केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE, GOVT. OF INDIA

F.No.: CPCB/RDC/LAB(Outsource)/2022-23/ 494 27.03.23

NOTICE

Sub.: **Inviting sealed quotation for the services of Environmental Laboratory**

Central Pollution Control Board (CPCB), Regional Directorate, Chennai (RDC) would like to outsource the monitoring, analysis of Environmental samples or both on certain terms and conditions as stated below. The monitoring and parameters to be analyzed shall be in accordance with the Schedule – II of the Notification issued vide Legal/42(3)/87 dt.: 23rd February, 2022.

Sealed quotations are invited in a single stage & two cover system (Technical and Financial quotation) from Environmental laboratories having valid NABL accreditation and OH&SMS Certification and recognized under EP Act, 1986, on or before 21.04.2023 & 05 PM . The Technical quote as per format "A1" shall contain all the copies of the certifications along with the list of scope parameters only. Financial quote as per format "A2" shall contain the quote of analytical charges for each monitoring and 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 Andhra Pradesh, Tamil Nadu, Telangana and U.T. of Puducherry are eligible to participate in the process. Due weightage will be given to the Organization having its laboratories in multi-location in the above mentioned South-East states.
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 "A1" and shall contain all the copies of the Accreditation certifications. Put in a separate sealed cover mentioned on top middle of the cover stating that "Technical quotation"
4. The Financial quote shall be as per the format marked as "A2" and contain 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 top middle of the cover stating that "Financial quotation"
5. Both of these covers shall be kept in an another cover, sealed and mentioned on top middle of the cover stating that "Quotation for the outsource of Environmental Monitoring & 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 Firm Order.
7. Due weightage shall be given to the laboratory having maximum number of parameters

क्षेत्रीय निदेशालय (चेन्नई) : द्वितीय तल, 77-ए, साउथ एवेन्यू रोड, अंबतूर औद्योगिक क्षेत्र, अंबतूर तालुक, तिरुवल्लूर जिला, चेन्नई - ६०००५८
Regional Directorate (Chennai) : Second Floor, 77-A, South Avenue Road, Ambattur Industrial Estate, Ambattur Taluk, Thiruvallur District, Chennai - 600 058. Mobile : ~~9448019014~~, ~~8745057374~~, Email : cpcbrdchennai@gmail.com

प्रधान कार्यालय : परिवेश भवन, पूर्वी अर्जुन नगर, दिल्ली– ११० ०३२.
Head Office : Parivesh Bhawan, East Arjun Nagar, Delhi - 110 032.
दूरभाष / Telephone : 011-43102030, Fax : 22305793, 22307078, 22307079, 22301932, 22304948
ई–मेल / E-mail : cpcb@nic. in वेबसाईट / Website : www.cpcb.nic.in

in the NABL scope.

8. The analytical charges shall not exceed the rates notified by CPCB vide Notification no.: Legal/42(3)/87 dt.: 23rd February, 2022.
9. 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 agencies and a common L1 statement shall be prepared. An Opportunity shall be extended to all qualified agency to accept or reject the L1 rates. Those qualified and accepted agencies only shall be empaneled.
10. The monitoring/sampling of Environmental Samples shall be carried out by CPCB itself sometimes and hand over the samples for analysis to the successful bidder.
11. The Environmental monitoring and analysis of Environmental samples shall be carried out by following the well-established methods or as notified in the Notification/CPCB Guidelines as the case may be.
12. The Test Report shall be submitted to this office within fifteen (15) days from the date of hand over the samples to the vendor.
13. The analyzed samples shall be preserved by the vendor for 30 days from the date of the receipt of Test Report to this Office.
14. The validity of quotation shall be valid for 90 days from the date of opening the quotation.
15. The quotation shall be sent by registered post, reputed courier service and may be handed over personally at the reception of this Office.
16. Payment shall be released through PFMS after submission of Test Report and bills in Original and duplicate. TDS as applicable shall be deducted.
17. The Competent Authority of Central Board has full right to accept or reject any/ all quotation without assigning any reason.
18. Typographical and clerical errors are subject to correction
19. In case of any queries, Sh. S. Karthikeyan, Scientist C (Mobile no.: 9243424389 & skarthikeyan.cpcb@nic.in) shall be contacted for further clarification.
20. In the event of any dispute, the decision of Chairman, CPCB shall be binding upon both the parties.

