

Amendment No. 1 dated 28.09.2012 in context to
"Notice inviting Expression of Interest (EOI)"
For
Project on 'Monitoring, Sampling and Analysis for
ambient air quality, surface water quality and ground water
quality in the Critically Polluted Areas (CPAs)'
(Advt. No. B-29012/ESS/CPA/2012-13)

Apropos above, following amendment is hereby made :

Sl. No.	Page No.	Clause No. / Details	As per original Document on TOR of the Notice inviting EOI	Amendment
1	1	Last date of submission of the EOI	Last date of submission is October 12, 2012 by 1.00 PM.	Last date of submission is extended upto October 19, 2012 (3.00 PM)

This is for information please.

**Member Secretary
Central Pollution Control Board**



(NO. B-29012/ESS/CPA/2012-13)
CENTRAL POLLUTION CONTROL BOARD
(Ministry of Environment & Forests)
Parivesh Bhawan, East Arjun Nagar
Delhi-110032

“Notice inviting Expression of Interest (EOI)”

For

Project on ‘Monitoring, Sampling and Analysis for ambient air quality, surface water quality and ground water quality in the Critically Polluted Areas (CPAs)’

Expression of Interest is invited from eligible Expert Agencies for the project on ‘Monitoring, Sampling and Analysis for ambient air quality, surface water quality and ground water quality in Critically Polluted Areas (CPAs)’ during 2012-13 for execution through engagement of outside Expert agency on MoU/Agreement basis.

The interested expert agencies are requested to submit the EOI alongwith necessary documents related to profile of the agency, work experience, details of technical & scientific personnel, certification under Environment (Protection) Act, 1986 from MoEF, accreditation under NABL and certification under ISO – 9001. For details on Background, Objectives and Terms of Reference of the Project, the interested parties are requested to visit the web-site of CPCB <http://www.cpcb.nic.in/Tenders.php>.

The interested parties are requested to submit the EOI to **“The Member Secretary, Central Pollution Control Board, ‘Parivesh Bhawan’, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032”** and the last date of submission is 12.10.2012, by 1.00 PM.

Sd/-
Member Secretary
Central Pollution Control Board

(NO. B-29012/ESS/CPA/2012-13)
CENTRAL POLLUTION CONTROL BOARD
(Ministry of Environment & Forests)
Parivesh Bhawan, East Arjun Nagar
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Expert Laboratories /Organizations should have the following qualifications / requisites:

1. The agency should have similar type of work experience. It should have been awarded and successfully completed at least 5 similar types of projects during last seven years each costing not less than Rs. 25.00 Lacs.
2. It should have its own laboratories and qualified technical & scientific personnel.
3. The laboratory of the agency should have valid certification/recognition under Environment (Protection) Act, 1986 from MoEF.
4. The laboratory of the agency should have valid NABL Accreditation. Weightage will be accorded based on the number of parameters having valid NABL Accreditation.
5. The agency should have valid ISO 9001 certification.

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Sd/-
Member Secretary
Central Pollution Control Board

**Project
on
'Monitoring, Sampling and Analysis for ambient air quality, surface water quality and
ground water quality in the critically polluted areas (CPAs)'**

1. Background :

Environmental pollution due to increasing industrialization and urbanization has reached to the alarming levels. Indiscriminate disposal of different categories of wastes into the environment at many places have resulted in serious damage to the natural resources (soil, water and air), flora & fauna, and health of human beings.

The Central Pollution Control Board (CPCB) initiated a programme to identify critically polluted -areas for initiating concerted action and monitoring at the national level to improve the environmental conditions in these areas. Based on the available information such as air and water quality data, public complaints, parliament questions, etc., and visual environmental conditions, CPCB and State Pollution Control Boards (SPCBs) prepared a list of the potentially polluted areas.

Since the inception of the programme, CPCB has formulated Action Plans to mitigate the environmental pollution problems for each of the CPAs and implementation of action plans along with the environmental status are being reviewed from time to time. These Action Plans were also revised from time to time by adding some new action points, whenever required.

