Contract to the successful Bidder:

1. Whose Bid will be determined to be responsive to this Bidding document and who will be determined by the Board, to be qualified technically, financially and otherwise in respect of such other capabilities, as the Board may deem necessary and appropriate to satisfactory performance of the Contract and
2. Whose Bid will be determined to be lowest evaluated, responsive Bid and is determined to be qualified to satisfactorily perform the contract.
3. The Board reserves the right to reject any bid or bids received at its discretion without assigning any reason whatsoever.
4. The award of the contract will be made after all clearances from the competent authority of the Board.
5. The Board may reduce the number of CAAQM stations after evaluating the financial bid.
6. The places of installation of the stations mentioned in this document are only tentative. Places of actual installation may change and will be finalized during the pre-award meeting with the successful bidder.

13.2 Notification of Award (NOA)

Prior to the expiration of the Bid validity pursuant to Sub-clause 4.6 in this Instructions, the Board will notify the successful Bidder in writing by registered letter or by facsimile to confirm that its Bid has been accepted.

The notification of award will constitute the formation of the Contract.

Upon furnishing the Performance Security by the successful Bidder pursuant to Clause 14, the Bid Security of the unsuccessful bidders will be returned automatically through e-procurement portal.

The Board may issue the Notification of Award separately for (A) The supply, installation, commissioning etc. of the CAAQM stations and (B) The comprehensive CMOC of the supplied items to the successful bidder. It means the NOA may be issued in two separate notifications at separate times within the time frame of validity of the bid. The bidder has to deposit separate CPG (Contract Performance Guaranty, or the Performance Security) and sign separate contract documents for these two separate NOAs.

The Board may issue NOA for Comprehensive Operation and Maintenance for the items supplied for any period from one to five years for which the price is asked.

The Board may issue NOA consisting of number of CAAQM stations with increased or decreased quantities.

13.3 Signing of Contract

Within thirty (30) days of the receipt of notification of award from the Board, the successful Bidder shall sign and date the Contract.

The Contract shall take the form of General and Special Condition attached to Section V, VI and such modifications as may be necessary.

The Bidder shall prepare at his own cost three (3) original and six (6) bound copies of the Contract including the Contract Form attached to the Special Conditions of Contract (Attachment 3 of Section VI) for distribution to the parties concerned.

14. PERFORMANCE SECURITY

Within thirty (30) days of notification of award from the Board, the successful Bidder shall furnish the Performance Security in the form of bank guarantee issued by a reputable bank (as per enclosed list at Attachment – 2, Section VI, SCC) having license to do business in India in accordance with Attachment 2 "Performance Security Form" provided in Special Conditions Contract for an amount equivalent to ten (10) % of the Contract Price.

The Contractor shall ensure that Contract Performance Security remains valid for at least 45 days after the expiry of the Contract period including CMOC period.

Contractor may initially furnish B.G. valid for 24 months, which shall be extended **at least 30 days prior to date of expiry of the Bank Guarantee**, failing which the same shall be encashed by the Owner. This shall be applicable for all the subsequent extensions up to 45 days after the expiry of validity of the Contract.

The abovementioned contract performance guarantee (CPG) shall be released within 45 days of handing over of the entire deliverables to the Board and submission of a fresh CPG amounting 10% of the CMOC price for the first year of operation and maintenance as per Attachment 3A, BID PRICE

BREAKUP FOR CMOC CONTRACT. This fresh CPG will be for a period of one year and will be released within 45 days of submission of another fresh CPG amounting 10% of the CMOC price for the second year of operation and maintenance as per Attachment 3A, BID PRICE BREAKUP FOR CMOC CONTRACT. The CPG cycle will continue in the same conditionalities till the end of five years of CMOC and the last CPG will be released after 45 days of completion of the fifth year successfully.

Failure of the successful Bidder to comply with the requirement of Sub-clause 13.3 or Clause 14 in these Instructions shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security in which event the Board may make the award to the second high ranked Bidder or call for new Bids.

15. EXPENSE OF BID

Under no circumstances will the Board be liable to the Bidder for any expenses, losses or damages whatever incurred in the Bid including but not limited to expenses, losses or damages associated with preparation of the Bid, visits to the Sites and all matters in connection with the Contract negotiations and signing regardless of the conduct or outcome of the bidding process.

16. RESPONSIBILITY FOR INFORMATION SUPPLIED

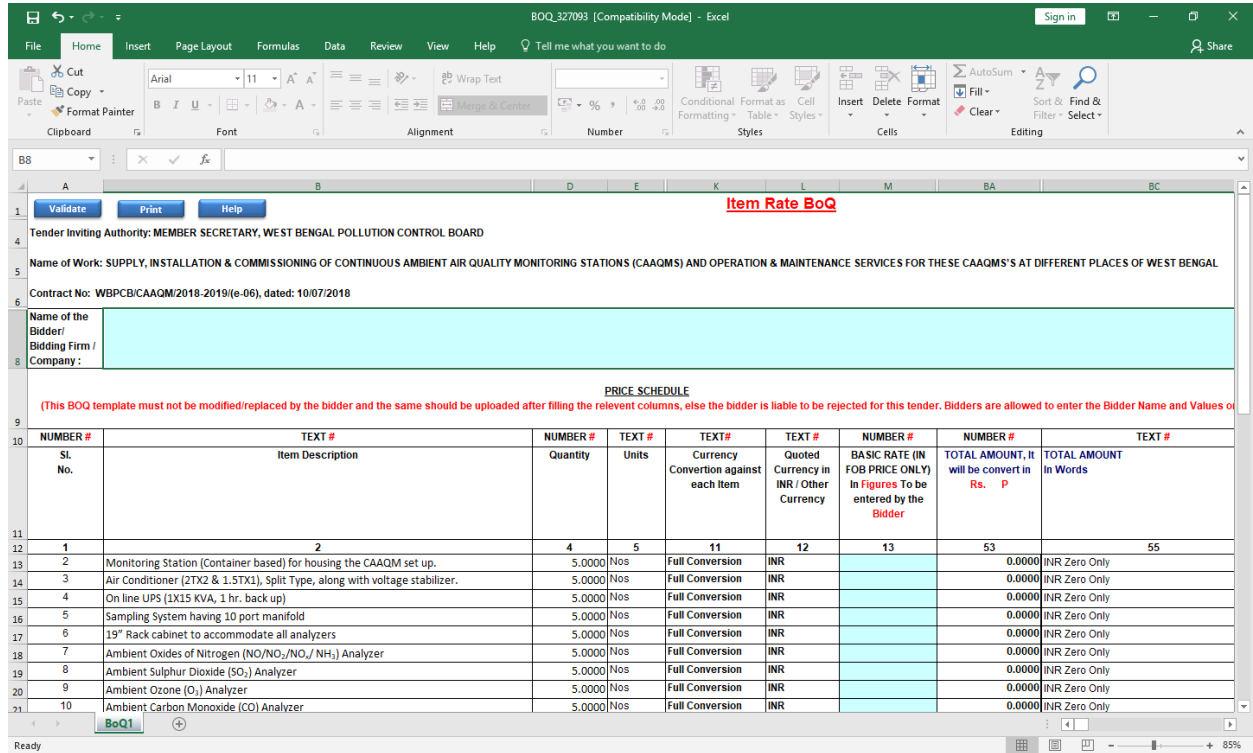
Prior to the final time and date for submission of the Bids, no representation, communication, explanation or statement, verbal or written, made to the Bidder or anyone else by the Bidder or any of their employees or authorized representatives other than as may be set out in amendment issued in accordance with Sub-clause 3.6 in this Instructions shall bind the Bidder in the exercise of their powers and duties under the Contract.

The information given in the Bidding Documents is the best in the possession of the Board, but the Board does not hold himself responsible for its accuracy.

Instruction to Bidders for filling up the BOQ

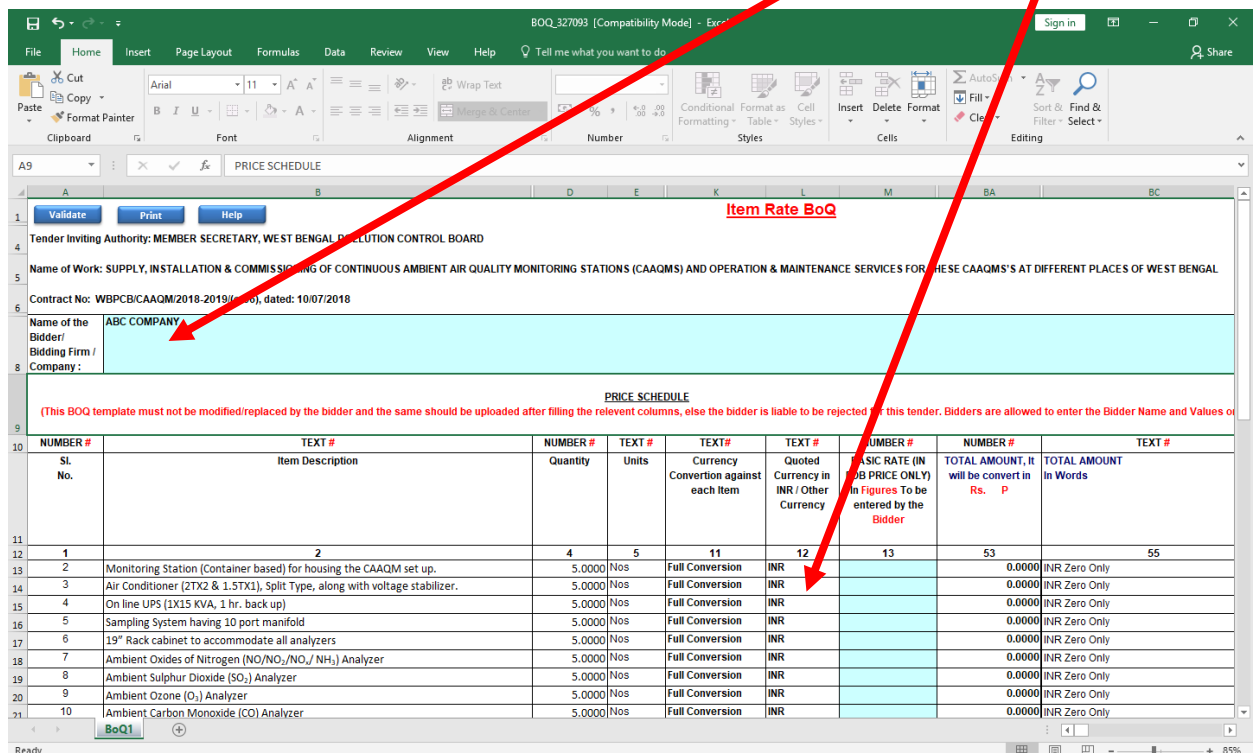
Step 1: Download the BOQ

Step 2: Open the BOQ in Excel format. The BOQ will look like the following. You **cannot** write anywhere other than the blue coloured cells.



Step 3: Fill up the name of the Bidder in Row no. 8 in the Cell marked in **BLUE COLOUR**.

Step 4: Change the currency in which the bidder wants to quote from the drop down button in Column no. 12 for one item (Row no. 13, Sl. No. 2).



BOQ_327093 [Compatibility Mode] - Excel

Tender Inviting Authority: MEMBER SECRETARY, WEST BENGAL POLLUTION CONTROL BOARD

Name of Work: SUPPLY, INSTALLATION & COMMISSIONING OF CONTINUOUS AMBIENT AIR QUALITY MONITORING STATIONS (CAAQMS) AND OPERATION & MAINTENANCE SERVICES FOR THESE CAAQMS'S AT DIFFERENT PLACES OF WEST BENGAL

Contract No: WBPCB/CAAQM/2018-2019(e-06), dated: 10/07/2018

Name of the Bidder/ Bidding Firm / Company: ABC COMPANY

PRICE SCHEDULE
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	TEXT #	NUMBER #	TEXT #	TEXT #	TEXT #	NUMBER #	NUMBER #	TOTAL AMOUNT	TEXT #
SL No.	Item Description	Quantity	Units	Currency Conversion against each item	Quoted Currency in INR / Other Currency	BASIC RATE (IN FOB PRICE ONLY) In Figures To be entered by the Bidder	TOTAL AMOUNT, It will be convert in Rs. P	TOTAL AMOUNT	In Words
1	2	4	5	11	12	13	53	55	
2	Monitoring Station (Container based) for housing the CAAQM set up.	5.0000	Nos	Full Conversion	INR		0.0000	INR Zero Only	
3	Air Conditioner (2TX2 & 1.5TX1), Split Type, along with voltage stabilizer.	5.0000	Nos	Full Conversion	INR		0.0000	INR Zero Only	
4	On line UPS (1X15 KVA, 1 hr. back up)	5.0000	Nos	Full Conversion	INR		0.0000	INR Zero Only	
5	Sampling System having 10 port manifold	5.0000	Nos	Full Conversion	INR		0.0000	INR Zero Only	
6	19" Rack cabinet to accommodate all analyzers	5.0000	Nos	Full Conversion	INR		0.0000	INR Zero Only	
7	Ambient Oxides of Nitrogen (NO/NO ₂ /NO _x /NH ₃) Analyzer	5.0000	Nos	Full Conversion	INR		0.0000	INR Zero Only	
8	Ambient Sulphur Dioxide (SO ₂) Analyzer	5.0000	Nos	Full Conversion	INR		0.0000	INR Zero Only	
9	Ambient Ozone (O ₃) Analyzer	5.0000	Nos	Full Conversion	INR		0.0000	INR Zero Only	
10	Ambient Carbon Monoxide (CO) Analyzer	5.0000	Nos	Full Conversion	INR		0.0000	INR Zero Only	
11	Benzene Monitor / Analyzer	5.0000	Nos	Full Conversion	INR		0.0000	INR Zero Only	

Step 5: Fill up the Basic Rate (in FOB Price only) in figures Column no. 13 in the Cells marked in **BLUE COLOUR** one item (Row no. 13, Sl. No. 2)

BOQ_327093 [Compatibility Mode] - Excel

Tender Inviting Authority: MEMBER SECRETARY, WEST BENGAL POLLUTION CONTROL BOARD

Name of Work: SUPPLY, INSTALLATION & COMMISSIONING OF CONTINUOUS AMBIENT AIR QUALITY MONITORING STATIONS (CAAQMS) AND OPERATION & MAINTENANCE SERVICES FOR THESE CAAQMS'S AT DIFFERENT PLACES OF WEST BENGAL

Contract No: WBPCB/CAAQM/2018-2019(e-06), dated: 10/07/2018

Name of the Bidder/ Bidding Firm / Company: ABC COMPANY

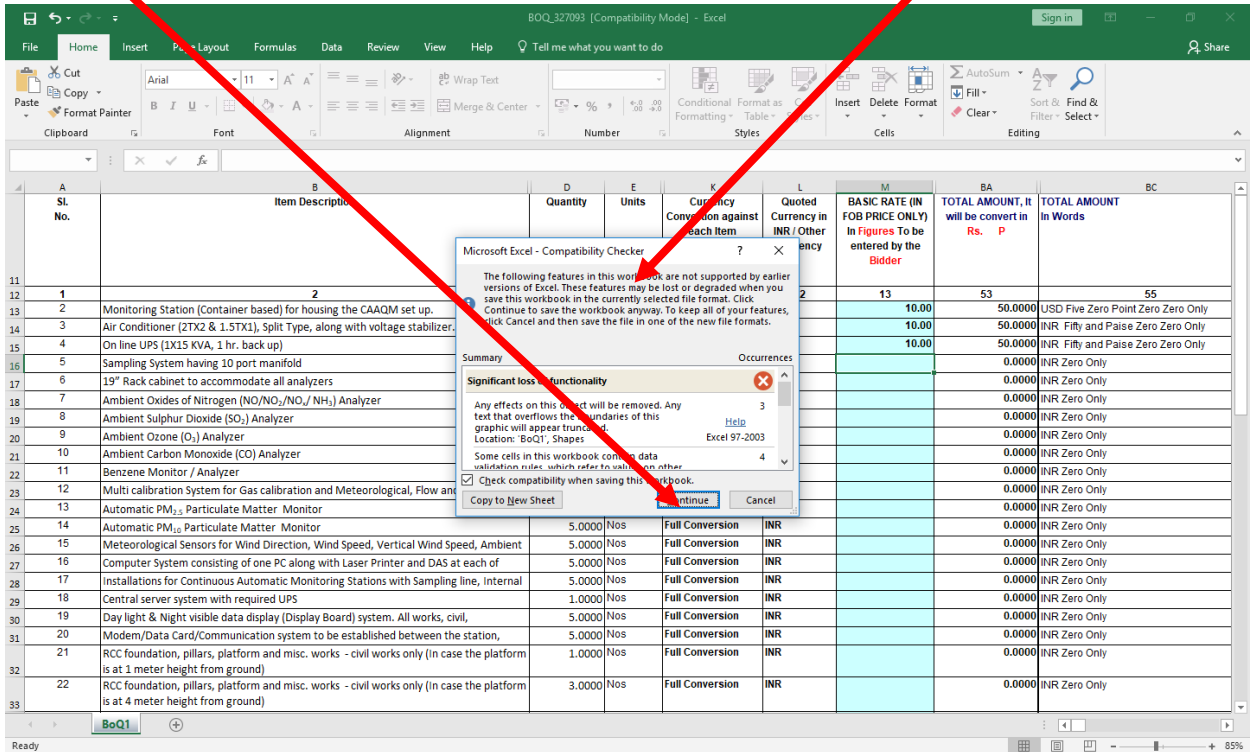
PRICE SCHEDULE
(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

NUMBER #	TEXT #	NUMBER #	TEXT #	TEXT #	TEXT #	NUMBER #	NUMBER #	TOTAL AMOUNT	TEXT #
SL No.	Item Description	Quantity	Units	Currency Conversion against each item	Quoted Currency in INR / Other Currency	BASIC RATE (IN FOB PRICE ONLY) In Figures To be entered by the Bidder	TOTAL AMOUNT, It will be convert in Rs. P	TOTAL AMOUNT	In Words
1	2	4	5	11	12	13	53	55	
2	Monitoring Station (Container based) for housing the CAAQM set up.	5.0000	Nos	Full Conversion	USD	10.00	50.0000	USD Five Zero Point Zero Zero Only	
3	Air Conditioner (2TX2 & 1.5TX1), Split Type, along with voltage stabilizer.	5.0000	Nos	Full Conversion	INR		0.0000	INR Zero Only	
4	On line UPS (1X15 KVA, 1 hr. back up)	5.0000	Nos	Full Conversion	INR		0.0000	INR Zero Only	
5	Sampling System having 10 port manifold	5.0000	Nos	Full Conversion	INR		0.0000	INR Zero Only	
6	19" Rack cabinet to accommodate all analyzers	5.0000	Nos	Full Conversion	INR		0.0000	INR Zero Only	
7	Ambient Oxides of Nitrogen (NO/NO ₂ /NO _x /NH ₃) Analyzer	5.0000	Nos	Full Conversion	INR		0.0000	INR Zero Only	
8	Ambient Sulphur Dioxide (SO ₂) Analyzer	5.0000	Nos	Full Conversion	INR		0.0000	INR Zero Only	
9	Ambient Ozone (O ₃) Analyzer	5.0000	Nos	Full Conversion	INR		0.0000	INR Zero Only	
10	Ambient Carbon Monoxide (CO) Analyzer	5.0000	Nos	Full Conversion	INR		0.0000	INR Zero Only	
11	Benzene Monitor / Analyzer	5.0000	Nos	Full Conversion	INR		0.0000	INR Zero Only	

Rate Entry
Please enter VAT charges in Rupees for this item.

