ABSTRACT

Environment, Climate Change - Tamil Nadu Pollution Control Board - Revision of sampling and analytical charges for Environmental samples on par with the Central Pollution Control Board Notification, dated 24.10.2016 – Orders – Issued.

Environment, Climate Change and Forest (EC.2) Department

G.O.(2D).No.13 Dated: 31.08.2021
பிலவ, ஆவணி – 15
திருவள்ளுவர் ஆண்டு –2052

Read:

From the Chairman, Tamil Nadu Pollution Control Board
Letter No.TNPCB/DD(L)/ 02031/2019, dated 26.12.2019.

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ORDER :

The Chairman, Tamil Nadu Pollution Control Board in his letter read above has stated the following :-

- Tamil Nadu Pollution Control Board has established 16 Laboratories throughout the State as per the Section 17(2) of the Water (Prevention and Control of Pollution) Act,1974 and the Air (Prevention & Control of pollution), Act, 1981 as amended from time to time to analyze the samples of water, effluent, stack emission, ambient air, noise, hazardous waste, soil etc., collected from the industries, water bodies etc., and to confirm the compliances of Environmental standards prescribed to assist the Board in monitoring of industries and analyzing the sample. At present eight Advanced Environmental Laboratories at Chennai, Coimbatore, Cuddalore, Madurai, Salem, Tirunelveli, Trichy and Vellore are functioning with sophisticated instruments. The remaining eight Laboratories are District Environmental Laboratories functioning at Ambattur, Dindigul, Hosur, Manali, Maraimalai Nagar, Tiruppur, Tuticorin and Perundurai. The objectives of the laboratories are to produce reliable analytical results with high precision and accuracy that are scientifically valid and legally defendable.

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- As per section 28-C of the Tamil Nadu Water (Prevention and Control of Pollution) Rules 1983, the fees payable for laboratory reports on the analysis of samples of water, sewage and trade effluent shall be collected as specified from time to time.
- The recurring expenditure incurred for Tamil Nadu Pollution Control Board laboratories has increased manifold due to the increased cost of the chemicals, filter papers, staff salaries and Operation and Maintenance charges. During the year 2018 to 2019, the fees collected for sampling and analytical charges for Environmental samples (Water / Effluent/ Projects/Air Samples/Noise monitoring) are approximately Rs.14.74 crores. The recurring expenditure incurred for the same period of running the Tamil Nadu Pollution Control Board Laboratories are approximately Rs.11.35 crores.
- Tamil Nadu Pollution Control Board has previously revised the fee for analysis of environmental samples during 2009 on par with the analytical charges prescribed by Central Pollution Control Board.
- The Central Pollution Control Board vide its notification No.Legal/42(3)/87, dated 24.10.2016, has revised the analytical charges for the samples received at Central Pollution Control Board Laboratories.

2. The Chairman, Tamil Nadu Pollution Control Board has further informed that the Board has placed the subject revision of sampling and analytical charges on par with the fees prescribed by Central Pollution Control Board in the Board meeting held on 18.11.2019 and the Board has resolved to approve the proposal for revision of sampling and analytical charges for Environmental samples in Tamil Nadu Pollution Control Board laboratories on par with the Central Pollution Control Board, New Delhi and issued Board Proceedings in B.P.Ms.No.79, dated 03.12.2019.

3. The Chairman, Tamil Nadu Pollution Control Board has therefore requested to issue necessary orders for revision of sampling and analytical charges for Environmental samples on par with the Central Pollution Control Board Notification No. Legal/42(3)/87, dated 24.10.2016 as approved in the Board Meeting.

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4. The Government after careful examination have decided to accept the proposal of the Chairman, Tamil Nadu Pollution Control Board and to permit the Chairman, Tamil Nadu Pollution Control Board to revise the analytical charges for Environmental samples on par with the Central Pollution Control Board Notification No. Legal/42(3)/87, dated 24.10.2016 as approved by the Board vide its Resolution No.279-3-15, dated 25.11.2019 and as per the Board Proceedings Ms.No.79, dated 03.12.2019.

5. This order issued with the concurrence of Finance Department vide its U.O.No. 2619/Finance (BPE)/2021, dated.12.02.2021.

(BY ORDER OF THE GOVERNOR)

SUPRIYA SAHU
PRINCIPAL SECRETARY TO GOVERNMENT

To
The Member Secretary (In-charge),
Tamil Nadu Pollution Control Board,
Guindy, Chennai -32.
The Pay and Accounts Officer, Chennai-9/35.
The Accountant General, Chennai-18.
The Resident Audit Officer,
Office of the Principal Accountant General (G&SSA),
Chennai-9.