H.D. Varalaxmi

(H.D. Varalaxmi)
Regional Director

A1

Technical Quote

Whereever facility is available, then state Yes. Otherwise pl state No. If the parameter is under NABL scope, then please state Yes, otherwise No

(I)	**Sampling for Ambient Air / Fugitive emission samples**		
S. No.	**Type of sampling**	**Availability of facility**	**Scope parameter**
1	**Air Sampling**		
a.	Sampling (up to each 8 hrs) for suspended particulate matter and gaseous pollutants		
b.	Sampling (24 hrs) for suspended particulate matter and gaseous pollutants		
c.	Sampling of Volatile Organic Compounds (VOCs) / Benzene Toluene Xylene (BTX)		
d.	Sampling (24 hrs) of Poly Aromatic Hydrocarbons (PAHs)		
e.	Sampling (24 hrs using PUF HVS) of Ambient Air for Dioxin-Furan (17 congeners of PCDDs-PCDFs)		
(II)	**Source Emission Monitoring / Sampling**		
S. No.	**Type of sampling**	**Availability of facility**	
1	**Source Emission Sampling**		
a.	Sampling / measurement of Velocity, Flow rate, temperature and molecular weight of Flue Gas (each specific location / each sample in duplicate for the mentioned parameter)		
b.	Sampling of SO_2 / NO_2		
c.	Sampling of Volatile Organic Compounds (VOCs) / Benzene Toluene Xylene (BTX)		
d.	Sampling of Poly Aromatic Hydrocarbons (PAHs)		
e.	Sampling of emission from stationary source for Dioxin-Furan (17 congeners of PCDDs-PCDFs) using manual Sampling Kit		
f.	Sampling of emission from stationery sources for halides and hydrogen fluoride (HCL & HF) using manual sampling kit (Duplicate sample)		
g	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**		
S.No.	**Type of monitoring**	**Availability of facility**	
1	**Noise monitoring**		
a.	First Monitoring		
b.	Each Subsequent Monitoring within same premises		
c.	For 8 hours Continuous Monitoring or more		
(IV)	**Sampling for waste & wastewater samples**		
S.No.	**Type of sampling**	**Availability of facility**	
a.	Grab sampling / sample / place		
b.	For every additional Grab sampling / same place		
2	**Composite Sampling:**		
a.	Composite sampling / source / place up to 8 hrs. -do-up to 16 hrs. - do - up to 24 hrs.		
b.	For every additional composite sampling / same place but different source up to 8 hrs. - do - up to 16 hrs. - do - up to 24 hrs.		
3	**Flow Rate measurement / source**		
(V)	**Sampling for Soil samples**		
S. No.	**Type of sampling**	**Availability of facility**	
1	**Grab sampling**		
(VI)	**Sample collection for Hazardous Waste at the premises Of Industry / Import site / Disposal site**		
S. No.	**Type Of sampling**	**Availability of facility**	
1	Integrated sample collection		

B. ANALYSIS facilities

(I)	**Analysis of Ambient Air/ Fugitive Emission Samples**		
S. No.	**Parameters**	**Availability of facility**	
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)	As mentioned in respective group at Clause V
11	NO_2	
12	Ozone	
13	Poly Aromatic Hydrocarbons (PAHs)	As mentioned in respective group at Clause V
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 IonChromatograph (IC)	
a.	Processing / Pretreatment Charge per Sample (Filter Paper)	
b.	Cations (Na^+, NH_4^+, K^+, Ca^{+2} & Mg^{+2}) and Anions (F^-, Br^-, Cl^- ,NO_2^-, NO_3^-, SO_4^{-2} & PO_4^{-3})	(for 12 ions)
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