Step 6: Continue the activities in Step 4 and Step 5 for all the items (~~total 40 nos.~~).

Step 7: After completing the entry as in Step 6, save the BOQ Excel file. One POP UP will appear. Click on CONTINUE.



Step 8: Close the BOQ File.

Step 9: Upload the BOQ in the E-Procurement Portal.

VOLUME I

SECTION II

SCOPE OF WORKS

1.0 DETAILS OF PROJECT STRUCTURE

Successful Bidder would be awarded the project under a Supply and CMOC Service Agreement, which would entail

1. Supply, installation and Commissioning of CAAQMS Equipment. Fifty eight (58) numbers of such CAAQM stations are to be supplied at locations detailed at Clause 6.0 in this chapter. Construction and erection of civil foundation for the stationary stations and caging to protect them are within the scope of the works.
2. CMOC of the CAAQMS Equipment for a period of 5 years from the date of its commissioning including employment of required CMOC personnel.
3. Daily reporting and transfer of data on line pertaining to Ambient Air Quality to WBPCB at Kolkata & CPCB (Central Pollution Control Board) at Delhi and the Display Boards at the time of installation of the CAAQM systems.
4. Number of CAAQM stations mentioned above may change depending on the situation of the time of awarding this contract to the successful bidder. However, such change in number will not be more than 20%. No further increase/decrease in price shall be made due to 20% decrease/increase in CAAQMS station number either on the higher or lower side.

WBPCB would make upfront payment for CAAQMS equipment on Supply, Installation and Commissioning of all the systems. WBPCB would procure all the CAAQMS equipment on its name. WBPCB would make regular payments for the supply of Data at the end of each Quarter. The bidders therefore need to quote two prices viz. for Supply Installation and Commissioning of the Systems and for CMOC job and reporting of data to WBPCB. The price for the data supply would include the CMOC cost.

WBPCB / UD Department would provide land free from all encumbrances for installation of monitoring stations free of cost, in each of the places to the Successful Bidder. Along with the land, WBPCB / UD Department would provide basic amenities like approach, telephone and electricity connections at the proposed location. WBPCB / UD Department would bear the initial installation cost for these facilities and the monthly/recurring cost pertaining to their usage (monthly telephone and electricity bill) would be paid by the bidder and will be reimbursed by the Board with the payment.

All the CAAQM stations are to be integrated through telephone/mobile modems to the existing CAAQM central server located in Central Laboratory of WBPCB in Kolkata. The bidder shall agree to transfer such data on line to the data bank server of the WBPCB every 15 minutes in flat file, ftp or other formats as required to allow the Board to insert the data into its own server. All information regarding the database, data structure, ER diagram, data migration design, and access passwords for making this data availability smoothly has to be handed over to the Board.

In addition to installation of the CAAQM stations the bidder is to install data display boards at a suitable position(s) within a distance of 100 meters from the place of the CAAQM station(s). The Board / UD Department shall arrange all required permissions for installations of such display board and shall make access for the CMOC personnel to the display board for purpose of maintenance/cleaning as and when required during the material time of the contract.

2.0 SCOPE OF SERVICES

The equipment's are to be quoted as single package. The Scope of Works under the package shall include:

- A) The supply is including packing, transportation, insurance, custom clearance, port clearance and handling, inland transportation, inland transit insurance and delivery to site, installation, testing and commissioning of equipment and provision of training of WBPCB / UD Department official.
- B) CMOC of Air Monitoring Stations for a period of five (5) years from the date of commissioning of the station, which can be extended up to five (5) years at the mutually agreed rates and terms & conditions.
- C) The State Board at present runs fourteen such continuous ambient air quality monitoring stations. These systems have been running successfully since year 2003. Data generated in the stations through this contract will have to be transferred electronically (modem/dongle) to this server existing at the Central Laboratory of the Board. The Board shall provide all required electronic links / passwords for establishing such data transfer protocol to the existing server.
- D) The bidder shall provide the following manpower for smooth running and performance of the CAAQM system. This manpower shall be exclusively associated with the project and has to attend the stations and other obligations in relation to the functioning of the stations and monitoring vans as and when required by the Board.

	Responsibility	No. of Persons				Minimum Qualification	Experience
		Gr.A	Gr.B	Gr.C	Gr.D		
i)	Team Leader	1	1	1	1	Graduate Engg./ M.Sc.	4 Years
						Diploma (Electronics/C&I /Electrical) / B. Sc.	5 Years
ii)	Asst Team Leader	0	1	1	0	Diploma (Electronics/C&I /Electrical) / B. Sc.	4 Years
iii)	Technician	2	4	4	2	Diploma in Electronics/C&I/Electrical	3 Years
iv)	Data Processor	1	2	2	1	Graduate	2 Years

- E) Reporting of data pertaining to CAAQMS to WBPCB.
- F) On line transfer of data to WBPCB head office and CPCB head office at Delhi.

Other services involved with performance of the Works are specified in General and Special Conditions of Contract of bid document

3.0 MINIMUM SPECIFICATIONS

The minimum technical specification requirements for the CAAQMS to be installed at the locations are provided along with this document. However, the actual technical proposal can have higher or better technical performance parameters and the minimum specifications proposed should not be taken as a constraint on the upper side. The technical specifications given in Volume – II (Technical Specifications) of bid document are descriptive and the Board may consider technical proposals having similar specifications.

4.0 DESIRED OUTPUT FOR CAAQMS EQUIPMENT

The desired output requirements from the CAAQMS Equipment to be installed are given in Attachment 2 to 6 of Scope of work of bid document.

5.0 DATA MANAGEMENT AND QUALITY CHECKS

Data shall be collected and validated according to procedures, standards and methodologies approved by the MOEF / CPCB. All analyzers shall be of latest design and shall have conformities as specified in the detailed specification section in Part II of this bidding document.

Successful Bidder shall submit a Standard Operating Procedure for the air quality monitoring stations to the Board at the time of bid submission. This Standard Operating Procedure shall be approved by the Board prior to award. The Standard Operating Procedure shall contain the following:

- Operating procedures for all analyzers and meteorological sensors
- Calibration procedures
- Calibration schedule
- Maintenance procedures
- Maintenance schedule
- Data validation procedures

Data obtained from these calibration checks and copies of associated Quality Assurance and calibration documentation, shall be submitted to the Board along with the Air Quality Data.

The calibration procedures for analyzers shall conform to US EPA methodologies and shall include, at a minimum, daily calibration checks, bi-weekly precision checks and linearity checks every six weeks. All analyzers shall undergo full calibration every week. Data obtained from these calibration operation exercise, checks and copies of associated Quality Assurance and calibration documentation, shall be submitted to the Board along with the Air Quality Data.

Air Quality Data shall be submitted to the Board on a monthly basis in the form of an Air Quality Report. This report shall include, at a minimum, tabular and graphic information on gas and dust concentrations as well as meteorological data for each site. The data shall be reported in the form of 15 minute averages and shall also include daily, weekly and monthly averages, minimums, maximums, standard deviations, total data captured and percent data captured. This means every channel shall produce 96 records per day. A day's data shall be considered as acceptable if the DCR (Data Capture Rate - % of validated and correctly recorded data per day) for that day remains above 90%. The recording slots consumed on a particular day for calibration purpose shall not be considered as lost data and for maintenance (excepting 10 hours per month for routine maintenance for the entire system taken together, not exceeding four hours per week) or any other purposes shall be considered as lost data for DCR calculation. The Developer however shall specifically mention the required calibration period for each and every analyzer in the SOP and get the same approved by the Board. The Air Quality Report shall also include wind roses where wind speed and direction are measured.

Outliers are “measurements that are extremely large or small relative to the rest of the data and are suspected of misrepresenting the population from which they were collected”. When reviewing data, some potential outliers will be obvious such as, spikes in concentrations, data remaining the same for hours, or a sudden drop in concentration but still in the normal range of observed data. Many of these outlier checks can be automated and provide efficient real-time checks of data. Outliers do not necessarily indicate the data is invalid; they serve to alert the station operator and/or data reviewers there may be a problem. In fact, the rule of thumb for outliers should be that the data be considered valid until there is an explanation for why the data should be invalidated. At some point it may be necessary to exclude outliers from instantaneous reporting, and the bidder shall provide such explanations for data validation during their daily reporting. The strategy of outlier identification shall be an integral part of the related SOP and shall have to be submitted to the Board for approval. Unexplainable outliers shall be identified as “UNACCEPTABLE DATA” and shall not be considered as valid one for DCR calculation.

Upon 24 hour notice in writing, through e-mail or over phone from the Board, once per year, the Contractor shall submit an audit of calibration conducted using pre-approved methodologies. The results of these audits shall be made immediately available to both the Board and the Contractor. The Board shall have the right to perform calibration check, calibration operation and other inspections relating to the performance and maintenance of the station and analyzers upon similar notice at any time during the contract period.

Operator shall participate in Proficiency Testing Exercise organized by the CPCB as and when the programme is launched.

GENERAL GUIDELINES

Working Hours: Appropriately knowledgeable operator should be made available to a station within 24 hours of notice (as mentioned above) at site for explaining the functioning, validation and related technical issues of the CAAQM station(s). Successful Bidder/developer would arrange for a security of the site and equipment through appointment for security agency (providing at least one security guards) throughout the day. Security issue is to be dealt by the successful bidder. The cost of this component is not to be mentioned in finance bid as the requirement will be site specific, and will be taken up at the time of awarding. The cost will be reimbursed at actuals as per the rate of the Government of West Bengal.

Insurance: Successful Bidder would bear the cost of insuring (in favour of the Board as beneficiary) the equipment and facilities against any theft, fire and other applicable provisions during tenure of contract period including CMOC.

6.0 LOCATION

The locations of the Air monitoring stations are provided in the table below. All the stations will be stationary ones. Exact location(s) for installation for all the stations shall be intimated to the successful bidder at the time of award.

District	Location	Number of Stations
Group – A (9 stations)		
Bardhaman	Asansol Municipal Corporation	2
Bardhaman	Durgapur Municipal Corporation	2
Howrah	Howrah Municipal Corporation	3
North 24-Parganas	Baranagar Municipality	1
North 24-Parganas	Barasat Municipality	1
Group – B (21 stations)		
Bardhaman	Bardhaman Municipality	1
Bardhaman	Raniganj Municipality	1
Bardhaman	Jamuria Municipality	1
Darjeeling	Siliguri Municipal Corporation	2
Hooghly	Chandannagar Municipal Corporation	1
Hooghly	Hooghly-Chinsurah Municipality	1
Hooghly	Rishra Municipality	1
Hooghly	Uttarpara Kotrung Municipality	1
Howrah	Uluberia Municipality	1
North 24-Parganas	Barrackpore Municipality	1
North 24-Parganas	Madhyamgram Municipality	1
North 24-Parganas	Naihati Municipality	1
North 24-Parganas	North Barrackpore Municipality	1
North 24-Parganas	North Dum Dum Municipality	1
North 24-Parganas	Panihati Municipality	1
North 24-Parganas	South Dum Dum Municipality	1
North 24-Parganas	Titagarh Municipality	1
North 24-Parganas	Rajarhat-Gopalpore Municipality	1
Paschim Medinipur	Medinipur Municipality	1
Purba Medinipur	Kharagpur Municipality	1
Group – C (18 stations)		
Darjeeling	Darjeeling Municipality	1
Hooghly	Serampore Municipality	1
Nadia	Krishnanagar Municipality	1
Nadia	Nabadwip Municipality	1
Nadia	Santipur Municipality	1
North 24-Parganas	Ashokenagar-Kalyangarh Municipality	1
North 24-Parganas	Bongaon Municipality	1
North 24-Parganas	Bhatpara Municipality	1
North 24-Parganas	Dum Dum Municipality	1
North 24-Parganas	Habra Municipality	1
North 24-Parganas	Halisahar Municipality	1
North 24-Parganas	Kamarhati Municipality	1
North 24-Parganas	Kanchrapara Municipality	1
North 24-Parganas	Khardah Municipality	1
Purulia	Purulia Municipality	1
South 24-Paraganas	Maheshtala Municipality	1

District	Location	Number of Stations
South 24-Paraganas	Rajpur Sonarpore Municipality	1
Bardhaman	Kulti Municipality	1
Group – D (10 stations)		
Bankura	Bankura Municipality	1
Dakshin Dinajpur	Balurghat Municipality	1
Hooghly	Baidyabati Municipality	1
Hooghly	Bansberia Municipality	1
Hooghly	Bhadreswar Municipality	1
Hooghly	Champdani Municipality	1
Jalpaiguri	Jalpaiguri Municipality	1
Malda	English Bazar Municipality	1
Murshidabad	Baharampore Municipality	1
Uttar Dinajpur	Raiganj Municipality	1
TOTAL		58

7.0. SUPPLY OF EQUIPMENT

Attachment - 1 specifies the list of equipment in the package, quantity of equipment to be supplied, delivered and installed at each site.

8.0. INSTALLATION OF EQUIPMENT

- a) All the necessary arrangements and adjustments for suitable installation and operation of the Equipment shall be made by the Bidder.
- b) Following are excluded from contractor's scope:
 1. Permission for Electric Power supply.
 2. Permission for Telephone Connection.
 3. Access to the location of the installation.

These will be arranged by the WBPCB/UD Department.

9.0 INSPECTION AND TEST

9.1 Unpacking Inspection

The Contractor shall inspect at each Site whether all the Equipment are packed in conformity with the Equipment list and packing list without any damage immediately after arrival of the Equipment at each site.

The Contractor shall prepare the unpacking inspection report and submit it to the WBPCB.

9.2 Performance Test

The Contractor shall carry out the performance test for all the Equipment supplied under the scope of work of this document.

In case the Equipment for performance test requires the supplemental and /or supporting Equipment, the Contractor shall carry out the performance test including such Equipment.

10.0. PROVISION OF TRAINING

The Supplier shall provide the training to the Board / UD Department staff at WBPCB for ten (10) days to four (4) persons after the performance test and commissioning. Training should include but not limit to the followings:

- 1) Inspection of the Equipment.
- 2) Precautions in use of the Equipment.
- 3) Basic measurement principle.
- 4) Principles of operation of the Equipment.
- 5) Start-up and shutdown procedure.
- 6) Operation of the Equipment.
- 7) Calibration method.
- 8) QA/QC
- 9) Data management and software application.
- 10) Safety precautions
- 11) Basic maintenance procedure.
- 12) “Do’s” and “Don’ts” in operation of the Equipment.
- 13) Handling of hazardous chemicals and gas.
- 14) Others, which are deemed to be necessary by the Supplier.

In case the Equipment for training requires the supplemental and/or supporting Equipment, the Supplier shall carry out the training including such Equipment.

The Supplier shall discuss and finalize the detailed contents and schedule of the training program in consultation with the Board during installation of the Equipment.

The Supplier shall furnish the training manual and/or CD as required for training for all the Equipment supplied under the scope of work of this document.

Contents of training manual and/or CD for the Equipment are as follows:

1. Principle of the Equipment.
2. Operation and calibration of the Equipment.
3. Maintenance and basic repair of the Equipment.
4. Safety instruction of the Equipment.
5. Others, which are deemed to be necessary by the Supplier.

11.0 OPERATION & MAINTENANCE OF AIR MONITORING STATIONS

11.1 The Contractor’s responsibilities shall include without limitations the following works to be carried out on the Air Monitoring Stations installed under this Contract during the Operation & Maintenance of the stations:

- a) CMOC of all the commissioned equipment and amenities as supplied by the Manufacturer under the Contract including services during forced and planned outages and overhauls.

- b) The Contractor shall take over the entire Air Monitoring Stations (including all equipment) for CMOC after execution of Indemnity Bond as per format placed at Attachment – 13, Section III of bid document.
- c) The Contractor shall provide to the owner a quarterly summary of all operation and maintenance activities performed by the contractor during such month.
- d) CMOC Obligations: In implementing its obligations to operate and maintain the Facility under this Contract, the Contractor shall:
 - i) Undertake comprehensive maintenance including i.e., schedule and breakdown maintenance & repair at site and keep Board Informed regarding status of equipment and forward daily data as per Attachment 3 of Section – II.
 - ii) Obtain permission from the owner and inform the OEM for any assistance for which equipment is required to be sent to works. Contractor shall arrange substitute equipment to keep CAAQM station operational.
 - iii) Take reasonable action to assure that the Personnel deployed at Air Monitoring Stations and any subcontractors and agents are provided with a work place in compliance with Applicable Law.
 - iv) Keep the Air Monitoring Stations clean, well maintained and in good working condition.
 - v) Security: It is the duty of the Contractor to secure the movable, immovable and other properties of the Owner at the Air Monitoring Stations. The Contractor shall indemnify the loss caused to the Owner on account of any damage, loss or theft caused to the property of the Owner.
 - vi) Scheduled Maintenance: Unless Owner and Contractor mutually agree otherwise, perform all required Scheduled Maintenance for all equipment, auxiliaries etc., in accordance with the OEM's specifications.
 - vii) Unscheduled Maintenance: Perform all Unscheduled Maintenance and repairs for all equipment, auxiliaries etc. within [24] hours of the occurrence of the event requiring Unscheduled Maintenance, the operator shall provide the Owner with detailed written information on nature of the repair or replacement to be carried out, estimated down time and other necessary details as required.
 - viii) The Contractor shall source all the spares required for maintenance & repairs of the installed equipment from OEM's only.
- e) The Contractor shall not:
 - i) Make any modifications as to the Air Monitoring Stations, other than in an Emergency, without the prior written approval of the Owner, or
 - ii) Dispose of any assets, settle law-suits or engage in transactions relating thereto on the Owner's behalf without the prior written approval of the Owner.
- f) The Contractor shall purchase spare parts, materials, supplies and other consumable items, and maintain an inventory thereof, for the Air Monitoring Stations. All such material supplied and other items shall be the property of the Contractor However all the spares shall be sourced from OEM's only.
- g) The Contractor shall review all applicable Environmental Laws and initiate and maintain such precaution, procedures and operating plans relating to operation of the Air Monitoring Stations as are necessary to comply therewith or assist the owner in complying therewith as the case may be.