Copy to:-

Finance (BPE) Department, Chennai-9.
The Private Secretary to the Principal Secretary to Government,
Environment, Climate Change and Forest Department, Chennai-9.
The Private Secretary to the Additional Chief Secretary to Government,
Finance Department, Chennai-9.
Stock File /Spare Copy.

// Forwarded by Order //

31.8.2021

SECTION OFFICER

31/8/21

ANNEXURE

SCHEDULE OF SAMPLING AND ANALYSIS CHARGES FOR ENVIRONMENTAL SAMPLES IN TAMILNADU POLLUTION CONTROL BOARD LABORATORIES

(Applicable with effect from 01.09.2021)

A. SAMPLING CHARGES

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

S.No.	Type of sampling	Charges in Rs.
1.	**Air Monitoring**	
	(a) Sampling (upto each 8 hrs) for suspended particulate matter and gaseous pollutants	3500.00
	(b) Sampling (24hrs) for suspended particulate matter and gaseous pollutants	10500.00
	(c) Sampling of Volatile Organic Compounds (VOCs) Benzene Toluene Xylene (BTX)	3500.00
	(d) Sampling of Poly Aromatic Hydrocarbons (PAHs)	4400.00
	(e) Sampling (24 hrs using PUF HVS) of Ambient Air for Dioxin –Furan (PCDDs-PCDFs) congeners	15000.00
Note: (i) Transportation charges will be separate as per actual basis. (ii) Sample analysis charges of respective parameters are separate as per list		
(II)	Source Emission Monitoring/Sampling charges	
S.No.	**Type of sampling**	**Charges in Rs.**
1.	**Source Emission Monitoring**	
	(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)	9600.00
	(b) Sampling of SO_2/NO_2	3500.00
	(c) Sampling of Volatile Organic Compounds (VOCs)/Benzene Toluene Xylene (BTX)	5300.00
	(d) Sampling of Poly Aromatic Hydrocarbons (PAHs)	6200.00
	(e) Sampling of emission from stationary source for Dioxin-Furan (PCDDs-PCDFs) congeners using Manual sampling kit	25000.00
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	
S.No.	**Type of sampling**	**Charges in Rs.**
1.	**Noise Monitoring**	
	(a) First Monitoring	7000.00
	(b) Each Subsequent Monitoring within same premises	3500.00
	(c) For 08 hours Continuous Monitoring or more	18000.00
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 water & wastewater samples	
S.No.	**Type of sampling**	**Charges in Rs.**
1.	**GRAB SAMPLING:**	
	1) Grab sampling/sample/place	960.00
	2) For every additional Grab sampling/same place	440.00
2.	**COMPOSITE SAMPLING:**	
	1. Composite sampling/source/place upto 8 hrs	1800.00
	Composite sampling/source/place upto 16 hrs	3500.00
	Composite sampling/source/place upto 24 hrs	5300.00
	2. For every additional composite sampling/same place but different source upto 8 hrs.	960.00
	For every additional composite sampling/same place but different source upto 16 hrs.	2000.00
	For every additional composite sampling/same place but different source upto 24 hrs.	2900.00
3.	Flow Rate measurement/source – once	700.00
	Flow Rate measurement/source – every additional	270.00

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**	**Charges in Rs.**
1.	Grab sampling/sample/place	1050.00
	For additional Grab sampling/same place	530.00

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

(VI)	Hazardous Waste Sample collection charges at the premises of Industry/Import site/Disposal site	
S.No.	**Type of sampling**	**Charges in Rs.**
1.	Integrated sample collection charges	1800.00

B.	**ANALYSIS CHARGES**	
(1)	Analysis charges of Ambient Air/Fugitive Emission Samples	
S.No.	**Parameters**	**Charges in Rs.**
1	Ammonia	1050.00
2	Analysis using dragger (per tube)	700.00
3	Benzene Toluene Xylene (BTX)	1800.00
4	Carbon Monoxide	1050.00
5	Chlorine	1050.00
6	Fluoride (gaseous)	1050.00

