

**Haryana State Pollution
Control Board (HSPCB)**

**Expression of Interest (EOI) for
Source Apportionment And
Emission Inventory Study On
The Levels And Sources Of
Pollution In Faridabad,
Gurugram, Sonipat And Panipat
Haryana**

Invitation of Expression of Interest (EOI)

From

Educational / Research Institutions

**Source Apportionment and Emission Inventory Study
For Faridabad, Gurugram, Sonipat and
Panipat Cities of Haryana**



Haryana State Pollution Control Board

Date of Issue: 15.06.2022

Last date of Submission: 14.07.2022

INVITATION OF THE EXPRESSION OF INTEREST (EOI)

Date of EXPRESSION OF INTEREST (EOI)	15 June 2022
Item Description	Expression of Interest (EOI) for Source Apportionment and Emission Inventory Study for Faridabad, Gurugram, Sonipat and Panipat Cities of Haryana
Category	Technical Study
Last date & Time of submission of Expression of Interest (EOI) :	14 July 2022
Place of Submission of Bids	www.etenders.hry.nic.in
Submission of EXPRESSION OF INTEREST (EOI)	Financial Proposal to be kept in the form of Form-9.
Pre BID Meeting Date	24 June 2022
Opening Date & Time of Expression of Interest (EOI)	18 July 2022
Expression of Interest (EOI) Fees	Expression of Interest (EOI) Fee of Rs. 5000/- (Rs. Five Thousand Only)
Any Clarification	Name : Sh. Vinay Gautam, EE Haryana State Pollution Control Board Email : hspcbaircell@gmail.com Contact:- 9041049305

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A. Notice Inviting Expression of Interest (EOI)

INVITATION FOR EXPRESSION OF INTEREST (EOI) FOR SOURCE APPORTIONMENT AND EMISSION INVENTORY STUDY ON THE LEVELS AND SOURCES OF POLLUTION IN HARYANA

1. Haryana State Pollution Control Board (HSPCB) intends to engage State/Central educational and research institutions of National and International repute, to carry out a Source Appointment and emission Inventory Study on the level and Source of Pollution and prepare strategy for cost effective measures for abatement of air pollution in the areas of Faridabad, Gurugram, Sonipat and Panipat. The study will be for a period of 18 months.
2. HSPCB proposes to conduct the above study through reputed educational and research institutions and undertakings of the State/Central Government. Expression of Interest (EOI) for carrying out the proposed study for the sites/indicating the interest in carrying out source apportionment and emission inventory study prescribing cost effective measures for abatement of air pollution in the above area from such institutions are hereby invited.
3. The interested institutes may submit the Expression of Interest (EOI) by providing required information as per the prescribed format, which may be downloaded from the Website of www.etenders.hry.nic.in
4. The HSPCB reserves the right to reject any or all Expression of Interest (EOI) without assigning any reasons thereof.

The important details pertaining to the submission of the Expression of Interest (EOI) are as under:

Date of uploading of Expression of Interest (EOI)	15.06.2022
Date of pre-bid meeting	24.06.2022
Due date for submission of Expression Of Interest (EOI)	14.07.2022
Date of opening of Expression of Interest (EOI)	18.07.2022
Cost of Expression of Interest (EOI) document	Rs. 5000/-

The Expression of Interest (EOI) document can be downloaded from www.etenders.hry.nic.in .

Chairman, HSPCB

B. Need of the Source Apportionment (SA) and Emission Inventory (EI) Study

- An Original Application No. 21/2014 titled as Vardhman Kaushik Vs Union of India & Ors is pending in the Hon'ble National Green Tribunal (NGT).
- As per decision taken in the 9th meeting of State Level Committee in the matter of Vardhman Kaushik Vs Union of India & Ors constituted by the Hon'ble NGT held on 16.03.2018 under the chairmanship of Worthy Chief secretary, Haryana, it was decided that the Board may conduct a specific study on the levels and sources of pollution in Haryana through a reputed university and Principal Secretary (Higher Education) may be requested to coordinate the task.
- Environment Department Directorate had made a reference to the Higher Education Haryana for seeking proposal from the universities for conducting the study vide memo endst. No. DEH/2018/Study/576 dated 29.05.2018 and subsequently vide memo endst. No. DEH/2018/Study/890 dated 04.07.2018 and memo endst. No. DEH/2018/Study/2087 dated 30.10.2018.
- Director, Environment vide memo no. DEH/2019/2748 dated 02.01.2019 has forwarded the copy of research proposal for Monitoring Air Quality at Sonipat and Panipat District of Haryana submitted by Sh. Bhupinder Singh Assistant Professor in Environmental Sciences, Department of Basic and Applied Sciences, BPSMV, Khanpur Kalan, Sonipat.
- The Director, Environment vide memo no. DEH/2019/3113 dated 26.02.2019 has forwarded the proposal for Monitoring Air Quality in selected four cities adjoining to Delhi submitted by Co-ordinator & Principal Investigator, Department of Environmental Sciences, Maharishi Dayanand University, Rohtak.