- h) The Contractor shall be operating the equipment as per the laid out standards in the operating manual of the equipment and providing data for ambient air to WBPCB on daily basis in the suggested format.
- i) Individual analyzers of the AAQMS has to be in operation for periods excepting for routine maintenance, a minimum of 350 days in a year, 24 hours a day, and should not be inoperable for more than 3 days at a stretch.
- j) The Contractor shall provide WBPCB with data collected through operation of the equipment on daily basis in suggested output formats given in Attachment 3 to 6 of the bid document. The Contractor shall:
 - i) Establish and maintain a daily and monthly reporting system to provide storage and ready retrieval of operation and maintenance data including such information necessary to verify calculations. The monthly reporting shall contain variances from targets.
 - ii) Provide access to the Owner to the Air Monitoring Stations and its data at all reasonable times.
 - iii) Provide the operational data required to all competent authorities including, Government of India or concerned state governments.
 - iv) Transfer data on-line to WBPCB head office at Kolkata and the CPCB head office at Delhi.
- k) The Contractor shall ensure accuracy of the data provided as per standards.
- l) The contractor shall ensure periodic re-calibration of all the equipment as per manufacturer's instructions and maintain "Protocol Manual Calibration" as per Attachment 2 of Section II.
- m) The Contractor shall be responsible to ensure that the Contract Performance Guarantee amounting to 10% of Total Contract Price is kept valid upto forty five (45) days after the expiry of the CMOC period. Any failure of the Contractor to meet the aforesaid obligation shall result in encashment of the Contract Performance Guarantee by the Owner.

11.2 Owner shall arrange for the following and Contractor shall guide and assist the Owner:

- a) The Owner shall pay CMOC charges at the end of each quarter to the Contractor, in accordance with the payment terms detailed in Special Conditions of Contract.
- b) Owner shall pay all fees including all taxes, etc., imposed upon Owner by the Applicable Law.
- c) The Owner shall identify and hand over the site for erection & commissioning of Air Monitoring Stations free from all encumbrances.
- d) The Owner shall make the arrangement for electricity & telephone connection at the site. However monthly charges for both electricity and phone bill shall be borne by the Contractor.
- e) Owner shall provide space & necessary provisions for installation of the display board.

11.3 Handing Over of Station

On expiry/closure/termination of the Contract Agreement, stations shall be handed over to the Board / UD Department in appropriate working condition to be demonstrated to the Board for a period of at least 3 days at a stretch within one month before the handing over. Few or all the spares procured by the Contractor and unused as on date of handing over may be purchased by the Owner at his discretion provided Contractor is able to provide reasonability of the costs of such spares. **In addition, the Contractor shall provide consumables equivalent to three months consumption on expiry /closure/termination of the Contract Agreement without any extra financial implication.**

11.4 Relocation of Station

During contract period, if Board intend to shift CAAQM station from one location of the city to another location, due to some unavoidable reason - functional or otherwise, Bidder shall shift the CAAQM station for which cost of shifting including dismantling, loading & transportation, reinstallation at new location and construction of foundation will be made by the Board at a mutually agreed cost.

11.5 Penalties

During CMOC period, in case of any system failure, penalty will be charged by the Board @ Rs.1,000/- per day per Analyzer after a grace period of three (3) continuous non-working days. The grace period of three (3) continuous non-working days shall be given only once per quarter (3 months).

Failure due to power outage (for a continuous period of 6 hours or more to be certified by the corresponding power distribution authority) and other Force Majeure conditions shall not be considered for levy of penalty.

Total penalty per year during CMOC period on account of above conditions shall be limited to the monthly CMOC charges payable.

In case penalty in a period of any twelve successive months exceeds 15%, i.e., 15% of the entire CMOC contract value for that year for that station, the Contractor shall be required to replace the defective analyzer(s) or systems with new ones at his own cost, failing which the Board shall have the right to terminate the CMOC contract. Penalty at the rate of Rs. 5000/- per day per station shall be charged for each day of delay of setting the system right after the said 12 months period.

12.0. SCHEDULE

12.1 Contractor shall complete all activities covered in the scope of work up to installation & commissioning of Air Monitoring Stations within 180 days from date of opening of Letter of Credit, pursuant to the clause 6 of SCC (G.C.C. 17) of bid document.

12.2 The contractor shall carry out CMOC of Air Monitoring Stations for a period of five (5) years from the date of commissioning of the station, which can be extended up to five (5) years at the mutually agreed rates and terms & conditions.

Attachment 1: EQUIPMENT LIST

Equipment List

Group – A (Total Number of Stations – 9, for locations, please refer Clause-6 of this section above)		
Sl. No.	Item / Analyzer Name	Total Quantity
1.	Monitoring Station (Container based) for housing the CAAQM set up	9
2.	Air Conditioner (2TX2 & 1.5TX1), Split type	9 set
3.	On line UPS (1X15 KVA, 1 hr. back up)	9
4.	Sampling System having 10 port manifold	9
5.	19" Rack cabinet to accommodate all analyzers	9 set
6.	Ambient Oxides of Nitrogen (NO/NO ₂ /NO _x / NH ₃) Analyzer	9
7.	Ambient Sulphur Dioxide (SO ₂) Analyzer	9
8.	Ambient Ozone (O ₃) Analyzer	9
9.	Ambient Carbon Monoxide (CO) Analyzer	9
10.	Benzene Monitor / Analyzer	9
11.	Multi calibration System for Gas calibration	9
12.	Automatic PM _{2.5} Particulate Matter Monitor	9
13.	Automatic PM ₁₀ Particulate Matter Monitor	9
14.	Meteorological Sensors for Wind Direction, Wind Speed, Vertical Wind Speed, Ambient Temperature, Relative Humidity, Solar Radiation & Barometric Pressure, Rainfall and Telescoping Crank – up Meteorological Tower	9 set
15.	Computer System consisting of one PC along with Laser Printer and DAS at each monitoring station with peripherals and software for data acquisition / display / transfer and systems integration.	9
16.	Installations for Continuous Ambient Air Quality Monitoring Stations with Sampling line, Internal fitting, Instruments racks, Electrical connection from supply within 5 meter of the station and Gas line fittings, Tools (electrical and mechanical)	9 set
17.	Central server system with required UPS	1 set
18.	Day light & Night visible data display (Display Board) system. All works, civil, mechanical, electrical and data connectivity (wired or remote) to be done	9
19.	Modem/Data Card/Communication system to be established between the station, WBPCB head quarter and the CPCB AQI portal.	9 set
20.	RCC foundation, pillars, platform and misc. works - civil works only (In case the platform is at 1 meter height from ground)	1
21.	RCC foundation, pillars, platform and misc. works - civil works only (In case the platform is at 4 meter height from ground)	1
22.	RCC foundation, pillars, platform and misc. works - civil works only (In case the container is to be mounted on a roof top at a height between 3 to 10 meter)	1
<p>If not mentioned specifically otherwise, the bidder must offer maximum three make/manufacturer for supply of 8 different base analyzers including calibrator (identified by Sl. No. 6 to 13 of the equipment list) required by the Scope of Works.</p>		
<p>“RCC foundation, pillars, platform and misc. works - civil works only (In case the container is to be mounted on a roof top at a height between 3 to 10 meter)” means the bidder may be required to construct a room of same dimension of the container on the roof top at such height and all works in relation to such construction is to be assessed in this item.</p>		

Group – B (Total Number of Stations – 21, for locations, please refer Clause-6 of this section above)		
Sl. No.	Item / Analyzer Name	Total Quantity
1.	Monitoring Station (Container based) for housing the CAAQM set up	21
2.	Air Conditioner (2TX2 & 1.5TX1), Split type	21 set
3.	On line UPS (1X15 KVA, 1 hr. back up)	21
4.	Sampling System having 10 port manifold	21
5.	19" Rack cabinet to accommodate all analyzers	21 set
6.	Ambient Oxides of Nitrogen (NO/NO ₂ /NO _x / NH ₃) Analyzer	21
7.	Ambient Sulphur Dioxide (SO ₂) Analyzer	21
8.	Ambient Ozone (O ₃) Analyzer	20
9.	Ambient Carbon Monoxide (CO) Analyzer	21
10.	Multi calibration System for Gas calibration	20
11.	Automatic PM _{2.5} Particulate Matter Monitor	21
12.	Automatic PM ₁₀ Particulate Matter Monitor	21
13.	Meteorological Sensors for Wind Direction, Wind Speed, Vertical Wind Speed, Ambient Temperature, Relative Humidity, Solar Radiation & Barometric Pressure, Rainfall and Telescoping Crank – up Meteorological Tower	21 set
14.	Computer System consisting of one PC along with Laser Printer and DAS at each monitoring station with peripherals and software for data acquisition / display / transfer and systems integration.	21
15.	Installations for Continuous Ambient Air Quality Monitoring Stations with Sampling line, Internal fitting, Instruments racks, Electrical connection from supply within 5 meter of the station and Gas line fittings, Tools (electrical and mechanical)	21 set
16.	Central server system with required UPS	1 set
17.	Day light & Night visible data display (Display Board) system. All works, civil, mechanical, electrical and data connectivity (wired or remote) to be done	21
18.	Modem/Data Card/Communication system to be established between the station, WBPCB head quarter and the CPCB AQI portal.	21 set
19.	RCC foundation, pillars, platform and misc. works - civil works only (In case the platform is at 1 meter height from ground)	1
20.	RCC foundation, pillars, platform and misc. works - civil works only (In case the platform is at 4 meter height from ground)	1
21.	RCC foundation, pillars, platform and misc. works - civil works only (In case the container is to be mounted on a roof top at a height between 3 to 10 meter)	1
<p>If not mentioned specifically otherwise, the bidder must offer maximum three make/manufacturer for supply of 7 different base analyzers including calibrator (identified by Sl. No. 6 to 12 of the equipment list) required by the Scope of Works.</p>		
<p>“RCC foundation, pillars, platform and misc. works - civil works only (In case the container is to be mounted on a roof top at a height between 3 to 10 meter)” means the bidder may be required to construct a room of same dimension of the container on the roof top at such height and all works in relation to such construction is to be assessed in this item.</p>		

Group – C (Total Number of Stations – 18, for locations, please refer Clause-6 of this section above)		
Sl. No.	Item / Analyzer Name	Total Quantity
1.	Monitoring Station (Container based) for housing the CAAQM set up	18
2.	Air Conditioner (2TX2 & 1.5TX1), Split type	18set
3.	On line UPS (1X15 KVA, 1 hr. back up)	18
4.	Sampling System having 10 port manifold	18
5.	19" Rack cabinet to accommodate all analyzers	18set
6.	Ambient Oxides of Nitrogen (NO/NO ₂ /NO _x / NH ₃) Analyzer	18
7.	Ambient Sulphur Dioxide (SO ₂) Analyzer	18
8.	Ambient Ozone (O ₃) Analyzer	17
9.	Multi calibration System for Gas calibration	18
10.	Automatic PM _{2.5} Particulate Matter Monitor	18
11.	Automatic PM ₁₀ Particulate Matter Monitor	18
12.	Meteorological Sensors for Wind Direction, Wind Speed, Vertical Wind Speed, Ambient Temperature, Relative Humidity, Solar Radiation & Barometric Pressure, Rainfall and Telescoping Crank – up Meteorological Tower	18 set
13.	Computer System consisting of one PC along with Laser Printer and DAS at each monitoring station with peripherals and software for data acquisition / display / transfer and systems integration.	18
14.	Installations for Continuous Ambient Air Quality Monitoring Stations with Sampling line, Internal fitting, Instruments racks, Electrical connection from supply within 5 meter of the station and Gas line fittings, Tools (electrical and mechanical)	18 set
15.	Central server system with required UPS	1 set
16.	Day light & Night visible data display (Display Board) system. All works, civil, mechanical, electrical and data connectivity (wired or remote) to be done	18
17.	Modem/Data Card/Communication system to be established between the station, WBPCB head quarter and the CPCB AQI portal.	18 set
18.	RCC foundation, pillars, platform and misc. works - civil works only (In case the platform is at 1 meter height from ground)	1
19.	RCC foundation, pillars, platform and misc. works - civil works only (In case the platform is at 4 meter height from ground)	1
20.	RCC foundation, pillars, platform and misc. works - civil works only (In case the container is to be mounted on a roof top at a height between 3 to 10 meter)	1
<p>If not mentioned specifically otherwise, the bidder must offer maximum three make/manufacturer for supply of 6 different base analyzers including calibrator (identified by Sl. No. 6 to 11 of the equipment list) required by the Scope of Works.</p>		
<p>“RCC foundation, pillars, platform and misc. works - civil works only (In case the container is to be mounted on a roof top at a height between 3 to 10 meter)” means the bidder may be required to construct a room of same dimension of the container on the roof top at such height and all works in relation to such construction is to be assessed in this item.</p>		

Group – D (Total Number of Stations – 10, for locations, please refer Clause-6 of this section above)		
Sl. No.	Item / Analyzer Name	Total Quantity
1.	Monitoring Station (Container based) for housing the CAAQM set up	10
2.	Air Conditioner (2TX2 & 1.5TX1), Split type	10 set
3.	On line UPS (1X15 KVA, 1 hr. back up)	10
4.	Sampling System having 10 port manifold	10
5.	19" Rack cabinet to accommodate all analyzers	10 set
6.	Ambient Oxides of Nitrogen (NO/NO ₂ /NO _x / NH ₃) Analyzer	10
7.	Ambient Sulphur Dioxide (SO ₂) Analyzer	10
8.	Multi calibration System for Gas calibration	10
9.	Automatic PM _{2.5} Particulate Matter Monitor	10
10.	Automatic PM ₁₀ Particulate Matter Monitor	10
11.	Meteorological Sensors for Wind Direction, Wind Speed, Vertical Wind Speed, Ambient Temperature, Relative Humidity, Solar Radiation & Barometric Pressure, Rainfall and Telescoping Crank – up Meteorological Tower	10 set
12.	Computer System consisting of one PC along with Laser Printer and DAS at each monitoring station with peripherals and software for data acquisition / display / transfer and systems integration.	10
13.	Installations for Continuous Ambient Air Quality Monitoring Stations with Sampling line, Internal fitting, Instruments racks, Electrical connection from supply within 5 meter of the station and Gas line fittings, Tools (electrical and mechanical)	10 set
14.	Central server system with required UPS	1 set
15.	Day light & Night visible data display (Display Board) system. All works, civil, mechanical, electrical and data connectivity (wired or remote) to be done	10
16.	Modem/Data Card/Communication system to be established between the station, WBPCB head quarter and the CPCB AQI portal.	10 set
17.	RCC foundation, pillars, platform and misc. works - civil works only (In case the platform is at 1 meter height from ground)	1
18.	RCC foundation, pillars, platform and misc. works - civil works only (In case the platform is at 4 meter height from ground)	1
19.	RCC foundation, pillars, platform and misc. works - civil works only (In case the container is to be mounted on a roof top at a height between 3 to 10 meter)	1
<p>If not mentioned specifically otherwise, the bidder must offer maximum three make/manufacturer for supply of 5 different base analyzers including calibrator (identified by Sl. No. 6 to 10 of the equipment list) required by the Scope of Works.</p>		
<p>“RCC foundation, pillars, platform and misc. works - civil works only (In case the container is to be mounted on a roof top at a height between 3 to 10 meter)” means the bidder may be required to construct a room of same dimension of the container on the roof top at such height and all works in relation to such construction is to be assessed in this item.</p>		

Attachment 2: PROTOCOL OF MANUAL CALIBRATION

PROTOCOL OF MANUAL CALIBRATION

WBPCB/CAAQMSPROTOCOL NO..... DATE.....

NAME OF THE INSTRUMENT	CALIBRATION PARTICULAR				REMARKS
	ZERO	SPAN -1	SPAN – 2	SPAN SOURCE VALUE	
SO ₂ ANALYZER					
NO ANALYZER					
NO ₂ ANALYZER					
NO _x ANALYZER					
NH ₃ ANALYZER					
CO ANALYZER					
O ₃ ANALYZER					
PM 2.5 ANALYZER					
PM 10 ANALYZER					
BENZENE ANALYZER					

VOLUME I

SECTION III

FORMS OF TECHNO-COMMERCIAL BIDS

Attachment 1: FORM OF QUESTIONNAIRE

<Letterhead of the Bidder>

FORM OF QUESTIONNAIRE

BIDDING DOCUMENTS
FOR SUPPLY, INSTALLATION & COMMISSIONING
OF CONTINUOUS AMBIENT AIR QUALITY MONITORING STATIONS (CAAQMS)
AND COMPREHENSIVE MAINTENANCE AND OPERATION CONTRACT SERVICES FOR THESE CAAQMS'S to
WBPCB

Date :

To :

**West Bengal Pollution Control Board
Paribesh Bhawan, 10A, Block LA, Sector – III
Salt Lake, Kolkata - 700106**

From : Name of Bidder
Address
Name of Representative
Position
Fax No.
Email id.
Signature

Question

Attachment 2: DELETED

- DELETED -

Attachment 3: FORM OF LETTER OF AUTHORITY

<Letterhead of the Manufacturer>
FORM OF LETTER OF AUTHORITY

To :
West Bengal Pollution Control Board
Paribesh Bhawan, 10A, Block LA, Sector – III
Salt Lake, Kolkata - 700106

Name of Manufacturer

Subject: Letter of Authority from Manufacturer

Dear Sirs,

We, (Name of Manufacturer), a manufacturer duly organized and existing under the law of (Country Name) with its principal office of business as (Address) hereby make, constitute and appoint (Name of Bidder), a company duly organized and existing under the laws of (Country Name) with its principal office of business at (Address) to be our true and lawful attorney in fact to do the following sets and deeds:

To present and bind us for Supply and CMOC of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) at different places in the State of West Bengal, India, regarding the supply and installation of the following equipment proposed in the bid which we manufacture or produce.