7	Fluoride (particulate)	1050.00
8	Hydrogen Chloride	1050.00
9	Hydrogen Sulphide	1050.00
10	Lead & Other metals (per metal)	As mentioned in respective group at Clause 5.0
11	NO_2	1050.00
12	Ozone	1800.00
13	Poly Aromatic Hydrocarbons (PAHs)	As mentioned in respective group at Clause 5.0
14	Suspended Particulate Matter (SPM)	1050.00
15	Particulate Matter ($PM_{2.5}$)	1800.00
16	Respirable Suspended Particulate Matter (PM_{10})	1050.00
17	Sulphur Dioxide	1050.00
18	Volatile Organics Carbon	3500.00
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.	5300.00 Per filter paper
20	Water Extractable ions in Air Particulate Matter using Ion Chromatograph (IC)	
	(i) Processing / Pretreatment Charge per Sample (Filter Paper)	530.00
	(ii) Cations (Na^+, NH_4^+, K^+, Ca^{+2} & Mg^{+2}) and Anions (F^-, Br^-, Cl^-, NO_3^-, NO_2^-, SO_4^{-2} & PO_4^{-3})	2100.00 (for 12 ions)
21	Organic and Elemental Carbon (OC/EC) on quartz filter paper	3500.00
22	Sample processing and analysis for Dioxin-Furan (PCDDs-PCDFs) congeners (Isotope Dilution method using GC-HRMS)	75000.00
(II)	Analysis Charges for Source Emission Parameters	
S.No.	**Parameters**	**Charges in Rs.**
1	Acid Mist	1050.00
2	Ammonia	1050.00
3	Carbon Monoxide	1050.00
4	Chlorine	1050.00
5	Fluoride (Gaseous)	1050.00
6	Fluorides (Particulate)	1050.00
7	Hydrogen Chloride	1050.00
8	Hydrogen Sulphide	1050.00
9	Oxides of Nitrogen	1050.00
10	Oxygen	880.00

11	Polycyclic Aromatic Hydrocarbons (Particulate)	As mentioned in respective group at Clause 5.0
12	Suspended Particulate Matter	1050.00
13	Sulphur Dioxide	1050.00
14	Benzene Toluene Xylene (BTX)	2700.00
15	Volatile Organic Compounds (VOCs)	5300.00
16	Sample processing and analysis for Dioxin-Furan (PCDDs-PCDFs) congeners (Isotope Dilution method using GC-HRMS)	75000.00
(III)	Ambient Air Quality Monitoring using on-line monitoring instruments by Mobile Van	
S.No.	**Parameters**	**Charges in Rs.**
1	PM_{10}, $PM_{2.5}$, SO_2, NO_x, SPM, CO along with Meteorological data viz., Temperature, Humidity, Wind speed, Wind direction	6200.00 Per hour (Minimum charges Rs.15,000/-) + Rs.50/km run of the van for 24 hours monitoring
(IV)	Auto Exhaust Monitoring – One time checking of vehicular exhaust	
S.No.	**Parameters**	**Charges in Rs.**
1	Carbon Monoxide %	As per rate notified by Transport Department
2	Hydrocarbon, PPM	
3	Smoke Density, HSU	
(V)	Analysis charges of Water & Wastewater samples	
S.No.	**Parameters**	**Charges in Rs.**
	PHYSICAL PARAMETERS	
1	Conductivity	110.00
2	Odour	110.00
3	Sludge Volume Index (S.V.I)	350.00
4	Solids (dissolved)	180.00
5	Solids (fixed)	270.00
6	Solids (volatile)	270.00
7	Suspended Solids	180.00
8	Temperature	110.00
9	Total Solids	180.00
10	Turbidity	110.00
11	Velocity of Flow (Current Metter)	350.00
12	Velocity of Flow (other)	960.00
	CHEMICAL PARAMETERS	
	Inorganic	
1	Acidity	180.00
2	Alkalinity	180.00
3	Ammonical Nitrogen	350.00
4	Bicarbonates	180.00
5	Biochemical Oxygen Demand (BOD)	1050.00

