

**MORMUGAO PORT TRUST**  
**ENGINEERING CIVIL DEPARTMENT**

CE/WKS-404(Air Monitoring)/2016

31.08.2016

**Sub : Tender No. CE/72/2016 - Supplying, Installing, Testing and Commissioning of Air Monitoring Analyzers at Different Locations in Port Areas - Reply to Pre-Bid Queries.**

Sr. No	Tender Clause	Ref.	Queries	MPT's Reply
1.	Cl. No. 5 of Fact Sheet (Pg 1), Cl. No. 3 of Bid Invitation (Pg 9), Cl. No. 9 of Form of Tender (Pg 12), Cl. No. 1 of Part II (i) – Instructions for preparation and submission of tender Cl. No. 1.5 of Part II (i) – Instructions for preparation and submission of tender		Please confirm the following: We are a SSI Unit registered with NSIC/MSME as manufacturers of Ambient Air Quality Monitoring Station/System and the same is indicated at Sr. No. 2, 18 & 30 in the NSIC Certificate enclosed. And as per Cl. No. 1.5 of Part II (i) – Instructions for preparation and submission of tender we are allowed exemption from submission of EMD. Kindly confirm if we are allowed exemption from submission of Tender fee and EMD based on our registration with NSIC/MSME.  If no, please confirm if we can submit the EMD in the form of Bank Guarantee and not as Demand Draft.	No exemption is allowed for submission of EMD on production of NSIC Certificate. It is also confirmed that EMD is to be submitted in the form of Demand Draft.
2.	Cl. No. 1.2 (B) of Bid Invitation (Pg 6)		The no. of similar works has been interchanged between (a) & (c). Kindly confirm.	Corrected Technical Criteria as per Clause 1.2(B) is as stated below : <b><u>(B)Technical Criteria</u></b> (ii) The firm shall have experience of having

			<p>successfully completed the “similar works” during last seven years ending 31<sup>st</sup> March, 2016, in either of the following:</p> <p>(a) <b>One similar works each costing not less than Rs.105.20lakhs.</b> OR</p> <p>(b) <b>Two similar works each costing not less than Rs.65.75lakhs.</b> OR</p> <p>(c) <b>Three similar work costing not less than Rs.52.60lakhs.</b></p> <p>Note : (i) <b>“Similar Works” means the firm manufacture/assembles CAAQMS equipment or successfully implemented and Commissioned work of CAAQMS as per Technical specifications of the station and shall confirm to Guidelines for Sampling and Measurement of notified Ambient Air Quality Parameters (NAAQS 2009), Volume – I for manual analysers and Volume – II for CAAQMS issued by CPCB, Ministry of Environment and Forest, Government of India.</b></p>
3.	Cl. No. 1.3 of Bid Invitation (Pg 7)	<p>1) Please confirm the exact quantity of AAQMS systems required?</p> <p>2) Please confirm the items / equipments required in the existing station.</p>	<p>1) Quantity of CAAQMS systems required is 1 (One) No. as specified in Item No.(i) of Price Bid page (6)</p> <p>2) Existing CAAQMS equipments is having PM2.5 and PM10. Item No. (4) of Price Bid is with regards to providing Analyzers of SO2 &amp; NOx to the existing system.</p>