Item No.	Name of Equipment
----------	-------------------

We, as a manufacturer bind ourselves as co-worker of the bid and are jointly and severally responsible for the compliance of the said bid and once (Name of Bidder) has been selected as a successful bidder, we shall manufacture, delivery and install the equipment in accordance with the terms and conditions of contract with (Name of Bidder) and the WEST BENGAL Pollution Control Board.

We hereby give and grant to the said (Name of Bidder) full power and authority to do and perform all and every act and thing whatsoever, requisite necessary and proper to be done in the premises, as fully, to all intents and purposes as we might or could do with full power of submission and renovation hereby ratifying and conforming all that (Name of Bidder) or its duly authorized representative shall lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, we have hereto signed this document on _____ 2019.

ACCEPTED ON _____, 2019

NAME OF BIDDER

NAME OF ISSUING MANUFACTURER

(Name of duly authorized representative to sign and signature)

(Name of duly authorized representative to sign and signature)

(Rank of position and department)

(Rank of position and department)

Attachment 3A: FORM OF CERTIFICATE OF SUPPLY OF SPARES AND CONSUMABLES BY MANUFACTURER

<Letterhead of the Manufacturer>

FORM OF CERTIFICATE OF SUPPLY OF SPARES AND CONSUMABLES BY MANUFACTURER

Date :

To:

West Bengal Pollution Control Board
Paribesh Bhawan, 10A, Block LA, Sector – III
Salt Lake, Kolkata - 700106

Sub. : Certificate of Supply of Consumables and Spare Parts by Manufacturer

This is to certify that we (Name of Manufacturer) shall supply the consumables and spare parts of the equipment mentioned below during CMOC period under the contract (contract detail) to the contractor (Name of the contractor)/Owner.

It is hereby guaranteed that we shall maintain stocks of consumables and spare parts for the following equipment for a period of Ten (10) years after the commissioning of the equipment in India.

Item No.	Name of Equipment	Name of Manufacturer
----------	-------------------	----------------------

Signature:

Name of Person:

Position:

Name of Manufacturer:

Office Seal of Manufacturer:

Legal Address of Manufacturer:

Attachment 4: FORM OF CERTIFICATE OF COUNTRY OF ORIGIN

<Letterhead of the Manufacturer>

FORM OF CERTIFICATE OF COUNTRY OF ORIGIN

To:

**West Bengal Pollution Control Board
Paribesh Bhawan, 10A, Block LA, Sector – III
Salt Lake, Kolkata - 700106**

Name of Manufacturer

Subject: Certificate of Country of Origin

We, (Name of Manufacturer), hereby certify that our equipment for procurement and installation of equipment for WBPCB in the State of West Bengal, India is to be manufactured in the country mentioned below:

Item No.	Name of Equipment	Country of Origin
----------	-------------------	-------------------

Signature

Name of Person

Title

Name of Manufacturer

Legal Address

Countersign of competent authority of the country of origin.

Attachment 5: DELETED

-DELETED-

Attachment 6: FORM OF EQUIPMENT LIST

FORM OF EQUIPMENT LIST

Item No.	Name of Equipment	Proposed Model	Manufacturer	Country of Origin	Technical Catalogue Attached (Yes / No)

Attachment 7: FORM OF MANUFACTURERS LIST

FORM OF MANUFACTURERS LIST

Item No.	Name of Equipment	Name of Manufacturer	Address, Tel , Fax Nos. and Email id.

Attachment 8A: PROFORMA FOR FINANCIAL CAPABILITY OF BIDDER

**PROFORMA FOR FINANCIAL CAPABILITY OF BIDDER
(for a period of last three years)**

Bid No. _____ Package Code _____ Date of Opening _____ Time _____

Name of the Bidder _____

Year	Currency	Turnover
2016 – 2017 financial year		
2017 – 2018 financial year		
2018 – 2019 financial year		
Average		

Note:

1. The annual turnover amount is to be supported by annual report.

Signature of the Authorized Representative
Name of the Person
Position

Attachment 8B: PROFORMA FOR PERFORMANCE STATEMENT FOR MANUFACTURER

PROFORMA FOR PERFORMANCE STATEMENT FOR MANUFACTURER

Bid No. _____ Name of Equipment _____ Date of Opening _____ Time _____
Name of the Manufacturer _____

Order placed by (full address of Purchaser)	Order No. & Date	Description of ordered equipment (Model no.)	Quantity supplied	Value of order	Date of commissioning and handing over	Has the equipment been satisfactory functioning? (Attach minimum two certificates from the Purchaser/Consignee for each equipment)
1	2	3	4	5	6	7

NOTE: Bidder to furnish above detail for each equipment of the quoted package on separate sheet.

Signature of the Authorized Representative
Name of the Person
Position

Attachment 8C: PROFORMA FOR PERFORMANCE STATEMENT FOR AUTHORIZED REPRESENTATIVE OF THE MANUFACTURER

PROFORMA FOR PERFORMANCE STATEMENT FOR AUTHORIZED REPRESENTATIVE OF THE MANUFACTURER

Bid No. _____ Name of Equipment _____ Date of Opening _____ Time _____

Name of the Manufacturer _____

Order placed by (full address of Purchaser)	Order No. & Date	Description of ordered equipment (Model no.)	Quantity supplied	Value of order	Date of commissioning and handing over	Has the equipment been satisfactory functioning? (Attach minimum two certificates from the Purchaser/Consignee for each equipment)
1	2	3	4	5	6	7

NOTE : Bidder to furnish above detail for each equipment of the quoted package on separate sheet.

Signature of the Authorized Representative
Name of the Person
Position

Attachment 9: DELETED

– DELETED –

Attachment 10: FORM OF BANK GUARANTEE FOR BID SECURITY

[The Bank shall fill in this Bank Guarantee Form in accordance with the instructions indicated.]

[Bank's Name, and Address of Issuing Branch or Office]

Beneficiary: _____ *[Name and Address of Purchaser]*

Date: _____

BID GUARANTEE No.: _____

We have been informed that *[name of the Bidder]* (hereinafter called "the Bidder") has submitted to you its bid dated (hereinafter called "the Bid") for the execution of *[name of contract]* under Invitation for Bids No. *[IFB number]* ("the IFB").

Furthermore, we understand that, according to your conditions, bids must be supported by a bid guarantee.

At the request of the Bidder, we *[name of Bank]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *[amount in figures]* (*[amount in words]*) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

- (a) Has withdrawn its Bid during the period of bid validity specified by the Bidder in the Form of Bid; or
- (b) having been notified of the acceptance of its Bid by the Purchaser during the period of bid validity, (i) fails or refuses to execute the Contract Form; or (ii) fails or refuses to furnish the performance security, if required, in accordance with the Instructions to Bidders.

This guarantee will expire: (a) if the Bidder is the successful bidder, upon our receipt of copies of the contract signed by the Bidder and the performance security issued to you upon the instruction of the Bidder; or (b) if the Bidder is not the successful bidder, upon the earlier of (i) our receipt of a copy of your notification to the Bidder of the name of the successful bidder; or (ii) twenty-eight days after the expiration of the Bidder's Bid.

Consequently, any demand for payment under this guarantee must be received by us at the office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 758.

[signature(s)]

Attachment 11: PRE-REQUISITES FOR INSTALLATION OF EQUIPMENT

PRE-REQUISITES FOR INSTALLATION OF EQUIPMENT

To:

**West Bengal Pollution Control Board
Paribesh Bhawan, 10A, Block LA, Sector – III
Salt Lake, Kolkata - 700106**

Dear Sir,

Following are the pre-requisites for installations of the equipment offered by us, which are required to be provided by you prior to installation of the equipment:

Package no. / Item No.	Name of the Equipment	Installation & commissioning pre-requisites*

*** Requirements of Power supply (KW / KVA etc.), power backup, air conditioning, hooding, space, furniture, gas supply etc. to be mentioned by the bidder.**

Signature of the Authorized Representative

Name of the Person

Position

Note:

Continuation sheets, of like size and format, may be used as per Bidder's requirement and shall be annexed to this Schedule.

Attachment 12: DEVIATION SCHEDULE

SUPPLY, INSTALLATION & COMMISSIONING OF CONTINUOUS AMBIENT AIR QUALITY MONITORING STATIONS (CAAQMS) AND CMOC FOR THESE CAAQMS'S WBPCB

(Deviation Schedule)

Bidders Name & Address:

To:

**West Bengal Pollution Control Board
Paribesh Bhawan, 10A, Block LA, Sector – III
Salt Lake, Kolkata - 700106**

Dear Sir,

Subject: Deviation Schedule

We declare that the following are the only and exhaustive deviations, variations from, exceptions and exclusions to the Bidding Documents for Services as outlined in your Technical Specifications for the subject package. Except these deviations, subject to the approval and acceptance by you, the entire work shall be performed as per your specifications and documents. Further, we agree the additional conditions, if any found elsewhere in the offer other than those stated below, save that pertaining to any rebates / discounts offered, shall not be given effect to:

Equipment Code No.	Vol. / Clause Ref. / Page No.	As Specified in the Bid Documents	Deviation and Variations to the Bid document

Date :

(Signature)

Place :

(Printed Name)

(Designation)

(Common Seal)

Note :

- 1) Continuation sheets, of like size and format, may be used as per Bidder's requirement and shall be annexed to this Schedule.
- 2) The deviations and variations, if any, shall be bought out separately for each of the equipment.

Attachment 13: INDEMNITY BOND FOR HANDING OVER

INDEMNITY BOND FOR HANDING OVER AIR MONITORING STATIONS INCLUDING ALL EQUIPMENT TO THE CMOC CONTRACTOR

This Indemnity Bond is made this..... days of.....20..... By a Company registered under the Companies Act, 1956/ Partnership firm / Proprietary concern having its registered office at..... (hereinafter called as “Contractor” or “obligator” which expression shall include its successors and permitted assigns) in favour of **West Bengal Pollution Control Board**, with Office at 10A, Block LA, Sector – III, Kolkata – 700106, INDIA, which term shall include permitted assigns and successors (hereinafter called “WBPCB” which expression shall include its successors and assigns).

Whereas WBPCB has awarded to the Contractor, a contract for CMOC of the _____ Nos. Continuous Ambient Air Monitoring Stations (CAAQMS), located at _____ vide its Letter of Indent /Award Letter/ Contract No. _____ dated _____ and its Amendment No. ____ (applicable when amendments have been issued) (hereinafter called the “Contract”), in the terms of which Contractor shall be responsible for the Equipment to be handed over to it by WBPCB for the purpose of performance of the Contract (hereinafter called the “Equipment”).

Now, therefore this Indemnity Bond witnessed as follows:

1. That in consideration of various Equipment as mentioned in the Contract, valued at Rs. _____ (Rupees _____) to be handed over to the Contractor for the purpose of performance of the Contract, the Contractor hereby undertakes to indemnify and shall keep WBPCB indemnified, for the full value of the Equipment. The Contractor hereby acknowledges receipt of the Equipment as per details in the Schedule appended hereto.
2. That the Contractor is obliged and shall remain absolutely responsible for the safe custody of the Equipment at Continuous Ambient Air Monitoring Stations (CAAQMS) belonging to WBPCB against all risks whatsoever till the Equipment are duly used in accordance with all terms of the Contract. The Contractor undertakes to keep WBPCB harmless against any loss or damage that may be caused to the Equipment.
3. The Contractor undertakes that the Equipment shall be used exclusively for the performance/ execution of the Contract strictly in accordance with its terms and conditions and no part of the Equipment shall be utilised for any other work or purpose whatsoever. 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.
4. That WBPCB is and shall remain the exclusive Owner of the Equipment free from all encumbrances, charges or liens of any kind, whatsoever. The Equipment shall at all times be open to inspection and checking by Person-in-Charge/ WBPCB shall always be free at all time to take possession of the Equipment in whatever from the equipment may be, if in its opinion, the equipment are likely to be endangered, mis-utilised or converted to uses other than those specified in the Contract, by any acts of omission or commission on the part of the Contractor or any other person or on account of any reason whatsoever and the Contractor binds itself and undertakes to comply with the direction or demand of WBPCB to return the Equipment without any demur or reservation.
5. That this Indemnity Bond is irrevocable. If at any time any loss or damage occurs to the Equipment or the same or any part thereof is mis-utilised in any manner whatsoever then the Contractor hereby agrees that the decision of the Person-in-charge of WBPCB as to assessment of loss or damage to the

Equipment shall be final and binding on the Contractor. The Contractor binds itself and undertakes to replace the lost and / or damaged Equipment at its own or remedy that may be available to WBPCB against the Contractor under the Contract and under this Indemnity Bond.

6. Now the condition of this Bond is that if the Contractor shall duly and punctually comply with the terms and conditions of this bond to the satisfaction of WBPCB, then the above bond shall be void, but otherwise, it shall remain in full force and virtue.

In witness whereof, the Contractor has hereunto set its hand through its authorised representative under the common seal of the company, the day month and year first above mentioned.

SCHEDULE NO. 1

Particulars of the Equipment handed over	Quantity	Value of the Equipment	Signature of Attorney in token of receipt

For and of behalf of

M/s.....

Witness I

1. Signature
2. Name
3. Address

Name
Signature
Designation
Authorised representative

Witness II

1. Signature
2. Name
3. Address

(Common Seal)
(In case of Company)

Note: Indemnity Bonds are to be executed by the authorised persons and (i) In case of contracting Company under common seal of the Company or (ii) having the power of attorney issued under common seal of the company with authority to execute Indemnity Bonds, (iii) In case, (ii) the original Power of Attorney if it is specifically for our contract or a photostat copy of the Power of Attorney if it is a General Power of Attorney and such documents should be attached to Indemnity Bond.

VOLUME I

SECTION IV

FORMS OF FINANCIAL BIDS

Attachment 1: BID FORM

<Letterhead of the Bidder>

Date:
Grant no.:-----
Bid No. _____

BID FORM

TO: WEST BENGAL POLLUTION CONTROL BOARD,INDIA

Gentlemen:

1. Having examined the Bidding documents for procurement, installation & commissioning and CMOC of CAAQMS's at different places of West Bengal for WBPCB (herein after referred to as "the Works"), including, but not limited to, the Instructions to Bidders, Scope of Works, General and Special Conditions of Contract, Technical Specifications, Schedules, Attachments, Amendment Nos. we, the undersigned, offer to execute and complete the whole of the works and remedy any defects therein, in conformity with the said Bidding Documents for the sum of International trading currency (in figures.....) for the equipment including all other charges as mentioned in the document, supplied from Foreign Origin and Indian Rupees (INR.....) for the incidental costs incurred in India (if any) as may be ascertained in accordance with the Summary of Bid Price and Bid Price breakup attached herewith and made part of this bid.
2. We undertake, if our Bid is accepted, to complete and deliver the whole of the Works comprised in the Contract within the time specified in the contract, subject to the said conditions.
3. If our Bid is accepted, we will obtain the guarantee of a bank in a sum equivalent to Ten (10) percent of the Contract Price for the due performance of the Contract, in the form prescribed by the Board.
4. We agree to abide by this Bid for a period of One hundred twenty (120) days from the final date of the submission of Bid fixed in sub-clause 4.6 of the Instruction of Bidders, and shall remain bidding upon us and may be accepted at any time before the expiration of that period.
5. Unless and until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof, shall constitute a binding Contract between us.
6. We understand that you are not bound to accept the lowest of any bid you may receive, and that you will not defray any expense incurred by us in bidding.

Date this _____ day of _____.