The matter was placed before the Technical Advisory Committee (TAC) of the Board, and it was decided in the meeting held on 30.07.2019 that expression of interest may be called from the reputed university for carrying out the study in first phase in the Districts adjoining to Delhi i.e. Gurugram Faridabad, Sonipat and Panipat as the cost of the study will be more than Rs. 1 Lac.

B.1 Objective of the Assignment

Since, air quality in urban centers are affected by a variety of complex sources, detailed scientific studies are required for identification of major sources, assessing their contributions to urban air pollution and suggest

mitigation measures taking into consideration the techno-economic feasibility and other social factors. Accordingly, this study has been initiated to promote and demonstrate a more rational & proactive approach to air quality management in urban areas.

B.2 Study objectives:

- To profile Ground Level Concentration (GLC) of air pollutants in different parts of the city *along with air shed of the city* including background, residential, commercial/mixed areas and source specific “hot spots” viz. kerbside/roadside, industrial zones, etc.
- To develop “Emission Factors” (EF) for different categories of vehicles with due consideration to variations in fuel quality, technology, size and vintage of sources, control systems, etc.
- To select appropriate emission factors for other non-vehicular sources viz. industries, industrial & domestic fuel combustions, roadside dust, construction activities, generator sets, etc.
- To prepare inventory for different air pollutants, their emission rates & pollution loads from various sources along with spatial and temporal distribution in the city *including its air shed* covered under this project.
- To profile the source emission characteristics of different possible sources.
- To conduct source apportionment studies for PM10 and PM2.5 and prioritize the source categories for evolving cost-effective air pollution mitigation strategies/plans.
- To assess the impact of sources on ambient air quality under different management/interventions/control options and draw a roadmap of short term and long term measures as considered appropriate and cost effective to ensure “Cleaner air in urban areas”.

B.3 Scope of the Work

- The proposed study is being executed under *Comprehensive Action Plan for Clean Air for Cities of Gurugram, Faridabad, Sonapat and Panipat in Haryana*. Since, implementation of same interventions in two cities having different meteorology, topography and different typology of air polluting sources is unlikely to give same results, the choice of interventions to control urban air pollution has to be city- specific, drawn on the basis of scientific study with adequate & representative set of quality data/information.
- The scope of the study shall focus on following:
 1. The overall project scope includes city-specific air quality monitoring, complete characterization of ambient dust (PM10 and

- PM2.5), emission inventory, source profiling, and source apportionment using dispersion & chemical mass balance models.
2. To address all the expected anthropogenic emission sources in urban areas, it is planned to include many non-criteria pollutants in the study for understanding the extent of problem and comparison with earlier database. The major air pollutants covered in this project include SO₂, NO_x, CO, Benzene, Aldehydes, Alkenes, NMHC, THC, PAH, PM₁₀, PM 2.5, Ozone.
 3. The ambient air monitoring will be carried out over a period covering three seasons in a year to get representative data on seasonal variations in meteorology as well as activities that have bearing on air quality. The purpose of ambient air quality monitoring is not compliance verification. Therefore, it is proposed to carry out continuous monitoring for one month in each season for three seasons covering the whole year at all the monitoring locations.
 4. Air monitoring stations will be installed at locations such as kerbside, residential, industrial and background (away from all the sources and in upwind direction). Each city will have *at least five to seven* air monitoring stations. However, the number of monitoring stations can be extended to more depending upon the activity profile of a particular city.
 5. In order to catch the diurnal variations of sources as well as the typical meteorological changes, it is proposed to conduct 8-hourly monitoring (06.00 to 14.00s, 14.00-22.00, 22.00-06.00 hrs.) in a day. The sampling shall be done continuously for 30 days in a season. Thus for three seasons there would be 90 sampling days. Thus, total 90 sampling days would cover the all days of week to give a fair representation of three seasons of a year. Namely winter (Dec-Jan-Feb) Summer (April-May-June), post monsoon (Oct-Nov).
 6. Monitoring of meteorological parameters would be carried out simultaneously at each station at same height of ambient air monitoring to ensure proper representation of the activities of the surrounding area for a given monitoring location. Additional meteorological data for the study period will also be collected from India Meteorological Department (IMD).
 7. A detailed emission inventory would be carried out for *line, point* and *area* sources. Data on emission inventory, available through secondary sources, will be collected. Besides, primary surveys shall be carried out for identification & spatial distribution of sources and preparation of detailed emission inventory for zone of influence (2km x 2km area) around each ambient air quality monitoring location. City level emission inventory, available through secondary sources,

shall be refined based on the data generated through primary surveys carried out within the zone of influence around each monitoring location.