		<p>3) As there is requirement of more than one AAQMS station, please confirm if a Central Station is required in order to collect data from all stations and transfer the data to the Display Board.</p> <p>4) Please confirm the no. of lines required in Display Board.</p> <p>5) Please confirm where the Display Board will be installed and data from which AAQMS will be transferred to Display Board.</p> <p>6) Please confirm mode of communication from AAQMS to Display Board.</p> <p>7) Please elaborate more on "Manual Type" of Ambient Air analyzers required as no specifications of details related to such system is provided.</p> <p>8) Please confirm that all civil work like foundation/ platform for porta cabin, construction of earthing pits and</p>	<p>3) Item No.(2) of Price Bid is regarding LED display unit attached to each station separately.</p> <p>4)LED Display Board should be in single colour with visibility range 50m and following information shall have to be displayed :</p> <ol style="list-style-type: none"> <li>1) Name of Organization i.e Mormugao Port Trust.</li> <li>2) Location of Air Monitoring Unit i.e Port Institute, Vasco and Station at Kharewada.</li> <li>3) Date &amp; time.</li> <li>4) Results of PM10 &amp; PM2.5 with units.</li> <li>5) Results of SO2 &amp; NOx with units.</li> </ol> <p>5) Data will be transferred through LAN</p> <p>6) Mode of communication from AAQMS to Display Board will be LAN connection</p> <p>7) Manual Type Ambient Air Analyzers shall be provided to monitor PM10, PM2.5, SO2 &amp; NOx. Technical specifications of these stations shall confirm to guidelines for sampling &amp; measurement of notified Ambient Air Quality parameters.(NAAQS 2009, Volume-I for Manual Analyzers issued by CPCB, Ministry of Environment, Forest &amp; Climate Change, Govt. of India.)</p> <p>8) All civil works like Foundation/platform for porta cabin, construction and earthing pits and foundation for display board will be in Scope of Bidder.</p>
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		<p>foundation for Display Board will be in MPT's scope.</p> <p>9) With reference to Cl. No. (h), please confirm that the Power Supply will be provided inside each AAQMS station.</p> <p>In case the Power Supply is being provided at a point near the AAQMS station, please confirm the distance between the source and station.</p>	<p>9) Power supply for each CAAQMS is as per Item No. 10 to be provided from the source to Porta cabin.</p> <p>Please refer Item No.10 of Price Bid.</p>
4.	Cl. No. 3 of Bid Invitation (Pg 9)	As many of the items are imported, we suggest the completion period shall be 5.5 months from the date of receipt of techno-commercially cleared PO and not two months.	Completion period revised to <b>3 (Three) months</b> .
5.	Cl. No. 4 of Bid Invitation (Pg 9)	Maintenance period / Warranty Period shall be 12 months from commissioning or 15 months from date of dispatch, whichever is earlier. Kindly confirm your acceptance.	Maintenance period shall be 12 months from date of commissioning as specified in the tender. Please refer Part –I (ii) Clause 6 of Detailed Notice inviting Tender, Pg.9.
6..	Cl. No. 4.1.2 of Instructions for preparation and submission of tender	Format for Schedule of Quantities and Rates not provided in the tender documents	Please refer separate document of Price Bid.
7.	Part III (iv) Technical Specifications	The scope of work in Cl. No. 1.3 of Bid invitation (Pg. No. 7) calls for supply of NOx analyzers whereas Part III (iv) Technical Specifications (Pg. No. 57) provides specification for NH3 analyzer. Please confirm whether NOx or NH3 analyzer is	NOx analyzers are to be provided as per Item No.1 & 4 for CAAQMS as per Technical specifications confirming to Guidelines for Sampling and Measurement of Notified Ambient Air Quality Parameters (NAAQS 2009), Volume-II for CAAQMS issued by CPCB, Ministry of Environment, Forest & Climate Change,

		required to be quoted.	Govt. of India.
8.		Payment Terms shall be Supply: 100% payment against dispatch documents through bank; Supervision of Installation and Commissioning: 100% payment against completion of work and submission of invoice. Kindly confirm your acceptance.	Payment Terms shall be as per Sr. No.9 & 10 of Part I (iv) Appendix to the Tender Notice – I, APPENDIX – I.  Payment for Supervision of Installation and commissioning shall as per Sr. No.9 & 10 of Part I (iv) Appendix to the Tender Notice – I, APPENDIX – I.
9.	<b>Part III (iv) TECHNICAL SPECIFICATIONS (For Reference Only)</b>	We understand here that you require only NOx Analyzer and not the NH3-Ammonia Converter. Kindly confirm	It is confirmed that NOx analyzers are specified.
	Price Bid - <b>Schedule of Quantities and Rates</b>		
10	<b>Part III (iv) TECHNICAL SPECIFICATIONS (For Reference Only)</b>	Please note that the Multipoint calibration will be done with a calibrator, zero air unit and respective calibration gas cylinders and not with permeation source, etc. Kindly confirm	The Multipoint calibration will be made with a calibrator, zero air unit and respective calibration gas cylinders.
	Price Bid - <b>Schedule of Quantities and Rates</b>		
11	Price Bid - <b>Schedule of Quantities and Rates</b>	Please note that tender calls for specific make and model of Gas Analysers and SPM Analyzer which belongs to one of the bidders.	Although Model & Make are specified in Tender of specific brand but tenderers can quote equivalent model and brand. However gas analyzers and SPM analyzers shall confirm to Technical specifications