6	Bromide	180.00
7	Calcium (titrimetric)	180.00
8	Carbon Dioxide	180.00
9	Carbonate	180.00
10	Chloride	180.00
11	Chlorine Demand	350.00
12	Chlorine Residual	180.00
13	Chemical Oxygen Demand (COD)	620.00
14	Cyanide	620.00
15	Detergent	350.00
16	Dissolved Oxygen	180.00
17	Fluoride	350.00
18	H. Acid	620.00
19	Hardness (calcium)	180.00
20	Hardness (total)	180.00
21	Iodide	180.00
22	Nitrate Nitrogen	350.00
23	Nitrite Nitrogen	350.00
24	Percent Sodium	1050.00
25	Permanganate Value	350.00
26	pH	110.00
27	Phosphate (ortho)	350.00
28	Phosphate (total)	620.00
29	Salinity	180.00
30	Sodium Absorption Ratio (SAR)	1050.00
31	Settlable Solids	180.00
32	Silica	350.00
33	Sulphate	270.00
34	Sulphide	350.00
35	Total Kjeldahl Nitrogen (TKN)	620.00
36	Urea Nitrogen	620.00
37	Cations (Na^{+}, NH_4^{+}, K^{+}, Ca^{+2} & Mg^{+2}) and Anions (F^{-}, Br^{-}, Cr, NO_3^{-}, NO_2^{-}, SO_4^{-2} and PO4-3) in surface and ground water samples using ion chromatograph	2100.00 (for 12 ions)
	Metals	
	Processing / pre-treatment charge per sample	880.00
1	Aluminium	530.00
2	Antimony	530.00
3	Arsenic	530.00
4	Barium	530.00
5	Beryllium	530.00
6	Boron	530.00
7	Cadmium	530.00
8	Chromium Hexavalent	350.00
9	Chromium Total	530.00
10	Cobalt	530.00
11	Copper	530.00

12	Iron	530.00
13	Lead	530.00
14	Magnesium	350.00
15	Manganese	530.00
16	Mercury (Processing & Analysis)	1400.00
17	Molybdenum	530.00
18	Nickel	530.00
19	Potassium	350.00
20	Tin	530.00
21	Selenium	530.00
22	Silver	530.00
23	Sodium	350.00
24	Strontium	530.00
25	Vanadium	530.00
26	Zinc	530.00
	Organics	
	Organo Chlorine Pesticides (OCPs)	
	Processing/pretreatment Charge per Sample	1800.00
1	Aldrin	700.00
2	Dicofol	700.00
3	Dieldrin	700.00
4	Endosulfan-I	700.00
5	Endosulfan-II	700.00
6	Endosulfan sulfate	700.00
7	Heptachlor	700.00
8	Hexachlorobenzene (HCB)	700.00
9	Methoxy Chlor	700.00
10	o,p-DDT	700.00
11	p,p'-DDD	700.00
12	p,p'-DDE	700.00
13	p,p'-DDT	700.00
14	α-HCH	700.00
15	β-HCH	700.00
16	γ-HCH	700.00
17	δ -HCH	700.00
	Organo Phosphorous Pesticides (OPPs)	
	Processing/pretreatment Charge per sample	1800.00
18	Chlorpyriphos	700.00
19	Dimethorate	700.00
20	Ethion	700.00
21	Malathion	700.00
22	Monocrotophos	700.00
23	Parathion-methyl	700.00
24	Phorate	700.00
25	Phosphamidon	700.00
26	Profenophos	700.00
27	Quinalphos	700.00

	Synthetic Pyrethroids (SPs)	
	Processing/pretreatment charge per sample	1800.00
28	Deltamethrin	700.00
29	Fenpropethrin	700.00
30	Fenvalerate	700.00
31	α-Cypermethrin	700.00
32	β-Cyfluthrin	700.00
33	λ -Cyhalothrin	700.00
	Herbicides	
	Processing / pretreatment Charge per sample	1800.00
34	Alachlor	700.00
35	Butachlor	700.00
36	Fluchloralin	700.00
37	Pendimethalin	700.00
	Polycyclic Aromatic Hydrocarbons (PAHs)	
	Processing / pretreatment Charge per sample	1800.00
38	Acenaphthene	700.00
39	Acenaphthylene	700.00
40	Anthracene	700.00
41	Benz(a)anthracene	700.00
42	Benzo(a)pyrene	700.00
43	Benzo(b)fluoranthene	700.00
44	Benzo(e)pyrene	700.00
45	Benzo(g,h,i)perylene	700.00
46	Benzo(k)fluoranthene	700.00
47	Chrysene	700.00
48	Dibenzo(a,h)anthracene	700.00
49	Fluoranthene	700.00
50	Fluorene	700.00
51	Indeno (1,2,3-cd)pyrene	700.00
52	Naphthalene	700.00
53	Perylene	700.00
54	Phenanthrene	700.00
55	Pyrene	700.00
	Polychlorinated Biphenyls (PCBs)	
	Processing / pretreatment Charge per sample	1800.00
56	Aroclor 1221	700.00
57	Aroclor 1016	700.00
58	Aroclor 1232	700.00
59	Aroclor 1242	700.00
60	Aroclor 1248	700.00
61	Aroclor 1254	700.00
62	Aroclor 1260	700.00
	Tri Halo Methane (THM)	
	Processing / pretreatment Charge per sample	1400.00
63	Bromodichloromethane	700.00
64	Bromoform	700.00