Signature _____ in the capacity of _____

Duly authorized to sign Bid for and on behalf of _____

(IN BLOCK CAPITAL) _____

Address _____

Facsimile number _____
Telephone Number _____
Email id. _____

WITNESS _____

Address _____
Occupation _____

Supply, Installation, Commissioning and CMOC of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) at different places of West Bengal

Bidding Documents
Section – IV (Forms of Financial Bids)

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Attachment 2: SUMMARY OF BID PRICE

- DELETED -

Attachment 3: BID PRICE BREAKUP FOR EQUIPMENT

**(1) BID PRICE BREAKUP FOR EQUIPMENT
(CIF) PRICE**

GROUP A					
Sl. No.	Item / Analyzer Name	Manufacturer	Country of Origin	Model	Quantity in Nos. / Sets
1.	Monitoring Station (Container based) for housing the CAAQM set up				
2.	Air Conditioner (2TX2 & 1.5TX1), Split type				
3.	On line UPS (1X15 KVA, 1 hr. back up)				
4.	Sampling System having 10 port manifold				
5.	19" Rack cabinet to accommodate all analyzers				
6.	Ambient Oxides of Nitrogen (NO/NO ₂ /NO _x / NH ₃) Analyzer				
7.	Ambient Sulphur Dioxide (SO ₂) Analyzer				
8.	Ambient Ozone (O ₃) Analyzer				
9.	Ambient Carbon Monoxide (CO) Analyzer				
10.	Benzene Monitor / Analyzer				
11.	Multi calibration System for Gas calibration				
12.	Automatic PM _{2.5} Particulate Matter Monitor				
13.	Automatic PM ₁₀ Particulate Matter Monitor				
14.	Meteorological Sensors for Wind Direction, Wind Speed, Vertical Wind Speed, Ambient Temperature, Relative Humidity, Solar Radiation & Barometric Pressure, Rainfall and Telescoping				

GROUP A					
Sl. No.	Item / Analyzer Name	Manufacturer	Country of Origin	Model	Quantity in Nos. / Sets
	Crank – up Meteorological Tower				
15.	Computer System consisting of one PC along with Laser Printer and DAS at each monitoring station with peripherals and software for data acquisition / display / transfer and systems integration.				
16.	Installations for Continuous Ambient Air Quality Monitoring Stations with Sampling line, Internal fitting, Instruments racks, Electrical connection from supply within 5 meter of the station and Gas line fittings, Tools (electrical and mechanical)				
17.	Central server system with required UPS				
18.	Day light & Night visible data display (Display Board) system. All works, civil, mechanical, electrical and data connectivity (wired or remote) to be done				
19.	Modem/Data Card/Communication system to be established between the station, WBPCB head quarter and the CPCB AQI portal.				
20.	RCC foundation, pillars, platform and misc. works - civil works only (In case the platform is at 1 meter height from ground)				
21.	RCC foundation, pillars, platform and misc. works - civil works only (In case the platform is at 4 meter height from ground)				
22.	RCC foundation, pillars, platform and misc. works - civil works only (In case the container is to be mounted on a roof top at a height between 3 to				

GROUP A					
Sl. No.	Item / Analyzer Name	Manufacturer	Country of Origin	Model	Quantity in Nos. / Sets
	10 meter)				

GROUP B					
Sl. No.	Item / Analyzer Name	Manufacturer	Country of Origin	Model	Quantity in Nos. / Sets
1.	Monitoring Station (Container based) for housing the CAAQM set up				
2.	Air Conditioner (2TX2 & 1.5TX1), Split type				
3.	On line UPS (1X15 KVA, 1 hr. back up)				
4.	Sampling System having 10 port manifold				
5.	19" Rack cabinet to accommodate all analyzers				
6.	Ambient Oxides of Nitrogen (NO/NO ₂ /NO _x / NH ₃) Analyzer				
7.	Ambient Sulphur Dioxide (SO ₂) Analyzer				
8.	Ambient Ozone (O ₃) Analyzer				
9.	Ambient Carbon Monoxide (CO) Analyzer				
10.	Multi calibration System for Gas calibration				
11.	Automatic PM _{2.5} Particulate Matter Monitor				
12.	Automatic PM ₁₀ Particulate Matter Monitor				
13.	Meteorological Sensors for Wind Direction, Wind Speed, Vertical Wind Speed, Ambient Temperature, Relative Humidity, Solar Radiation & Barometric Pressure, Rainfall and Telescoping Crank – up Meteorological Tower				
14.	Computer System consisting of one PC along with Laser Printer and DAS at each monitoring station with peripherals and software for data acquisition / display / transfer and systems integration.				
15.	Installations for Continuous Ambient Air Quality Monitoring Stations with Sampling line, Internal				

GROUP B					
Sl. No.	Item / Analyzer Name	Manufacturer	Country of Origin	Model	Quantity in Nos. / Sets
	fitting, Instruments racks, Electrical connection from supply within 5 meter of the station and Gas line fittings, Tools (electrical and mechanical)				
16.	Central server system with required UPS				
17.	Day light & Night visible data display (Display Board) system. All works, civil, mechanical, electrical and data connectivity (wired or remote) to be done				
18.	Modem/Data Card/Communication system to be established between the station, WBPCB head quarter and the CPCB AQI portal.				
19.	RCC foundation, pillars, platform and misc. works - civil works only (In case the platform is at 1 meter height from ground)				
20.	RCC foundation, pillars, platform and misc. works - civil works only (In case the platform is at 4 meter height from ground)				
21.	RCC foundation, pillars, platform and misc. works - civil works only (In case the container is to be mounted on a roof top at a height between 3 to 10 meter)				

GROUP C					
Sl. No.	Item / Analyzer Name	Manufacturer	Country of Origin	Model	Quantity in Nos. / Sets
1.	Monitoring Station (Container based) for housing the CAAQM set up				
2.	Air Conditioner (2TX2 & 1.5TX1), Split type				
3.	On line UPS (1X15 KVA, 1 hr. back up)				
4.	Sampling System having 10 port manifold				
5.	19" Rack cabinet to accommodate all analyzers				
6.	Ambient Oxides of Nitrogen (NO/NO ₂ /NO _x / NH ₃) Analyzer				
7.	Ambient Sulphur Dioxide (SO ₂) Analyzer				
8.	Ambient Ozone (O ₃) Analyzer				
9.	Multi calibration System for Gas calibration				
10.	Automatic PM _{2.5} Particulate Matter Monitor				
11.	Automatic PM ₁₀ Particulate Matter Monitor				
12.	Meteorological Sensors for Wind Direction, Wind Speed, Vertical Wind Speed, Ambient Temperature, Relative Humidity, Solar Radiation & Barometric Pressure, Rainfall and Telescoping Crank – up Meteorological Tower				
13.	Computer System consisting of one PC along with Laser Printer and DAS at each monitoring station with peripherals and software for data acquisition / display / transfer and systems integration.				
14.	Installations for Continuous Ambient Air Quality Monitoring Stations with Sampling line, Internal fitting, Instruments racks, Electrical connection				

GROUP C					
Sl. No.	Item / Analyzer Name	Manufacturer	Country of Origin	Model	Quantity in Nos. / Sets
	from supply within 5 meter of the station and Gas line fittings, Tools (electrical and mechanical)				
15.	Central server system with required UPS				
16.	Day light & Night visible data display (Display Board) system. All works, civil, mechanical, electrical and data connectivity (wired or remote) to be done				
17.	Modem/Data Card/Communication system to be established between the station, WBPCB head quarter and the CPCB AQI portal.				
18.	RCC foundation, pillars, platform and misc. works - civil works only (In case the platform is at 1 meter height from ground)				
19.	RCC foundation, pillars, platform and misc. works - civil works only (In case the platform is at 4 meter height from ground)				
20.	RCC foundation, pillars, platform and misc. works - civil works only (In case the container is to be mounted on a roof top at a height between 3 to 10 meter)				

GROUP D					
Sl. No.	Item / Analyzer Name	Manufacturer	Country of Origin	Model	Quantity in Nos. / Sets
1.	Monitoring Station (Container based) for housing the CAAQM set up				
2.	Air Conditioner (2TX2 & 1.5TX1), Split type				
3.	On line UPS (1X15 KVA, 1 hr. back up)				
4.	Sampling System having 10 port manifold				
5.	19" Rack cabinet to accommodate all analyzers				
6.	Ambient Oxides of Nitrogen (NO/NO ₂ /NO _x / NH ₃) Analyzer				
7.	Ambient Sulphur Dioxide (SO ₂) Analyzer				
8.	Multi calibration System for Gas calibration				
9.	Automatic PM _{2.5} Particulate Matter Monitor				
10.	Automatic PM ₁₀ Particulate Matter Monitor				
11.	Meteorological Sensors for Wind Direction, Wind Speed, Vertical Wind Speed, Ambient Temperature, Relative Humidity, Solar Radiation & Barometric Pressure, Rainfall and Telescoping Crank – up Meteorological Tower				
12.	Computer System consisting of one PC along with Laser Printer and DAS at each monitoring station with peripherals and software for data acquisition / display / transfer and systems integration.				
13.	Installations for Continuous Ambient Air Quality Monitoring Stations with Sampling line, Internal fitting, Instruments racks, Electrical connection from supply within 5 meter of the station and Gas line fittings, Tools (electrical and mechanical)				

GROUP D					
Sl. No.	Item / Analyzer Name	Manufacturer	Country of Origin	Model	Quantity in Nos. / Sets
14.	Central server system with required UPS				
15.	Day light & Night visible data display (Display Board) system. All works, civil, mechanical, electrical and data connectivity (wired or remote) to be done				
16.	Modem/Data Card/Communication system to be established between the station, WBPCB head quarter and the CPCB AQI portal.				
17.	RCC foundation, pillars, platform and misc. works - civil works only (In case the platform is at 1 meter height from ground)				
18.	RCC foundation, pillars, platform and misc. works - civil works only (In case the platform is at 4 meter height from ground)				
19.	RCC foundation, pillars, platform and misc. works - civil works only (In case the container is to be mounted on a roof top at a height between 3 to 10 meter)				

Attachment 3A, BID PRICE BREAKUP FOR CMOC CONTRACT

BID PRICE BREAKUP FOR CMOC OF CAAQMS'S FOR FIVE YEAR

Sl.	Year of CMOC	Service charges for CMOC in Rs.		Cost of material including spares & consumables for CMOC and other incidental expenses		Total Charges for the year in Rs.	
		Unit rate for one station	Total for stations	Unit rate for one station	Total for stations	Unit rate for one station	Total for stations
1	1 st Year						
2	2 nd Year						
3	3 rd Year						
4	4 th Year						
5	5 th Year						

NOTE:

- A. GST SHALL BE PAYABLE ON THE SERVICE PORTION OF CMOC COST ONLY (EXCLUDING SUPPLY OF SPARES FOR MAINTENANCE & OVERHAULING).**
- B. COST OF MATERIAL INCLUDING SPARES & CONSUMABLES FOR CMOC SHALL BE INCLUSIVE OF ALL TAXES & DUTIES.**

VOLUME I

SECTION V

GENERAL CONDITIONS OF CONTRACT

These conditions encompass all the Works to be executed and completed by the Contractor for the Project and as further defined herein.

1. DEFINITION

Unless the context of the General and-Special Conditions of Contract otherwise requires, the following terms wherever in the General and Special Conditions of Contract shall have the meaning defined hereunder.

Words imparting the singular shall also include the plural and vice versa where the context requires. Whether the words and phrases defined in this Clause are capitalized or not in the Contract shall not affect their meaning.

1. "The Project" or "The Works" means supply, installation & commissioning of equipment for Continuous Ambient Air Quality Monitoring Stations (CAAQMS) and CMOC of these CAAQMS's at different locations as specified in this bid.
2. "The Board" means The West Bengal Pollution Control Board.
3. "The Contract" means the written agreement to be concluded between the Board and the Contractor and includes terms and conditions stipulated on the Bidding Documents and any other descriptions annexed thereto which form an integral part of the agreement to be provided by the Board.
4. "The Contract Price" means the price payable to the Contractor under the Contract for the full and proper performance of its contractual obligations for the Works
5. "The Equipment" means all kind of materials. Machinery, components, apparatus, articles and instruments for the Project to be provided by the Contractor to the, Board under the Contract.
6. "GCC" means the General Conditions of Contract contained in this Section.
7. "SCC" means the Special Conditions of Contract in Section VI of this Volume.
8. "S/W" means the Scope of Works in Section II of this Volume.
9. "The Contractor" means the firm supplying the Equipment and performing the Works in connection with the Project under the Contract and includes his personal representatives, successors and authorized assignees.
10. "The Manufacturers" mean the firms, which produce the Equipment to be furnished by the Contractor under the Contract with the Board.
11. "The Specifications" mean the specifications of the Works to be performed by the Contractor in conformity with those specified in both the Technical Specifications of Volume II and all

other related documents in the Bidding Documents, and modifications thereof or additions thereto as may from time to time be made, and approved in writing by the Board through the Board in case prior to the Contract and agreed upon by both the Board and the Contractor after the Contract.

12. "The Sites" means CAAQMS's at different sites within the state of West Bengal as specified in Clause 6 of S/W (Section – II).

2. INTENT OF CONTRACT

- 2.1 The intent and spirit of the Contract is to provide all the details for the Works herein specified to be fully completed within the duration of the Contract.
- 2.2 It is hereby understood that the Contractor, in accepting the Contract, agrees to furnish any and everything necessary for such intent notwithstanding any omission in the Contract.

All matters omitted from the Contract which may reasonably be inferred to be obviously necessary for the efficient and stable completion of the Works shall be deemed to be included in the Contract and the Contractor shall be held responsible for any errors or losses which the Contractor may make due to such omissions as above.

3. PERFORMANCE OF WORKS

Unless otherwise provided for, the Works shall be performed by the Contractor in compliance with S/W, GCC, SCC and the Specifications in this Bidding Documents issued by the Board and Contract to be concluded between the Board and the Contractor.

Unless otherwise agreed or stated. the Contractor shall bear all the cost and take all the responsibilities for the performance of all the Works.

4. USE OF CONTRACT DOCUMENTS AND INFORMATION

- 4.1 The Contractor shall not, without the Board's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Board, Board and their authorized personnel and body in connection therewith, to any person other than a person employed by the Contractor in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- 4.2 The Contractor shall not, without the Board's prior written consent, make use of any documents or information enumerated here above except for purposes of performing the Contract.
- 4.3 Any documents other than the Contract itself, enumerated in here above shall remain the property of the Board and' shall be returned to the Board on completion of the Contractor's performance under the Contract if so required by the Board.

5. LOCATION

The designated area of each Equipment to be delivered by the Contractor are specified in Clause 6 of S/W.

6. LANGUAGE AND CALENDAR

6.1 Language

All documents and correspondence related to the Contract shall be made in English.

6.2 Calendar

All dates, months, years and terms referred in the Contract shall relate with the Gregorian Calendar, unless otherwise mentioned specifically.

7. SITE CONDITION

7.1 Site Condition

The Contractor shall study the existing Site conditions, referring to the Bidding Documents carefully in order to familiarize themselves with the Works. The Contractor should ascertain all particulars of the location and Site conditions at their own expense.

7.2 Access to Site

The Board respective ULB will give the Contractor access to the Sites in order to perform the Works during the period of validity of the Contract unless otherwise provided.

8. COUNTRY OF ORIGIN

8.1 All the Equipment supplied under the Contract shall have their origin in the eligible countries.

8.2 For the purposes of this Clause, 'Origin" means the place where the Equipment were produced or manufactured. The Equipment is produced or manufactured when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized new product results that is substantially different in basic characteristics in purpose or utility from its components.

8.3 The origin of Equipment is distinct from the nationality of the Contractor.

9. SPECIFICATION OF EQUIPMENT

9.1 Equipment

The Contractor shall supply all the Equipment specified in the package quoted as per the package wise Equipment List of Attachment 1 of S/W.

All the Equipment to be supplied under the Contract shall be new and unused.

9.2 Specification of Equipment

The performance, materials, duty, workmanship, operating conditions and design conditions for the Equipment shall meet and comply with the Specifications.

The Specifications indicate the principal and minimum technical requirements for each Equipment. The details of the Equipment shall be fully examined and suitably selected through the detailed engineering and design without sacrifice in quality or serviceability of the Equipment.

The figures of dimension and weight shown in the Specifications are indicatively presented as approximate figures. These figures may not necessarily and exactly be applied for the selection of the Equipment, but the Contractors shall meet the principal and minimum requirements shown in the Specifications. Any Bidder offering better specification than the minimum prescribed shall be considered as technically qualified.

10. CONSUMABLES AND SPARE PARTS.....(DELETED).....

11. CODE AND STANDARD

11.1 Code and Standard

All the Equipment and the Works shall conform to the approved and authorized codes and standards of the origin country (if not otherwise mentioned specifically). The following standards wherever applicable, are required to be mentioned and Indian Standard which are in force at the moment of the installation.

- Japanese Industrial Standard (JIS)
- Environmental Protection Agency of United States (U.S. EPA) Standard
- International Organization for Standard (ISO)
- British Standard (BS)
- Technischer Überwachungsverein Standard (TUV)
- MCERTS-SIRA certification U.K Environment Agency

Even if some codes and standards are designated in the Specifications, the other codes and standards not shown therein are also applicable instead of the designated ones as far as they are equivalent to such designated codes and standards and meet the requirement thereof. Documentary evidences are to be submitted to substantiate the claim of the Bidder in this regard. Such documentary evidence shall explicitly mention the proposed item in favour of its attributes as mentioned in case of the USEPA.

11.2 Metric System

All dimensions and performance of the Equipment shall be stated in metric system, unless otherwise specified in the Specifications.

12. ELECTRICAL RATINGS

12.1 Electrical Rating

The Equipment shall conform to the following ratings and standards wherever applicable.

- 1) All the electrically operated equipment specified herein shall be single phase, AC 220 V \pm 10 % and 50 Hz, unless otherwise specified in the Specifications.
- 2) Electrical plugs for the Equipment shall conform to local regulations and standards.

12.2 Precaution against Voltage Fluctuation

Adequate automatic voltage regulator for the Equipment shall be arranged by the Contractor wherever indicated in the Specifications. The Contractor shall pay due attention to that electrical voltage fluctuation exerts a serious influence and damage upon functioning of the Equipment.

13. NAME PLATE

Nameplate shall be affixed on a suitable place of the Equipment in accordance with the provision of SCC.

14. PACKING AND MARKING

14.1 Packing

- 1) Transportation by air cargo

The Contractor shall pack and transport the Equipment in the double carton, approved by airline and deliver separately to the designated Site in complete condition.

- 2) Transportation by vessel

The Equipment shall be packed and transported for seaworthy shipment in such a manner that they are carried to the Sites in complete condition. The packages shall be made shockproof, waterproof, moisture proof and any other protection against rough handling, exposure to extreme temperature, salt, precipitation, open storage and other severe tropical conditions during transit to each final Site. These Equipment shall be transported by container vessel and packed separately for the designated Site.

14.2 Marking

The outside of the package shall be marked in accordance with SCC in such a manner that they are clearly visible, protected against loss and resistance to external influences.

14.3 Packing List

Contents of each package and/or the Equipment shall be itemized on a detailed list showing the exact weight, and extreme outside dimensions of length, width and height of each package and/or the Equipment. One copy of the detailed packing list indicating name of components, assembly number and quantity which corresponds to those of the Equipment in each package shall be enclosed in each package.

Enclosed in one package, there shall also be a master packing list summarizing and identifying each individual package. Packing list shall be placed in a waterproof cover and secured against any external influence of the package.

15. SHIPMENT

15.1 Shipment

Shipment of the equipment from foreign origin shall be made as specified in SCC.

15.2 Shipping Documents

Promptly after shipment of equipment of foreign origin, the Contractor shall airmail the shipping documents to the Board in accordance with SCC.

15.3 Unloading and Custom Clearance

The Contractor shall arrange the clearing agent for unloading, customs clearance and storage of the equipment from the Foreign Origin, documentation and all the other procedures.

The Board will agree to assist the Contractor where required in obtaining clearance of the Equipment through the customs and provide exemption certificate, if required.

