

## **CHANDIGARH POLLUTION CONTROL COMMITTEE**

### **EXPRESSION OF INTEREST**

CPCC invites Expression of Interest (EOI) from reputed educational and research Institutions / Organizations recognized by State/Central Government for **“Study on Source identification and mitigation actions for Noise Pollution Using Noise mapping and prediction techniques.”** For details please visit <http://www.chandigarh.gov.in>. Last date for receipt of EOI is **30.03.2020** by **03.00 P.M.**

**(T.C. Nautiyal, IFS)**  
**Member Secretary**

## CHANDIGARH POLLUTION CONTROL COMMITTEE

### **Notice inviting Expression of Interest (EOI) for “Study on Source identification and mitigation actions for Noise Pollution Using Noise mapping and prediction techniques”**

#### **1.0 BACKGROUND**

**Noise pollution** refers to sounds in the environment that are caused by humans and that threaten the health or welfare of human or animal inhabitants.

The most common source of noise pollution by far, the one that affects the most people on the planet is motor vehicles. Aircraft and industrial machinery are also major sources. Additional noise pollution is contributed by office machines, sirens, power tools, and other equipment. The response of ear to sound is very dependent on the frequency content of the sound. The ear has a peak response around 2.5 – 3 kHz and has a relatively low response at low frequencies.

Noise health effects are both health and behavioral in nature. The unwanted sound is called noise. This unwanted sound can damage physiological and psychological health. Noise pollution can cause annoyance and aggression, hypertension, high stress levels, tinnitus, hearing loss, sleep disturbances, and other harmful effects. Furthermore, stress and hypertension are the leading causes to health problems, whereas tinnitus can lead to forgetfulness, severe depression and at times panic attacks.

In order to develop the management strategies or action plans for major cities and towns this kind of study has been a long desired felt. CPCC felt to take up the study on “**Source identification and mitigation actions for Noise Pollution Using Noise mapping and prediction techniques**” for compliance of Noise Pollution (Regulation and Control) Rules, 2000.

## **2.0 OBJECTIVES AND SCOPE OF WORK**

In order to address “**Study on Source identification and mitigation actions for Noise Pollution Using Noise mapping and prediction techniques**”, imperative pre-requisite and following steps under scope of services are proposed:

1. Identification and quantification of sources of noise pollution in the city Chandigarh
2. Mitigation measures to be suggested for reducing noise pollution in identified locations.
3. Mapping and modeling software to be used for visualization of data on impact area.
4. Noise maps to be used for communicating the noise situation to stakeholders, inform areas of planning such as construction, traffic & transport and to build a common understanding within the community.
5. Software for mapping and prediction to be delivered with proper training to officials of Chandigarh Pollution Control Committee for infrastructure development.
6. Report submission indicating Source identification, quantification and mitigation measures.

## **3.0 SCHEDULE FOR COMPLETION OF TASKS**

A maximum of five months time is allotted for the submission of draft report and one month for submission of Final report.

## **4.0 SUPPORT OR INPUTS TO BE PROVIDED BY CHANDIGARH POLLUTION CONTROL COMMITTEE**

Authorization letter will be issued in favour of institute/ organization for collection of data, in-depth study.

## **5.0 FINAL OUTPUTS WILL BE REQUIRED**

Comprehensive report for the city shall be prepared elaborately and a consolidated summary of each zone will be compiled as a separate compendium.

The final report will be accepted by the CPCC after having a detailed presentation on it.

## 6.0 ELIGIBILITY CRITERIA

The educational and Research Institutions/Organization recognized by State/Central Government should fulfill the following criteria:

- a) Knowledge/Experience in the same field.
- b) Adequate manpower having expertise in the same field/ 5 years or more experience in the field.

Forms for description of approach, methodology and work plan for performing the assignment, Team Composition and Task Assignment and Curriculum Vitae (CV) for proposed professional staff is attached at **Annexure-I**.

## 7.0 ROLE OF CPCC

- All relevant data available with CPCC shall be shared with the shortlisted Institute to collect the data from other sources and letters to concerned authorities will be given by CPCC.
- CPCC will extend logistical support to shortlisted institute for conducting workshops.

### 7.1. PROJECT MONITORING BY CPCC

A review Committee consisting of representatives from concerned fields constituted by CPCC will monitor the project progress and outputs.

