केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
(पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार
(Ministry of Environment, Forests & Climate Change, Government of India)
क्षेत्रीय निदेशालय, पूणे
Regional Directorate, Pune
सर्वे नं. 110, हीराबाई धनकुडे हॉल, बानेर रोड, बानेर, पुणे – 411045
S. No. 110, Hirabai Dhankude Hall, Baner Road, Baner, Pune – 411045

No. : File No.LB-99/3/2023-LAB-RD-PUNE-RD (Pune) / 670 Date: 29.11.2023

NOTICE

Sub- Inviting sealed Quotation for the service of the Environmental Laboratory.

Central Pollution Control Board (CPCB), Regional Directorate (RD), Pune would like to outsource the sampling and analysis of Air (Ambient, Fugitive and Source Emission), Soil, Waste and analysis of water, wastewater samples on certain terms and conditions as stated below. The sampling/monitoring and parameters to be analysed shall be in accordance with the Schedule-II of the Notification issued by CPCB vide Legal 42(3)/87 dated 23rd February, 2022.

Sealed Quotations are invited in a single stage and two cover system (Technical and Financial Quotation) from Environmental Laboratories having valid NABL accreditation and OHSMS Certification and recognized under Environment (Protection) Act, 1986 on or before 22th December 2023 before 5.00 PM. The Technical Quote as per **Annexure- I** shall contain all the copies of the certifications along with the list of the scope parameters. Financial Quote as per **Annexure-II** shall contain the quote of charges for each sampling/monitoring and analysis charges for each parameter for which the laboratory is capable of. GST and other Government Taxes & Charges as applicable from time to time shall be payable.

Terms and Conditions:

1. The Environmental Laboratories having its laboratories located in the state of Maharashtra are eligible to participate in the process.
2. The Quotation shall be submitted in two parts namely Technical and Financial Quotation.
3. The Technical Quote shall be as per the format marked as Annexure-I and shall contain all the copies of the Accreditation Certifications. Put in a separate sealed cover mentioned on the top middle of the cover stating that "Technical Quotation".
4. The Financial Quote shall be as per the format marked as Annexure-II and contains the quote for the monitoring and analysis of scope parameters and the other parameters for which the laboratory is capable of. Put in a separate sealed cover mentioned on a top middle of the cover stating that "Financial Quotation".
5. Both covers shall be kept in another cover, sealed, and mentioned on top middle of the cover stating that "Quotation for the outsource of Environmental Monitoring and Analytical Services".
6. Financial Quotation shall be considered and opened only after qualifying the Technical Bid. The rate offered by the vendor shall be valid for a period of one year from the date of issue of the Order.

7. The validity of quotation shall be valid for 90 days from the date of opening the quotation.
8. The quotation shall be sent by Registered post or by reputed Courier service to *"Central Pollution Control Board Regional Directorate, Survey No. 110, Hirabai Dhankude Hall, Baner Road, Baner Pune-411045."*
9. Due weightage will be given to the Laboratory having maximum number of parameters under NABL Scope.
10. The analysis charges shall not exceed the rates notified by CPCB vide Notification no: Legal/42(3)/87 dated 23rd February 2022.
11. In case, if single service provider does not qualify as L1 for all parameters as required by this office, then L1 for different parameters shall be pooled from different laboratories and a common L1 statement shall be prepared. An opportunity shall be extended to all qualified laboratory to accept or reject the L1 rates. Those qualified and accepted laboratories only shall be empanelled.
12. The jurisdiction of the CPCB RD Pune is Maharashtra State, and therefore sampling/monitoring may be carried out at any locations in the State of Maharashtra.
13. The sampling and analysis of air (ambient, fugitive, source emission) to be carried out by empanelled laboratory whereas sampling of water, wastewater, soil, waste samples shall be carried out by CPCB itself and hand over the samples for analysis to the empanelled laboratory.
14. The sampling/monitoring and analysis of samples shall be carried out by following the established standards methods or as per relevant CPCB Guidelines.
15. The test report shall be submitted to CPCB RD Pune within fifteen (15) days from the date of hand over the samples to the empanelled laboratory.
16. The analysed samples shall be preserved by empanelled laboratory for 30 days from the date of the receipt of Test Report to CPCB RD Pune.
17. Payment shall be released through NEFT or RTGS after submission of Test Report and In-voices/Bills in Original and Duplicate. TDS as applicable shall be deducted.
18. The Competent Authority of CPCB has full right to accept or reject any /all quotations without assigning any reason.
19. Typographical and clerical errors are subject to correction.
20. In case of any queries, Ms Susmita Ekka, Scientist-E (Mobile No-9433023133 & susmita.cpcb@nic.in) shall be contacted for further clarification.
21. In the event of any dispute, the decision of Chairman, CPCB shall be binding up on both the parties.

Pratik Bharne
I/c Regional Director

ANNEXURE-I

Technical Bid

Wherever facility is available, then state yes. Otherwise please state No. If the parameter is under NABL scope, then please state yes, otherwise No.

