

Maharashtra Pollution Control Board

(Department of Environment, Government of Maharashtra)

NOTIFICATION

(Applicable w.e.f. April 01, 2010)

MPCB/PSO/B-1496

Date: 11.03.2011

No.: ----- In exercise of powers conferred u/s 17(2), read with Section 52-2(b) of Water (Prevention and Control of Pollution) Act, 1974 and u/s 17(2), read with 28-2(b) of Air (Prevention and Control of Pollution) Act, 1981, the Maharashtra Pollution Control Board has established the Board's Laboratories at the places mentioned in **Schedule-I**.

2. The fee payable to the Maharashtra Pollution Control Board Laboratories in respect of each report of analysis for various analytical parameters and sampling charges for the water, wastewater, soil, hazardous waste, Bio Medical Waste, fugitive emissions, source emissions, ambient air quality monitoring, auto exhaust monitoring and noise monitoring, shall be as per **Schedule II**: Schedule of Sampling and Analysis Charges for Environmental Samples.
3. The fee prescribed under **Schedule II** will be subject to revision.
4. This notification shall come into force w.e.f. 01.04.2010.

SCHEDULE – I

SCHEDULE OF MPC BOARD'S LABORATORIES

Sr. No.	Place	Address
1.	Navi Mumbai	Central Laboratory - Navi Mumbai Nirmal Bhavan, Plot No.3, TTC, MIDC, Sheel-Mahape Road, Mahape, NAVI MUMBAI - 400 710.
2.	Pune	Regional Laboratory - Pune S.No.21/5, F.P.No.28, Wakdewadi, Pune-Mumbai Road, PUNE – 411 003.
3.	Nagpur	Regional Laboratory – Nagpur : Udyog Bhawan, 6 th Floor, Near Sales Tax Office, Civil Lines, NAGPUR – 440 001.
4.	Aurangabad	Regional Laboratory – Aurangabad : Paryavaran Bhawan, Plot No. A-4/1, Chikalthana MIDC Area, Jalna Road, AURANGABAD - 431 021.
5.	Nashik	Regional Laboratory – Nashik : Udyog Bhawan, 1st Floor, Trimbak Road, Near ITI, Satpur, NASHIK - 422 007.
6.	Chiplun	Regional Laboratory – Chiplun : Parkar Complex, 1 st Floor, Near Chiplun Municipal Council CHIPLUN , Dist. Ratnagiri.
7.	Thane	Regional Laboratory – Thane : Plot No. P-30, 5th Floor, Office Complex Building, Mulund Check Naka, THANE – 400 604.
8.	Chandrapur	Regional Laboratory – Chandrapur : New Administrative Building, Gr. Floor, Block No. 13 & 14, Mul Road, CHANDRAPUR – 411 401

SCHEDULE – II

Maharashtra Pollution Control Board
(Department of Environment, Government of Maharashtra)

**SCHEDULE OF SAMPLING AND ANALYSIS CHARGES FOR
ENVIRONMENTAL SAMPLES
(Applicable w.e.f. April 01, 2010)**

Note: (i) This schedule supersedes all schedules of sampling and analysis charges notified earlier as such earlier schedules stand cancelled & withdrawn.

A. SAMPLING CHARGES :**(I) Sampling Charges for Ambient Air/Fugitive emission samples**

Sr. No.	Type of Sampling	Charges in Rs.
	Air Monitoring	
1	Sampling (upto each 8 hrs.) for suspended particulate matter and gaseous pollutants	2000.00
2	Sampling (24 hrs.) for suspended particulate matter and gaseous pollutants	6000.00
3	Sampling of Volatile Organic Compounds (VOCs)/Benzene Toluene Xylene (BTX)	2000.00
4	Sampling of Poly Aromatic Hydrocarbons (PAHs)	2500.00

Note : (i) Sample collection charges includes transportation and visit charges unless mentioned specifically.
(ii) Sample analysis charges of respective parameters are separate as per list.