S. No.	Parameters	Availability of facility
1	Acid Mist	
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)	As mentioned in respective group at Clause V
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

S. No.	Parameters	Availability of facility
1	PM_{10}, $PM_{2.5}$, SO_2,NO_x, SPM, CO along with Meterological data viz. temperature, Humidity, Wind speed, Wind direction	per hour (minimum charges Rs. 15,000/-) + Rs.50.00/km run of the van for 24 hours monitoring

(IV) Auto Exhaust Monitoring - One time checking of vehicular exhaust

S. No.	Parameters	Availability of facility
1	Carbon Monoxide	
2	Hydrocarbon, PPM	
3	Smoke Density, HSU	

(V) Analysis facilities for Water & Wastewater samples

S. No.	Parameters	Availability of facility
1	**Physical Parameters**	
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 Chemical Parameters

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	Nitrate 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 (for 12 ions)

2.2 Metals

	Processing/ pre-treatment Charge per Sample
1	Aluminium
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 Organics

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
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)

	Processing/ pre-treatment facilities
1	Deltamethrin
2	Fenpropethrin
3	Fenvalerate
4	α-Cypermethrin
5	β-Cyfluthrin
6	γ-Cyhalothrin

3.4 Herbicides

	Processing/ pre-treatment facilities
1	Alanchor
2	Butachlor
3	Fluchloralin
4	Pendimethalin
5	2,4-D
6	Atrazine

3.5 Polycyclic Aromatic Hydrocarbons (PAHs)

	Processing/ pre-treatment facilities
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

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

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

1 Bromodichloromethane
2 Bromoform
3 Chloroform
4 Dibromochloromethane

3.9 Phenolic Compounds

Processing / pre-treatment facilities

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

1 Carbaryl
2 Carbofuran
3 Aldicarb
4 Aldicarb Sulphone
5 Propoxur
6 Oxamyl

3.11 Chlorobenzenes

Processing / pre-treatment facilities

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

1 Adsorbable Organic Halogen (AOX)
2 Tannin/ Lignin
3 Oil & Grease
4 Total Phenol (by distillation)
5 Toatl Organic Carbon (TOC)

4 Biological Test

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**	
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	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, 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)	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	
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**	
S.No.	**Parameters**	**Availability of facility**
1	Preparation of Leachate (TCLP extract / Water Extract)	
2	Determination of various parameters in Leachate	As mentioned in respective group at Clause V
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

1 Laboratories of Govt. / Semi Govt. / Public Sector Undertaken/ Autonomous bodies.

2 Private Sector Laboratories.

A2

Financial Quote

A. SAMPLING CHARGES

(I) Sampling charges for Ambient Air / Fugitive emission samples

S. No.	Type of sampling	EPA Rates, Rs.	Your Quote, Rs.
1	**Air Sampling charges**		
a.	Sampling (up to each 8 hrs) for suspended particulate matter and gaseous pollutants	3500	
b.	Sampling (24 hrs) for suspended particulate matter and gaseous pollutants	10500	
c.	Sampling of Volatile Organic Compounds (VOCs) / Benzene Toluene Xylene (BTX)	4800	
d.	Sampling (24 hrs) of Poly Aromatic Hydrocarbons (PAHs)	8600	
e.	Sampling (24 hrs using PUF HVS) of Ambient Air for Dioxin-Furan (17 congeners of PCDDs-PCDFs)	20500	

Note:

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

(II) Source Emission Monitoring / Sampling charges

S. No.	Type of sampling	EPA Rates, Rs.
1	**Source Emission Sampling**	
a.	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
b.	Sampling of SO_2 / NO_2	4800
c.	Sampling of Volatile Organic Compounds (VOCs) / Benzene Toluene Xylene (BTX)	7200
d.	Sampling of Poly Aromatic Hydrocarbons (PAHs)	12000
e.	Sampling of emission from stationary source for Dioxin-Furan (17 congeners of PCDDs-PCDFs) using manual Sampling Kit	25000
f.	Sampling of emission from stationery sources for halides and hydrogen fluoride (HCL & HF) using manual sampling kit (Duplicate sample)	10000
g	Sampling of emission from stationery sources for TOC using instrumental method	5000