8. In order to get a wider cross section of vehicles in-use or on-road and the actual distance traveled by each sample vehicle, inspection & maintenance practices being adopted etc., a systematic survey of vehicle population will be undertaken in the city. Also, special emphasis will be laid on the emissions from vehicles of pre-BS II for assessing cost-effective solutions as these represent major segment in total vehicle population.
9. Emission factors developed by ARAI for each representative vehicles considering vehicle technology, age, fuel, traffic conditions and prevailing Inspection & Maintenance practices including influence of fuel quality with or without tail pipe treatment, will be used for estimating vehicular emission.
10. Emission inventory of industrial and other sources will be prepared through secondary sources. Primary surveys may also be conducted to crosscheck and validate the secondary data.
11. With regard to emission factors for point sources, firstly the database available on emission characteristics with Pollution Control Boards and other sources (particularly for small-scale industries) would be scanned. For area sources, certain database generated in a few USEPA studies (for India, Bangladesh and other countries of the region) would also be reviewed. For other source types, for which information is not available, the factor developed by USEPA, EU, WHO would be scanned and then their normalization for Indian conditions has to be done.
12. The Emission inventory (EI) data will be analyzed using appropriate technique like IPIECA tool, IVE model or other equivalent technique being used by reputed organizations like CARB, USEPA or EPEFE.
13. Source apportionment analysis will be carried out for PM₁₀ and PM_{2.5} using receptor model like CMB model. For this purpose, detailed analysis of PM₁₀ and PM_{2.5} will be carried out.
14. The study on source profiling of various polluting sources in Indian context will be considered to be used as input to CMB model for source apportionment study.
15. With regard to dispersion modeling and intervention analysis, refined city-level emission inventory will be used.
16. On completion of data collection, validation and interpretation of the assimilated information, a detailed road map will be drawn considering all possible measures for air quality improvement. These measures will be classified into short and long term with due priority

to low-cost measures that give maximum benefits.