Sr.No.	**Sampling for Parameter**	**Availability of Facility**	**NABL Scope Parameter**
(I)	**Sampling for Ambient Air / Fugitive emission samples**		
1	Sampling (up to each 8 hrs.) for suspended particulate matter and gaseous pollutants		
2	Sampling (24 hrs.) for suspended particulate matter and gaseous pollutant		
3	Sampling of Volatile Organic Compounds (VOCs) / Benzene Toluene Xylene (BTX)		
4	Sampling (24 hrs.) of Poly Aromatic Hydrocarbons (PAHs)		
5	Sampling (24 hrs. using PUF HVS) of Ambient Air for Dioxin-Furan (17 congeners of PCDDs-PCDFs)		
(II)	**Source Emission Monitoring / Sampling**	**Availability of Facility**	**Scope Parameter**
1	Sampling / measurement of Velocity, Flow rate, temperature and molecular weight of Flue Gas (each specific location / each sample in duplicate for the mentioned parameter)		
2	Sampling of SO_2 / NO_2		
3	Sampling of Volatile Organic Compounds (VOCs) / Benzene Toluene Xylene (BTX)		
4	Sampling of Poly Aromatic Hydrocarbons (PAHs)		
5	Sampling of emission from stationary source for Dioxin-Furan (17 congeners of PCDDs-PCDFs) using manual Sampling Kit.		
6	Sampling of emission from stationery sources for halides and hydrogen fluoride (HCL & HF) using manual sampling kit (Duplicate sample)		
7	Sampling of emission from stationery sources for TOC using instrumental method		
(III)	**Noise monitoring, Please state the Make & Model of Sound Level Meter and its salient features**	**Availability of Facility**	**Scope Parameter**
1	First Monitoring		
2	Each Subsequent Monitoring within same premises		
3	For 8 hours Continuous Monitoring or more		
(IV)	**Flow Rate measurement / source**		
1	once		
2	every additional		
(V)	**Sample collection for Hazardous Waste at the premises Of Industry / Import site / Disposal site**	**Availability of Facility**	**Scope Parameter**
1	Integrated sample collection		

ANALYSIS facilities			
(I)	**(**Analysis of Ambient Air/ Fugitive Emission Samples**)**	**Availability of Facility**	**Scope Parameter**
1	Ammonia		
2	Analysis using dragger (per tube)		
3	Benzene Toluene Xylene (BTX)		
4	Carbon Monoxide		
5	Chlorine		
6	Fluoride (gaseous)		
7	Fluoride (particulate)		
8	Hydrogen Chloride		
9	Hydrogen Sulphide		
10	Lead & Other metals (per metal)		
11	NO_2		
12	Ozone		
13	Poly Aromatic Hydrocarbons (PAHs)		
14	Suspended Particulate Matter (SPM)		
15	Particulate Matter ($PM_{2.5}$)		
16	Respirable Suspended Particulate Matter (PM_{10})		
17	Sulphur Dioxide		
18	Volatile Organic Carbon		
19	Trace Metals on air filter paper using EDXRF Aluminium, Antimony, Arsenic, Barium, Bromine, Cadmium, Calcium, Cesium, Chlorine, Chromium, Cobalt, Copper, Gallium, Germanium, Gold, Iodine, Iron, Lanthanum, Lead, Magnesium, Manganese, Molybdenum, Nickel, Palladium, Phosphorous, Potassium, Rubidium, Rutherfordium, Selenium, Silicon, Silver, Sodium, Strontium, Sulphur, Tellurium, Tin, Titanium, Tungsten, Vanadium, Ytterbium, and Zinc.		
20	Water Extractable ions in Air Particulate Matter using Ion Chromatograph (IC), a. Processing / Pretreatment Charge per Sample (Filter Paper) b. Cations (Na^+ , $NH4^+$, K^+ , Ca^{+2} & Mg^{+2}) and Anions(F^- , Br^- , Cl^- ,NO_2^- , NO_3^- , SO_4^{-2} & PO_4^{-3})		
21	Organic and Elemental Carbon (OC/EC) on quartz filter paper		
22	Sample processing and analysis for Dioxin-Furan (PCDDs-PCDFs 17 congeners) (Isotope Dilution method using GC-HRMS)		
(II)	**Analysis facility for source Emission Parameters**	**Availability of Facility**	**Scope Parameter**
1	Acid Mis		
2	Ammonia		
3	Carbon Monoxide		
4	Chlorine		
5	Fluoride (Gaseous)		

6	Fluorides (Particulate)		
7	Hydrogen Chloride		
8	Hydrogen Sulphide		
9	Oxides of Nitrogen		
10	Oxygen		
11	Polycyclic Aromatic Hydrocarbons (Particulate)		
12	Suspended Particulate Matter		
13	Sulphur Dioxide		
14	Benzene Toluene Xylene (BTX)		
15	Volatile Organic Compounds (VOCs		
16	Sample processing and analysis for Dioxin-Furan (17 congeners of PCDDs-PCDFs) (Isotope Dilution method using GC-HRMS)		
17	Processing and analysis of halides and hydrogen fluoride (HCL & HF) IC method		
18	Analysis of Carbon di sulfide		
(III)	**Ambient Air Quality Monitoring using on-line monitoring instruments by Mobile Van**	**Availability of Facility**	**Scope Parameter**
1	PM_{10}, $PM_{2.5}$, SO_2 ,NOx , SPM, CO along with Meterological data viz. temperature, Humidity, Wind speed, Wind direction		
(IV)	**Auto Exhaust Monitoring - One time checking of vehicular exhaust**	**Availability of Facility**	**Scope Parameter**
1	Carbon Monoxide		
2	Hydrocarbon, PPM		
3	Smoke Density, HSU		
(V)	**Analysis facilities for Water & Wastewater samples** Physical Parameters	**Availability of Facility**	**Scope Parameter**
1	Conductivity		
2	Odor		
3	Sludge Volume Index (S.V.I.)		
4	Solids (dissolved)		
5	Solids (fixed)		
6	Solids (volatile)		
7	Suspended Solids		
8	Temperature		
9	Total Solids		
10	Turbidity		
11	Velocity of Flow (Current Meter)		
12	Velocity of Flow (other)		
2.0	**Chemical Parameters**	**Availability of Facility**	**Scope Parameter**
2.1	Inorganic		
1	Acidity		
2	Alkalinity		
3	Ammonical Nitrogen		
4	Bicarbonates		
5	Biochemical Oxygen Demand (BOD)		
6	Bromide		