During 2009-10, Central Pollution Control Board (CPCB) in collaboration with Indian Institute of Technology (IIT), Delhi formulated the criteria for Comprehensive Environmental Pollution Index (CEPI) and 88 prominent industrial clusters have been identified in consultation with the Ministry of Environment & Forests for CEPI analysis. CEPI of these industrial clusters have been evaluated using data/ information available with CPCB and concerned SPCBs/ PCCs. Out of these 88 identified industrial clusters, the CEPI score of 43 industrial areas/clusters were found more than 70 and were declared as critically polluted.

These 43 critically polluted industrial clusters need further detailed study in terms of the extent of damage and formulation of appropriate remedial time bound action plans. A comprehensive analysis of spatial and temporal data for the identified critically polluted industrial clusters shall define the spatial boundaries and extent of damage to the eco-geological features. The effective implementation of the remedial action plans will help in control of pollution and to restore the normal environmental quality in these industrial clusters.

2. Objectives

Monitoring of identified Critically Polluted Areas in terms of air, surface water and ground water quality parameters which could be used for assessment of the environmental quality of the area for inclusion/ deletion as CPAs.

3. Terms of Reference

Clause 1. Name of the Project:

The name of the project is **“Monitoring, Sampling and Analysis for ambient air quality, surface water quality and ground water quality in the critically polluted areas (CPAs)”**.

Clause 2. Sponsoring Agency:

The sponsoring agency is Central Pollution Control Board (CPCB), Delhi

Clause 3. Terms and Conditions:

- i. The Expert Agency shall carry out the monitoring, sampling and analysis work for ambient air quality, Surface water quality and ground water quality monitoring in identified 43 CPAs during 2012- 13 or during the period as mutually agreed upon.
- ii. The list of identified industrial clusters for which monitoring, sampling and analysis work shall be carried out by the laboratory, is placed at Annexure-1.
- iii. The Expert Agency may submit the proposal to cover either all the 43 CPAs or selected CPAs . However, in each of the proposed CPAs, complete monitoring (air quality, surface water quality and ground water quality) for all the designated parameters should be performed.
- iv. It shall be at the sole discretion of the Competent Authority, CPCB to award the work either in parts or as a whole.
- v. The list of the parameters for ambient air quality monitoring, surface water quality monitoring and ground water quality monitoring, is given in Annexure 2.
- vi. The rates for monitoring, sampling and analysis (including transportation & other miscellaneous charges) should be clearly quoted for the following items-
 - a. Charges per sample per location for ambient air quality monitoring.
 - b. Charges per sample per location for surface water monitoring.
 - c. Charges per sample per location for ground water quality monitoring
 - d. Charges per sample per location for bio-assay test. Bio-assay test will be conducted on selected samples (to be informed by CPCB).
- vii. Service tax shall be paid as per the applicable norms and TDS shall be made as per rules applicable.

- viii. **Details of Project Team suitability & experience.** The offer should contain the details of the infrastructure / laboratory facilities available with the interested party and also provide a list of personnel proposed to be deployed for the assignment, outlining specifically the qualifications & experience of each person relevant to this project and each member's role and responsibility.
- ix. The evaluation of the 'Expression of Interests' shall be undertaken based on the following criteria-
- | | | |
|-------------------------|---|------------|
| i. | Work Experience | - 20 marks |
| ii. | Nos. of technical / scientific staff & their qualifications | - 20 marks |
| iii. | Own laboratory and Certification of the laboratory under E(P) Act - 1986 and ISO - 9001 | - 40 marks |
| iv. | Nos. of parameters having NABL Accreditation | - 20 marks |
| Total Marks - 100 marks | | |
- x. No EMD (earnest money deposit) is required at the time of submission of 'Expression of Interest'. However, the shortlisted & qualified bidders shall be requested to submit the proposal (technical & financial bids) accompanied with an EMD (earnest money deposit) of Rs. 3,00,000 (Rs. Three Lacs only) in the form of Demand Draft in favour of Central Pollution Control Board, Delhi. That EMD should be valid for at least six months. The EMD of unsuccessful bidders shall be returned after award of work to successful bidder. The EMD of successful bidder shall be returned after completion of the project & submission of the satisfactory report, however no interest will be paid. Any proposal received without EMD will be rejected summarily.
- xi. The Executing agency shall carry out the monitoring, sampling and analysis works as per the procedure and norms stipulated in 'Standard Methods'.
- xii. At each of the CPAs, 24 hourly ambient air quality monitoring shall be carried out for parameters at Annexure-2. Also representative samples each for surface water quality and ground water quality shall be collected from prominent surface and ground water bodies located in and around the clusters/ areas.
- xiii. The Executing agency shall submit the complete monitoring, sampling and analysis reports including summary of the parameters exceeding the prescribed standards / norms for each of CPAs within a period of 2 months from the commencement of the monitoring.
- xiv. The Executing agency shall inform to CPCB about the constitution of the teams, names and contact nos. of team leaders and their visit schedule to the allocated CPAs for the monitoring and sampling works.
- xv. The Executing agency shall co-ordinate with the concerned Zonal Offices of CPCB and local SPCBs officials for efficient monitoring and sampling works.
- xvi. The Executing Agency shall also provide the monitoring schedule to the concerned SPCBs /PCC and Zonal Offices of CPCB to ensure their participation in the monitoring & sampling works.
- xvii. Payment shall be made in 2 parts as follows-
- a. 50% of the payment on completion of the monitoring, sampling and analysis work and on submission of the satisfactory reports in respect of 50% of the CPAs allocated / covered.