(II) Source Emission Monitoring / Sampling charges

Sr. No.	Type of Sampling	Charges in Rs.
1	Sampling measurement of Velocity, Flow rate, temperature and molecular weight of Flue Gas (each specific location/each sampling in duplicate for the mentioned parameter)	5500.00
2	Sampling of SO ₂ / NO ₂	2000.00
3	Sampling of PAHs	3000.00
4	Sampling of VOCs / BTX	3500.00

Note: (i) Sample collection charges includes transportation and visit charges unless mentioned specifically.
(ii) Sample analysis charges of respective parameters are separate as per list.

(III) Noise Monitoring

Sr. No.	Type of Sampling	Charges in Rs.
1	First Monitoring	4000.00
2	Each subsequent Monitoring within same premises	2000.00
3	For 08 hours Continuous Monitoring or more	10,000.00

Note : (i) Sample collection charges includes transportation and visit charges unless mentioned specifically.

(IV) Bio-Medical Waste :

Sr. No.	Type of Sampling	Charges in Rs.
1	Sampling of Autoclave for validation of Spore test	500.00
2	Analysis	500.00

Note : (i) Sample collection charges includes transportation and visit charges unless mentioned specifically.

(V) Water & Wastewater Samples :

Sr. No.	Type of Sampling	Charges in Rs.	
1.	Grab Sampling		
	a] Grab sampling/sample/place	550.00	
	b] For every additional Grab sampling/same place	250.00	
2.	Composite Sampling		
	a] Composite sampling/source/place	upto 8 hrs.	1000.00
		upto 16 hrs.	2000.00
		upto 24 hrs.	3000.00
	b] For every additional composite sampling/same place but different source	upto 8 hrs.	550.00
		upto 16 hrs.	1100.00
upto 24 hrs.		1650.00	
3.	Flow Rate measurement/source	Once	400.00
		Every additional	150.00

Note : (i) Sample collection charges includes transportation and visit charges unless mentioned specifically.

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

(VI) Sampling Charges for Soil Samples

Sr. No.	Type of Sampling	Charges in Rs.
1	Grab sampling/sample/place	600.00
2	For every additional Grab sampling/same place	300.00

Note : (i) Sample collection charges includes transportation and visit charges unless mentioned specifically.

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

(VII) Hazardous Waste Sample collection charges at the premises of Industry/ Import site / Disposal site

Sr. No.	Type of Sampling	Charges in Rs.
1	Integrated sample collection charges	1000.00

Note : (i) Sample collection charges includes transportation and visit charges unless mentioned specifically.

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

B. ANALYSIS CHARGES :**1. Analysis Charges of Ambient Air / Fugitive Emission Samples**

Sr. No.	Parameters	Analysis Charges per sample in Rs.
1.	Ammonia	600.00
2.	Analysis using dragger (per tube)	400.00
3.	Benzene Toluene Xylene (BTX)	1000.00
4.	Carbon Monoxide	600.00
5.	Chlorine	600.00
6.	Fluoride (gaseous)	600.00
7.	Fluoride (particulate)	600.00
8.	Hydrogen Chloride	600.00
9.	Hydrogen Sulphide	600.00
10.	Lead & other metals (per metal)	As mentioned in respective group at Clause 5.0
11.	NO ₂	600.00
12.	Ozone	1000.00
13.	Poly Aromatic Hydrocarbons (PAHs)	As mentioned in respective group at Clause 5.0
14.	Suspended Particulate Matter (SPM)	600.00
15.	Particulate Matter (PM _{2.5})	1000.00
16.	Respirable Particulate Matter (PM ₁₀)	600.00
17.	Sulphur Dioxide	600.00
18.	Volatile Organic Carbon	2000.00
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	3000.00 Per filter paper
20.	Water Extractable ions in Air Particulate Matter using Ion Chromatograph (IC)	
	(i) Processing / Pretreatment Charge per sample (filter paper)	300.00
	(ii) Cations (Na ⁺ , NH ₄ ⁺ , K ⁺ , Ca ⁺⁺ & Mg ⁺⁺) and Anions (F ⁻ , Br ⁻ , Cl ⁻ , NO ₃ ⁻ , NO ₂ ⁻ , SO ₄ ⁻⁻⁻ & PO ₄ ⁻⁻⁻)	1200.00 (for 12 ions)
21.	Organic and Elemental Carbon (OC/EC) on quartz filter paper	2000.00