7	Calcium (titrimetric)		
8	Carbon Dioxide		
9	Carbonate		
10	Chloride		
11	Chlorine Demand		
12	Chlorine Residual		
13	Chemical Oxygen Demand (COD)		
14	Cyanide		
15	Detergent		
16	Dissolved Oxygen		
17	Flouride		
18	H. Acid		
19	Hardness (calcium)		
20	Hardness (total)		
21	Iodide		
22	Nitrate Nitrogen		
23	Nitrite Nitrogen		
24	Percent Sodium		
25	Permanganate Value		
26	pH		
27	Phosphate (ortho)		
28	Phosphate (total)		
29	Salinity		
30	Sodium Absorption Ratio (SAR)		
31	Settable Solids		
32	Silica		
33	Sulphate		
34	Sulphide		
35	Total Kjeldhal Nitrogen (TKN)		
36	Urea		
37	Cations ((Na^+ , NH_4^+ , K^+ , Ca^{+2} & Mg^{+2}) and Anions(F- , Br- , Cl^- ,NO_2^- , NO_3^- , SO_4^{-2} & PO_4^{-3}) in surface & ground water sample using Ion Chromatograph		
2.2	**Metals**	**Availability of Facility**	**Scope Parameter**
	Processing/ pre-treatment Charge per Sample		
1	Aluminum		
2	Antimony		
3	Arsenic		
4	Barium		
5	Beryllium		
6	Boron		
7	Cadmium		
8	Chromium Hexavalent		
9	Chromium Total		
10	Cobalt		
11	Copper		
12	Iron		
13	Lead		

14	Magnesium		
15	Manganese		
16	Mercury (Processing & Analysis)		
17	Molybdenum		
18	Nickel		
19	Potassium		
20	Tin		
21	Selenium		
22	Silver		
23	Sodium		
24	Strontium		
25	Vanadium		
26	Zinc		
3.0	**Organics**	**Availability of Facility**	**Scope Parameter**
3.1	**Organo Chlorine Pesticides (OCPs)**		
	Processing/ pre-treatment Charge per Sample		
1	Aldrin		
2	Dicofol		
3	Dieldrin		
4	Endosulfan-I		
5	Endosulfan-II		
6	Endosulfan sulfate		
7	Heptachlor		
8	Hexachlorobenzene (HCB)		
9	Methoxychlor		
10	o,p-DDT		
11	p,p'-DDD		
12	p,p'-DDE		
13	p,p'-DDT		
14	α-HCH		
15	β-HCH		
16	γ-HCH		
17	δ-HCH		
3.2	**Organo Phosphorous Pesticides (OPPs)** Processing/ pre-treatment Charge per Sample	**Availability of Facility**	**Scope Parameter**
1	Chloropyriphos		
2	Dimethoate		
3	Ethion		
4	Malathion		
5	Monocrotophos		
6	Parathion-methyl		
7	Phorate		
8	Phosphamidon		
9	Profenophos		
10	Quinalphos		
11	Anilophos		
3.3	**Synthetic Pyrethroids (SPs)**	**Availability of**	**Scope**

	Processing/ pre-treatment facilities	**Facility**	**Parameter**
1	Deltamethrin		
2	Fenpropethrin		
3	Fenvalerate		
4	α-Cypermethrin		
5	β-Cyfluthrin		
6	γ-Cyhalothrin		
3.4	**Herbicides** Processing/ pre-treatment facilities	**Availability of Facility**	**Scope Parameter**
1	Alanchor		
2	Butachlor		
3	Fluchloralin		
4	Pendimethalin		
5	2,4-D		
6	Atrazine		
3.5	**Polycyclic Aromatic Hydrocarbons (PAHs)** Processing/ pre-treatment facilities	**Availability of Facility**	**Scope Parameter**
1	Acenaphthene		
2	Acenaphthylene		
3	Anthracene		
4	Ben(a)anthracene		
5	Benzo(a)pyrene		
6	Benzo(b)fluoranthene		
7	Benzo(e)pyrene		
8	Benzo(g.h.i)perylene		
9	Benzo(k)fluoranthene		
10	Chrysene		
11	Dibenzo(a,h)anthracene		
12	Fluoranthene		
13	Fluorene		
14	Indeno(1,2,3-cd)pyrene		
15	Naphthalene		
16	Perylene		
17	Phenanthrene		
18	Pyrene		
3.6	**Polychlorinated Biphenyls (PCBs) as Aroclor Mixturers** Processing/ pre-treatment facilities	**Availability of Facility**	**Scope Parameter**
1	Aroclor 1221		
2	Aroclor 1016		
3	Aroclor 1232		
4	Aroclor 1242		
5	Aroclor 1248		
6	Aroclor 1254		
7	Aroclor 1260		
3.7	**Polychlorinated Biphenyls (PCBs) as Enviro-Indicator** Processing/ pre-treatment facilities	**Availability of Facility**	**Scope Parameter**
1	2,4,4' -trichlorobiphenyl (PCB-28)		
2	2,2' ,5,5' -tetrachlorobiphenyl (PCB-52)		

