

CENTRAL POLLUTION CONTROL BOARD
(Ministry of Environment and Forests)
Parivesh Bhawan, East Arjun Nagar, Delhi-110032

EXPRESSION OF INTEREST

Expression of Interest (Eoi) is invited from accredited environmental laboratories / institutions, having valid certification and technical capabilities to conduct “Baseline Survey of Industries in the states of Maharashtra, Gujarat and Tamil Nadu for Pilot Project of Emission Trading Scheme (ETS) for Particulate Matter (PM) in stationary sources (Stack)”.

The details of the project can be downloaded from the CPCB website <http://www.cpcb.nic.in/> as well as from Govt. tender website <http://www.eprocure.gov.in/cppp/> . The Eoi is to be submitted to the “Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi -110032” on or before **18th December, 2012** by 3 PM and will be opened at 3.30 PM on the same day.

(J. S. Kamyotra)
Member Secretary

CENTRAL POLLUTION CONTROL BOARD

(Ministry of Environment and Forests)

Parivesh Bhawan, East Arjun Nagar, Delhi- 110032

Notice inviting Expression of Interest (Eoi) for “Baseline Survey of Industries in the states of Maharashtra, Gujarat & Tamil Nadu for Pilot Project of Emissions Trading Scheme (ETS) for Particulate Matter (PM) in Stationary Sources (Stack)”.

Background

The above said pilot is proposed to be initiated at various industrial clusters in Gujarat, Maharashtra and Tamil Nadu. A fundamental motivation for the project is to rigorously evaluate whether such innovations can successfully deliver improved environmental outcomes (lower PM emissions), reduced cost of PM abatement for industry and increased compliance owing to better monitoring by Pollution Control Boards (PCBs).

The primary need for the Baseline Survey is to compliment and make possible critical objectives of the existing Pilot Project to evaluate Continuous Emission Monitoring Systems (CEMS) and Emission Trading of Particulate Matter (PM) in the three piloted states.

In order to evaluate the benefits of the pilot, it is necessary to collect baseline data on the existing situation in industries located in areas participating in the pilot project. This will allow evaluators to compare outcomes with and without CEMS and evaluate costs and benefits of these innovations. In absence of extensive field and industry level data on emission levels, processes, pollution control systems installed and existing pollution abatement technology, a comprehensive baseline survey is required to be conducted **in selected clusters of Gujarat, Maharashtra and Tamil Nadu.**

The Ministry of Environment and Forests, Central Pollution Control Board, and State Pollution Control Boards of Gujarat, Maharashtra and Tamil Nadu are the main stakeholders of this project.

Objectives

The objectives of the baseline survey are as follows;

- To collect data on PM emission levels in industry stack at inlet and outlet of the installed Air Pollution Control Devices (APCDs) by the approved method of iso-kinetic sampling

- To gather information in respect of APCDs installed, the existing pollution abatement technologies available in the industries, general information, etc. as per CPCB approved survey questionnaire

Scope

A total of about 1,000 industries have been identified for the baseline survey in the three pilot states. These units are located in the following industrial clusters (approximately 300 industries in each state):

Gujarat: In and around Surat

Maharashtra: Aurangabad, Chandrapur, Dombivali, Jalna, Kohlapur

Tamil Nadu: Chennai Greater Metropolitan Area (Ambattur, Chennai, Maraimalai, Sriperumpudur, Tiruvallur).

EPA/NABL Accredited Environmental labs / institutions will undertake survey within the stipulated time period (for the desired number of industries) and submit the prescribed survey questionnaire complete in all respects. The survey includes the following:

- Factors relating to current emission levels of participating industries- stack and flue gas characteristics, type of fuel and its consumption, fuel firing system and boiler characteristics, GPS location, other basic industry data, etc.
- Factors relating to cost of air pollution monitoring and control devices- CEMS, Ambient Air Quality Monitoring Systems and Air Pollution Control Devices (APCDs) currently installed with their specifications and current status.
- Measurement of the PM emission levels at the stack and just after the combustion source using approved method of iso-kinetic sampling.

The collection of information through approved survey questionnaire, including stack sampling (iso-kinetic sampling), will be conducted by comprising technical and non-technical persons and submission of report. The technical team will carry out stack sampling (iso-kinetic sampling) and gather the general information of the industries in parallel. The survey will be conducted under the supervision of the CPCB or appointed evaluation experts/research consultants.