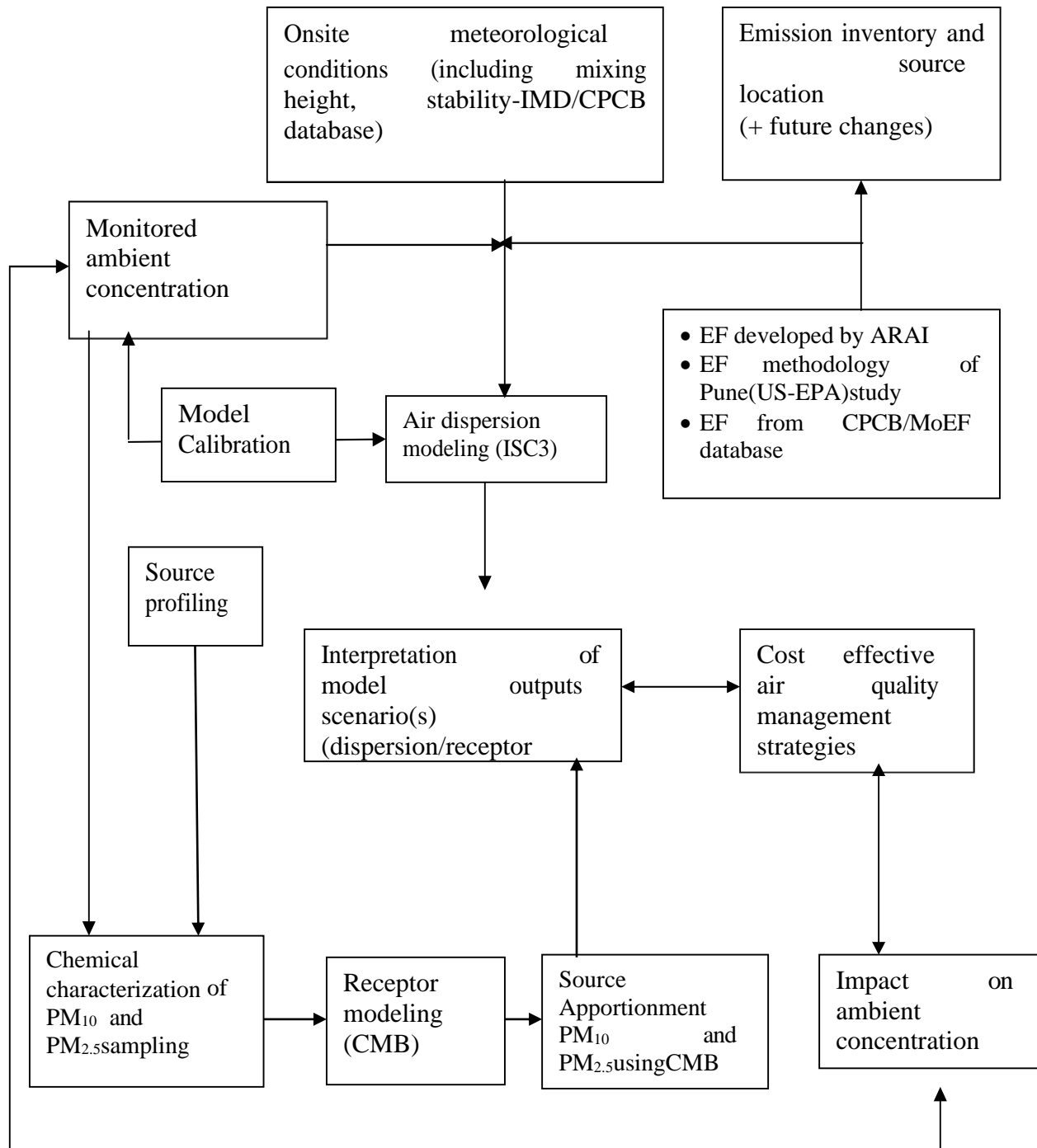
B.4 Study Area details

The study area shall be the city/ municipal limit of respective city and including its air shed.

B.5 Study Framework

The framework proposed for the present study is as below as Fig.

Fig. 1 : Proposed Study Framework



B.5 Expected deliverables of the assignment

Each assignment shall be for a period of **18 months** and the delivery schedule shall be as follows: -

1. Interim Report after completing field visits and monitoring of environmental parameters- **15 months.**
2. Draft final report - **17 months.**
3. Final report after incorporating modifications suggested by the Board - **18 months.**

C Expression of Interest (EOI)

C.1 Pre-qualification criteria

- Central and State Educational or research institute like IIT, NIT or CSIR laboratory or any other similar institutions by Govt. of Haryana / Govt of India.
- The institution must have similar type of experience in conducting Source Apportionment & Emission Inventory (SA & EI) or other such Air Pollution Control related and metrological studies.
- The institution should have capacity to undertake all type of measurement on atmospheric phenomena, Climate and weather monitoring facility survey of area, modeling studies and other related measurement towards execution of the project.
- The institutions should have qualified & experienced Environmental Engineers/ Meteorologists/ Atmospheric Experts, Surveyor etc. to conduct the field work as well as preparation of SA & EI. The educational qualification of functional experts, area of specialization and technical skill, experience and expertise in relevant field will be criteria for selection of institution.
- Reputed educational and/or research institutions (hereinafter referred as institution) complying with all the below eligibility criteria shall be eligible

C.2 Essential Criteria:

- a) **Registration/Affiliation/Recognition:**
Educational institution registered under a competent statutory authority in India duly affiliated to a University/Institute under the University Grants Commission/AICTE respectively.
OR
In case of a research institution, it must be a government/semi-government/autonomous body

registered under a statutory authority in India and engaged in research activities related to environmental management, medical sciences, health sciences or any other relevant field/specialty.

NOTE:

The institution must be an individual entity. Consortium/joint-ventures shall not be permitted. However, proposal comprising of more than one Department/Streams of an Institution are permitted.

b) **Specialization(Department/Stream):**

In case of educational institution, it shall have **minimum one** of the following Departments (diploma, graduation OR post-graduation):

i. Engineering: Environmental/Chemical

ii. Science: Environmental Science / Bio Sciences
Chemistry/Physics

NOTE:

In case of an Institute other than an educational institution, the criteria (b) are not applicable.

c) **Staff and Personnel:**

The institution must have adequate scientific and technical staff and student strength to undertake the assignment. Besides, the following criteria needs to be complied with and the same shall be furnished in the format enclosed in **Form-6** and **Form-7**.

No.	Particulars	No. of Personnel	Qualification	Experience
1.	Project Head	01	Doctorate in any of the specialization specified above	Minimum 10 years
2.	Project Coordinator	05 (minimum) per city	Master's Degree in any of the specialization specified above	Minimum 5 years

NOTE:

The minimum experience should be in relevant field as specified in Clause **C.2.B**

C.3 Preferable Criteria:

a) Projects executed in relevant field:

The institution must have executed **minimum two** projects in relevant specialization of streams specified in above. Ongoing projects shall be considered. Details of the same to be furnished in **Form-8**.

NOTE:

Individual Ph.D. or master's degree thesis of faculty/student shall not be considered for evaluation.

Selection Method:

C.4 Expression of Interest (EOI)

1. The Haryana State Pollution Control Board (HSPCB) invites Expression of Interest (EOI) from reputed educational &/or research institutions for the SA and EI for any one or more Towns as per the convenience and choice of the bidder.
2. Haryana State Pollution Control Board (HSPCB) shall shortlist only those institutions who fulfill the "essential" pre-qualification criteria specified in the Expression of Interest (EOI) document.
3. Haryana Environment Protection & Pollution Control Board (HSPCB) shall shortlist the institutions, based on evaluation of the Expression of Interest (EOI)s submitted by them for further selection.

