

**CENTRAL POLLUTION CONTROL BOARD
PARIVESH BHAWAN
EAST ARJUN NAGAR DELHI-110032**

MINUTES OF PRE BID MEETING

Sub : Project on Consultancy Services Project on Noise Mapping, Hot Spot Identification and Mitigation Plan for Noise Pollution Control in Delhi

Central Pollution Control Board has invited proposals for the project as cited above. In this context, a Pre Bid meeting was convened on 16.08.2022 to clarify issues raised by interested Bidders. The meeting was attended by the following :

From CPCB :

1. Shri N K Gupta, Scientist E and Divisional Head UPC-I
2. Dr. CK Dixit, Scientist C, UPC-I
3. Shri Danish Meena, Sc 'C', UPC-I

From S.G.S. Weather & Environmental Systems Pvt. Ltd.

4. Shri Alok Kumar Singh, SGS Weather
5. Shri K K Sinha

From ACOEM Ecotech Industries Pvt. Ltd.

6. Shri Manjul Pandey
7. pratik.shah@acoem.com
8. Sumit Kumar Das
9. Tiwari Jaideep

Others:

10. Shri J S Kamyotra (Freelancer Consultant)
11. Shri Shashank Mathur, Executive , Hexagon Geospatial ,Noida, Uttar Pradesh, India

Record of the discussion are as follows.

1. Sh. N K Gupta welcomed the participants. He requested participants for brief introduction and presenting the queries one by one.
2. Thereafter, representatives of **M/s S.G.S. Weather & Environmental Systems Pvt. Ltd. and M/s ACOEM Ecotech Industries Pvt. Ltd.** presented the issues for clarification by CPCB.
3. CPCB Team explained and clarified the queries. Details of issues raised and response of CPCB are summarized in the Annexure.
4. Bidders have been advised to submit the proposals as per discussion and clarification by CPCB.

The meeting ended with thanks to the chair.

Issues Raised by M/s S.G.S. Weather & Environmental Systems Pvt. Ltd.			
Para	Condition	Clarification Required / Bidders query	Response
Para 6.6 b	Manual monitoring will be carried out in the city after dividing city into grid of 3km x 3 km.	<p>Is monitoring required to be done in each grid?</p> <p>The scope tasks for a 24 hour Monitoring period, is that one location per grid or multiple points inside the grid as there may be more than 3-4 category zones.</p>	Monitoring will be carried out at 170 locations. Locations of monitoring shall be finalized by the successful bidder following the established scientific approach in consultation with CPCB
Para 6.6 c	Manual monitoring will be carried out in 170 locations approx. by covering major traffic junctions, major market and commercial areas, religious centres , silence zone and industrial clusters. Round the clock monitoring (24 hourly) shall be conducted at each location.	<p>Number of days of monitoring is not indicated. An option is to conduct 24 hourly monitoring covering different days of week including weekend for 03 days at each location. Considering number of system/ instruments that can be mobilized.</p> <p>In case 4 instruments are available, 4 sites can be covered/ week with mandatory weekend data, the entire monitoring programme will take weeks.</p> <p>In case 5 instruments are available, 5 sites can be covered/ week with mandatory weekend data, the entire monitoring programme will take 35 weeks. The number of system/ instruments will increase the project cost.</p>	<p>It is already mentioned in the RFP that 24 Hourly Monitoring will be carried out at each location. Monitoring will be carried out at 170 locations. Locations of monitoring shall be finalized by the successful bidder following the established scientific approach in consultation with CPCB</p> <p>It was clarified by CPCB that the Consultant must have adequate infrastructure facility and man power to complete the project as per</p>

			time-lines. The same has already been described in RFP
Para 6 d:	Apart from noise monitoring, traffic volumes and typical vehicle speeds also need to be monitored - measuring at 170 locations will also add to the cost hourly data for week-day and weekend need to be monitored	Will use secondary data such as satellite, Google traffic data etc. which can be procured with some price if permitted, and this cost also needs to be incorporated in our price proposal.	It has been clarified by CPCB that collection of data shall be responsibility of the Bidder following appropriate method. In case, the proponent intends to use satellite based data, the same needs to be validated with manual monitoring by proponent and accepted by CPCB.

Para 6 l:	Detailed screening of noise emitting sources across four zones of Delhi through physical verification is a huge task both time and cost intensive is herculean task	Remote sensing data based analysis with limited site screening (say about 50 locations) to minimize the project cost is proposed.	Issue clarified in meeting. Details as per Bid document are to be collected.
Para 6 h:	Sampling of the number of points for mapping the city may be decided on the basis of various aspects such as identification of the sensitive receptors and noise generating sources; dividing the area into suitable hot spots, grid based sampling and considering etc. In any case, the agency involved in noise mapping should present the selection of number of points in consultation with Municipal Corporations, State Police and State Pollution Control Boards, Research and Academic Institutes and Non-Government Organization.	CPCB shall facilitate in holding consultation with Municipal Corporation, State Police and State Pollution Control Boards, Research and Academic Institutes and Non- Government Organisation.	Agreed
Logistics:			
Para 6.10	Consultant must be equipped with appropriate Number of Type I Sound Level Meter and latest version of Software / Foreign models validated as per Indian Scenarios for developing noise maps.	The self-certification for validation as per Indian Scenario is adequate or it needs certification/ authorization/ approval of designated Agency.	Indian scenario of model is required. Necessary calibration & validation in model(s) may be done by bidders after basic research/ ground work. Further, for Type 1 certification of instrument, vendors may