15.4 Inland Transportation

The Contractor shall be fully responsible for the delivery of all the Equipment to the Sites.

The Contractor shall arrange at his option and cost for the transportation from the port of entry to each Site for the equipment of foreign origin.

Transportation of Radioactive material if any shall be carried out by the contractor and contractor will obtain all statutory clearances for the same.

15.5 Handling and Storage

The Contractor shall protect the Equipment from any damage and avoid overloading. Particular attention shall be given to the perishable Equipment and those which must be kept dry, cool or from exposure to direct sunshine and moisture.

In case a part of the Board's facilities is necessary to be occupied by the Contractor for temporary storage or installation use, the Contractor shall obtain the written approval from the Board for temporary occupation and protect facilities against any damages. Charges payable for this facility to the Board for this shall be fixed by the Board.

16. PROTECTION AND SAFETY

The Contractor shall be totally responsible for all the reasonable precautions against fire in respect of the Works, temporary works, offices, storage yards and other places and things connected therewith.

The Contractor shall comply with all rules, regulations and orders which have been made by the Government of India, the Board or any other competent authority and the contractor shall provide sufficient fire-fighting protection in respect of the safety of the property and personnel of the Board.

17. WORKS SCHEDULE

The time schedule for the Works to be carried out by the Contractor is specified in SCC.

The Contractor shall complete the Works in accordance with the Works schedule specified here above.

18. PROJECT FORMATION

18.1 Board

The authorized personnel of the Board for the Project who is responsible for any coordination with the Contractor is

Member Secretary
West Bengal Pollution control Board
10A, Paribesh Bhawan, Block – LA, Sector III
Kolkata 700106, INDIA

Any correspondence to or authorization from the Board shall be made with the Project Manager here above.

18.2 Board

The Member Secretary of the Board or any authorized representative personnel of the Board who is responsible for any coordination with the Contractor

Any correspondence to or authorization from the Board shall be made with the Member Secretary.

In the course of the Works at Sites, the supervisors of the Board and/or the Board may be dispatched to the Sites for supervising the Contractor's Works. The supervisors will be noticed as authorized personnel of the Board and/or the Board.

19. WARRANTY / CMOC CONTRACT

19.1 The CMOC Contract

All the CAAQMS's shall be under CMOC Contract from the date of commissioning of the items. The details terms & conditions and scope of work during CMOC Contract period shall be as specified in the Scope of Work, Section – II of this document. However the Contractor shall warrant to the Board that the Equipment to be supplied under the Contract is new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. This warranty includes all spare parts and services to keep the instruments and equipment in operating condition. The Contractor shall further warrant to the Board that the Equipment complies strictly with the Specifications and has no defect, arising from design, materials, or workmanship or from any act or omission of the Contractor, that may develop under normal use of the supplied Equipment in the conditions prevailing to the final Sites.

19.2 Period of CMOC Contract

This CMOC Contract shall remain operative for the period specified in SCC after the successful installation & commissioning of the stations by the Contractor.

19.3 In Case of Faulty Equipment

If any part of the Equipment gets broken down or fails due to faulty of improper design, materials, workmanship, manufacture, fabrications or instructions, or fails to meet the requirements of the Specifications, then the Contractor shall promptly notify the manufacturer in writing of any claims arising under this clause.

Contractor shall ensure that within the period specified in Scope of Work for CMOC Contract in Section – II of the document and with all reasonable speed, the repair or replacement of the defective Equipment or improper parts thereof is carried out at the Contractor's expenses.

In the event that any part of the Equipment becomes defective due to no fault of the Contractor, such as voltage fluctuations, misuse and negligence, the Contractor will be indemnified by the Board in respect of repair thereof.

19.4 Manufacturer's Warranty

The contractor must take into account any manufacture's standard Warranty on the equipment supplied **before quoting for CMOC cost for the years** for which such Warranty is applicable.

20. INSURANCE

The Equipment supplied under the Contract shall be fully insured in currency acceptable as per the existing Law of India against loss or damage incidental to manufacture or acquisition, transportation, storage, shipment, delivery, installation and training involved with the Works naming the Board as the beneficiary, in the manner specified in the SCC, until issuance of taking over certificate.

20. INSTALLATION

21.1 All the Equipment shall be installed and brought into suitable conditions for operation by the Contractor at the Sites designated by the Board. The Contractor shall make all the necessary and proper adjustments and arrangements, including, but not restricted to, the utility supplies and connections, foundation and erection works specified in Clause 3 of S/W in order to install the Equipment in adequate conditions for operation.

All matters omitted from this Clause which may reasonably be incurred to be obviously necessary for the proper installation and operation of the Equipment shall be deemed to be included in this installation works, and the Contractor shall be held responsible for any errors or defects which the Contractor may make due to such omissions thereof.

21.2 Only the best installation practices are to be applied, and all the installation works must be done to the satisfaction of the Board and the Contractor shall carry out his works in a neat and proper workmanlike manner. The installation shall be planned and carried out in no way to damage installation materials and the Equipment.

21.3 All the installing Equipment, tools, materials, labour logistics and all the other requirements for installation shall be provided by the Contractor.

21.4 Prior to the establishment of Equipment layout and installation plan the Contractor shall verify, check and inspect the designs and specific site conditions of monitoring stations and laboratories where the Equipment are to be installed so as to make good arrangement for installation and utility assembly in consultation with the Board.

22. INSPECTION AND TEST

22.1 The Board shall have the right to inspect and to test the Equipment to confirm their conformity to the Specifications without any extra charge to the Board by the Contractor. The Contractor shall notify the Board in writing, in a timely manner (at least 21 days in advance), of the schedule of inspections and test.

22.2 The inspections and test shall be conducted on the premises of the Contractor and/or the Manufacturers and the Sites. If conducted on the premises of the Contractor and/or the Manufacturers, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the Board for the inspections and test at no charge to the Board.

- 22.3** Should any inspected or tested Equipment fail to conform to the Specifications, the Board may reject the Equipment, and the Contractor shall either replace the rejected Equipment or make alterations necessary to meet the Specifications requirements free of cost to the Board.
- 22.4** No pre despatch inspection is envisaged for equipment of foreign origin and contractor shall furnish factory test / inspection reports as furnished below of the manufacturer along with the despatch documents. However, the Board reserves the right to appoint at its cost, any inspection agency (other than suggested by contractors) which will be binding on the contractor.
- Performance Test Certificate
 - Certificate of Traceability
 - Verification of System Completeness
 - Product Certificate
- 22.5** For the equipment of Indian origin contractor should submit check list for equipment for approval of the Board. For container, contractor should take prior approval of the drawing from the Board. Contractor should notify date of pre-despatch inspection to the Board at least 15 (fifteen) days ahead of inspection.
- 22.6** The Board's right to inspect, test and, where necessary, reject the Equipment after the Equipment's arrival in India shall in no way limited or waived by reason of the Equipment having previously been inspected, tested and passed by the Board prior to the Equipment's shipment from the country of origin.
- 22.7** Nothing in this Clause 22 shall in any way release the Contractor from any CMOC contract, or other obligations under this Contract.

23. INSTRUCTION..... DELETED.....

24. TRAINING

- 24.1 The Contractor shall provide the Board staff with the training as specified in Scope of Work for the Equipment & Technical Specification.
- 24.2 The Contractor shall furnish the schedule and program of the training to the Board within 30 days after the notification of award in such a manner that proper training is imparted to Board staff members.

25. COMPLETION

The Contractor shall complete all the Works by the date as specified in SCC.

25.1 Taking Over

Upon successful completion of delivery, installation, inspection and training of the Equipment to and at the designated Sites and CMOC of the CAAQMS's for the period specified in S.C.C., the

Contractor shall notify the Board in writing that all the Works under the Contract have been completed at least 30 days before expiry of CMOC Contract period.

Immediately after completion of CMOC Contract period as specified in S.C.C., the Board will take over the stations or make alternate arrangement for their CMOC.

26 SUBMISSION OF DOCUMENTS

The Contractor shall submit the documents specified in SCC to the Board. The Contractor shall prepare all the documents in English.

Besides the documents thereof, the Contractor shall submit the notices, reports, and other documents when deemed necessary, in accordance with the direction of the Board.

27. PAYMENT

27.1 Payment

The method, terms and conditions of payment to be made to the Contractor under this Contract shall be specified in SCC.

The Contractor's request(s) for payment for, as appropriate, the Equipment delivered and the Works performed and fulfilment of other obligations stipulated in the Contract shall be made to the Board in writing, accompanied by documents specified in SCC.

27.2 The payment shall be made promptly by the Board but in no case not later than fifteen (15) days after submission of completed invoice or claim bill by the contractor.

27.3 Currency of Payment

The currency in which payment is made to the Contractor under this Contract shall be specified in SCC.

28 PRICES

Prices charged by the Contractor to the Board for the Equipment delivered and the Works performed under the Contract shall not vary from the prices quoted by the Contractor in the Financial Bid.

29 PERFORMANCE SECURITY

1. Performance Security

The Contractor within thirty (30) days from the date of notification of award shall furnish a Bank Guarantee from a reputed Indian or Foreign Commercial bank having license to do business in India to the Board in line with the enclosed form as per Attachment 2 Section VI towards performance

guarantee for an amount equal to ten (10) percent of the total Price under the Contract for faithful and due fulfilment by the Contractor of all obligations under the terms and conditions of the Contract.

The Contractor shall ensure that Contract Performance Security remains valid for at least 45 days after the expiry of the Contract period including CMOC period.

Contractor may initially furnish B.G. valid for 24 months, which shall be extended **at least 30 days prior to date of expiry of the Bank Guarantee**, failing which the same shall be encashed by the Owner. This shall be applicable for all the subsequent extensions up to 45 days after the expiry of validity of the Contract.

2. Return of Performance Security

The performance security will be discharged by the Board and returned to the Contractor not later than forty five (45) days after expiry of CMOC period following the date of completion of the Contractor's performance obligations under the Contract, including any CMOC obligations, unless specified otherwise in SCC.

30. ASSIGNMENT

The Contractor shall not assign in whole or in part, its obligations to perform under this Contract, except with the Board's prior written consent.

31. SUB-CONTRACTS

31.1 The Contractor shall notify the Board in writing of all the Manufacturers awarded under this Contract and any other subcontractors involved with performance of the Works if not already specified in the Bid. Such notification, in the original Bid or later, shall not relieve the Contractor from any liability or obligation under the Contract.

31.2 The Manufacturers shall comply with the provisions of Clause 8 of GCC.

32. DELAYS IN THE CONTRACTOR'S PERFORMANCE

32.1 Delays in the Contractor's Performance

Delivery of the Equipment and performance of the Works shall be made by the Contractor in accordance with the time schedule specified in SCC.

32.2 Notification of Delay

If at any time during performance of the Contract, the Contractor and/or the Manufacturers should encounter conditions impeding timely delivery of the Equipment and performance of the Works, the Contractor shall promptly notify the Board in writing of the fact of the delay, its likely duration and its cause(s)

As soon as practicable after receipt of the Contractor's notice, the Board shall evaluate the situation and may at its discretion extend the Contractor's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the Board and the Contractor by amendment of the Contract.

32.3 Liability of Liquidated Damages

Except as provided under Clause 36 of GCC, a delay by the Contractor in the performance of its delivery obligations shall render the Contractor liable to the imposition of liquidated damages pursuant to Clause 33 hereunder, unless an extension of time is agreed upon pursuant to Sub-clause 32.2 here above without the application of liquidated damages.

33. LIQUIDATED DAMAGES

Subject to Clause 36 of GCC, if the Contractor fails to perform the Works within the period specified in Clause 11 of SCC, the Board shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC. Once the maximum is reached, the Board may consider termination of the Contract pursuant to Clause 35 of GCC.

34. SUSPENSION OF WORK

The Contractor shall not suspend the whole or any part of the Works without notice to the Board in writing. The Contractor thereupon shall do all possible endeavours to reduce any expenses or costs resulting from the suspension. Such suspension shall not nullify the Contract.

35. TERMINATION FOR DEFAULT

35.1 Termination for Default

The Board, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Contractor, may terminate this Contract in whole or in part:

- 1) If the Contractor fails to perform any or all of the Works within the period specified in Clause 11 of SCC, or extension thereof granted by the Board pursuant to Clause 32 of GCC
- or
- 2) If the Contractor fails to perform any other obligations under the Contract.

35.2 Liability for Excess Cost for Unperformed Work

In the event the Board terminates the Contract in whole or in part pursuant to Sub-clause 35.1 here above the Board may procure at the risk and cost of the contractor, upon such terms and in such manner as it deems appropriate, the equipment / works similar to those undelivered / unperformed and the **Contractor shall be liable to the Board for any excess costs for such similar**

equipment / works. However, the Contractor shall continue performance of the Contract to the extent not terminated.

36. FORCE MAJEURE

36.1 Notwithstanding the provisions of Clauses 32, 33 and 35 in GCC, the Contractor shall not be liable for forfeiture of its performance security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

36.2 For the purposes of this Clause, "Force Majeure" means an event beyond the control of the Contractor and not involving the Contractor's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Board in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

36.3 If a Force Majeure situation arises, the Contractor shall promptly notify the Board in writing of such condition and the cause thereof. Unless otherwise directed by the Board in writing, the Contractor shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

37. TERMINATION FOR INSOLVENCY

The Board may at any time terminate the Contract by giving written notice to the Contractor if the Contractor becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Contractor, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Board.

38. RESOLUTION OF DISPUTES

38.1 Settlement of Disputes

Any dispute(s) or difference(s) arising out of or in connection with the Contract shall, to the extent possible in the first instance be resolved amicably between the Contractor and the Owner's Officer.

If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Contractor may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given.

Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitrator. Arbitration may be commenced prior to or after delivery of the Goods under the Contract.

In the case of dispute or difference arising between the Purchaser and a Domestic Contractor relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, 1996. The arbitral tribunal shall consist of (3) three arbitrators one each to be appointed by the Purchaser and the Contractor. The third arbitrator shall be chosen by the (2) two Arbitrators so appointed by the parties and shall act as Presiding arbitrator. In case of failure of the two arbitrator appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed by the President of the Institution of Engineers (India), Head Quarter, Kolkata.

In the case of a dispute with a Foreign Contractor, the dispute shall be settled in accordance with provision of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules. The Arbitral Tribunal shall consist of three Arbitrators one each to be appointed by the Purchaser and the Contractor. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the Parties, and shall act as presiding arbitrator. In case failure of two arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed by the President of the Institution of Engineers (India).

If one of the parties fails to appoint its arbitrator in pursuance of Sub-clause (a) and (b) above, within thirty days after receipt of the notice of the appointment of its arbitrator by the other party, then the Presiding Arbitrator shall be nominated by President of the Institution of Engineer (India), both in case of the foreign contractor as well as Indian Contractor, shall appoint the arbitrator. A certified copy of the order of the President of the Institution of Engineers (India), making such an appointment shall be furnished to each of the parties.

Arbitration proceedings shall be held at Kolkata, India, and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English.

The decision of the majority of arbitrators shall be final and binding upon both parties. The cost and expenses of Arbitration proceedings will be paid as determined by the arbitral tribunal. However, the expenses incurred by each party in connection with the preparation, presentation etc. of its proceedings as also the fees and expenses paid to the arbitrator appointed by such party or on its behalf shall be borne by each party itself.

Where the value of the contract is Rs. 10 million and below, the disputes or differences arising shall be referred to the Sole Arbitrator. The sole Arbitrator should be appointed by agreement between the parties; failing such agreement, by the appointing authority namely the President of the Institution of Engineers (India).

38.2 Law and place of jurisdiction

This agreement is subject to Indian law. The place of performance and jurisdiction is the place of the Buyer i.e., within the jurisdiction of the civil court of the concerned area.

39. TAXES AND DUTIES

- Concessional Customs Duty (as applicable) shall be applicable on the equipment being imported by WEST BENGAL POLLUTION CONTROL BOARD (WBPCB). Necessary exemption certificate shall be issued by WBPCB and applicable Custom Duty shall be paid by WBPCB.
- WBPCB is also exempted from paying Excise Duty. Necessary exemption certificate shall be issued by the WBPCB. All required documents in this regard shall be supplied at the time of award of contract.
- All taxes will be paid by WBPCB at actual against documentary evidence. Taxes and duties already merged with GST shall be paid at actuals as GST.
- Service Tax as applicable on incidental services like Installation, Commissioning and Training and CMOC service etc. shall be payable extra by WBPCB.
- In case of compulsory statutory taxes and duties, the Board shall pay all at actuals. In other words, the bidders should not consider any TAX or DUTY in their bid price. Evaluation will be done without considering TAX and DUTY.

40. INJURY AND DAMAGE

40.1 Injury or Death of Persons

The Contractor shall be liable for and shall indemnify the Board against any liability, loss claim or proceedings whatsoever arising under any statute or law in respect of personal injury or death or any disability caused by the carrying out the Works unless due to any act or neglect of the Board, or of any person for whom the Board is responsible.

Without prejudice to the Contractor's liability to indemnify the Board, the Contractor shall maintain and cause any Manufacturers and subcontractors to maintain such insurance as necessary to cover the liability of the Contractor or, as the case may be, of such Manufacturers and subcontractors, in respect of personal injuries or deaths arising out of or in the course of or caused by the carrying out of the Works.

40.2 Damage to Property

The Contractor shall be liable for and indemnify the Board against and insure and cause any Manufacturers and subcontractors to insure against any expense, liability, loss claim or proceedings in respect of any damage whatsoever to any real or personal property for any one occurrence in so far as such damage arises out of or in the course of or by reason of the carrying out of the Works and is due to any negligence, omission or default of the Contractor or any person for whom the Contractor is responsible or any Manufacturers and subcontractors or person for whom the Manufacturers and subcontractors are responsible.

41. ROYALTY AND PATENTS

- 41.1** The Contractor shall pay all royalties and licenses fees for the use of any patented item, whether it may be an invention, method, arrangement, article, process or appliance used in connection with

the performance of the Contract. The Contractor shall indemnify and save harmless the Board against any and all costs, damages and expenses of any nature or kind whatsoever which may arise out of or result from a claim by any person, firm or corporation that the manufacture, purchase, use of sale of any of the inventions, methods, arrangements, articles processes or appliances used in connection with the performance of this Contract infringes any patent of such other rights. The Contractor shall, at the request of the Board, defend the Board against any suit brought to enforce any such claim at the Contractors expense.

