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The Sindh Environmental Quality Standards (Self-Monitoring and Reporting by Industry) Rules, 2014

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GOVERNMENT OF SINDH
SINDH ENVIRONMENT PROTECTION AGENCY

Karachi dated the 16th December,2014.

NOTIFICATION

No.**EPA/TECH/739/2014**:- In exercise of the powers conferred by section 36 of the Sindh Environmental Protection Act, 2014, Sindh Environmental Protection Agency with the approval of the Government of Sindh, is pleased to establish the following, rules, namely: -

1. **Short title and commencement.** (1) These rules may be called the Sindh Environmental Quality Standards (Self-Monitoring and Reporting by Industry) Rules, 2014.

(2) They shall come into force at once.

2. **Definitions**. - **(1)** In these rules, unless there is anything repugnant in the subject or context -

(a) **"Act"** means the Sindh Environmental Protection Act, 2014;

(b) **"Agency"** means the Sindh Environmental Protection Agency established under the Act;

(c) "a**ssociated company"** and "associated undertaking, shall have the same meaning as defined in the Companies Ordinance, 1984 (XLVII of 1984);

(d) "**certified environmental laboratory"** means an environmental laboratory which has been granted certification under the Sindh Environmental Protection Agency (Certification of Environmental Laboratories) Regulations, 2014;

(e) **"Director-General"** means the Director-General of the Agency;

(f) "**environmental monitoring** report" means the report submitted by an industrial unit to Agency in respect of priority parameters;

(g) "**industrial unit"** means any legal entity carrying on industrial activity;

(h) "**pollution level"** means number of units per unit of production determined under the Pollution Charge of Industry (Calculation and Collection) Rules,2001;

(i) "**priority parameters"** means those parameters of the Sindh Environmental Quality Standards which have been selected for purposes of

submission of Environmental Monitoring Reports to the Agency by an industrial unit; and

(j) **"Schedule"** means the Schedule to these rules.

(2) All other words and expressions used but not defined in these rules shall have the same meanings as are assigned to them in the Act.

3. **Responsibility for reporting**. All industrial units shall be responsible for correct and timely submission of Environmental Monitoring Reports to the Agency.

4. **Classification of industrial units**. On the basis of the pollution level of an industrial unit, the Director General shall classify the unit into category "A", "B" or "C" for liquid effluents, and category "A" or "B" for gaseous emissions:

Provided that till such time as the pollution level of an industrial unit is determined, it shall be classified according to the type of industry to which it belongs, as shown in Schedule-I, for liquid effluents and in Schedule-II, for gaseous emissions.

5. **Category "A" industrial units**. (1) An industrial unit in category "A" shall submit environmental monitoring reports on monthly basis -

(a) in respect of liquid effluents, for priority parameters listed in column 3 of Table "A" of Schedule-III:

Provided that during start-up or upset conditions, priority parameters mentioned in column 4 of Table "A" of Schedule-III shall be recorded on hourly basis;

(b) in respect of gaseous emissions, for priority parameters listed in Table "B" of Schedule-III.

(2) An industrial unit in category "A" shall maintain a record of the times during which start-up and upset conditions occur, and shall mention the total time elapsed in such conditions in its monthly environmental monitoring report.

6. **Category "B" industrial units**.- An industrial unit in category "B" shall submit environmental monitoring reports on quarterly basis -

(a) in respect of liquid effluents, for priority parameters listed in Table "A" of Schedule-IV;

(b) in respect of gaseous emissions, for priority parameters listed in Table "B" of Schedule-IV.

7. **Category "C" industrial units**. An industrial unit in category "C" shall submit environmental monitoring reports on biannual basis for priority parameters in respect of liquid effluents listed in Schedule-V.

8. **Special Industries**. (1) Without prejudice to the provisions of rule 4, the Director General may classify a large industrial unit with very high pollution levels as "Special Industry".

(2) In addition to complying with the requirements of rule 5, a Special Industry shall submit environmental monitoring reports for such parameters and at such frequency as the Director General may require.

9. **Environmental Monitoring Report**. - (1) An environmental monitoring report shall comprise a liquid effluents monitoring report, a gaseous emissions monitoring report and a cover sheet which shall be in the form as set out in Forms A, B and C, respectfully, of Schedule-VI.

(2) All measurements of priority parameters contained in the environmental monitoring report submitted by an industrial unit shall be based on test reports of a certified environmental laboratory, and attested copies of such results shall be attached with the environmental monitoring report:

Provided that such certified environmental laboratories shall not be part of, or an associated company or associated undertaking of, the said industrial unit; provided that the Agency may, for the purpose of confirmation of provided results, direct to take samples of effluents, emissions and waste on its own or by engaging any independent certified laboratory.

(3) The gaseous emissions report shall cover the priority parameters listed in Schedule-VII, and shall include, every two years, metal analysis of all gaseous emissions from the industrial unit.