65	Chloroform	700.00
66	Dibromo chloromethane	700.00
	Other Organic Parameter	
67	Adsorbable Organic Halogen (AOX)	3500.00
68	Tannin / Lignin	620.00
69	Oil & Grease	350.00
70	Phenol	350.00
71	Total Organic Carbon (TOC)	880.00
72	Volatile Organic Acids	620.00
	BIOLOGICAL TEST	
1	Bacteriological Sample Collection	350.00
2	Benthos Organism Identification & count (each sample)	1050.00
3	Benthos Organism sample collection	1800.00
4	Chlorophyll Estimation	1050.00
5	E.Coli (MFT technique)	700.00
6	E.Coli (MPN technique)	620.00
7	Faecal coliform (MFT technique)	700.00
8	Faecal coliform (MPN technique)	620.00
9	Feacal Streptococci (MFT technique)	790.00
10	Feacal Streptococci (MPN technique)	700.00
11	Plankton sample collection	440.00
12	Plankton (Phytoplankton) count	1050.00
13	Plankton (Zooplankton) count	1050.00
14	Standard Plate Count	350.00
15	Total Coliform (MFT technique)	700.00
16	Total Coliform (MPN technique)	620.00
17	Total Plate Count	620.00
18	Toxicological – Bio-assay (LC_{50})	4900.00
19	Toxicological – Dimensionless toxicity Test	2800.00

Note:

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

(ii) Transportation charges are separate on actual basis.

(VI)	Analysis charges of Soil/Sludge/Sediment/Solid waste samples	
Sl.No.	**Parameters**	**Charges in Rs.**
1	Ammonia	530.00
2	Bicarbonates	350.00
3	Boron	700.00
4	Calcium	270.00
5	Calcium Carbonate	620.00
6	Cation Exchange Capacity (CEC)	700.00
7	Chloride	270.00
8	Colour	175.00
9	Electrical Conductivity (EC)	175.00
10	Exchangeable Sodium Percentage (ESP)	960.00
11	Gypsum Requirement	620.00
12	H. Acid	700.00

13	Heavy Metal	As mentioned in respective group at Clause 5.0
	Trace Metals using ED-XRF	
14	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, per sample	7000.00
15	Magnesium	530.00
16	Mechanical soil analysis (soil texture)	270.00
17	Nitrate	530.00
18	Nitrite	530.00
19	Nitrogen available	620.00
20	Organic Carbon/Matter (chemical method)	620.00
21	Polycyclic Aromatic Hydrocarbons (PAHs)	As mentioned in respective group at clause 5.0
22	Polychlorinated Biphenyls (PCBs)	As mentioned in respective group at clause 5.0
23	Pesticides	As mentioned in respective group at clause 5.0
24	pH	175.00
25	Phosphorous (available)	700.00
26	Phosphate (ortho)	530.00
27	Phosphate (total)	700.00
28	Potash (Available)	350.00
29	Potassium	530.00
30	Sodium Absorption ratio (SAR) in Soil extract	1140.00
31	Sodium	530.00
32	Soil Moisture	175.00
33	Sulphate	350.00
34	Sulphur	620.00
35	Total Kjeldhal Nitrogen (TKN)	700.00
36	TOC	960.00
37	Total water soluble salts	350.00
38	Water Holding capacity	175.00
39	Sample processing and analysis for Dioxin-Furan (PCDDs-PCDFs) congeners (Isotope Dilution method using GC-HRMS)	75000.00

(VII)	Analysis charges for Hazardous Waste samples	
S.No.	**Parameters**	**Charges in Rs.**
1	Preparation of Leachate (TCLP extract / Water Extract)	1750.00
2	Determination of various parameters in Leachate	As mentioned in respective group at Clause 5.0
3	Flash point/Ignitibility	960.00
4	Reactivity	960.00
5	Corrosivity	960.00
6	Measurement of Toxicity	
	-LC_{50}	4900.00
	-Dimensionless Toxicity	2800.00
7	Total Organic Carbon	880.00
8	Absorbable Organic Halogen (AOX)	3500.00

Deputy Director (Labs)