C.5 Instructions to Institutions

Authorized Signatory

- The 'Applicant' mentioned in the Expression of Interest (EOI) document shall mean the one who has signed the Expression Of Interest (EOI) document forms. The applicant should be the duly Authorized Representative, for which a certificate of authority as per the format prescribed in **Form-3** duly authorized by the Head of the Organization should be submitted. All certificates and documents (including any clarifications sought and any subsequent correspondence) received hereby, shall, as far as possible, be furnished and signed by the Authorized Representative.
- Every sheet and all forms complete in all respects shall be signed by the person/persons duly authorized to sign on

behalf of the applicants with affixing the applicant's rubber stamp. Any/all corrections made in the offer shall be duly authenticated by the signature of the Authorized Signatory.

C.7 Documents to accompany Expression of Interest (EOI)

The applications shall be complete with the following documents:

- Form-1: Covering Letter to the Expression of Interest (EOI)
- Form-2: Form of Particulars
- Form-3: Declaration of Authorized Signatory and Power of Attorney
- Form-4: Affidavit or Self declaration
- Form-5: Details of existing Departments/streams as per the pre-qualification criteria
- Form-6: Details of scientific and technical core staff as per pre-qualification criteria
- Form-7:CV
- Form-8: Details of projects/studies conducted by the Institution as per pre-qualification criteria
- Letter/certificate of registration/incorporation
- Letter/certificate of affiliation to a university
- Copy of the EXPRESSION OF INTEREST (EOI) Document along with corrigendum, if any, duly signed at all pages.
- Form-9: Financial Proposal

NOTE:

- Non-submission of any one or more of the above documents including incomplete, false or misleading information shall result in disqualification.
- The applicant shall not change any details in the forms and formats of this EXPRESSION OF INTEREST (EOI) and shall strictly adhere to them.

C.8 Queries in EXPRESSION OF INTEREST (EOI) Document:

In case of any queries in the EXPRESSION OF INTEREST (EOI) document, a **pre-bid meeting** has been scheduled on 24.06.2022 at 01.00PM at **Meeting Room, HSPCB**. Representatives of applicant institution may attend the meeting to resolve any query regarding the EXPRESSION OF INTEREST (EOI) document.

In case the representatives of applicant institution are unable to attend the meeting, they may send their queries via e-mail latest by 24.06.2022 till 11.00AM on hspcbaircell@gmail.com the title of the EXPRESSION OF INTEREST (EOI) as subject of the e-mail. The entire proceedings of the pre-bid meeting including

clarifications, changes, modifications etc. will be minutized and uploaded on HSPCB's website <https://hspcb.gov.in/> and will be sent through e-mail only to those institutions whose representatives attended the pre-bid meeting and to the institutions who sent their queries via e-mail.

C.9 Submission of Expression of Interest (EOI)

All the documents shall be arranged in the sequence as specified above and shall be submitted online on the e Expression of Interest (EOI) portal www.etenders.hry.nic.in

C.10 Preliminary examination for the Expression of Interest (EOI)

- HSPCB shall examine the Expression of Interest (EOI) to determine whether they are complete, whether the documents have been signed as indicated in this document, whether all Forms as asked have been filled in properly, whether applications are generally in order and all information as indicated under various clauses have been furnished.
- HSPCB reserves the right to waive minor deviations in the Expression of Interest (EOI) if they do not materially affect the capability of the applicant institution to perform the assignment.

C.11 Evaluation

- The procedure of evaluation of the applications is indicated below:
- HSPCB has specified the pre-qualification Criteria in the EXPRESSION OF INTEREST (EOI) document with minimum qualifying requirement for each of the criteria i.e., registration/recognition, desired departments /streams, minimum years of experience etc.
- The Expression of Interest (EOI) will be evaluated by an Evaluation Committee (EC) constituted for the specific purpose. The scores will be assigned to the response of each institution based on the weightage assigned to each of the criteria in Expression of Interest (EOI). The weightage criteria will be followed as per following Table.

The scoring criteria

The scoring criteria	S. No	Sub Criteria	Marks	Total Marks
Past Experience of the Institute	1.	Past experience of studies of similar nature	36 (Upto 05 yrs studies =12) (06 to 10yrs studies=24) (More than 10 studies=36)	
	2.	Sector Past experience of studies in related sector	18 (Upto 05yrs studies = 6) (06 to 10yrs studies=12) (More than 10 studies =18)	
	3.	Studies Carried outside India	06	
	Total			
Experience of Key Personnel	1.	Qualification	07	
	2.	Relevant Experience	18	
	Total			
Facility available for conducting such studies	1.	Rating of the educational and research institution	15	
	Total			
Grand Total Marks				

- The assignment of marks within each criteria and final qualifying marks will be decided by the Evaluation Committee
- Financial Bid of the shortlisted educational and research institutions will be opened.
- The HSPCB reserves the right to reject any or all Expression of Interest (EOI)s without assigning any reasons thereof.