3	2,2' ,4,5,5'-pentachlorobiphenyl (PCB- 101)		
4	2,3' ,4,4' ,5-pentachlorobiphenyl (PCB- 118)		
5	2,2' ,3,4,4',5' -hexachlorobiphenyl (PCB- 138)		
6	2,2' ,4,4' ,5,5' -hexachlorobiphenyl (PCB- 153)		
7	2,2' ,3,4,4',5,5 -heptachlorobiphenyl (PCB-180)		
3.8	**Tri Halo Methane (THM)** Processing / pre-treatment facilities	**Availability of Facility**	**Scope Parameter**
1	Bromodichloromethane		
2	Bromoform		
3	Chloroform		
4	Dibromochloromethane		
3.9	**Phenolic Compounds** Processing / pre-treatment facilities	**Availability of Facility**	**Scope Parameter**
1	Phenol		
2	4-nitrophenol		
3	2,4-dinitrophenol		
4	2-nitrophenol		
5	2-chlorophenol		
6	2,4-dimethylphenol		
7	2-methyl,4,6-dinitrophenol		
8	4-chloro,3-methylphenol		
9	2,4-dichlorophenol		
10	2,4,6-trichlorophenol		
11	Pentachlorophenol		
3.10	**Carbamate Pesticides** Processing / pre-treatment facilities	**Availability of Facility**	**Scope Parameter**
1	Carbaryl		
2	Carbofuran		
3	Aldicarb		
4	Aldicarb Sulphone		
5	Propoxur		
6	Oxamyl		
3.11	**Chlorobenzenes** Processing / pre-treatment facilities	**Availability of Facility**	**Scope Parameter**
1	1,4-Dichlorobenzene		
2	1,3-Dichlorobenzene		
3	1,2,3-Trichlorobenzene		
4	1,2,4-Trichlorobenzene		
5	1,2,3,5-Tetrachlorobenzene		
6	Pentachlorobenzene		
7	Hexachlorobenzene		
3.12	**Other Organic Parameters**	**Availability of Facility**	**Scope Parameter**
1	Adsorbable Organic Halogen (AOX)		
2	Tannin/ Lignin		
3	Oil & Grease		
4	Total Phenol (by distillation)		
5	Toatl Organic Carbon (TOC)		
4.0	**Biological Test**	**Availability of**	**Scope**

		Facility	Parameter
1	Bacteriological Sample Collection		
2	Benthos Organism Identification & Count (each sample)		
3	Benthos Organism Sample collection		
4	Chlorophyll Estimation		
5	E. coli (MFT technique)		
6	E. coli (MPN technique)		
7	Faecal Coliform (MFr technique)		
8	Faecal Coliform (MPN technique)		
9	Faecal Streptococci (MFT technique)		
10	Faecal Streptococci (MPN technique)		
11	Plankton Sample collection		
12	Plankton (Phytoplankton) count		
13	Plankton (Zooplankton) count		
14	Standard Plate Count		
15	Total Coliform (MFT technique)		
16	Total Coliform (MPN technique)		
17	Total Plate Count		
18	Toxicological - Bio-assay (I-CSO)		
19	Toxicological - Dimensionless toxicity Test		
(VI)	**Analysis facilities for Soil/ Sludge/ Sediment/ Solid waste samples**	**Availability of Facility**	**Scope Parameter**
1	Ammonia		
2	Bicarbonates		
3	Boron		
4	Calcium		
5	Calcium Carbonate		
6	Cation Exchange Capacity (CEC)		
7	Chloride		
8	Colour		
9	Electrical Conductivity (EC)		
10	Exchangeable Sodium Percentage (ESP)		
11	Gypsum Requirement		
12	H Acid		
13	Heavy Metals		
14	**Trace Metals using ED-XRF** Aluminum, Antimony, Arsenic, Barium, Bromine, Cadmium, Calcium, Cesium, Chlorine, Chromium, Cobalt, Copvrr, Gallium, Germanium, Gold, Iodine, Iron, Lanthanum, Lead, Magnesium, Manganese, Molybdenum, Nickel, Palladium, Phosphorous, Potassium, Rubidium, Rutherfordium, Selenium, Silicon, Silver, Sodium, Strontium, Sulphur, Tellurium, Tin, Titanium, Tungsten, Vanadium, Ytterbium and Zinc, per sample.		
15	Magnesium		
16	Mechanical soil analysis (soil texture)		
17	Nitrate		
18	Nitrite		

19	Nitrogen available		
20	Organic Carbon / Matter (chemical method)		
21	Polycyclic Aromatic Hydrocarbons (PAHs)		
22	Polychlorinated Biphenyls (PCBs)		
23	Pesticides		
24	pH		
25	Phosphorous (available)		
26	Phosphate (ortho)		
27	Phosphate (total)		
28	Potash (Available)		
29	Potassium		
30	Sodium Absorption Ratio (SAR) in Soil extract		
31	Sodium		
32	Soil Moisture		
33	Sulphate		
34	Sulphur		
35	Total Kjehldhal Nitrogen (TKN)		
36	TOC		
37	Total water soluble salts		
38	Water Holding capacity		
39	Sample processing and analysis for Dioxin-Furan (17 congeners Of PCDDs-PCDFs) (Isotope Dilution method using GC-HRMS)		
(VII)	**Analysis facilties for Hazardous Waste samples**	**Availability of Facility**	**Scope Parameter**
1	Preparation of Leachate (TCLP extract / Water Extract)		
2	Determination of various parameters in Leachate		
3	Flash point / Ignitibility		
4	Reactivity		
5	Corrosivity		
6	Measurement of Toxicity (i) LC_{50} (ii) Dimensionless Toxicity		
7	Total Organic Carbon		
8	Absorbable Organic Halogen (AOX) Whether participated or not. If Yes, please state the AQC Exercise reference		
(VIII)	**AQC Participation details**	**Availability of Facility**	**Scope Parameter**
1	Laboratories of Govt. / Semi Govt. / Public Sector Undertaken/ Autonomous bodies.		
2	Private Sector Laboratories.		

