

ABSTRACT

TNPCB – PROPOSAL FOR THE REVISION OF SAMPLING AND ANALYTICAL CHARGES FOR ENVIRONMENTAL SAMPLES IN TNPCB LABORATORIES ON PAR WITH THE CENTRAL POLLUTION CONTROL BOARD, NEW DELHI – ORDERS ISSUED – REGARDING.

B.P.Ms.No.6

Dated : 31.03.2009

Read : Board's Resolution No.232-3-5, dated 09.03.09

The Tamilnadu Pollution Control Board has established 14 Laboratories at various districts as per Section (17) (2) of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1978 and 1988 to assist the Board in monitoring of industries and analysing the sample.

According to section 28 C of the Tamilnadu Water (Prevention and Control of Pollution) Rules 1983, the fees payable for laboratory reports and analysis of samples of water, sewage and trade effluent shall be collected as per the rates fixed in G.O.Ms.No.298 E & F (EC-I) dated 03.12.1996. The analytical charges were last revised during the year 1996.

The Central Pollution Control Board has revised the analytical charges in 13.12.2001 and subsequently revised the sampling and analytical charges again vide the Gazette Notification of India dated 15.06.2008. Hence the Board decided to revise the sampling and analytical charges.

The proposal for revision of analytical charges on par with the fees charged by CPCB was placed before the Board meeting held on 21.12.2006. The Board in its resolution No.220-3-3 dated 21.12.2006 resolved to recommend the proposal for revision of charges on par with CPCB and send it to the Government E & F Department, Chennai for approval and to notify the same in the Government Gazette.

The Government in its letter dated 31.10.2008 has stated that the Board may take an appropriate decision to adopt a uniform rate of fees on the analogy of fees of the Central Pollution Control Board.

The Board in its meeting held on 09.03.09 after detailed examination has resolved vide its resolution No.232-3-5 dated 09.03.09 to revise the sampling and analytical charges for the Water/Wastewater/Biological test/Soil/Hazardous waste/Fugitive emission/Source emission/Auto exhaust, Noise monitoring and Ambient Air Quality Monitoring of the Board on par with the fees prescribed by CPCB as per annexure enclosed.

All District Environmental Laboratories/Advanced Environmental Laboratories shall take note of these orders and levy fees as per the annexure to this order from 1.4.2009.

Sd.R.BALAKRISHNAN,
CHAIRMAN.

To

The District Environmental Engineers, Chennai, Coimbatore, Cuddalore, Dindigul, Erode, Hosur, Kancheepuram, Sriperumpudur, Karur, Madurai, Namakkal, Salem, Virudhunagar, Thiruvallur, Trichy, Tirunelveli, Tiruppur, Tuticorin, Vaniyambadi, Vellore, Pudukkottai.

The Assistant Environmental Engineers, Nagapattinam, Nagercoil, Thanjavur, Villupuram, Udagamandalam.

The Head of Laboratories, AEL, Chennai, Salem & Madurai

The Head of Laboratories, DEL, Ambattur, Coimbatore, Cuddalore, Dindigul, Arumbakkam, Tirunelveli, Tiruppur, Trichy, Vellore, Hosur, Thoothukudi.

Copy to:

The Deputy Director (Labs), TNPC Board, Chennai.

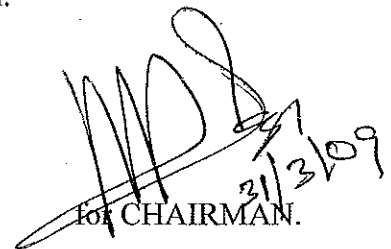
The Deputy Director (L)(i/c), AEL, Chennai

The Joint Chief Environmental Engineers, TNPC Board, Chennai.

The Financial Adviser, TNPC Board, Chennai

The Deputy Director, Internal Audit, TNPC Board, Chennai.

The Manager (P & A), TNPC Board, Chennai.


31/3/09
for CHAIRMAN.