- b. Remaining 50% of the payment on completion of the monitoring, sampling and analysis work and on submission of the satisfactory reports in respect of remaining CPAs allocated / covered.
- xviii. All the information and data generated or collected during the execution of the work shall be treated as confidential and sole property of CPCB and the findings of the study shall not be published without prior permission of CPCB.
- xix. The Agreement between the selected Expert Agency and CPCB shall be operative until the completion of the project and acceptance of the final report by CPCB.
- xx. The project shall be implemented as per the rates finalized and CPCB will not provide any additional fund on account of any further cost escalation due to delay in project implementation or due to any other reasons.
- xxi. CPCB shall not bear any responsibility for the personnel engaged under the project.
- xxii. During the course of implementation of the project, the executing agency shall provide the information to the participating CPCB's officials regarding the methodologies/ techniques being adopted for implementation of the project.
- xxiii. The Executing Agency shall submit 3 copies of final draft report along with CD (Soft copy) on completion of the project.
- xxiv. It shall be at the sole discretion of the Competent Authority, CPCB either to differ the entire project or part of the project or reject any proposal without assigning reasons thereof.
- xxv. Applicable Taxes shall be deducted at source.
- xxvi. Proposal being submitted must be signed by an authorized person representing the company/ firm.
- xxvii. The parties submitting the proposal, are requested not to erase or mutilate any word(s) or figures occurring in the quotation. The overwriting is not allowed.
- xxviii. It may be noted that mere quoting the lowest rates will not entitle any firm to get the work order.
- xxix. The tenders shall be valid for a period of 06 months from the date of their opening.
- xxx. In case of any dispute, the decision of the Chairman, CPCB will be final and binding to both the parties.

Table : Details of Ambient Air, Surface Water and Ground Water Quality Monitoring Locations in 43 Critically Polluted Areas (CPAs)