- 41.2** In case any such patented item used on or in conjunction with the Works is in suit held to constitute and infringement of its use enjoined, the Contractor shall either secure for the Board the right to continue using the said item by suspension of the enjoinder, by procuring for the Board a license or otherwise, or will replace such items with a non-infringing item or modify it so that it becomes non-infringing or with the Board's approval remove the said enjoined item and refund to the Board the sums paid thereof.

42. EFFECTIVENESS

This Contract shall come into force and effect on the date of the Letter of Award and shall be in force until the Works have been completed and all the payments have been made to the Contractor, including the payments for CMOC contract period.

43. LAWS AND REGULATIONS

The formation, validity and performance of this Contract shall be governed as to all matters by and under the laws and regulations of India and courts of the Nation shall have exclusive jurisdiction in all matters arising under this Contract.

The Contractor shall respect and abide by all laws and regulations of India and shall make its best effort to ensure that the personnel of the Contractor and their dependents, while staying in India, shall respect and abide by all laws and regulations of India.

The Contractor shall protect, absolve and indemnify the Board, and their representatives from any claim, loss or damage arising from any non-compliance alleged or proved, without claiming them for payment.

44. NOTICES

Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or by cable, telex, facsimile and confirmed in writing to the other party's address specified in SCC.

A notice shall be effective when delivered or on the notice's effective date, whichever is later.

VOLUME I

SECTION VI

SPECIAL CONDITIONS OF CONTRACT

SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict the provisions herein shall prevail over those in the General Conditions of Contract the corresponding clause number of the GCC is indicated in parentheses, if applicable

1. CLIMATE CONDITION

Precaution and protection against the specific climate conditions in India such as heavy rain, high temperature, high humidity, gales, excessive sunshine, flooding or any other climate conditions which could cause damage upon the Equipment or otherwise interfere with the execution of the works shall be taken. The Equipment to be supplied shall be tropicalized.

2. CONSUMABLES AND SPARE PARTS

2.1 Supply of Consumables and Spare Parts

The Contractor shall provide the consumables and spare parts as per requirement for Comprehensive Maintenance & Operation of CAAQM Stations.

2.2 After Sales Services

The Contractor shall guarantee the availability of all consumables, spare parts, maintenance and repair work for each Equipment at cost basis for at least five (5) years after the CMOC period specified in Clause 7 of SCC, unless otherwise specified in the Specifications.

Bidder should submit certificates from the manufacturers in support of available service centres and availability of spares parts and consumable in India as per Attachment no. 5 of Section III.

3. NAME PLATE (GCC CLAUSE 13)

The Contractor shall affix the name plate with the following description in English on all the Equipment:

- 1) Name of the Equipment
- 2) Manufacturing date
- 3) Production serial number
- 4) Equipment model number
- 5) Name of manufacturer
- 6) Ratings of the Equipment

4. MARKING (GCC SUB-CLAUSE 14.2)

The Contractor shall mark the following information in the sequence described below and in a frame commensurate with the size of packing and/or the Equipment.

- 1) Consignee: WEST BENGAL POLLUTION CONTROL BOARD, Kolkata, India
- 2) Name of the Works. Supply and CMOC of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) at different places of West Bengal and Comprehensive Maintenance & Operation Contract of these CAAQMS.
- 3) Contract number
- 4) Contractors name
- 5) Port or airport of discharge
- 6) Country of origin
- 7) Item, and if applicable, package number in sequence, and quantity per package and/or Equipment
- 8) Description of Equipment
- 9) Net and gross weight and cubic measurement
- 10) Shipper's name and/or marks
- 11) Caution marks, if applicable
- 12) Other markings required by the Board

5. SHIPMENT (GCC CLAUSE 15)

The Contractor shall be responsible for the delivery of the Equipment to each Site designated by the Board and for the coverage of shipping charges, freight, insurance premiums up to handing over the Equipment at Sites, inland transportation and temporary storage.

5.1 Notification and Submission of Documents

Upon shipment, the Contractor shall notify the Board and the Insurance Company by cable of the following details of the shipment

- 1) Contract number
- 2) Description and quantity of the Equipment
- 3) Name of vessel and air cargo
- 4) Number and date of bill of lading and airway bill
- 5) Date of shipment, port of discharge, expected date of departure and expected date of arrival
- 6) Invoice amount of shipment
- 7) Name of a claim settling agency in India.

5.2 The Contractor shall mail the following documents to the Board, with a copy to the Insurance Company.

(1) Equipment of Foreign Origin:

- 1) Four (4) Copies of the contractor's invoice showing the Equipment's description, quantity, unit price and total amount
- 2) Original and Four (4) copies of the negotiable, clean, on-board bill of lading marked freight prepaid and four copies of non-negotiable bill of lading;
- 3) Four copies of the packing list identifying contents of each package
- 4) Insurance certificate
- 5) Manufacturer and Suppliers warranty certificate
- 6) Factory test and inspection certificate

7) Certificate of country-of origin

The above documents shall be received by the Board at least one week before arrival of the Equipment at the port or place of arrival and. if not received, the Contractor will be responsible for any consequent expenses.

Partial shipment and transshipment is allowed.

(2) Equipment to be Supplied from within India:

Upon delivery of the Equipment to the transporters, the Supplier shall notify the Board and mail the following documents to the Board.

- 1) Four copies of the Supplier's invoice showing the Equipment's description, quantity, unit price and total amount
- 2) Acknowledgement of receipts of goods from the consignee i.e. receipted delivery note, railway receipt(RR), or truck receipt(LR)
- 3) Supplier's and/or Manufacturer's warranty certificate
- 4) Factory test & inspection certificate and Material Despatch Clearance Certificate (MDCC) issued by the Board
- 5) Insurance certificate
- 6) Certificate of country of origin

The above documents shall be received by the Board before arrival of the Equipment and, if not received, the Supplier shall be responsible for any consequent expenses.

6. WORKS SCHEDULE (GCC CLAUSE 17)

1. Equipment to be supplied from Foreign Country:

Delivery Period for all the packages shall be **120 days from the date of the opening of Letter of Credit (L/C)**. It relates to completion of delivery on CIF (designated Sea Port / Air Port) basis for equipment of foreign origin. Further transportation to the sites (3 Nos.), where the CAAQMS's are to be installed and commissioned shall be completed by the contractor **within Sixty (60) days** from the date of arrival of equipment at port of de-embarkment.

2. Equipment to be supplier from India:

All the equipment shall be received at Continuous Ambient Air Quality Monitoring Station Sites (3 nos.), within 120 days from the date of notification of award and are to be installed and commissioned within sixty (60) days from date of receipt at site.

3. Commissioning and others incidental services:

All the equipment of the awarded package shall be commissioned within **180** days after the date of opening of Letter of Credit (L/C) including all the incidental services i.e. training etc.

4. CMOC Contract

The contractor shall carry out comprehensive Operation & Maintenance of Air Monitoring Stations for a period of five (5) years from the date of commissioning and handing over of the

station, which can be extended up to five (5) years at the mutually agreed rates and terms & conditions.

7. WARRANTY / CMOC CONTRACT (GCC CLAUSE 19)

7.1 Period of CMOC Contract

The complete CAAQMS shall be under CMOC Contract from the date of commissioning of the station and maintenance of all the equipment including supply of all material shall be the responsibility of the Contractor during the validity of CMOC Contract. The Contractor shall, in addition, comply with the performance guarantees if specified under the Contract. If, for reasons attributable to the Contractor, these guarantees are not attained in whole or in part, the Contractor shall make such changes, modifications, and/or additions to the Equipment or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own costs and expenses and to carry out further performance test.

8. INSURANCE (GCC CLAUSE 20)

- A) The insurance shall be in an amount of equal to One Hundred Ten (110) percent of the value of the Equipment up to handing over of the Equipment to the Board on "All Risks" basis, including war risks and strikes, naming the Board as the beneficiary
- B) The Contractor shall take the comprehensive all risk insurance cover for the complete station during CMOC period including statutory insurance of Contractor's personnel.

9. INSTALLATION (GCC CLAUSE 21)

Bidder shall depute Engineer / supervisor for on site assembly, installation, commissioning and start up of the supplied equipment. Bidder shall also furnish tools required for assembly, commissioning and maintenance of equipment during CMOC period.

10. INSPECTION AND TEST (GCC CLAUSE 22)

10.1 Unpacking Inspection

Unpacking inspection shall be performed by the Contractor to inspect whether all the items and quantity of the Equipment have been delivered in conformity with the Equipment and packing list without any damage during the shipment.

The Contractor shall submit the unpacking inspection report to the Board.

10.2 Site Inspection

The Contractor shall carry out site inspection of the Equipment at each Site at the completion of installation works to confirm that the installation works and the function of the Equipment is satisfactory for the requirements specified in S/W and the Specifications.

The Contractor shall carry out the functional test to ensure that the consumables and spare parts are good for the operation, maintenance and replacement in future.

As a result of site inspection, the Equipment regarded as unsatisfactory or unacceptable by the Board shall be promptly remedied by the contractor. The Contractor shall submit the site inspection report to the Board.

10.3 Performance Test

The Contractor shall carry out the performance test to inspect and witness the function of each of the equipment supplied under the awarded package at site.

Performance test shall be carried out in accordance with Sub-clause 4.0 of S/W for all the Equipment supplied.

In case the Equipment for performance test requires the supplemental and/or supporting Equipment, the Contractor shall carry out the performance test including such Equipment.

Performance test will be considered to be complete only after successful completion of performance test of each equipment pertaining to respective packages.

In case of results of such performance test found to be unsatisfactory by the Board same shall be promptly remedied by the Contractor.

The Contractor shall prepare the performance test procedures for approval by the Board at least thirty (30) days prior to the testing schedules.

The Contractor submits the performance test report to the Board.

11. COMPLETION (GCC CLAUSE 25)

The Contractor shall complete all the Works within 120 days after the date of opening of Letter of Credit (L/C).

12. SUBMISSION OF DOCUMENTS (GCC CLAUSE 26)

12.1 Work Program

Within thirty (30) days from the notification of award of the Contract, the Contractor shall submit the detailed Works program and schedule to the Board indicating the following items:

- a. Equipment supply program and Equipment layout plan (if applicable).
- b. Design drawings and utility list, if required
- c. Subcontractor list for installation work of the Equipment if not already specified in the Techno-commercial Bid
- d. Program for factory, pre-shipment, unpacking and site inspections and performance test
- e. Installation program including personnel organization chart of the Contractor

The Contractor shall be responsible for any discrepancies, errors or omissions or delay in delivery and submission of the work program, and any expenses resulting there from shall be borne by the Contractor.

12.2 Other Documents

The Contractor shall submit the following documents within sixty (60) days after the notification of award.

Item	Number of Documents to be sent to WBPCB			
	Gr.-A	Gr.-B	Gr.-C	Gr.-D
Catalogues, product data and test reports	10	22	19	11
Installation manuals	10	22	19	11
List of consumables and spare parts	10	22	19	11
Manufacture's specifications	10	22	19	11
Training program	10	22	19	11

Besides the documents here above, the Contractor shall submit the following documents at the designated time for submission as follows:

Item	Number of Document				Time of Submission
	Gr.-A	Gr.-B	Gr.-C	Gr.-D	
Inspection report	10	22	19	11	At the time of completion of factory, pre-shipment unpacking and site inspections (if applicable)
Training manual	10	22	19	11	At the time of commencement of installation of Equipment
Operation and maintenance manual	10	22	19	11	At the time of commencement of installation of Equipment
Training program	10	22	19	11	By the time of completion of installation of Equipment
Report of performance test	10	22	19	11	At the time of completion of performance test
Video CD (Optional)	10	22	19	11	By the time of commencement of training
List of Equipment supplied	10	22	19	11	At the time of completion of the Work
Record on installation with photographs	10	22	19	11	At the time of completion of the Works
Local agent list	10	22	19	11	At the time of completion of the Works

Besides the documents here above, the Contractor shall submit the notices, reports, and other documents when deemed necessary, in accordance with the direction of the Board.

13. PAYMENT (GCC CLAUSE 27)

13.1 Method of Payment

The payment shall be made in the currency specified in the contract by means of an irrevocable Letter of Credit for equipment against despatch. Release of payment on pro-rata basis shall be considered at the stage of awarding the contract.

Others payment shall be made through cheque only.

13.2 Terms and Conditions of Payment

Bids with terms and conditions of payment other than that specified below shall be rejected.

(a) **Payment for goods and services (excluding CMOC charges) supplied from abroad:**

- 1) **On shipment:** Eighty (80) percent of the contract price of the Goods shipped shall be paid through irrevocable Letter of Credit opened in favour of the supplier in a bank in his country and upon submission of the documents specified in sub clause 5.2 (1) of SCC including: (i) Packing list and (ii) Supplier's certificate that the amounts shown in the invoice are correct in terms of the contract and that all the terms and conditions of the contract have been complied with and
- 2) **On Final Acceptance:** Balance Twenty (20) percent of contract price of the equipment including 100% of the local costs, incidental cost, cost of training after satisfactory completion of installation & commissioning including Training (to be certified by the Board) of all the Equipment of the package at specified site(s) and submission of acceptance certificate as per Attachment 4 of SCC.
- 3) 100 % Payment of local currency portion including agency commission shall be paid after satisfactory completion of installation & commissioning including Training (to be certified by the Board) of all the Equipment of the at specified site(s).

(b) Payment of goods and services (excluding CMOC charges) supplied from India:

- 1) **On Delivery:** Eighty (80) % of the contract price shall be paid (through LC) on receipt of Goods and upon submission of the documents specified in Clause 5.2 (2) of SCC: and
- 2) **On Final Acceptance:** Balance Twenty (20) percent of contract price of the equipment including 100% of the local costs, incidental cost, cost of training after satisfactory completion of installation & commissioning including Training (to be certified by the Board) of all the Equipment of the particular package at specified site(s) and submission of acceptance certificate as per Attachment 4 of SCC

(c) Payment of CMOC charges:

CMOC cost of each year shall be paid after end of every quarter in equal instalments based on submission of required air quality report along with data obtained from calibration checks and copies of associated Quality Assurance and calibration documentation. Penalties applicable if any as referred in Scope of Work for CMOC Contract shall be deducted from the quarterly payment.

- (d)**
- 1) Where payments are to be effected through Letter of Credit (LC), the same shall be subjected to the latest Uniform Customs and Practice for documentary credit, of the International Chamber of Commerce;
 - 2) The LC will be confirmed at Supplier's cost if requested specifically by the supplier;
 - 3) If LC is required to be extended/reinstated for reasons not attributable to the Purchaser, the charges thereof shall be to the suppliers account.
 - 4) Any expenditure for the operation of LC out side India shall be borne by the beneficiary.

14. PRICES (GCC CLAUSE 28)

The Prices quoted **shall be firm** throughout the tenure of the Contract. Any increased cost incidental to the performance of the Works due to any economic dislocation either in the origin country or India or to any other causes such as currency restriction, price hike of the Equipment,

wage hike for labour or revaluation of the currency can not be claimed by the Contractor to the Board.

15. PERFORMANCE SECURITY (GCC CLAUSE 29)

15.1 Performance Security

The amount of performance security as a percentage of the Contract Price shall be ten (10) percent.

16. LIQUIDATED DAMAGES (GCC CLAUSE 33)

16.1 Rate

The Contractor shall pay to the Board as liquidated damage a sum equivalent to half (0.5) percent of the unit price in the Contract Price for each of the Equipment undelivered per week delayed.

16.2 Maximum Deduction

The total liquidated damages on account of delay in supplies payable to the-Board shall not in any case exceed ten (10) percent of the Contract price of supply portion only (Excluding CMOC charges).

16.3 In addition to above Liquidated damages for delay, the Contractor is liable to pay penalty on account of failure of systems during CMOC period as elaborated in Section – II (Scope of work) of this document.

17. NOTICES (GCC CLAUSE 44)

Any notice, request or consent shall be deemed to have been given or made when delivered in person to an authorized representative of the party to whom the communication is addressed, or when sent by registered mail, telex, telegram, facsimile to such party at the following address:

- 1) For the Board
The Member Secretary,
West Bengal Pollution Control Board
10A, Paribesh Bhawan, Block – LA, Sector – III
Salt Lake, Kolkata – 700106, INDIA
- 2) For the Contractor (To be given by the bidder)

Attachment 2: FORM OF BANK GUARANTEE FOR PERFORMANCE SECURITY

Form of Bank Guarantee for Performance Security

(to be stamped in accordance with Stamp Act, if any, of the Country of the issuing Bank)

Bank Guarantee No. _____

Date : _____

Ref. No. _____

To
Member Secretary
West Bengal Pollution Control Board
10A, Paribesh Bhawan, Block – LA, Sector – III
Salt Lake, Kolkata – 700106, INDIA
Dear Sirs or Madams,

THIS AGREEMENT is supplemental to a contract number _____ [insert Contract Number] (hereinafter called “the Contract”) made between _____ [name of Contractor] of _____ [address of Contractor] (hereinafter called “the Contractor”) of the one part and the Board of the other part whereby the Contractor agreed and undertook to execute the works of Supply, Installation, Commissioning and CMOC of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) at different places of West Bengal against the Contract for the sum of _____ [amount in Contract Currency] being the Contract Price; and

WHEREAS

(1) this agreement is supplemental to a contract number _____ [insert Contract Number] (hereinafter called “the Contract”) made between _____ [name of Contractor] of _____ [address of Contractor] (hereinafter called “the Contractor”) of the one part and the Board of the other part whereby the Contractor agreed and undertook to execute the works of Supply, Installation, Commissioning and CMOC of Continuous Ambient Air Quality Monitoring Stations (CAAQMS) at different places of West Bengal against the Contract for the sum of _____ [amount in Contract Currency] being the Contract Price; and

(2) the Guarantor has agreed to guarantee the due performance of the Contract in the manner hereinafter appearing.