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ANNEXURE-II

Financial Bid

S. No.	Sampling for Parameter	EPA Rates, ₹	Your Quote, ₹
(I)	**Sampling charges for Ambient Air / Fugitive emission samples (Air Sampling charges)**	**EPA Rates, ₹**	**Your Quote, ₹**
1	Sampling (up to each 8 hrs.) for suspended particulate matter and gaseous pollutants	3500	
2	Sampling (24 hrs.) for suspended particulate matter and gaseous pollutants	10500	
3	Sampling of Volatile Organic Compounds (VOCs) / Benzene Toluene Xylene (BTX	4800	
4	Sampling (24 hrs.) of Poly Aromatic Hydrocarbons (PAHs)	8600	
5	Sampling (24 hrs. using PUF HVS) of Ambient Air for Dioxin-Furan (17 congeners of PCDDs-PCDFs)	20500	

Note :

a. Transportation charges will be separate as per actual basis.
b. Sample analysis charges of respective parameters are separate as per list.
c. If the laboratory does not have facility to carry out, then please state "NF"

(II)	**Source Emission Monitoring / Sampling charges (Source Emission Sampling)**	**EPA Rates, ₹**	**Your Quote, ₹**
1	Sampling / measurement of Velocity, Flow rate, temperature and molecular weight of Flue Gas (each specific location / each sample in duplicate for the mentioned parameter)	13000	
2	Sampling of SO_2 / NO_2	4800	
3	Sampling of Volatile Organic Compounds (VOCs) / Benzene Toluene Xylene (BTX)	7200	
4	Sampling of Poly Aromatic Hydrocarbons (PAHs)	12000	
5	Sampling of emission from stationary source for Dioxin-Furan (17 congeners of PCDDs-PCDFs) using manual Sampling Kit	25000	
6	Sampling of emission from stationery sources for halides and hydrogen fluoride (HCL & HF) using manual sampling kit (Duplicate sample)	10000	
7	Sampling of emission from stationery sources for TOC using instrumental method	5000	

Note :

a. Transportation charges will be separate as per actual basis
b. Sample analysis charges of respective parameters are separate as per list

(III)	**Noise monitoring charges (Type of monitoring)**	**EPA Rates, ₹**	**Your Quote, ₹**
1	First Monitoring	7000	
2	Each Subsequent Monitoring within same premises	3500	
3	For 8 hours Continuous Monitoring or more	18000	

Note :

a. Transportation charges will be separate as per actual basis

b. Sample analysis charges of respective parameters are separate as per list

(IV)	**Flow Rate measurement / source**		
1	once	850	
2	every additional	300	

Note :

a. Transportation charges will be separate as per actual basis

b. Sample analysis charges of respective parameters are separate as per list

(V)	**Sample collection charges for Hazardous Waste at the premises Of Industry / Import site / Disposal site**	**EPA Rates, ₹**	**Your Quote, ₹**
1	Integrated sample collection charges	2000	

ANALYSIS CHARGES

(I)	**(Analysis charges of Ambient Air/ Fugitive Emission Samples)**	**EPA Rates, ₹**	**Your Quote, ₹**
1	Ammonia	1450	
2	Analysis using dragger (per tube)	950	
3	Benzene Toluene Xylene (BTX)	2450	
4	Carbon Monoxide	1450	
5	Chlorine	1450	
6	Fluoride (gaseous)	1450	
7	Fluoride (particulate)	1450	
8	Hydrogen Chloride	1450	
9	Hydrogen Sulphide	1450	
10	Lead & Other metals (per metal)	As mentioned in respective group at Clause V	
11	NO_2	1450	
12	Ozone	2450	
13	Poly Aromatic Hydrocarbons (PAHs)	As mentioned in respective group at Clause V	
14	Suspended Particulate Matter (SPM)	1120	
15	Particulate Matter ($PM_{2.5}$)	1900	
16	Respirable Suspended Particulate Matter (PM_{10})	1120	
17	Sulphur Dioxide	1120	
18	Volatile Organic Carbon	4750	
19	**Trace Metals on air filter paper using EDXRF**	6000 Per filter paper	