		provide certification of manufacturer. With regard to development of noise maps, the software proposed with sound level monitor should be able to represent different sound sources prevalent in Indian cities, in order to develop a reliable or validated noise maps.
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Part B: Queries Raised by M/s ACOEM Ecotech Industries Pvt. Ltd.			
Gen:	We request you to clarify whether one or all the noise sources are to be considered for Noise Maps: i) Road ii) Rail iii) Air	Kindly confirm which airport? - INDIRA GANDHI INTERNATIONAL AIRPORT - SAFDARJUNG AIRPORT Also please clarify whether the industries are to be covered or not. If Yes, then what kind of Industries are to be considered?	All the sources of Noise are to be considered. Grid-wise monitoring will be conducted.
clause 6.5 (ii)(Page 31)	Please confirm whether there an existing Model Input Data and their format available with CPCB, e.g Propagation model: Terrain/Topography?	Further we request you to please clarify whose responsibility it would be for providing, collecting and organizing them and	Issue clarified in meeting. CPCB shall provide only the noise level data collected through 10 Nos. of Real Time
	Rail Geometry		

Buildings? Land of use?	Traffic information Infrastructure input	within what time frame this activity will be done.	Ambient Noise Level Monitoring Stations as operational in Delhi. Firm/Bidder is responsible to collect remaining requisite primary and secondary data.
Road Geometry Road surface Traffic counting with %heavy vehicle Vehicle speed	Air Air Routes Flight profile Traffic information	Is there a Land of Use of the region corresponding to the 4 types of zones defined with the limit levels. If yes, please share the format in which it is available	
Industry Geometry Lw (Sound Power) of Industry Source			
Clause 6.6	It is mentioned in the tender document that In the Indian scenario, there is no authorized model(s) that can be used for noise predictions.	Please clarify whether it is because of Honking Noise and also clarify whether it is the only reason. Further, Please confirm whether international standards can be applied to other type of sources.	Indian scenario of model is required. Necessary calibration & validation in model(s) may be done by bidders after basic research/ground work. The software proposed with sound level monitor should be able to represent different sound sources prevalent in Indian cities, in order to develop reliable or validated noise maps. The vendor need to carry out basic research / ground

			work in this regard.
Clause 6.6 (c):	With reference to the 24 Hours monitoring of approximately 170 Locations;	Please confirm whether the measured data in the form of report or the raw data along with dedicated software is to be provided or not. Also request you to confirm whether the monitoring can be done on any weekdays or barring weekends.	Issue clarified in meeting. This aspect has already been described at length in the RFP. Full-fledged report shall be required to be submitted
Clause 6.6 (f)	The tender asks for Accuracy of Noise Measurement as per IEC 61672-1(2002-05).	Please note that IEC 61672-1(2002-05) is outdated. The current available IEC standard is IEC 61672-1 (2013) Class 1. Request you to please incorporate IEC 61672-1 (2013) Class 1 standard for Accuracy of Noise Measurement	Agreed. Latest version of IEC61672-1 (2013) with amendment shall be considered for accuracy of noise measurement. .
Clause 6.7 :	Mitigation Plan;	We request you to please elaborate the expectation in terms of the level of details for the Mitigation Plan.	Issue clarified in meeting. Bidder is responsible to submit Mitigation plan as per findings of the project.
	Power computing:	Further , please clarify whether the administration will do the power computing or will it link to already calculated maps	All the calculations shall be the responsibility of the Bidder.

Clause 6.9	Software's / devices (with validity) procured for Noise Mapping study shall be handed over to CPCB	Please clarify whether the hardware used for monitoring is also to be Handed over or only the software.	All the softwares and hardware which are mentioned for procurement in the financial bid, shall be handed over to CPCB.
COMMERCIAL QUERIES			
6.12	<p>1) PAYMENT TERMS</p> <p>Payment to the Consultancy shall be made as per following terms and conditions:</p> <ol style="list-style-type: none"> 1. 30 % on award of work <p>(For private firms against bank guarantee of the similar amount valid beyond 90 days from the completion of work.</p> <p>(For Govt organization without bank guarantee)</p> <ol style="list-style-type: none"> 2. 20 % on submission of first draft report 3. 20 % on submission of concluding report. 4. 30% on acceptance of final report by CPCB 	<p>Proposed Payment Terms:</p> <ol style="list-style-type: none"> 1. 60 % on award of work 2. 10 % on submission of first draft report 3. 10 % on submission of concluding report. 4. 20% on acceptance of final report by CPCB 	Not agreed. Payment Terms shall be strictly as mentioned in the RFP.
	<p>2) Earnest Money Deposit</p> <p>Rs. 5,00,000/- (Rs. Five Lakhs only) IN FAVOUR OF "CENTRAL POLLUTION CONTROL BOARD" payable at DELHI</p>	Kindly confirm the availability of exemptions for the MSE Bidders.	Exemptions will be granted strictly as per policies of Govt. of India.