S.No.	Industrial Cluster/Area	Potential Impact Zones	Nos. of Air samples	Nos. of Water Samples	
				SW	GW
1.	Nazafgarh drain basin, Delhi	Anand Parvat, Naraina, Okhla and Wazirpur	4	4	4
2.	Ankleshwar (Gujarat)	GIDC Ankleshwar and GIDC Panoli	4	4	4
3.	Vapi (Gujarat)	GIDC Vapi	4	4	4
4.	Ahmedabad (Gujarat)	GIDC Odhav (which includes estate of Odhav Enviro Project Ltd -OEPL and Gujarat Vepari Mahamandal- GVMM) and GIDC Naroda	4	4	4
5.	Vatva (Gujarat)	GIDC Vatva, Narol Industrial Area (Villages Piplaj, Shahwadi, Narol)	4	4	4
6.	Bhavnagar (Gujarat)	GIDC Chitra, Bhavnagar	4	4	4
7.	Junagarh (Gujarat)	Sabalpur Industrial Area -Survey No.12 paiki of village Sabalpur (Jay Bhavani Industrial Estate) and Survey No. 50 & 51 Village Sabalpur (Jay Bhuvneshwari Industrial Estate) GIDC Junagadh-I & II	4	4	4
8.	Faridabad (Haryana)	i. Mathura Road, Sector 27 - A, B, C, D ii. DLF Phase -1, Sector 31, 32 iii. DLF Phase -2, Sector 35 iv. Sector 4, 6, 24, 25, 27, 31, 59 v. Industrial area Hatin vi. Industrial Model town Ship	6	6	6
9.	Panipat (Haryana)	i. Near Vill Machaurli & Jhattipur on NH-1, Panipat ii. Vill. Pasina Kalan Road(1 km from NH-1) iii. Vill. Rishalu Road(2 km from NH-1) iv. Adjoining area of industrial area Sector -29, part - 1 v. Along Vill. Ujha Road(upto 1 km from Municipal limit) vi. Village Sanoli Road and near village Kalamb Road vii. Road to Vill. Ugrakhaeri(Industrial cluster) viii. Village Babali Road & Sonali Road((Industrial cluster) ix. Shiv Nagar & Kishanpura, Panipat x. Shastri & MAhavir colony, Panipat xi. Desraj Colony, Panipat xii. Near Bichapri chowk, Barsat Road xiii. Between Noorwala & Barsat Road xiv. Vill. Chhajpur, Panipat xv. Vill. Bhavinswal, Barsat Road, Panipat xvi. GT road, near Toll tax(Both the way 5 km NH-1)	22	22	22

		<ul style="list-style-type: none"> xvii. GT Road, Near Babarpur Vill xviii. Kabri Road(1 KM area) xix. Batra Colony,Panipat xx. Vill Sondhapur,Panipat xxi. Gohana Road(5 Km towards Gohana) xxii. Weavers Colony,Panipat 			
10	Dhanbad (Jharkhand)	Four blocks of Dhanbad district consisting of Sadar, Nirsa , Jharia, and Govindpur (comprising of Dhanbad Municipality, Jharia Municipality, Govindpur Industrial Estate & Sindri Industrial estate).	4	4	4
11	Ludhiana (Punjab)	<ul style="list-style-type: none"> i. Focal Point Along with NH -I - Total Eight Phase ii. Industrial Area-B- From Sherpur chowk to Gill road & Gill road to Miller Kotla road (left Side of Road) iii. Mixed Industrial Area -Right side of Gill road iv. Industrial area-C (near Jugiana Village) v. Industrial Area A & Extension : Area between old GT Road and Ludhiana By pass road vi. Industrial Estate : Near Dholwal chowk vii. Mixes Industrial Area(MIA) Miller gunj viii. MIA- By pass road ix. Bahdur Industrial Area x. Tejpur industrial Complex. xi. Rahon Road-Industries are spreaded over 4 km area on either side of road from by-pass road, Ludhina xii. Kakkowal Road - Industries are spreaded over the either side of road , 3 km from by-pass road xiii. Noorwala Road -- Industries are spreaded over the either side of road , 3 km from by-pass road xiv. Gt Road West-Jalandhar side xv. Village-Gaushpura (paper mill + dying unit) 	15	15	15
12	Mandi Gobind Garh (Punjab)	Mandi Govindgarh -both side of GT Road(between khanna and sharhind canal)	4	4	4
13	Pali (Rajasthan)	<ul style="list-style-type: none"> i. Existing industrial areas and Pali town ii. Bandi river downstream upto 8 Km (200m on either side from the river bank) 	4	4	4
14	Bhiwadi (Rajasthan)	<ul style="list-style-type: none"> i. Existing industrial areas and Bhiwadi town ii. Chopanki, Khushkeda and the impact zone extends to Haryana 	4	4	4
15	Jodhpur (Rajasthan)	<ul style="list-style-type: none"> i. Existing industrial areas and Jodhpur city ii. Jojri and Luni rivers downstream upto 10 Km (200m on either side from the bank). 	4	4	4
16	Ghaziabad (Uttar)	Sub-cluster A	6	6	6