	Aluminium, Antimony, Arsenic, Barium, Bromine, Cadmium, Calcium, Cesium, Chlorine, Chromium, Cobalt, Copper, Gallium, Germanium, Gold, Iodine, Iron, Lanthanum, Lead, Magnesium, Manganese, Molybdenum, Nickel, Palladium, Phosphorous, Potassium, Rubidium, Rutherfordium, Selenium, Silicon, Silver, Sodium, Strontium, Sulphur, Tellurium, Tin, Titanium, Tungsten, Vanadium, Ytterbium, and Zinc.		
20	**Water Extractable ions in Air Particulate Matter using Ion Chromatograph (IC)**		
	❖ Processing / Pretreatment Charge per Sample (Filter Paper)	560	
	❖ Cations (Na^+ , NH_4^+ , K^+ , Ca^{+2} & Mg^{+2}) and Anions (F^- , Br^- , Cl^- ,NO_2^- , NO_3^- , SO_4^{-2} & PO_4^{-3})	3500 (for 12 ions)	
21	Organic and Elemental Carbon (OC/EC) on quartz filter paper	4800	
22	Sample processing and analysis for Dioxin-Furan (PCDDs-PCDFs 17 congeners) (Isotope Dilution method using GC-HRMS)	75000	
(II)	**Analysis Charges for source Emission Parameters**	**EPA Rates, ₹**	**Your Quote, ₹**
1	Acid Mist	1450	
2	Ammonia	1450	
3	Carbon Monoxide	1450	
4	Chlorine	1450	
5	Fluoride (Gaseous)	1450	
6	Fluorides (Particulate)	1450	
7	Hydrogen Chloride	1450	
8	Hydrogen Sulphide	1450	
9	Oxides Of Nitrogen	1450	
10	Oxygen	1200	
11	Polycyclic Aromatic Hydrocarbons (Particulate)	As mentioned in respective group at Clause V	
12	Suspended Particulate Matter	1450	
13	Sulphur Dioxide	1450	
14	Benzene Toluene Xylene (BTX)	3700	
15	Volatile Organic Compounds (VOCs)	7250	
16	Sample processing and analysis for Dioxin-Furan (17 congeners of PCDDs-PCDFs) (Isotope Dilution method using GC-HRMS)	75000	
17	Processing and analysis of halides and hydrogen fluoride (HCL & HF) IC method	1575	
18	Analysis of Carbon di sulfide	1120	
(III)	**Ambient Air Quality Monitoring using on-line monitoring instruments by Mobile Van**		
1	PM_{10}, $PM_{2.5}$, SO_2 ,NO_x , SPM, CO along with Meterological data viz. temperature, Humidity, Wind speed, Wind direction.	6200 per hour (minimum charges ₹. 15,000/-) + Rs.50.00/km run of the van for 24 hours monitoring	

(IV)	**Auto Exhaust Monitoring - One time checking of vehicular exhaust**	**EPA Rates, ₹**	**Your Quote, ₹**
1	Carbon Monoxide %	As per rate notified by Transport Department	
2	Hydrocarbon, PPM		
3	Smoke Density, HSU		
(V)	**Analysis charges of Water & Wastewater samples**	**EPA Rates, ₹**	**Your Quote, ₹**
1.0	**Physical Parameter**		
1	Conductivity	150	
2	Odor	150	
3	Sludge Volume Index (S.V.I.)	500	
4	Solids (dissolved)	250	
5	Solids (fixed)	350	
6	Solids (volatile)	350	
7	Suspended Solids	250	
8	Temperature	150	
9	Total Solids	250	
10	Turbidity	150	
11	Velocity of Flow (Current Meter)	500	
12	Velocity of Flow (other)	1200	
2.0	**Chemical Parameters**	**EPA Rates, ₹**	**Your Quote, ₹**
2.1	**Inorganic**		
1	Acidity	250	
2	Alkalinity	250	
3	Ammonical Nitrogen	500	
4	Bicarbonates	250	
5	Biochemical Oxygen Demand (BOD)	1500	
6	Bromide	250	
7	Calcium (titrimetric)	250	
8	Carbon Dioxide	250	
9	Carbonate	250	
10	Chloride	250	
11	Chlorine Demand	500	
12	Chlorine Residual	250	
13	Chemical Oxygen Demand (COD)	850	
14	Cyanide	850	
15	Detergent	500	
16	Dissolved Oxygen	250	
17	Flouride	500	
18	H. Acid	850	
19	Hardness (calcium)	250	
20	Hardness (total)	250	
21	Iodide	250	
22	Nitrate Nitrogen	500	
23	Nitrite Nitrogen	500	
24	Percent Sodium	1500	
25	Permanganate Value	500	
26	pH	150	
27	Phosphate (ortho)	500	

28	Phosphate (total)	850	
29	Salinity	250	
30	Sodium Absorption Ratio (SAR)	1500	
31	Settable Solids	250	
32	Silica	500	
33	Sulphate	350	
34	Sulphide	500	
35	Total Kjeldahl Nitrogen (TKN)	850	
36	Urea Nitrogen	850	
37	Cations (($Na,^{+,}$ NH_4^+ , K^+ , $Ca+^2$ & Mg^{+2}) and Anions(F- , Br- , Cl^- ,NO_2^- , NO_3^- , SO_4^{-2} & PO_4^{-3}) in surface & ground water sample using Ion Chromatograph.	3500 (for 12 ions)	
2.2	**Metals**	**EPA Rates, ₹**	**Your Quote, ₹**
	Processing/ pre-treatment Charge per Sample	**1450**	
1	Aluminum	530	
2	Antimony	530	
3	Arsenic	530	
4	Barium	530	
5	Beryllium	530	
6	Boron	530	
7	Cadmium	530	
8	Chromium Hexavalent	500	
9	Chromium Total	530	
10	Cobalt	530	
11	Copper	530	
12	Iron	530	
13	Lead	530	
14	Magnesium	500	
15	Manganese	530	
16	Mercury (Processing & Analysis)	2200	
17	Molybdenum	530	
18	Nickel	530	
19	Potassium	500	
20	Tin	530	
21	Selenium	530	
22	Silver	650	
23	Sodium	500	
24	Strontium	530	
25	Vanadium	530	
26	Zinc	530	
3.0	**Organics**	**EPA Rates, ₹**	**Your Quote, ₹**
3.1	**Organo Chlorine Pesticides (OCPs**	1800	
	Processing/ pre-treatment Charge per Sample		
1	Aldrin	700	
2	Dicofol	700	
3	Dieldrin	700	
4	Endosulfan-I	700	