C.12 Presentation

As a part of Evaluation of Expression of Interest (EOI)s submitted by the applicants, HSPCB may seek further information or a presentation from the Institution at a short notice for evaluation purposes.

C.13 Rejection of Expression Of Interest (EOI)

The Expression Of Interest (EOI) is liable to be rejected if:

- The application is not received as per the conditions specified
- Not in prescribed forms and not containing all required details.
- Deliberately gives incorrect or misleading information in their Expression Of Interest (EOI) or wrongfully creates circumstances for the acceptance of the Expression Of Interest (EOI). Member Secretary, HSPCB reserves the right to reject such a bid at any stage.
- Any breach of any condition mentioned in this document.

C.14 Disclaimer

- HSPCB reserves all the right to annul/reject the Expression Of Interest (EOI) at any stage of the procedure
- HSPCB may reject any /all applications without assigning any reasons thereof.
- HSPCB may relax or waive any of the conditions stipulated in this document as deemed necessary in the best interest of the Institute without assigning any reasons thereof.
- HSPCB may include any other item in the Scope of work at any time after consultation with applicants or otherwise.

C.15 Project Timeline

Interim Report after completing field visits and monitoring of environmental parameters- **15months**

Draft final report - **17 months**

Final report after incorporating modifications suggested by the Board - **18 months**

The above timeline shall be strictly adhered to in all cases and thus the

resources may be deployed accordingly.

C.16 Amendments in Expression Of Interest (EOI)

- At any time prior to the deadline for submission of Expression Of Interest (EOI), HSPCB may, for any reason, whether at its own initiative or in response to clarifications requested by an Applicant, modify the Expression Of Interest (EOI) document by the issuance of Addendum/ Amendment and posting it on the Official Website.
- The amendments will be posted on the e Expression of Interest (EOI) Website along with the revised Expression Of Interest (EOI) containing the amendments and will be binding on all Applicants.
- In order to afford the Applicants a reasonable time for taking an amendment into account, or for any other reason, the HSPCB may, in its sole discretion, extend the last date of submission.

C.17 Data Security and Data Validation:

- The Haryana State Pollution Control Board (HSPCB) shall have absolute and sole right on the data and output thus generated/collected in the process of the entire Project. The institution shall be responsible for security and safe custody of data and documents. In no way the information/ data/ documents shall be used/ copied/ duplicated/ published/ supplied whole or in part during and after completion of the Project without prior written permission from the Chairman, HSPCB.
- In case of submission of false/incorrect data, delay or non-completion of work in prescribed time or any other case of non-compliance or discrepancy, the Chairman, HSPCB reserves the right to charge appropriate penalty or take any action which Member Secretary, HSPCB deems fit and suitable including permanent debarment from carrying out such works in future or blacklisting the institution. In such a case, the institution shall make no financial claim and shall remain bound to deliver satisfactory work in stipulated time duration.

C.18 Confidentiality:

The data will be the ownership of HSPCB, hence, any information pertaining to this Project shall be deemed to be confidential and the institution shall be fully responsible, for the same being kept confidential and help in trust, as also for all consequences of its concerned personnel failing to observe the same.

C.19 Force Majeure:

In case of delay in timely execution of the assignment caused by factors beyond the control of the institution, such as war, riot, earthquake, flood, fire or other natural disasters, restrictions imposed by the Government or other statutory bodies, the

institution shall advise the Member Secretary, HSPCB in writing at the beginning and the end of the above causes of delay, within seven days of occurrence and cessation of the force majeure conditions.

C.20 Agreement of Performance:

The Institution to which the work would be allotted shall execute an “Agreement of Performance” with HSPCB as per a prescribed format on a stamp paper of value not less than Rs. 100/-

C.21 Termination of Assignment:

In the event the institution fails to carry out the assignment in terms of this document or the work order within the stipulated period or any extension thereof, as may be allowed by the Chairman, HSPCB without any valid reasons acceptable to the Chairman, HSPCB, the Chairman, HSPCB may terminate the assignment after giving seven days’ notice. The Chairman, HSPCB may give the institution a chance to put for the reasons for delay/non- performance before deciding on the matter.

C.22 Completion of Assignment:

The assignment would be considered complete and completion certificate would be issued to the institution upon:

- a. Receipt of Final Report, complete in all aspects other satisfaction of Chairman, HSPCB.
- b. Payment of all dues against the services offered subject to fulfillment of the terms and conditions of this order.
- c. Settlement of all issues between both the parties to the satisfaction of Chairman, HSPCB.

C.23 Scope not Exhaustive

The Scope of work specified in this **Expression of Interest (EOI)** are not exhaustive and the institution shall undertake such other tasks as may be necessary to execute the satisfactory completion of the assignment as per the requirements of HSPCB.