		Kindly delete the Model Nos. and make as this is 'Open' Tender.	Guidelines for Sampling and Measurement of Notified Ambient Air Quality Parameters (NAAQS 2009), Volume-I & II for CAAQMS issued by CPCB, Ministry of Environment, Forest & Climate Change, Govt. of India.
12	<b>1. INVITATION</b> <b>1.3 Brief Scope of the work:</b>	Please clarify the scope mentioned under Sl. No. 6 - Qty 4 nos. We understand from Sl. 6 – of price schedule that MPT requires additional 4 nos. of each PM 10, PM 2.5, SO2, NOx Analyzers and High Volume Sampler for measurement of PM 10, PM 2.5 separately. – Please clarify.	Item No.6 of Price Schedule requires 4 nos. each of PM10, PM2.5, SO2 and NOx analyzers separately. Each of above analyzers will form one set and four such sets will be procured under Item No.6 of Price Bid. Also refer to revised Price Bid for Item No.6.
	<b>Price Bid Schedule of Quantities and Rates Item No. 6</b>	Also please note that PM 10, PM2.5 simultaneous and continuous measurement in single high volume sampler with USEPA certification is not presently available. We shall offer two separate samplers for measurement of PM 10 and PM 2.5 separately  Kindly delete the text / word under (cl. ii) for High Volume sampler “based on designed standardized by US EPA” with “based on designed certified by US EPA” since this shall enable MPT to procure USEPA certified product for quality performance.	Please note high volume sampler for measurement of PM10 & PM2.5 shall have to be supplied separately as per Item No.6 of Price Schedule.  The same is noted and (cl. ii) for High Volume sampler will be based on design certified by US EPA” for quality performance.
13	<b>1. INVITATION</b> <b>1.3 Brief Scope of the work:</b>	1. Please clarify the distance between each AAQMS station to Display Board. 2. The data from Local AAQMS to the respective Display board if is via LAN.	1. Distance between CAAQMS station and Display Board is approx.30mts. 2. Provision of LAN connections with supply and cable laying, trenching, digging, etc at all
	<b>Price Bid</b>		

	<p><b>Schedule of Quantities and Rates Item No. 2</b></p>	<p>Than provision of LAN connections with supply and cable laying, trenching, digging, etc at all AAQMS Station and Display Board has to be provided by the Purchaser. Please confirm.</p> <p>3. However we recommend you, going for GPRS/GSM mode of data communication wherein Purchaser needs to select the local network provider and issue SIM card to the Bidder. Subsequent payment of monthly bills will also be in the scope of Purchaser. Please also note that GPRS/GSM mode of communication completely depends upon the signal strength of the service provider.</p> <p>4. Please provide the complete technical specifications for Display Board like no. of lines, single colour or multi colour, visibility range, etc.</p>	<p>CAAQMS Station and Display Board is including in Bidders scope as per Item No. 2 of Price Schedule.</p> <p>3. Suggestion from the Tenderer is not acceptable.</p> <p>4. Please refer Sr.No.3 (4) for details of Display Board</p>
14	<p><b>1. INVITATION</b> <b>1.3 Brief Scope of the work:</b></p>	<p>Please note that power supply back up is required continuously without break for smooth functioning of analysers, PC based data loggers, transmission of data, etc., hence it is highly recommended to use UPS instead of Inverter. There are many advantages for using UPS over Inverter as follows:</p> <p>1. In UPS, the time lag for back up after power cut is 3 to 8 milliseconds. In inverter, this time lag is about 500 milliseconds.</p> <p>2. In UPS the backup of power supply is</p>	<p>As power supply back up is required continuously without break for smooth functioning of analysers UPS will be installed. For detailed specifications please refer to Revised Price Bid Item No.7.</p>

		<p>rapid and doesn't become reason of system crash or loss of data. Whereas in inverter, the backup is not rapid and some hindrance is there due to which we faces system breakdown or data loss.</p> <p>3. An UPS is directly connected to different appliances However; the inverter takes help from main power supply line for providing electricity to different appliances. Etc.</p> <p>Hence UPS plays more beneficial role in providing supply at time and it has high backup power as compare to inverter.</p> <p>Therefore we propose UPS of 5 KVA with 4 hours battery back up and input Power Supply: 230V AC, 1Ø and Output Power Supply: 230V AC, 1Ø for all local AAQMS stations. Hence the quantity should be increased as per the AAQMS requirement.</p> <p>Please confirm your acceptance.</p>	
	<p><b>1. INVITATION 1.3</b> <b>Brief Scope of the work</b> <b>Price Bid</b> <b>Schedule of Quantities and Rates</b> <b>Item No. 4</b></p>	<p>With respect to the existing stations please clarify if any other analyzers, UPS with ___ capacity. 19' Rack, PC based data logger with PC slots and which data logging software is being used. Please provide all the above details so that we quote appropriate material.</p>	<p>The existing CAAQMS analyzers are having PM10 &amp; PM2.5 on 19" rack with PC based data logger with PCI slot along with data logging software. SO2 and NOx analyzers are to be mounted on same 19" rack along with hardware software if required to the existing one on the same rack 19" as per Item No. 4 of Price Schedule.</p>