2. Analysis Charges for Source Emission Parameters

Sr. No.	Parameters	Analysis Charges per test in Rs.
1.	Acid Mist	600.00
2.	Ammonia	600.00
3.	Carbon Monoxide	600.00
4.	Chlorine	600.00
5.	Fluoride (gaseous)	600.00
6.	Fluoride (particulate)	600.00
7.	Hydrogen Chloride	600.00
8.	Hydrogen Sulphide	600.00
9.	Oxides of Nitrogen	600.00
10.	Oxygen	500.00
11.	Poly Aromatic Hydrocarbons (Particulate)	As mentioned in respective group at Clause 5.0
12.	Suspended Particulate Matter	600.00
13.	Sulphur Dioxide	600.00
14.	Benzene Toluene Xylene (BTX)	1500.00
15.	Volatile Organic Compounds (VOCs)	3000.00

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

Parameters	Charges in Rs.
PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , SPM, CO along with Meteorological data viz. Temperature, Humidity, Wind speed, Wind direction	Rs.3,500/- / hour (minimum charges Rs,15,000/-) + Rs.50.00 / km run of the van for 24 hours monitoring

4. Auto Exhaust Monitoring – One time checking of vehicular exhaust

Parameters	Charges in Rs.
Carbon Monoxide %	As per rate notified by Regional Transport Department.
Hydrocarbon, PPM	
Smoke Density, HSU	

5. Analysis Charges of Water & Wastewater Samples

Sr. No.	Parameters	Analysis Charges per test in Rs.
1.	Conductivity	60.00
2.	Odour	60.00
3.	Sludge Volume Index (S.V.I.)	200.00
4.	Solids (dissolved)	100.00
5.	Solids (fixed)	150.00
6.	Solids (volatile)	150.00
7.	Suspended Solids	100.00
8.	Temperature	60.00
9.	Total Solids	100.00
10.	Turbidity	60.00

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11.	Velocity of Flow (Current Meter)	200.00
12.	Velocity of Flow (other)	550.00
13.	Acidity	100.00
14.	Alkalinity	100.00
15.	Ammonical Nitrogen	200.00
16.	Bicarbonates	100.00
17.	Biochemical Oxygen Demand (BOD)	600.00
18.	Bromide	100.00
19.	Calcium (titrimetric)	100.00
20.	Carbon Dioxide	100.00
21.	Carbonate	100.00
22.	Chloride	100.00
23.	Chlorine Demand	200.00
24.	Chlorine Residual	100.00
25.	Chemical Oxygen Demand (COD)	350.00
26.	Cyanide	350.00
27.	Detergent	200.00
28.	Dissolved Oxygen	100.00
29.	Fluoride	200.00
30.	H. Acid	350.00
31.	Hardness (calcium)	100.00
32.	Hardness (total)	100.00
33.	Iodide	100.00
34.	Nitrate Nitrogen	200.00
35.	Nitrite Nitrogen	200.00
36.	Percent Sodium	600.00
37.	Permanganate Value	200.00
38.	pH	60.00
39.	Phosphate (ortho)	200.00
40.	Phosphate (total)	350.00
41.	Salinity	100.00
42.	Sodium Absorption Ratio (SAR)	600.00
43.	Settleable Solids	100.00
44.	Silica	200.00
45.	Sulphate	150.00
46.	Sulphide	200.00
47.	Total Kjeldahl Nitrogen (TKN)	350.00
48.	Urea Nitrogen	350.00
49.	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	1200.00 (for 12 ions)
	Metals	
	<i>Processing/Pretreatment Charges/sample</i>	500.00
1.	Aluminium	300.00
2.	Antimony	300.00
3.	Arsenic	300.00
4.	Barium	300.00
5.	Beryllium	300.00
6.	Boron	300.00
7.	Cadmium	300.00
8.	Chromium Hexavalent	200.00
9.	Chromium Total	300.00
10.	Cobalt	300.00
11.	Copper	300.00
12.	Iron	300.00
13.	Lead	300.00