ANNEXURE

SCHEDULE OF SAMPLING AND ANALYSIS CHARGES FOR ENVIRONMENTAL SAMPLES IN TNPCB LABORATORIES (Applicable w.e.f 01.04.2009)

A. SAMPLING CHARGES

I Sampling charges for Ambient Air / Fugitive emission samples

Sl.No.	Type of Sampling	Charges in Rupees.
1	Air Monitoring	
	a) Sampling (upto each 8 hours) for suspended particulate matter and gaseous pollutants.	2000
	b) Sampling (24 hours) for suspended particulate matter and gaseous pollutants.	6000
	c) Sampling of Volatile Organic Compounds(VOCs)/Benzene Toluene Xylene (BTX)	2000
	d) Sampling of Polycyclic Aromatic Hydrocarbon (PAHs)	2500

Note:

(i) Sample analysis charges of respective parameters are separate as per list.

(ii) All facilities required for Ambient Air Quality survey / Stack Monitoring have to be provided by the industry.

II Source Emission Monitoring / Sampling charges

Sl.No.	Type of Sampling	Charges in Rupees.
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)	5500
2	Sampling of SO ₂ /NO ₂	2000

3	Sampling of PAHs	3000
4	Sampling of VOCs/BTX	3500

Note:

(i) Sample analysis charges of respective parameters are separate as per list.

III Noise Monitoring

SI.No.	Type of Sampling	Charges in Rupees.
1	First Monitoring	4000
2	Each Subsequent Monitoring within same premises	2000
3	For 08 hours Continuous Monitoring	10000

Note:

*- First monitoring upto five measurement points(as per TNPCB B.P.Ms.No.44 dt.08/09/2001)

**- Additional each measurement points(as per TNPCB B.P.Ms.No.44 dt.08/09/2001)

IV Sampling charges for Water & Wastewater samples

SI.No.	Type of Sampling	Charges in Rupees.
1	GRAB SAMPLING	
	1) Grab sampling /sample/place	550
	2) For every additional Grab sampling / same point	250
2	COMPOSITE SAMPLING:	
	1) (a) Composite sampling/ source/ place upto 8 hours	1000
	(b) Composite sampling/ source/ place upto 16 hours	2000
	(c) Composite sampling/ source/ place upto 24 hours	3000

	(a) For every additional composite 2) sampling / same place but different source upto 8 hours.	550
	(b) For every additional composite sampling / same place but different source upto 16 hours.	1100
	(c) For every additional composite sampling / same place but different source upto 24 hours.	1650
3	Flow rate measurement/source	
	a) Once	400
	b) Every additional	150

Note:

(i) Sample analysis charges of respective parameters are separate as per list.

V Sampling charges for soil samples

Sl.No.	Type of Sampling	Charges in Rupees.
	1) Grab sampling /sample / place	600
	2) For additional Grab sampling / same place	300

Note:

(i) Sample analysis charges of respective parameters will be extra as per list.

VI Hazardous Waste Sample collection charges at the premises of Industry / Import site / Disposal site

Sl.No.	Type of Sampling	Charges in Rupees.
1	Integrated sample collection charges	1000

Note:

(i) Sample analysis charges of respective parameters are separate as per list.

(B) ANALYSIS CHARGES**(1) Analysis charges of Ambient Air / Fugitive Emission Samples.**

Sl.No.	Parameters	Charges in Rupees.
1	Ammonia	600
2	Analysis using dragger (per tube)	400
3	Carbon Monoxide	600
4	Chlorine	600
5	Fluoride (gaseous)	600
6	Fluoride (Particulate)	600
7	Hydrogen chloride	600
8	Hydrogen sulphide	600
9	Lead & other metals (per metal)	As mentioned in respective group at clause 5.0
10	Polycyclic Aromatic Hydrocarbon (PAHs)	As mentioned in respective group at clause 5.0
11	Suspended Particulate Matter (SPM)	600
12	Particulate Matter (PM _{2.5})	1000
13	Respirable Suspended Particulate Matter (PM ₁₀)	600
14	Sulphur dioxide	600
15	NO ₂ / Nox	600
16	Benzene Toluene Xylene (BTX)	1000
17	Ozone	1000
18	Volatile Organics carbon	2000
19	Elemental Analysis on air filter paper using EDXRF: 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	3000 per filter paper