	Pradesh)	<ul style="list-style-type: none"> • Mohan nagar/ Mohan Meakin Industrial area • Rajinder nagar industrial area • Sahibabad industrial area • South side of GT (Grand trunk Road) Industrial area (Sahibabad) • Sahibabad Industrial area Site-4 <p>Sub-cluster B</p> <ul style="list-style-type: none"> • Pandav nagar industrial area • Kavi nagar industrial area • Bulandshahar Road industrial area • Amrit nagar • Aryanagar industrial area <p>Sub-cluster C</p> <ul style="list-style-type: none"> • Merrut road industrial area <p>Sub-cluster D</p> <ul style="list-style-type: none"> • Loni Industrial area • Loni road Industrial area • Roop nagar Industrial area <p>Sub-cluster E</p> <ul style="list-style-type: none"> • Hapur Road industrial area • Dasna • Philkua <p>Sub-cluster F (other scattered industrial areas)</p> <ul style="list-style-type: none"> • South side of GT road • Kavi Nagar • Tronica city • Anand Nagar • Jindal Nagar • Prakash Nagar • Rural Industrial estate 			
17:	Singrauli (Uttar Pradesh)	<p>Sonebhadra (UP)</p> <ul style="list-style-type: none"> • Dala • Obra • Renukoot • Anpara • Renusagar • Kakri • Dudhichuwa • Bina • Khadia • Shakti Nagar • Rihand Nagar, Bijpur <p>Sigrauli (Madhya Pradesh)</p> <p>Vindhyachal Nagar and existing NCL coal mine areas including the townships at Jayant, Nigahi, Dudhichua, Amlohri & Jhingurdah</p>	18	18	18
18:	Noida (Uttar Pradesh)	<ul style="list-style-type: none"> • Noida Phase-1 • Noida Phase-2 • Noida Phase-3 • Surajpur Industrial Area • Greater Noida Industrial Area • Village-Chhaparaula(2 km both side from the village on GT road) • Village-Chitara(1.5 km both side from 	7	7	7

		the village on GT road)			
19:	Kanpur (Uttar Pradesh)	<ul style="list-style-type: none"> • Dada Nagar, Industrial Area • Panki Industrial Area • Fazalganj, Industrial Area • Vijay Nagar, Industrial Area • Jajmau 	5	5	5
20:	Agra (Uttar Pradesh)	Nunihai Industrial Estate, Rambag/Foundary Nagar, UPSIDC Industrial Area, and Runukata/Sikandara Industrial Area	4	4	4
21:	Varansi-Mirzapur (Uttar Pradesh)	<ul style="list-style-type: none"> • Industrial Estate, Mirzapur • Chunar • Industrial Estate, Chandpur , Varanasi • UPSIC, Industrial Esate , Phoolpur • Industrial Area, Ramnagar, Chandauli 	8	8	8
22:	Haldia (West Bengal)	5 km wide Strip of Industrial area on the southern side of the confluence point of Hooghly River with Sea.	4	4	4
23:	Howrah (West Bengal)	<p>a) Liluah-Bamangachhi Region, Howrah</p> <p>b) Jalan Industrial Complex-1, Howrah</p>	4	4	4
24:	Asansole (West Bengal)	Burnpur area surrounding IISCO	4	4	4
25:	Patancheru - - Bollaram (Andhra Pradesh)	Patancheru Industrial Area and Bollaram Industrial Area	4	4	4
26:	Vishakhapatnam (Andhra Pradesh)	Govdesivanipalem, and Hindustan Shipyard area	4	4	4
27:	Korba (Chhatisgarh)	<p>a) Existing industries, the townships, Korba town (7km radius).</p> <p>b) Uрга, Churi, Bhashamm, Ratijha, Kasaipalli, Dhari, Kanbheri, Bandhakhan, Ranki, Dhanras</p>	4	4	4
28:	Mangalore (Karnataka)	Baikampady Industrial Area	4	4	4
29:	Bhadravati (Karnataka)	KSSIDC Industrial Area Mysore Paper Mill & VISL Township Complex	4	4	4
30:	Greater Cochin (Kerala)	Eloor-Edayar Industrial Belt	4	4	4
31:	Indore (Madhya Pradesh)	<p>a) Existing industrial areas/ estates (09) and Indore city</p> <p>b) Manglia, Rau, Rajoda, Barlai, Sanwer road, Asrawad, Tejpurgadwadi</p>	4	4	4
32:	Chandrapur (Maharashtra)	Chandrapur (MIDC Chandrapur, Tadali, Ghuggus, Ballapur)	4	4	4
33:	Dombivalli (Maharashtra)	MIDC Phase-I, Phase-II	4	4	4
34:	Aurangabad (Maharashtra)	MIDC Chikhalthana, MIDC Waluj, MIDC Shendra, and Paithan Road	4	4	4
35:	Navi Mumbai (Maharashtra)	TTC Industrial Area, MIDC, Navi Mumbai (including Blocks-D, C, EL, A, R, General,	4	4	4