5	Endosulfan-II	700	
6	Endosulfan sulfate	700	
7	Heptachlor	700	
8	Hexachlorobenzene (HCB)	700	
9	Methoxychlor	700	
10	o,p-DDT	700	
11	p,p'-DDD	700	
12	p,p'-DDE	700	
13	p,p'-DDT	700	
14	α-HCH	700	
15	β-HCH	700	
16	γ-HCH	700	
17	δ-HCH	700	
3.2	**Organo Phosphorous Pesticides (OPPs)**	**EPA Rates, ₹**	**Your Quote, ₹**
	Processing/ pre-treatment Charge per Sample	1800	
1	Chloropyriphos	700	
2	Dimethoate	700	
3	Ethion	700	
4	Malathion	700	
5	Monocrotophos	700	
6	Parathion-methyl	700	
7	Phorate	700	
8	Phosphamidon	700	
9	Profenophos	700	
10	Quinalphos	700	
11	Anilopho	700	
3.3	**Synthetic Pyrethroids (SPs)**	**EPA Rates, ₹**	**Your Quote, ₹**
	Processing/ pre-treatment Charge per Sample	1800	
1	Deltamethrin	700	
2	Fenpropethrin	700	
3	Fenvalerate	700	
4	α-Cypermethrin	700	
5	β-Cyfluthrin	700	
6	γ-Cyhalothrin	700	
3.4	**Herbicides**	**EPA Rates, ₹**	**Your Quote, ₹**
	Processing/ pre-treatment Charge per Sample	1800	
1	Alanchor	700	
2	Butachlor	700	
3	Fluchloralin	700	
4	Pendimethalin	700	
5	2,4-D	700	
6	Atrazine	700	
3.5	**Polycyclic Aromatic Hydrocarbons (PAHs)**	**EPA Rates, ₹**	**Your Quote, ₹**
	Processing/ pre-treatment Charge per Sample	1800	
1	Acenaphthene	700	
2	Acenaphthylene	700	
3	Anthracene	700	
4	Ben(a)anthracene	700	
5	Benzo(a)pyrene	700	

6	Benzo(b)fluoranthene	700	
7	Benzo(e)pyrene	700	
8	Benzo(g.h.i)perylene	700	
9	Benzo(k)fluoranthene	700	
10	Chrysene	700	
11	Dibenzo(a,h)anthracene	700	
12	Fluoranthene	700	
13	Fluorene	700	
14	Indeno(1,2,3-cd)pyrene	700	
15	Naphthalene	700	
16	Perylene	700	
17	Phenanthrene	700	
18	Pyrene	700	
3.6	**Polychlorinated Biphenyls (PCBs) as Aroclor Mixturers**	**EPA Rates, ₹**	**Your Quote, ₹**
	Processing/ pre-treatment Charge per Sample	1800	
1	Aroclor 1221	700	
2	Aroclor 1016	700	
3	Aroclor 1232	700	
4	Aroclor 1242	700	
5	Aroclor 1248	700	
6	Aroclor 1254	700	
7	Aroclor 1260	700	
3.7	**Polychlorinated Biphenyls (PCBs) as Enviro-Indicator**	**EPA Rates, ₹**	**Your Quote, ₹**
	Processing/ pre-treatment Charge per Sample	1800	
1	2,4,4' -trichlorobiphenyl (PCB-28)	700	
2	2,2' ,5,5' -tetrachlorobiphenyl (PCB-52)	700	
3	2,2' ,4,5,5'-pentachlorobiphenyl (PCB- 101)	700	
4	2,3' ,4,4' ,5-pentachlorobiphenyl (PCB- 118)	700	
5	2,2' ,3,4,4',5' -hexachlorobiphenyl (PCB- 138)	700	
6	2,2' ,4,4' ,5,5' -hexachlorobiphenyl (PCB- 153)	700	
7	2,2' ,3,4,4',5,5 -heptachlorobiphenyl (PCB-180)	700	
3.8	**Tri Halo Methane (THM)**	**EPA Rates, ₹**	**Your Quote, ₹**
	Processing / pre-treatment Charge per Sample	1400	
1	Bromodichloromethane	700	
2	Bromoform	700	
3	Chloroform	700	
4	Dibromochloromethane	700	
3.9	**Phenolic Compounds**	**EPA Rates, ₹**	**Your Quote, ₹**
	Processing / pre-treatment Charge per Sample	1800	
1	Phenol	700	
2	4-nitrophenol	700	
3	2,4-dinitrophenol	700	
4	2-nitrophenol	700	
5	2-chlorophenol	700	
6	2,4-dimethylphenol	700	
7	2-methyl,4,6-dinitrophenol	700	
8	4-chloro,3-methylphenol	700	
9	2,4-dichlorophenol	700	