	Water Extractable ions in air particulate matter using Ion Chromatograph (IC)	
20	(i) Processing/Pretreatment charge per Sample (Filter paper)	300
	(ii) Cations (Na^+ , NH_4^+ , K^+ , Ca^{++} & Mg^{++}) and Anions (F^- , Br^- , Cl^- , NO_3^- , NO_2^- , SO_4^- & PO_4^-)	1200 for 12 ions
21	Organic and Elemental Carbon (OC/EC) on quartz filter paper	2000

(2) Analysis charges for Source Emission Parameters

Sl.No.	Parameters	Charges in Rupees.
1	Acid Mist	600
2	Ammonia	600
3	Benzene Toluene Xylene (BTX)	1500
4	Carbon Monoxide	600
5	Chlorine	600
6	Fluoride (gaseous)	600
7	Fluoride (Particulate)	600
8	Hydrogen Chloride	600
9	Hydrogen sulphide	600
10	Lead & other metals (per metal)	As mentioned in respective group at clause 5.0
11	Oxides of Nitrogen (NO_x)	600
12	Oxygen	500
13	Polycyclic Aromatic Hydrocarbon (PAHs) (Particulate)	As mentioned in respective group at clause 5.0
14	Sulphur dioxide (SO_2)	600
15	Suspended Particulate Matter (SPM)	600
16	Volatile Organic compounds	3000

(3) **Ambient Air Quality Monitoring using on-line monitoring instruments by Mobile Van.**

S.No.	Parameters	Charges in Rupees.
	PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , SPM, CO, along with Meteorological data.viz. Wind speed, Temperature, Humidity, Wind direction	Rs. 3500/hour (minimum charges Rs.15000/-)+ Rs.50/km run of the van for 24 hours monitoring.

(4) **Auto Exhaust Monitoring – One time checking of vehicular exhaust**

S.No.	Parameter	Charges in Rupees.
	Standard of Smoke or the levels of other pollutants or both	
	a) Motor cycle or Light Motor Vehicle (Three wheelers)	30
	b) For Light Motor Vehicle (Four wheelers)	50
	c) Medium & Heavy vehicles (Both Passenger and Goods vehicle)	100

Note: The existing charges as per G.O. M.S. No. 674 Home (Transport V) Dept. Dated 3.6.1998. The Revision of rates shall be applicable as and when amended by the Government of Tamilnadu

(5) **Analysis charges of Water and Waste Water Sample**

S.No.	Parameters	Charges in Rupees.
i)	Physical Parameters	
1	Conductivity	60
2	Colour	100
3	Odour	60
4	Sludge Volume Index (SVI)	200
5	Solids (Dissolved)	100
6	Solids (Fixed)	150

7	Solids (Volatile)	150
8	Suspended solids	100
9	Temperature	60
10	Total solids	100
11	Turbidity	60
12	Velocity of flow (Current meter)	200
13	Velocity of flow (others)	550
ii)	Chemical Parameters	
1	Acidity	100
2	Alkalinity	100
3	Ammoniacal Nitrogen	200
4	Bi carbonates	100
5	Bio -chemical Oxygen Demand (BOD)	600
6	Bromide	100
7	Calcium (Titrimetric)	100
8	Carbondi oxide	100
9	Carbonates	100
10	Chloride	100
11	Chlorine demand	200
12	Chlorine Residual	100
13	Chemical Oxygen Demand (COD)	350
14	Cyanide	350
15	Detergents	200
16	Dissolved Oxygen	100
17	Fluoride	200
18	H - acid	350
19	Hardness (Calcium)	100
20	Hardness (Total)	100
21	Iodide	100
22	Nitrate Nitrogen	200
23	Nitrite Nitrogen	200