NOW, THEREFORE, the Guarantor hereby agrees with the Board as follows;

(a) If the Contractor (unless relieved from the performance by any clause of the Contract or by statute or by the decision of a tribunal of competent jurisdiction) shall in any respect fail to execute the Contract or commit any breach of his obligations there under then the Guarantor will indemnify and pay the Board the aggregate sum of _____ [amount of Guarantee shall be ten (10) % (Percent) of the said value of the Contract] _____ [in words], such sum being payable in the types and amount of currencies in which the Contract Price is payable, provided that the Board or his Authorized Representative has notified the Guarantor to that effect and has made a claim against the Guarantor before the expiry of CMOC period.

(b) The guarantor shall not be discharged or released from his guarantee by an arrangement between the Contractor and the Board, with or without the consent of the Guarantor, or by any alteration in the

obligations undertaken by the Contractor, or by any forbearance on the part of the Contractor, whether as to payment, time, performance, or other wise, any notice to the Guarantor of any such arrangement, alteration, or forbearance is hereby expressly waived.

This guarantee shall be valid until a date forty five (45) days from the date of expiry of CMOC period as specified in the Contract.

Given under our hand on the date first mentioned above.

SIGNED BY _____

for and on behalf of the Guarantor
(Seal of Guarantor)

in the presence of

(Witness)

Attachment 3: FORM FOR CONTRACT AGREEMENT

**FORM FOR CONTRACT AGREEMENT FOR SUPPLY, INSTALLATION & COMMISSIONING
OF CONTINUOUS AMBIENT AIR QUALITY MONITORING STATIONS (CAAQMS)
AT DIFFERENT PLACES OF WEST BENGAL
AND COMPREHENSIVE MAINTENANCE & OPERATION CONTRACT OF THESE CAAQMS**

This Comprehensive Maintenance and Operation Agreement ("Agreement") is made on this _____ day of _____ by and between:

West Bengal Pollution Control Board, 10A, Paribesh Bhawan, Block – LA, Sector – III, Salt Lake, Kolkata – 700106, INDIA, which term shall include permitted assigns and successors (Hereinafter called as "The Board" or "the Owner").

And

M/s _____ a company incorporated _____ with Regd. Office at _____ which term shall include permitted assigns and successors (hereinafter called as "Contractor" or "the contractor").

RECITALS

Whereas the Owner had invited Bids under reference _____ for supply and Operation & Maintenance of Air Monitoring Stations located at following cities:

Sl.	District	Location (Proposed)
1		
2		
3		
4		
5		

and M/s _____ had submitted their bid against the aforesaid invitation to bid and Owner has accepted the bid of M/s _____ and has decided to entrust the job of supply and CMOC of the Air Monitoring Stations located at above listed cities to the Contractor vide Letter of Award ref. _____ dated _____ at a total Contract Price for complete scope of work of _____ (Contract Price in Words and Figures) (hereinafter "the Contract Price").

Whereas the Contractor has accepted the Letter of Award issued by the Owner in writing vide its letter No. _____ dt. _____ and has furnished Contract Performance Security for an amount of Rs. _____ [Rupees _____ only] and which is initially valid upto----- and Owner has accepted the said Contract Performance Security.

Whereas, Contractor is having expertise in the business inter alia, of supplying and operation & maintenance of Air monitoring Stations and the owner has engaged the Contractor to supply and perform operation and maintenance of said Air monitoring stations upon the terms & conditions set forth in this Agreement and the Letter of Award referred above issued by the Owner including all the documents referred in the above Letter of Award.

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - 1) Scope of Works;
 - 2) Techno-commercial Bid;
 - 3) Financial Bid-
 - 3) Technical Specifications;
 - 4) General Conditions of Contract;
 - 5) Special Conditions of Contract; and
 - 6) The Board's Notification of Award.

This Contract sets forth the entire contract and agreement between the parties pertaining to the supply of the Goods described herein and Operation & Maintenance of the Air Monitoring Stations and supersedes any and all earlier verbal or written agreements pertaining to the supply of the Goods.

This Contract shall prevail over all other Contract documents. In the event of any discrepancy or inconsistency within the Contract documents, then the documents shall prevail in the order listed above

3. In consideration of the payments to be made by the Board to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Board to perform the Works and to remedy defects therein conformity in all respects with the provisions of the Contract.
4. The Board hereby covenants to pay the Contractor in consideration of the performance of the Works and the remedying of defects therein the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. Any notice under this Contract shall be in the form of letter, telex, cable or facsimile. Notices to either party shall be given at such address or addresses as such party shall specify from time to time by written notice to the other. In the absence of such notice to the contrary, notice to the Board shall be properly addressed to:

Member Secretary,
West Bengal Pollution Control Board
10A, Paribesh Bhawan, Block – LA, Sector – III
Salt Lake, Kolkata – 700106, INDIA
Fax No. : 91-33-23352813

and notice to the Contractor shall be properly addressed to :

[Contractor's address and electronic transmission address]

A notice shall be effective when delivered or on the notice's effective date, whichever is later.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signature of Board's Authorised Representative

Signature of the Contractor

Signed, Sealed and Delivered by the said _____

(For the Board) in the presence of _____

Signed, Sealed and Delivered by the said _____

(For the Contractor) in the presence of _____

**Attachment 4: PROFORMA OF CERTIFICATE TO BE ISSUE BY THE WBPCB
AFTER SUCCESSFUL COMMISSIONING OF EQUIPMENT**

**PROFORMA OF CERTIFICATE TO BE ISSUE BY THE WBPCB
AFTER SUCCESSFUL COMMISSIONING OF EQUIPMENT**

No.

Date

M/s.

Subject: Certificate of Commissioning of equipment.

1. This is to certify that the equipment as detailed below has / have been received in good condition along with all the standard and special accessories (subject to remarks in Para No. 2) and a set of spares in accordance with the Contract / specifications. The same have been installed and commissioned.

- a) Contract No. _____ dated _____
- b) Name of CAAQM station/city _____
- c) Description of the equipment _____
- d) Package No. _____
- e) Quantity _____
- f) Bill of Lading _____ dated _____
(for import contract)
- g) Name of the vessel/ transporter _____
- h) RR. No. _____ dated _____
- i) Name of the consignee _____
- j) Date of commissioning and performance test _____

2. Details of recoveries to be made on that account:

S. No.	Description	Amount of be recovered
--------	-------------	------------------------

3. The proving/performance test has been done to out entire satisfaction and personnel have been trained to operate the equipment.

BOARD / CONTRACTOR

4. The contractor has fulfilled his contractual obligation satisfactorily. Explanatory notes for filling up the certificates:
- a) He has adhered to the time schedule specified in the contract in dispatching the documents drawing pursuant to Technical Specifications.
 - b) He has supervised the commissioning of the item in time i.e. within the period specified in the contract from the date of intimation by the Purchaser in respect of the installation of the plant.
 - c) Training of personnel has been done by the contractor specified in the contract.
 - d) In the event of documents/drawings having not been contractor or installation and commissioning of the plant have been delayed on act of the contractor, the extent of delay should always be mentioned.

OR

The contractor has failed to fulfill his contractual obligations with regard to the following: i.e. instruction or training etc.

- a)
- b)
- c)
- d)

5. The amount of recovery, on account of non-supply of accessories and spares is given under Para No. 2.
6. The amount of recovery on account of failure of the contractor to meet his contractual obligations is as indicated in endorsement of the letter.

Signature

Name

Designation with stamp

Government of West Bengal
Finance Department
Audit Branch

No. 3975-F(Y)

Dated, 28th July, 2016

MEMORANDUM

Sub: Online receipt and refund of EMD of e-procurement through State Government e- procurement portal

The State Government procurement portal has already been integrated with the Payment Gateway of ICICI Bank for deposit of EMD and other fees by the bidders participating in e-procurement.

Now, in cancellation of this Department Memorandum No. 1526-F(Y) dated 18.03.2014, the Governor is pleased to prescribe the following procedure to be adopted for deposit of EMD / Bid Security related to e- procurement of the State Government Departments and its subordinate offices, PSUs, Autonomous and Local Bodies, PRIs, etc

1. Login by bidder:

- a) A bidder desirous of taking part in a tender invited by a State Government Office/PSU/Autonomous Body/Local Body/ PRIs, etc shall login to the e-Procurement portal of the Government of West Bengal <https://wbtenders.gov.in> using his login ID and password.
- b) He will select the tender to bid and initiate payment of pre-defined EMD / Tender Fees for that tender by selecting from either of the following payments modes:
 - i) Net banking (any of the banks listed in the ICICI Bank Payment gateway) in case of payment through ICICI Bank Payment Gateway;
 - ii) RTGS/NEFT in case of offline payment through bank account in any Bank.

2. Payment procedure:

a) Payment by Net Banking (any listed bank) through ICICI Bank Payment Gateway:

- i. On selection of net banking as the payment mode, the bidder will be directed to ICICI Bank Payment Gateway webpage (along with a string containing a Unique ID) where he will select the Bank through which he wants to do the transaction.
- ii. Bidder will make the payment after entering his Unique ID and password of the bank to process the transaction.
- iii. Bidder will receive a confirmation message regarding success/failure of the transaction.
- iv. If the transaction is successful, the amount paid by the bidder will get credited in the respective Pooling account of the State Government /PSU/Autonomous Body/Local Body/PRIs, etc maintained with the Focal Point Branch of ICICI Bank at R.N. Mukherjee Road, Kolkata for collection of EMD/Tender Fees.
- v. If the transaction is failure, the bidder will again try for payment by going back to the first step. /

b) Payment through RTGS/NEFT:

- i. On selection of RTGS/NEFT as the payment mode, the e-Procurement portal will show a pre-filled challan having the details to process RTGS/NEFT transaction.
- ii. The bidder will print the challan and use the pre-filled information to make RTGS/NEFT payment using his Bank account.
- iii. Once payment is made, the bidder will come back to the e-Procurement portal after expiry of a reasonable time to enable the NEFT/RTGS process to complete, in order to verify the payment made and continue the bidding process.
- iv. If verification is successful, the fund will get credited to the respective Pooling account of the State Government /PSU/Autonomous Body/Local Body/PRIs, etc maintained with the Focal Point Branch of ICICI Bank at R.N. Mukherjee Road, Kolkata for collection of EMD/Tender Fees.
- v. Hereafter, the bidder will go to e-Procurement portal for submission of his bid.
- vi. But if the payment verification is unsuccessful, the amount will be returned to the bidder's account.

3. Refund/Settlement Process:

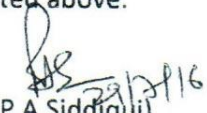
- i. After opening of the bids and technical evaluation of the same by the tender inviting authority through electronic processing in the e-Procurement portal of the State Government, the tender inviting authority will declare the status of the bids as successful or unsuccessful which will be made available, along with the details of the unsuccessful bidders, to ICICI Bank by the e-Procurement portal through web services.
- ii. On receipt of the information from the e-Procurement portal, the Bank will refund, through an automated process, the EMD of the bidders disqualified at the technical evaluation to the respective bidders' bank accounts from which they made the payment transaction. Such refund will take place within T+2 Bank Working Days where T will mean the date on which information on rejection of bid is uploaded to the e-Procurement portal by the tender inviting authority.
- iii. Once the financial bid evaluation is electronically processed in the e-Procurement portal, EMD of the technically qualified bidders other than that of the L₁ and L₂ bidders will be refunded, through an automated process, to the respective bidders' bank accounts from which they made the payment transaction. Such refund will take place within T+2 Bank Working Days where T will mean the date on which information on rejection of financial bid is uploaded to the e-Procurement portal by the tender inviting authority. However, the L₂ bidder should not be rejected till the LOI process is successful.
- iv. If the L₁ bidder accepts the LOI and the same is processed electronically in the e-Procurement portal, EMD of the L₂ bidder will be refunded through an automated process, to his bank account from which he made the payment transaction. Such refund will take place within T+2 Bank Working Days where T will mean the date on which information on Award of Contract (AOC) to the L₁ bidder is uploaded to the e-Procurement portal by the tender inviting authority.

- v. As soon as the L₁ bidder is awarded the contract (AOC) and the same is processed electronically in the e-Procurement portal –
- a) EMD of the L₁ bidder for tenders of State Government offices will automatically get transferred from the pooling account to the State Government deposit head “8443-00-103-001-07” through GRIPS along with the bank particulars of the L₁ bidder.
 - b) EMD of the L₁ bidder for tenders of the State PSUs/Autonomous Bodies/Local Bodies/PRIs, etc will automatically get transferred from the pooling account to their respective linked bank accounts along with the bank particulars of the L₁ bidder.
- In both the above cases, such transfer will take place within T+1 Bank Working Days where T will mean the date on which the Award of Contract (AOC) is issued.
- vi. The Bank will share the details of the GRN No. generated on successful entry in GRIPS with the E-Procurement portal for updation.
- vii. Once the EMD of the L₁ bidder is transferred in the manner mentioned above, Tender fees, if any, deposited by the bidders will be transferred electronically from the pooling account to the Government revenue receipt head “0070-60-800-013-27” through GRIPS for Government tenders and to the respective linked bank accounts for State PSU/Autonomous Body/Local Body/PRIs, etc tenders.
- viii. All refunds will be made mandatorily to the Bank A/c from which the payment of EMD & Tender Fees (if any) were initiated.

4. Accounting and Monitoring Process:

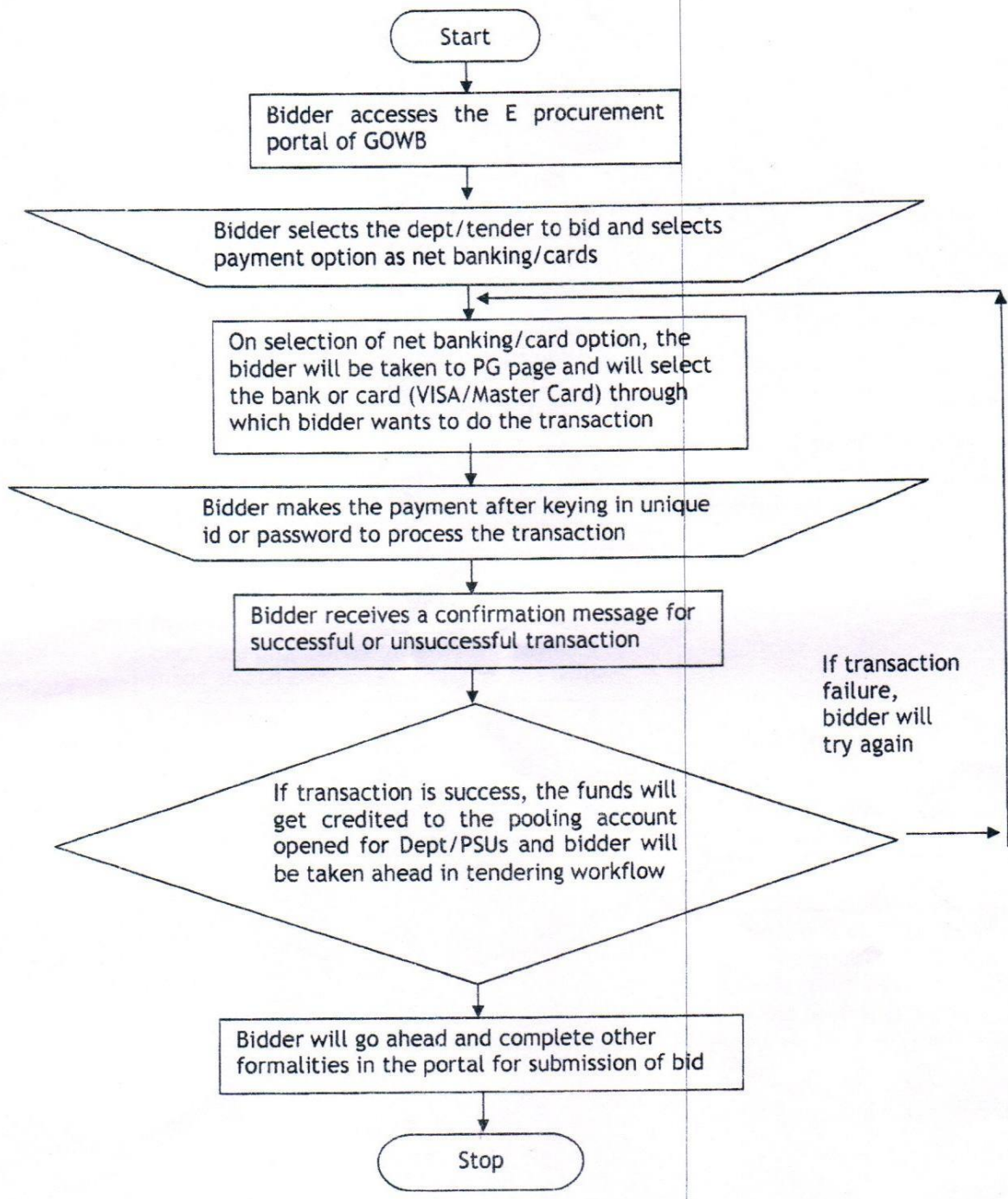
- i. The ICICI Internet Banking will communicate to the State Government e-Procurement portal all details of transactions on daily basis.
- ii. The Tender Inviting Authority of the Government Offices/PSUs/ Autonomous Bodies/Local Bodies/PRIs, etc will be using their respective e-procurement User ID and Password to view the EMD and Tender Fees deposited by the bidders in the pooling accounts.
- iii. The nodal officer of the Finance Department, Government of West Bengal will be able to view the Department-wise EMD and Tender Fees deposited by the bidders to the pooling accounts and fund transferred downstream at various stages of the tender process to the Government accounts and bidders’ accounts, as applicable by using user access as provided by NIC.
- iv. The details of NIC E-Procurement Help Desk and toll free numbers of ICICI Bank are given in annexure.

The system will become effective from 01/08/2016 and can be used by any Government Offices/PSUs/Autonomous Bodies/Local Bodies/PRIs, etc. with effect from that date. However, with effect from 01/09/2016, all the EMD/Tender fees in respect of e-tender of all State Government Offices/PSUs/Autonomous Bodies/Local Bodies/PRIs, etc will mandatorily be received and refunds/settlements made as per the procedure stated above.


(P A Siddiqui)

Secretary to the
Government of West Bengal
Finance Department

Process for payment through Payment gateway (PG) (Annexure I)



Process for payment through RTGS/NEFT (Annexure II)