15	<b>1. INVITATION</b> <b>1.3 Brief Scope of the work:</b>	<p>A. Please note that the RCC foundation for Porta Cabin shall be in the scope of Purchaser. Kindly Confirm.</p> <p>B. Also the provision of Earthing Pit–2 Nos. for each AAQMS station shall be in the scope of Purchaser.</p> <p>C. Purchaser to provide Power supply of 230V AC, 1Ø, 50 Hz near to the PDB of the Porta Cabin at each location. Kindly confirm</p> <p>D. Approach road to all the AAQMS stations will be provided by Purchaser.</p>	<p>A.The RCC foundation for Porta Cabin shall be in the scope of Tenderer for details refer Item No.9 of revised Price Bid.</p> <p>B. Earthing Pit–2 Nos. shall have to be provided by the Tenderer and is included in the Item No.1 and 4.</p> <p>C.Power supply to Porta Cabin, Please refer Item No.10 of Price Schedule.</p> <p>D. Necessary approach road are already provided near the CAAQMS.</p>
16	<b>1. INVITATION</b> <b>1.3 Brief Scope of the work:</b>	<ul style="list-style-type: none"> <li>Kindly confirm that the provision of Power Supply of 230V AC, 1Ø, 50 Hz and LAN connection for data display near to the display board will in Purchaser’s scope. Kindly confirm your acceptance</li> </ul>	Please refer detailed specification of Item No.2 of Price Bid wherein it is stated that power supply cable shall have to be taken from Porta cabin to LED display Board.
17	EMD	Please confirm if EMD in form of Bank Guarantee is acceptable.	EMD shall be in the form of DD amounting to Rs.1,31,500/- payable at Vasco from any Scheduled Bank in favour of Mormugao Port Trust,
18	Cl. No. 6 – Pg No. 9 – Free maintenance period	Please confirm if free maintenance period to be considered as warranty period, since tender do not specifies a separate clause for warranty period.	Free maintenance period is 1 year. During free maintenance period supplier has to attend all servicing calls in case of fault in the equipment including replacement of spares if any.
19	Appendix – I Cl. 8 – Security Deposit &	Please confirm if BG can be submitted in lieu of deduction towards retention deposit and	It is confirmed that Bank Guarantee can be submitted towards deduction of Initial Security Deposit and

	Retention Deposit	security deposit.	Retention Money.
20	Appendix – III – Estate rental Charges	Please confirm if Appendix III is applicable for this tender, since we shall be supplying Mormugao Port Trust with Integrated systems along with Porta cabin. The site installation shall be done inside the port cabin. Porta cabin shall be placed on the location specified by MPT. Kindly confirm if Appendix III is applicable for placement of Porta cabin. And If applicable, the same shall be in the scope of MPT.	Please note that Estate Rental will be charged during the execution of work if successful tenderer utilizing land/covered premises of Port. This is not applicable for Porta Cabin as it is one of the item to be supplied by the successful Tenderer.
21	Additional Special Instruction – Pg 32, Cl.12 – Charges towards electricity	Please confirm if electricity charges towards Installation & Commissioning and operation of CAAQMS from date of receipt for systems / materials at MPT shall be in the scope of MPT.	Electricity charges are applicable only if successful Tenderer obtains power connection for his site office or fabrication work etc.
22	<b>Clause Name: Completion Time – Two (2) Months</b>	Two (2) Months completion time is too short for executing this turnkey based project which involves Fabrication / Mechanical / Civil Jobs. Hence we request you to extend the completion time upto Four (4) Months to execute the job after work order placed.	Please refer Sr.No.4 above..
23	<b>Clause No. Item no-2</b> Supply of LED Display board size.....etc. complete	Please let us know the No of Lines of Display Board & Its Distance from CAAQMS location	Please refer Sr. 3(4) above.

24	<b>Clause No. Item no-4</b> Supply of AAQMS Analyzers for existing continuous air monitoring at the port institute....complete	We request you for site visit of existing continuous air monitoring stations for actual requirements.	Site visit if required can be arranged accompanied by Port official provided if any prospective bidder desires to do so.
25	<b>Clause No. Item no-9</b> Supply & installation of FRP Porta Cabin.....complete	Civil foundation, Earth pit / Earthing is required during porta cabin installation & the same shall be in vendor scope or Customer scope. Kindly confirm.	Please refer Sr.15 above..
26	<b>Clause No. 2 Rates and Prices to be Inclusive</b>	We understand that all quoted price shall be as per schedule of quantities and rates which is including sales tax on works contract, Exise Duty, VAT, Entry tax, Octroi, etc. if any. Service tax shall paid extra which shall not be included in quoted price as per schedule of quantities and rates. Kindly confirm for the same.	Clause No.2 is unchanged.

**CHIEF ENGINEER**

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