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14.	Magnesium	200.00
15.	Manganese	300.00
16.	Mercury (Processing & Analysis)	800.00
17.	Molybdenum	300.00
18.	Nickel	300.00
19.	Potassium	200.00
20.	Tin	300.00
21.	Selenium	300.00
22.	Silver	300.00
23.	Sodium	200.00
24.	Strontium	300.00
25.	Vanadium	300.00
26.	Zinc	300.00
	Organo Chlorine Pesticides (OCPs)	
	<i>Processing / Pretreatment Charges per sample</i>	<i>1000.00</i>
1.	Aldrin	400.00
2.	Dicofol	400.00
3.	Dieldrin	400.00
4.	Endosulfan-I	400.00
5.	Endosulfan-II	400.00
6.	Endosulfan Sulfate	400.00
7.	Heptachlor	400.00
8.	Hexachlorobenzene (HCB)	400.00
9.	Methoxy Chlor	400.00
10.	<i>o.p.</i> ¹ -DDT	400.00
11.	<i>p.p.</i> ² DDD	400.00
12.	<i>p.p.</i> ² DDE	400.00
13.	<i>p.p.</i> ² DDT	400.00
14.	α -HCH	400.00
15.	β -HCH	400.00
16.	γ -HCH	400.00
17.	δ -HCH	400.00
	Organo Phosphorous Pesticides (OPPs)	
	<i>Processing / Pretreatment Charges per sample</i>	<i>1000.00</i>
18.	Chlorpyriphos	400.00
19.	Dimethoate	400.00
20.	Ethion	400.00
21.	Malathion	400.00
22.	Monocrotophos	400.00
23.	Parathion-methyl	400.00
24.	Phorate	400.00
25.	Phosphamidon	400.00
26.	Profenophos	400.00
27.	Quinalphos	400.00
	Synthetic Pyrethroids (SPs)	
	<i>Processing / Pretreatment Charges per sample</i>	<i>1000.00</i>
28.	Deltamethrin	400.00
29..	Fenpropethrin	400.00
30.	Fenvalerate	400.00
31.	α -Cypermethrin	400.00
32.	β - Cyfluthrin	400.00
33.	λ -Cyhalothrin	400.00
	Herbicides	
	<i>Processing / Pretreatment Charges per sample</i>	<i>1000.00</i>
34.	Alachlor	400.00
35.	Butachlor	400.00
36.	Fluchloralin	400.00

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37.	Pendimethalin	400.00
	Polycyclic Aromatic Hydrocarbons (PAHs)	
	<i>Processing / Pretreatment Charge per sample</i>	1000.00
1.	Acenaphthene	400.00
2.	Acenaphthylene	400.00
3.	Anthracene	400.00
4.	Benz(a)anthracene	400.00
5.	Benzo(a)pyrene	400.00
6.	Benzo(b)fluoranthene	400.00
7.	Benzo(e)pyrene	400.00
8.	Benzo(g,h,i.)perylene	400.00
9.	Benzo(k)fluoranthene	400.00
10.	Chrysene	400.00
11.	Dibenzo(a,h)anthracene	400.00
12.	Fluoranthene	400.00
13.	Fluorene	400.00
14.	Indeno(1,2,3-cd)pyrene	400.00
15.	Naphthalene	400.00
16.	Perylene	400.00
17.	Phenanthrene	400.00
18.	Pyrene	400.00
	Polychlorinated Biphenyls (PCBs)	
	<i>Processing / Pretreatment Charge per sample</i>	1000.00
1.	Aroclor 1232	400.00
2.	Aroclor 1242	400.00
3.	Aroclor 1248	400.00
4.	Aroclor 1254	400.00
5.	Aroclor 1260	400.00
6.	Aroclor 1262	400.00
	Tri Halo Methane (THM)	
	<i>Processing / Pretreatment Charge per sample</i>	800.00
1.	Bromo dichloromethane	400.00
2.	Bromoform	400.00
3.	Chloroform	400.00
4.	Dibromo Chloromethane	400.00
5.	Other Organic Parameter	
6.	Adsorbable Organic Halogen (AOX)	2000.00
7.	Tannin / Lignin	350.00
8.	Oil & Grease	200.00
9.	Phenol	200.00
10.	Total Organic Carbon (TOC)	500.00
11.	Volatile Organic Acids	350.00
	Benthics Organism Sample Collection	1000.00
1.	Benthic Organism identification & Count (each sample)	600.00
	Plankton Sample Collection	250.00
1.	Plankton (Phytoplankton) count	600.00
2.	Plankton (Zooplankton) count	600.00
3.	Chlorophyll Estimation	600.00
	Bacteriological Sample Collection	200.00
1.	E. Coli (MFT technique)	400.00
2.	E. Coli (MPN technique)	350.00
3.	Faecal Coliform (MFT technique)	400.00
4.	Faecal Coliform (MPN technique)	350.00
5.	Faecal Streptococci (MFT technique)	450.00