24	Percent Sodium	600
25	Permanganate value	200
26	pH	60
27	Phosphate(ortho)	200
28	Phosphate (Total)	350
29	Salinity	100
30	Sodium absorption ratio (SAR)	600
31	Settleable solids	100
32	Silica	200
33	Sulphate	150
34	Sulphide	200
35	Total Kjeldahl Nitrogen	350
36	Urea Nitrogen	350
37	Cations (Na^+ , NH_4^+ , K^+ , Ca^{++} & Mg^{++}) and Anions (F^- , Br^- , Cl^- , NO_3^- , NO_2^- , SO_4^{--} & PO_4^{---}) in surface & ground water sample using Ion Chromatograph	1200 (for 12 ions)
iii)	Metal Analysis	
a)	Processing and pre treatment charges per sample	500
b)	Analysis charges :	
1	Aluminium	300
2	Antimony	300
3	Arsenic	300
4	Barium	300
5	Beryllium	300
6	Boron	300
7	Cadmium	300
8	Chromium Hexavalent	200
9	Chromium Total	300
10	Cobalt	300
11	Copper	300
12	Iron (Total)	300

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13	Lead	300
14	Magnesium	200
15	Manganese	300
16	Mercury (processing and Analysis)	800
17	Molybdenum	300
18	Nickel	300
19	Potassium	200
20	Selenium	300
21	Silver	300
22	Sodium	200
23	Strontium	300
24	Tin	300
25	Vanadium	300
26	Zinc	300

iv)	Organo Chlorine Pesticides (OCPs)	
a)	Processing/Pretreatment Charge per Sample	1000
b)	Analysis charges :	
1	Aldrin	400
2	Dicofol	400
3	Dieldrin	400
4	Endosulfan-I	400
5	Endosulfan-II	400
6	Endosulfan sulfate	400
7	Heptachlor	400
8	Hexachlorobenzene (HCB)	400
9	Methoxy chlor	400
10	o,p-DDT	400
11	p,p'-DDD	400

12	p,p'-DDE	400
13	p,p'-DDT	400
15	Alpha-HCH	400
16	Beta-HCH	400
17	Gamma-HCH	400
18	Delta-HCH	400
v)	Organo Phosphorous Pesticides (OPPs)	
a)	Processing/Pretreatment Charge per Sample	1000
b)	Analysis charges :	
1	Chlorpyriphos	400
2	Dimethoate	400
3	Ethion	400
4	Malathion	400
5	Monocrotophos	400
6	Parathion-methyl	400
7	Phorate	400
8	Phosphamidon	400
9	Profenophos	400
10	Quinalphos	400
vi)	Synthetic Pyrethroids (SPs)	
a)	Processing/Pretreatment Charge per Sample	1000
b)	Analysis charges :	
1	Deltamethrin	400
2	Fenpropethrin	400
3	Fenvalerate	400
4	Alpha-cypermethrin	400
5	Beta-cyfluthrin	400
6	Gamma-cyhalothrin	400

vii)	Herbicides	
a)	Processing/Pretreatment Charge per Sample	1000
b)	Analysis charges :	
1	Alachlor	400
2	Butachlor	400
3	Fluchloralin	400
4	Pendimethalin	400
viii)	Polycyclic Aromatic Hydro carbon (PAH)	
a)	Processing/Pretreatment Charge per Sample	1000
b)	Analysis charges :	
1	Acenaphthene	400
2	Acenaphthylene	400
3	Anthracene	400
4	Benz(a)anthracene	400
5	Benzo(a)pyrene	400
6	Benzo(b)fluoranthene	400
7	Benzo(e)pyrene	400
8	Benzo(g,h,i)perylene	400
9	Benzo(k)fluoranthene	400
10	Chrysene	400
11	Dibenzo(a,h)anthracene	400
12	Fluoranthene	400
13	Fluorene	400
14	Indeno(1,2,3-cd)pyrene	400
15	Naphthalene	400
16	Perylene	400
17	Phenanthrene	400
18	Pyrene	400