The survey is being proposed in area/cluster wise industries and the accredited environmental labs/institutions may express their interest in undertaking one or more areas. The entire survey is expected to be completed within a period of three months from the date of award of contract. All selected environmental labs/institutions will be authorized to collect information from the allocated clusters (allocated by CPCB or the respective SPCBs) as per the baseline survey questionnaire and accordingly the respective industries will be directed to extend

cooperation to the assigned environmental labs/institution. In case an assigned lab/institution is unable to conduct the survey, they will have to provide a valid justification for the same.

Selected labs/institutions will report to a research consultant appointed by CPCB and will be expected to work within the specified timeframes.

Eligibility Criteria

Interested accredited environmental labs/institutions should fulfill the following basic criteria:

- **Certification Criteria for Selection of accredited Environmental Labs / Institutions**
Environmental Labs/institutions should possess valid accreditation from NABL (National Accreditation Board for Laboratories), or EPA or be accredited by any State Pollution Control Board in India. In Gujarat specially, all third party auditors allotted to Schedule II industries can also apply.

Accreditation/Certification as detailed above should include manual stack sampling for measurement of the following parameters: Particulate Matter (PM), CO₂/O₂ and velocity/flow.

- **Infrastructure and Survey Teams**
The labs should have necessary infrastructure to conduct sampling for particulate matter (PM) as per CPCB guidelines. The monitoring kit to be used for sampling should be calibrated. The labs/institutions should also have qualified personnel both in the field as well as in the lab.
- **Manpower**
The team should comprise qualified technical staff for iso-kinetic sampling as well as personnel for collection of financial and economic data from the site in-charge which is an integral part of the survey. Based on the survey location, the team should have atleast two team members who can communicate in the local language (Gujarati, Marathi, Tamil, and Hindi – based on location) as well as in English for proper understanding, interpretation and communication of the details of Survey Questionnaire.

Other important criteria for selection are:

- Ability to complete survey within the specified timeframe.
- Cluster based cost competitiveness and details of industries in clusters.
- Experience in industry surveys, stack sampling, etc. in the past with documentary evidence.
- The environmental lab/institutions should be financially sound.

Mode of Evaluation/Screening

The evaluation of the 'Expression of Interests' shall be undertaken based on the following criteria.

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| a. | Work Experience (past & on-going) | – 20 marks |
| b. | Nos. of technical / scientific staff & their qualifications | – 20 marks |
| c. | Own laboratory and Certification of the laboratory under E(P) Act – 1986 and ISO – 9001 | – 40 marks |
| d. | Nos. of parameters having NABL Accreditation | – 20 marks |

Total Marks– 100 marks

Submission of EOI

Interested accredited environmental labs/institutions fulfilling the above eligibility criteria may submit EOI in a sealed envelope by Speed Post clearly super-scribed ***Expression of Interest (Eoi) for Baseline Survey of Industries in the states of Maharashtra, Gujarat & Tamil Nadu for Pilot Project of Emissions Trading Scheme (ETS) for Particulate Matter (PM) in Stationary Sources (Stack)*** along with the following information to the **Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi- 110032** by **18th December, 2012** up to 3 PM.

- (a) Type of organization, date of establishment, etc. with supporting documents.
- (b) Areas of strength/specialization relevant to the scope of work and objective
- (c) Previous relevant experience including experience in industry stack sampling, field surveys, etc.
- (d) Details of key staff to be entrusted for the survey with their curriculum vitae. These details should be specified in terms of the number of teams available to work during survey period. One team will be sent to each industry to complete one survey and teams may be constituted accordingly.
- (e) Areas/cluster wise industries proposed for survey (please specify teams accordingly) and expected timeline to complete the same. One survey is expected to take about three to five hours per industry. Please also specify the area/ cluster wise industries that are preferred/possible to survey.
- (f) Please specify approximate itemized cost of undertaking one batch of surveys assuming one stack sampling per industry (inlet and outlet sampling) and filling up of survey questionnaire (observational technical questions and industry details to be obtained on site).

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

Based on the response received, suitable accredited environmental laboratories/ institutions will be short-listed and may be invited for a brief interaction where the complete survey questionnaire may also be discussed. Following this interaction, the ToR document will be sent for submission of Technical and Financial Proposal.