C.24 General Terms and Conditions:

- For all matters pertaining to this Project, the decision of Chairman, HSPCB shall be final and binding on both the parties.
- For all legal matters, Panchkula shall be the jurisdiction.
- The Institution should not anywhere in the Expression of Interest (EOI) quote or mention the rates/charges. This would lead to disqualification.
- The Chairman, HSPCB reserves the right to cancel this Expression of Interest (EOI) any time during the period of assignment and is not liable to furnish any reasons or give any notice/intimation in

advance.

- HSPCB reserves the right modify the scope or any other condition in EOI before allotment of the work.

C.25 Financial Proposal

The Expression of Interest (EOI) shall be accompanied with the Financial proposal as per form—9.

Sub-contracting of any kind of work, by any means shall not be permitted in any case.

**Form-1: Covering Letter to the Expression of Interest (EOI)
(To be printed on the institution's letter head)**

Ref. No

Date:

To,

The Chairman,
Haryana State Pollution Control Board (HSPCB)
C-11, sector 6, Panchkula
Haryana.

Subject: SUBMISSION OF EXPRESSION OF INTEREST (EOI) FOR SOURCE APPORTIONMENT AND EMISSION INVENTORY STUDY ON THE LEVELS AND SOURCES OF POLLUTION IN FARIDABAD, GURUGRAM, SONIPAT AND PANIPAT CITIES OF HARYANA

Sir,

Having examined the completeness of Expression of Interest (EOI) document, studied all the clauses of the same I/we, the undersigned expresses its interest to undertake the said assignment for carrying out of the above subjected works in conformity with the work order being awarded up to the stage of completion of works.

(Name of the institution) hereby submits the "Expression of Interest (EOI)" for consideration of our institution for undertaking the work subjected above. The submission, duly signed and stamped at all pages, comprises, separately of:

1. Form-2: Form of Particulars
2. Form-3: Declaration of Authorized Signatory and Power of Attorney
3. Form-4: Affidavit or Self declaration
4. Form-5: Details of existing Departments/streams as per the pre-qualification criteria
5. Form-6: Details of scientific and technical core staff as per pre-qualification criteria
6. Form-7: Format of CV of staff proposed
7. Form-8: Details of projects/studies conducted by the Institution as per pre-qualification criteria
8. Letter/certificate of registration/incorporation
9. Letter/certificate of affiliation to a University
10. Copy of the Expression of Interest (EOI) Document along with corrigendum, if any, duly signed at all pages.

We have not made any tampering or changes in the Expression of Interest (EOI) documents and if any tampering or changes are detected at any stage, we understand the Expression of Interest (EOI) will invite summary rejection / the contract will be liable to be terminated, even if work order has been issued.

I/We understand that, the Haryana State Pollution Control Board (HSPCB) is not bound to accept any Expression of Interest (EOI) that the Institute may receive.

I/We hereby declare that my/our Expression Of Interest (EOI) is made in good faith and the information contained is true and correct to the best of my/our knowledge and belief.

Thanking You.

Yours
faithfully,

Signature of Authorized

Signatory Name:

Designation:

Seal of Institution:

Form-2: Form of Particulars

Fill in the information as required in the form below (all fields are mandatory)

Name of the Educational/Research Institution		
Date of Registration/ Incorporation/ Establishment of the Institution		
Address of Communication		
Letter/certificate of Registration/ Incorporation / (attach separately)		
Letter/certificate of affiliation to a university (attach separately)		
Phone:		
E-mail:		
Name of Department(s) handling the project		
Mobile No.		

I hereby declare that the above information is true to the best of my knowledge, and I am authorized by the institution to fill up and submit on its behalf.

Authorized Signatory

Institution seal

Name and
Designation:

**Form-3: Declaration of Authorized Signatory and Power of Attorney
(To be printed on the institution's letter head)**

Ref.No.

Date:

To
The Chairman,
Haryana State Pollution Control Board (HSPCB)
C-11, Sector 6, Panchkula
Haryana.

Subject: Declaration of Authorized Signatory for the Submission of Expression of Interest (EOI) for Source Apportionment And Emission Inventory Study On The Levels And Sources Of Pollution In Faridabad, Gurugram, Sonipat And Panipat cities of Haryana

Know all men by these presents, We, **(name of the institution)** do hereby constitute, nominate, appoint and authorize ___and presently residing at___who is presently employed with/retained by us and holding the position of_____as our true and lawful attorney (herein after referred to as the“ Authorized Signatory”)to do in our name and on our behalf, all such acts, deeds and things as are necessary or required in connection with or incidental to submission of our Expression of Interest (EOI) for **“Source Apportionment And Emission Inventory Study On The Levels And Sources Of Pollution”** for Haryana State Pollution Control Board including but not limited to signing and submission of all applications, proposals and other documents and writings, participating in meetings and other conferences and providing information/responses to the Board, representing us in all matters before the Board, signing and execution of all contracts and undertakings consequent to acceptance of our Expression Of Interest (EOI) and proposal and generally dealing with the Board in all matters in connection with or relating to or arising out of our proposal for the said EOI and/or upon award thereof to us till the entering into of the Agreement with the Board.