ix)	Polychlorinated Biphenyls (PCBs)	
a)	Processing/Pretreatment Charge per Sample	1000
b)	Analysis charges :	
1	Aroclor 1232	400
2	Aroclor 1242	400
3	Aroclor 1248	400
4	Aroclor 1254	400
5	Aroclor 1260	400
6	Aroclor 1262	400
x)	Tri Halo Methane (THM)	
a)	Processing/Pretreatment Charge per Sample	800
b)	Analysis charges :	
1	Bromo dichloromethane	400
2	Bromoform	400
3	Chloroform	400
4	Dibromo chloromethane	400
xi)	Other Organic Parameters	
1	Adsorbable Organic Halides (AOX)	2000
2	Oil and Grease	200
3	Phenol	200
4	Tannin/Lignin	350
5	Total Organic Carbon (TOC)	500
6	Volatile Organic acids	350

xi) Biological Test

a)	Bacteriological Sample collection	200
b)	Analysis charges:	
1	Benthos organism identification & count (each sample)	600
2	Benthos organism sample collection	1000
3	Chlorophyll estimation	600
4	E-Coliform (MFT Technique)	400

5	E-Coliform (MPN Technique)	350
6	Faecal coliform (MFT Technique)	400
7	Faecal coliform (MPN Technique)	350
8	Faecal Steptococci (MFT Technique)	450
9	Faecal Steptococci MPN Technique)	400
10	Plankton Sample collection	250
11	Plankton (Phyto plankton count)	600
12	Plankton zoo plankton count	600
13	Standard Plate count	200
14	Total Coliform MFT Technique	400
15	Total Coliform MPN Technique	350
16	Total Plate count	350
17	Toxicological Bio assay (LC 50)	2800
18	Toxicological dimension less toxicity test	1600

(6) Analysis charges of Soil samples/Sludge/Sediments/Solid Waste Samples

S.No.	Soil Parameters	Charges in Rupees.
1	Ammonia	300
2	Bicarbonate	200
3	Boron	400
4	Calcium	150
5	Calcium Carbonate	350
6	Cation Exchange Capacity (CEC)	400
7	Chloride	150
8	Colour	100
9	Electrical Conductivity (EC)	100
10	Exchangable Sodium Percentage (ESP)	550
11	Gypsum requirement	350
12	H-Acid	400

13	Heavy Metal	As mentioned in respective group at clause 5.0
13	Elemental Analysis 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	4000
14	Magnesium	300
15	Mechanical soil analysis (Soil texture)	150
16	Nitrate	300
17	Nitrite	300
18	Nitrogen available	350
19	Organic carbon / Matter(chemical method)	350
20	Polycyclic Aromatic Hydrocarbon (PAHs)	As mentioned in respective group at clause 5.0
21	Polychlorinated Biphenyls (PCBs)	As mentioned in respective group at clause 5.0
22	Pesticides	As mentioned in respective group at clause 5.0
23	pH	100
24	Phosphorous (available)	400
25	Phosphate (Ortho)	300
26	Phosphate (Total)	400
27	Potash available	200
28	Potassium	300
29	Sodium Absorption Ratio (SAR) in soil extract	650
30	Sodium	300
31	Soil Moisture	100
32	Sulphate	200

33	Sulphur	350
34	Total Kjeldahl Nitrogen	400
35	Total Organic Carbon (TOC)	550
36	Total water soluble salts	200
37	Water holding capacity	100

Note: The sampling charges for soil samples as specified in clause A (V)

(7) Analysis charges for Hazardous waste samples

S.No.	Parameters	Charges in Rupees.
1	Preparation of Leachate (TCLP Extract / Water Extract)	1000
2	Determination of various parameters in leachate	As mentioned in respective group at clause 5.0
3	Flash point / Ignitibility	550
4	Reactivity	550
5	Corrosivity	550
6	Measurement of Toxicity LC ₅₀	2800
7	Measurement of Dimension less Toxicity	1600
8	Total Organic Carbon (TOC)	500
9	Adsorbable Organic Halides (AOX)	2000