		Kalva)			
36	Tarapur (Maharashtra)	MIDC Tarapur	4	4	4
37	Angul Talcher (Orissa)	a) MCL Coal Mining Area, Angul - Talcher region b) Existing Industrial Area(60km x45Km)	8	8	8
38	Ib Valley (Orissa)	Ib Valley of Jharsuguda (Industrial and Mining area)	4	4	4
39	Jharsuguda (Orissa)	Ib Valley of Jharsuguda (Industrial and Mining area)	4	4	4
40	Vellore (North Arcot) (Tamilnadu)	Ranipet, SIPCOT Industrial Complex	4	4	4
41	Cuddalore (Tamilnadu)	SIPCOT Industrial Complex, Phase I & II	4	4	4
42	Manali (Tamilnadu)	Manali Industrial Area	4	4	4
43	Coimbatore (Tamil Nadu)	SIDCO, Kurichi Industrial Clusters	4	4	4
Total - 43 CPAs in 16 States		Total samples in each category	231	231	231

A. Ambient Air Quality Monitoring for following parameters:

- i. SO₂, NO₂, PM₁₀, PM_{2.5}, Lead and Ammonia (for 24 hourly average monitoring values)
- ii. O₃, CO (for 1 hrly average and 8 hrly average)
- iii. Benzene, Benzo(O) Pyrene, Arsenic & Nickel (for 24 hrly average value)

B. Water Quality data of -

- (a) **Prominent Surface Water bodies** such as outfalls of CETPs, ETPs, FETP, treated effluent drainage, river, canal, ponds, lakes and other such water supply resources flowing through the area or flowing adjoining the CPA.
- (b) **Ground Water** Quality data of prominent ground water resources such as observation wells of Central Ground Water Board, drinking water wells, hand pumps, bore wells and other such water supply resources located in the industrial cluster/ area under consideration or in the peripheral areas.

Basic water quality requirements (for surface water and ground water both) are as follows-

(i) Simple Parameters -

Sanitary Survey, General Appearance, Color, Smell, Transparency and Ecological* (presence of animals like fish, insects etc. only in case of surface water bodies)

(ii) Regular Monitoring Parameters -

pH, O&G, Suspended Solids in mg/l, DO (% saturation), COD in mg/l , BOD in mg/l, Electrical Conductivity in μ mhos/cm, Nitrite-Nitrogen , Nitrate-Nitrogen, (NO₂+NO₃) total nitrogen in mg/l, Free Ammonia, Total residual chlorine, cyanide, fluoride, sulphides, dissolved phosphates, SAR, Total coliforms, Fecal Coliform (MPN/100 ml),

(iii) Special Parameters -

Total phosphorous, TKN, Total Ammonia(NH₄+NH₃)-Nitrogen, Phenols, Surface Active Agents, Organo-chlorine pesticides, PAH, PCB and PCT, Zinc, Nickel, Copper, Hexa-valent chromium, Chromium (Total), Arsenic (Total), Lead, Cadmium, Mercury, , manganese, iron, vanadium, selenium, boron .

(iv) Bio-assay (zebra Fish) Test - For specified samples only.

Note :

- DO is not applicable in case of ground waters.
- DO in eutrophicated waters should include measurements for diurnal variations.
- SS limit is applicable only during non-monsoon period.
- Fecal Coliform values should meet for 90 % times.
- Static Bio-assay method may be adopted.