AND, we do hereby agree to ratify and confirm all acts, deeds and things lawfully done or caused to be done by our said Authorized Signatory pursuant to and in exercise of the powers conferred by this Power of Attorney and that all acts, deeds and things done by our said Authorized Signatory in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us.

IN WITNESS WHEREOF WE, **(name of the institution)** THE

ABOVE NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON THIS DAY OF _____ month), 2022
For **(name of the institution)**.

Signature and seal of Head of the Organization

Witnesses:

1) _____

2) _____

Form-4: Affidavit or Self declaration

Ref : Call for Expressions of Interest for “Source Apportionment And Emission Inventory Study On The Levels And Sources Of Pollution In Faridabad, Gurugram, Sonipat And Panipat Haryana

1. I/We declare that our institution has not been banned/de-listed/debarred/ blacklisted by any Authority/Agency in India.
2. I/We also agree to abide by the highest ethical standards in the profession and, in particular, have no potential conflict of interest.
3. I/We will inform the Authority immediately if there is any change in the above circumstances at any stage during the Expression of Interest (EOI)/RFP procedure or during the implementation of the project;
4. I/We fully recognize and accept that any inaccurate or incomplete information deliberately provided in this Expression of Interest (EOI) may result in my/our exclusion from this or other assignments/projects funded by the Authority.
5. In response to your call for Expression of Interest (EOI), I/ We hereby declare that I/We, am/are not in any of the situations that de bars me/us from participation in the Expression Of Interest (EOI).

**Signature of Authorized
Signatory Institution seal**

Form-5: Details of existing Departments/streams as per the pre-qualification criteria

Specify the details of the Departments in the institution only as per the eligibility criteria of the Expression of Interest (EOI).

Sr. No.	Name of Department	Course offered	Total no. of faculties	Total no. of students	Whether aspect of source apportionment study and E.I. study is included in the curriculum? (Yes / No) attached copy of curriculum / Syllabus (with Institution seal)

**Signature of Authorized
Signatory Institution
seal**

Form-6: Details of scientific and technical core staff as per pre-qualification criteria

Specify the details of the existing scientific and technical core staff

i. Project Head (One)

S.No.	Name	Designation	Qualification	Experience

ii. Project Coordinators (Minimum Five per city)

S.No.	Name	Designation	Qualification	Experience

**Signature of Authorized
Signatory Institution
seal**

Form-7: Format of CV
(Enclose CVs of all personnel proposed in Form-6) (Total 6 copies
minimum per city)

Proposed position for the assignment: (Tick whichever applicable)	Project Head/ Project Coordinator
Name:	
Current Designation at the Institution:	
Department/Stream:	
Date of Birth:	
Residential Address:	
Mobile No.	
E-mail ID:	
Educational Qualification: (The years in which various qualifications were obtained must be stated)	
Trainings attended:	
Language Proficiency: (Indicate proficiency in speaking, reading and writing of each language by excellent, good, fair or poor)	
Proficiency in basic computer skills like MS-Office and other basic functions (Indicate proficiency by excellent, good, fair or poor)	
Membership in Professional Bodies:	
Employment Record: (Starting with present position; specify duration of employment, employer, designation and major duties performed)	
Publications:	
Description of Duties: (Describe the works undertaken in past that best illustrate or relates your capability to handle this assignment. In this column, list project name, location, year, position held and exact duties rendered, and time spent on each project)	

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

Signature
Date

Form-8: Details of projects/studies conducted by the Institution as per pre- qualification criteria

Project Name:		
Project Location within Country:		
Name of Client:		
Start Date (Month/Year):	Completion Date (Month/Year):	Approx. Value of Services (optional)
Name of Senior Staff (Principal Investigator/Coordinator/ Research Associate etc.) involved and functions performed:		
Detailed Narrative Description of Project:		
Detailed Description of Actual Services provided:		

NOTE:

Please also note that the copies of sanction letters/work orders and satisfactory completion certificate from the funding agency/client shall be required to be submitted for all the references mentioned above.

Signature of Authorized
Signatory Institution
seal

**Form-9: Financial Proposal to carry Out Source
Apportionment and Emission Inventory Study On The Levels
And Sources Of Pollution In Faridabad, Gurugram, Sonipat
And Panipat Haryana**

**“To be kept in a separate sealed envelope
superscripted as “Financial Proposal”**

S. No.	Name of District for which Source Apportionment and Emission Inventory Study On The Levels And Sources Of Pollution	Financial Proposal in Indian Rupees
1	Faridabad	
2	Gurugram	
3	Sonipat	
4	Panipat	
	Taxes	
	Total	
	In Words--	