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6.	Faecal Streptococci (MPN technique)	400.00
7.	Standard Plate Count	200.00
8.	Total Coliform (MFT technique)	400.00
9.	Total Coliform (MPN technique)	350.00
10.	Total Plate Count	350.00
11.	Toxicological – Bioassay (LC ₅₀)	2800.00
12.	Toxicological – Dimensionless toxicity test	1600.00

- Note : (i) Sampling charges for water and wastewater samples are separate as specified in Clause A (IV), but subject to minimum of Rs.700/- irrespective of number of samples.
(ii) Sample collection charges includes transportation and visit charges unless mentioned specifically.

6. Analysis Charges of Soil/Sludge/Sediment/Solid Waste Samples

Sr. No.	Soil Parameters	Analysis Charges per test in Rs.
1.	Ammonia	300.00
2.	Bicarbonates	200.00
3.	Boron	400.00
4.	Calcium	150.00
5.	Calcium Carbonate	350.00
6.	Cation Exchange Capacity (CEC)	400.00
7.	Chloride	150.00
8.	Colour	100.00
9.	Electrical Conductivity (EC)	100.00
10.	Exchangeable Sodium Percentage (ESP)	550.00
11.	Gypsum Requirement	350.00
12.	H. Acid	400.00
13.	Heavy Metal	As mentioned in respective group at Clause 5.0
14.	Trace Metals using ED-XRF - 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	4000.00
15.	Magnesium	300.00
16.	Mechanical soil analysis (soil texture)	150.00
17.	Nitrate	300.00
18.	Nitrite	300.00
19.	Nitrogen available	350.00
20.	Organic Carbon/Matter (chemical method)	350.00
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

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24.	pH	100.00
25.	Phosphorous (available)	400.00
26.	Phosphate (ortho)	300.00
27.	Phosphate (total)	400.00
28.	Potash (available)	200.00
29.	Potassium	300.00
30.	Sodium Absorption Ratio (SAR) in soil extract	650.00
31.	Sodium	300.00
32.	Soil moisture	100.00
33.	Sulphate	200.00
34.	Sulphur	350.00
35.	Total Kjeldahl Nitrogen (TKN)	400.00
36.	TOC	550.00
37.	Total water soluble salts	200.00
38.	Water holding capacity	100.00

7. Analysis Charges for Hazardous Waste Samples

Sr. No.	Parameters	Analysis Charges per test in Rs.
1.	Preparation of Leachate (TCLP extract/ Water extract)	1000.00
2.	Determination of various parameters in Leachate	As mentioned in respective group at Clause 5.0
3.	Flash point / Ignitibility	550.00
4.	Reactivity	550.00
5.	Corrosivity	550.00
6.	Measurement of Toxicity	
	- LC ₅₀	2800.00
	- Dimensionless Toxicity	1600.00
7.	Total Organic Carbon	500.00
8.	Adsorbable Organic Halogen (AOX)	2000.00

8. Analytical Quality Control (AQC) Participation Fees: to be given to MPCB by recognized laboratory for AQC exercise samples.

Sr. No.	Organization	AQC participation fee in Rs.
1.	Laboratories of Govt/Semi Govt/Public Sector Undertaking/ Autonomous bodies	10,000.00
2.	Private Sector Laboratories	15,000.00


(Member Secretary)
Maharashtra Pollution Control Board