10	2,4,6-trichlorophenol	700	
11	Pentachlorophenol	700	
3.10	**Carbamate Pesticides**	**EPA Rates, ₹**	**Your Quote, ₹**
	Processing / pre-treatment Charge per Sample	1800	
1	Carbaryl	700	
2	Carbofuran	700	
3	Aldicarb	700	
4	Aldicarb Sulphone	700	
5	Propoxur	700	
6	Oxamyl	700	
3.11	**Chlorobenzenes**	**EPA Rates, ₹**	**Your Quote, ₹**
	Processing / pre-treatment Charge per Sample	1800	
1	1,4-Dichlorobenzene	700	
2	1,3-Dichlorobenzene	700	
3	1,2,3-Trichlorobenzene	700	
4	1,2,4-Trichlorobenzene	700	
5	1,2,3,5-Tetrachlorobenzene	700	
6	Pentachlorobenzene	700	
7	Hexachlorobenzene	700	
3.12	**Other Organic Parameters**	**EPA Rates, ₹**	**Your Quote, ₹**
1	Adsorbable Organic Halogen (AOX)	3500	
2	Tannin/ Lignin	620	
3	Oil & Grease	500	
4	Total Phenol (by distillation)	500	
5	Toatl Organic Carbon (TOC)	1000	
4.0	**Biological Test**	**EPA Rates, ₹**	**Your Quote, ₹**
1	Bacteriological Sample Collection	500	
2	Benthos Organism Identification & Count (each sample)	1250	
3	Benthos Organism Sample collection	2200	
4	Chlorophyll Estimation	1250	
5	E. coli (MFT technique)	1300	
6	E. coli (MPN technique)	1200	
7	Faecal Coliform (MFr technique)	1300	
8	Faecal Coliform (MPN technique)	1200	
9	Faecal Streptococci (MFT technique)	1450	
10	Faecal Streptococci (MPN technique)	1200	
11	Plankton Sample collection	500	
12	Plankton (Phytoplankton) count	1200	
13	Plankton (Zooplankton) count	1200	
14	Standard Plate Count	550	
15	Total Coliform (MFT technique)	1300	
16	Total Coliform (MPN technique)	1200	
17	Total Plate Count	500	
18	Toxicological - Bio-assay (I-CSO)	6000	
19	Toxicological - Dimensionless toxicity Test	3500	

Note :

a. Sampling charges for water and wastewater samples are separate as specified in clause A (IV), but subject to minimum of 700/- irrespective of number of samples.

b. Transportation charges are separate on actual basis.

(VI)	**Analysis charges of Soil/ Sludge/ Sediment/ Solid waste samples**	**EPA Rates, ₹**	**Your Quote, ₹**
1	Ammonia	850	
2	Bicarbonates	500	
3	Boron	900	
4	Calcium	350	
5	Calcium Carbonate	850	
6	Cation Exchange Capacity (CEC)	900	
7	Chloride	350	
8	Colour	250	
9	Electrical Conductivity (EC)	250	
10	Exchangeable Sodium Percentage (ESP)	1250	
11	Gypsum Requirement	850	
12	H Acid	950	
13	Heavy Metals	As mentioned in respective group at Clause V	
14	**Trace Metals using ED-XRF** Aluminum, Antimony, Arsenic, Barium, Bromine, Cadmium, Calcium, Cesium, Chlorine, Chromium, Cobalt, Copper, Gallium, Germanium, Gold, Iodine, Iron, Lanthanum, Lead, Magnesium, Manganese, Molybdenum, Nickel, Palladium, Phosphorous, Potassium, Rubidium, Rutherfordium, Selenium, Silicon, Silver, Sodium, Strontium, Sulphur, Tellurium, Tin, Titanium, Tungsten, Vanadium, Ytterbium and Zinc, per sample.	9500	
15	Magnesium	850	
16	Mechanical soil analysis (soil texture)	350	
17	Nitrate	850	
18	Nitrite	850	
19	Nitrogen available	950	
20	Organic Carbon / Matter (chemical method)	950	
21	Polycyclic Aromatic Hydrocarbons (PAHs)	As mentioned in respective group at Clause V	
22	Polychlorinated Biphenyls (PCBs)	As mentioned in respective group at Clause V	
23	Pesticides	As mentioned in respective group at Clause V	
24	pH	240	
25	Phosphorous (available)	980	
26	Phosphate (ortho)	720	
27	Phosphate (total)	980	
28	Potash (Available)	500	

29	Potassium	750	
30	Sodium Absorption Ratio (SAR) in Soil extract	1650	
31	Sodium	750	
32	Soil Moisture	250	
33	Sulphate	450	
34	Sulphur	800	
35	Total Kjehldhal Nitrogen (TKN)	950	
36	TOC	1350	
37	Total water soluble salts	500	
38	Water Holding capacity	250	
39	Sample processing and analysis for Dioxin-Furan (17 congeners Of PCDDs-PCDFs) (Isotope Dilution method using GC-HRMS)	75000	
(VII)	**Analysis charges for Hazardous Waste samples**	**EPA Rates, ₹**	**Your Quote, ₹**
1	Preparation of Leachate (TCLP extract / Water Extract)	2400	
2	Determination of various parameters in Leachate	As mentioned in respective group at Clause V	
3	Flash point / Ignitibility	1100	
4	Reactivity	1100	
5	Corrosivity	1100	
6	Measurement of Toxicity		
	• LC_{50}	6000	
	• Dimensionless Toxicity	3500	
7	Total Organic Carbon	1250	
8	Absorbable Organic Halogen (AOX)	5000	
(VIII)	**AQC Participation Fees:** to be charged by CPCB from respective SPCBs/ PCCs or Recognized Laboratory for Analytical Quality control exercise (AQC) samples	**EPA Rates, ₹**	**Your Quote, ₹**
1	Laboratories of Govt. / Semi Govt. / Public Sector Undertaken/ Autonomous bodies.	20000	
2	Private Sector Laboratories	30000	

Report ID: GEM/GARPTS/24112023/ZBQTHRPQIT49
Report Name: Laboraties for analysis of THM and its component
Generated By: Abhishek Kumar Maurya , NA , Ministry of Environment Forest and Climate Change

Generated On: 24/11/2023
Valid till: 24/12/2023

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Search type: Service

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