Note:

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

(III) Noise monitoring charges

S.No.	Type of monitoring	EPA Rates, Rs.
1	**Noise monitoring**	
a.	First Monitoring	7000
b.	Each Subsequent Monitoring within same premises	3500
c.	For 8 hours Continuous Monitoring or more	18000

Note:

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

(IV) Sampling charges for waste & wastewater samples

S.No.	Type of sampling	EPA Rates, Rs.
a.	Grab sampling / sample / place	1050
b.	For every additional Grab sampling / same place	500
2	**Composite Sampling:**	
a.	Composite sampling / source / place up to 8 hrs.	2000
	-do-up to 16 hrs.	4000
	- do - up to 24 hrs.	5300
b.	For every additional composite sampling / same place but different source up to 8 hrs.	1050
	- do - up to 16 hrs.	2200
	- do - up to 24 hrs.	3000
3	**Flow Rate measurement / source**	
	- once	850
	- every additional	300

Note:

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

(V) Sampling charges for Soil samples

S. No.	Type of sampling	EPA Rates, Rs.
1	**Grab sampling**	
a.	Grab sampling / sample / place	1150
b.	For additional Grab sampling / same place	600

Note:

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

(VI) Sample collection charges for Hazardous Waste at the premises Of Industry / Import site / Disposal site

S. No.	Type Of sampling	EPA Rates, Rs.
1	Integrated sample collection charges	2000

B. ANALYSIS CHARGES

(I) Analysis charges of Ambient Air/ Fugitive Emission Samples

S. No.	Parameters	EPA Rates, Rs.
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** 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.	6000 Per filter paper
20	Water Extractable ions in Air Particulate Matter using IonChromatograph (IC)	
a.	Processing / Pretreatment Charge per Sample (Filter Paper)	560
b.	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

S. No.	Parameters	EPA Rates, Rs.
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

S. No.	Parameters	EPA Rates, Rs.
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 Rs. 15,000/-) + Rs.50.00/km run of the van for 24 hours monitoring

(IV)	**Auto Exhaust Monitoring - One time checking of vehicular exhaust**	
S. No.	**Parameters**	**EPA Rates, Rs.**
1	Carbon Monoxide	As per rate notified
2	Hydrocarbon, PPM	by Transport
3	Smoke Density, HSU	Department
(V)	Analysis charges of Water & Wastewater samples	
S. No.	**Parameters**	**EPA Rates, Rs.**
1	**Physical Parameters**	
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	**Chemical Parameters**	
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	Nitrate 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 Kjeldhal Nitrogen (TKN)	850
36	Urea	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**	
	Processing/ pre-treatment Charge per Sample	**1450**
1	Aluminium	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	**Organics**	
3.1	**Organo Chlorine Pesticides (OCPs)**	
	Processing/ pre-treatment Charge per Sample	1800
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)**	
	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	Anilophos	700
3.3	**Synthetic Pyrethroids (SPs)**	
	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**	
	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)**	
	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**	
	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**	
	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)**	
	Processing / pre-treatment Charge per Sample	1400
1	Bromodichloromethane	700
2	Bromoform	700
3	Chloroform	700
4	Dibromochloromethane	700
3.9	**Phenolic Compounds**	
	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**	
	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**	
	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**	
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	**Biological Test**	
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:

i. 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.

ii. Transportation charges are separate on actual basis.

(VI)	**Analysis charges of Soil/ Sludge/ Sediment/ Solid waste samples**	
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
	Trace Metals using ED-XRF	
14	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	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

S.No.	**Parameters**	**EPA Rates, Rs.**
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	
	(i) LC_{50}	6000
	(ii)-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	
1	Laboratories of Govt. / Semi Govt. / Public Sector Undertaken/ Autonomous bodies.	20000
2	Private Sector Laboratories.	30000