## 8.0 SUBMISSION OF EOI

Interested agencies including Reputed Institute/ CSIR Labs/ Academic Institutes and other reputed organizations as per the eligibility criteria prescribed at para 6 of this documents may submit EOI in a sealed envelope by speed-post clearly super-scribed EOI for “**Study on Source identification and mitigation actions for Noise Pollution Using Noise mapping and prediction techniques**” to the Member Secretary, Chandigarh Pollution Control Committee, Paryavaran Bhawan, Sector 19, Chandigarh by 30.03.2020 by 03.00 P.M in hard copy and a CD containing the following information:

- a) type of organization
- b) areas of strength/specialization relevant to the scope of work and objectives
- c) previous relevant experience
- d) details of key staff to be entrusted for the assignment, together with their curriculum vitae

e) undertaking of the scope of work, objective, short approach and comments

**9.0 Late submission or submissions that do not conform to the above requirements will not be considered.**

**10.0 Based on the response received, suitable institute/ organization will be short-listed and the TOR document will be sent for submission of Technical and Financial Proposal.**

## ANNEXURE-I

### FORM -I DESCRIPTION OF APPROACH, METHODOLOGY AND WORK PLAN FOR PERFORMING THE ASSIGNMENT

(For small or very simple assignments the Client should omit the following text in Italic)

*[Technical approach, methodology and work plan are key components of the Technical Proposal. You are suggested to present your Technical Proposal (50 pages, inclusive of charts and diagrams) divided into the following three chapters:*

- a) Technical Approach and Methodology,*
- b) Work Plan, and*
- c) Organization and Staffing,*

*a) Technical Approach and Methodology. In this chapter you should explain your understanding of the objectives of the assignment, approach to the services, methodology for carrying out the activities and obtaining the expected output, and the degree of detail of such output. You should highlight the problems being addressed and their importance, and explain the technical approach you would adopt to address them. You should also explain the methodologies you propose to adopt and highlight the compatibility of those methodologies with the proposed approach.*

*b) Work Plan. In this chapter you should propose the main activities of the assignment, their content and duration, phasing and interrelations, milestones (including interim approvals by the Client), and delivery dates of the reports. The proposed work plan should be consistent with the technical approach and methodology to be adopted. A list of the final documents, including reports, drawings, and tables to be delivered as final output, should be included here.*

*c) Organization and Staffing. In this chapter you should propose the structure and composition of your team. You should list the main disciplines of the assignment, the key expert responsible, and proposed technical and support staff.]*

**FORM - II**  
**TEAM COMPOSITION AND TASK ASSIGNMENT**

<i>I. Professional Staff</i>				
Name of staff	Firm	Area of Expertise	Position Assigned	Task Assigned

<i>II. Support Staff</i>				
Name of staff	Firm	Area of Expertise	Position Assigned	Task Assigned



**FORM - III**  
**CURRICULUM VITAE FOR PROPOSED PROFESSIONAL STAFF**

1. **Proposed Position** [*only one candidate shall be nominated for each position*]:

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2. **Name of Firm** [*Insert name of firm proposing the staff*]:

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3. **Name of Staff** [*Insert full name*]:

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4. **Date of Birth:** \_\_\_\_\_ **Nationality:** \_\_\_\_\_

5. **Education** [*Indicate college/university and other specialized education of staff member, giving names of institutions, degrees obtained, and dates of obtainment*]: \_\_\_\_\_

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6. **Membership of Professional**

**Associations:** \_\_\_\_\_

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7. **Other Training** [*Indicate significant training since degrees under 5 - Education were obtained*]: \_\_\_\_\_

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8. **Countries of Work Experience:** [*List countries where staff has worked in the last ten years*]:

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**11. Detailed Tasks Assigned**

*[Lists of all tasks to be performed under this assignment]*

**12. Work undertaken that best illustrates capability to handle the tasks assigned**

*[Among the assignments in which the staff has been involved, indicate the following information for those assignments that best illustrate staff capability to handle the tasks listed under point 11.]*

Name of assignment or project: \_\_\_\_\_

Year: \_\_\_\_\_

Location: \_\_\_\_\_

Client: \_\_\_\_\_

Main project features: \_\_\_\_\_

Positions held: \_\_\_\_\_

Activities performed: \_\_\_\_\_

### 13. CERTIFICATION

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

\_\_\_\_\_ Date: \_\_\_\_\_  
*Day/Month/Year*

*[Signature of staff member or authorized representative of the staff]*

Full name of authorized  
representative: \_\_\_\_\_