10. **Sampling, testing and analysis**. Sampling testing and analysis of effluents, gaseous emissions and waste shall be carried out in accordance with the Environmental Samples Rules,2014.

11. **Monitoring conditions of EIA approval**. - The provisions of these rules shall be in addition to, and not in derogation of, the monitoring conditions laid down in an EIA approval.

12. **Compilation, analysis and management of data**. - The Agency shall compile, analyze and manage the data contained in the environmental monitoring reports with the objective, *inter alia*, of enforcing the Sindh Environmental Quality Standards and developing an environmental database.

13. **Repeal and Savings.** (1) The provisions of the National Environmental Quality Standard (Self-Monitoring and Report by Industry) Rules, 2001, to the extent of the Province of Sindh are hereby repealed.

(2) All orders made, notification issued, actions taken under the repealed Rules shall remain in force until amended, altered or repealed by the provisions of these Rules.

DIRECTOR GENERAL
SINDH ENVIRONMENTAL PROTECTION AGENCY

Schedule I
(*See* rule 4)
Classification of Industrial Units for Liquid Effluents

1. **Category "A"**

(1) Chlor-Alkali (Mercury Cell).
(2) Chlor-Alkali (Diaphram Cell).
(3) Metal finishing and electroplating.
(4) Nitrogenous fertilizer.
(5) Phosphate fertilizer.
(6) Pulp and paper.
(7) Pesticides formulation.
(8) Petroleum refining.
(9) Steel industry.
(10) Synthetic fiber.
(11) Tanning and leather finishing.
(12) Textile processing.
(13) Pigments and dyes.
(14) Thermal Power Plants (Oil Fired and Coal Fired).
(15) Rubber products.
(16) Paints, Varnishes and Lacquers.
(17) Pesticides.
(18) Printing.
(19) Industrial chemicals.
(20) Oil and Gas production.
(21) Petrochemicals.
(22) Combined effluent treatment.
(23) Any other industry to be specified byProvincial Agency.

2. **Category "B"**

(1) Dairy industry.
(2) Fruit and vegetable processing.
(3) Glass manufacturing.
(4) Sugar.
(5) Detergent.
(6) Photographic.
(7) Glue manufacture.
(8) Oil and Gas exploration.
(9) Thermal Power Plants (Gas Fired)
(10) Vegetable oil and ghee mills.
(11) Woolen mills.
(12) Plastic materials and products.
(13) Wood and cork products.
(14) Any other industry to be specified by Sindh Environmental Protection Agency.

3. **Category "C"**

(1) Pharmaceutical (Formulation) Industry.
(2) Marble Crushing.
(3) Cement.
(4) Any other industry to be specified by Sindh Environmental Protection Agency

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Schedule II
(*See* rule 4)
Classification of Industrial Units for Gaseous Emissions

1. **Category "A"**

(1) Cement.
(2) Glass manufacturing
(3) Iron and steel.
(4) Nitrogenous fertilizer.
(5) Phosphate fertilizer.
(6) Oil and Gas production.
(7) Petroleum refining.
(8) Pulp and paper.
(9) Thermal Power Plants (coal and oil based)
(10) Boilers, ovens, furnaces and kilns (coal and oil fired)
(11) Brick-Kilns (firewood and bagasse based)
(12) Any other industry to be specified by Sindh Environmental Protection Agency.

2. **Category "B"**

(1) Sugar.
(2) Textile.
(3) Choloralkali plants.
(4) Dairy industry.
(5) Fruits and vegetables.
(6) Metal finishing and electroplating.
(7) Boilers, ovens, furnaces and kilns (gas-fired)
(8) Any other industry to be specified by Sindh Environmental Protection Agency

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Schedule III
[See rule 5(1)(a) and (b)]
Table A
Category "A"
Priority Parameters for Monitoring of Liquid Effluents

S.No.	Industry	Priority Parameters for Normal Plant Conditions to be Reported on a Monthly Basis[1]	Priority Parameters for Start-up and Upset Conditions to be Recorded on an Hourly Basis
1.	Chlor-Alkali (Mercury Cell)	Effluent flow, Temperature, pH, TSS, Chlorine, Mercury, Chlorides	Effluent Flow. Temperature, pH, TSS, Mercury, Chlorides
2.	Chlor-Alkali (Diaphragm Cell)	Effluent Flow, Temperature, pH, TSS, Chlorine, Chlorides	Effluent Flow, Temperature, pH, TSS, Chlorides
3.	Metal Finishing and Electroplating[2]	Effluent Flow, Temperature, pH, TSS, Oil and Grease, Arsenic, Cadmium, Chromium (trivalent), Chromium (hexavalent), Lead, Nickel, Mercury, Silver Zinc, Flourides, Cyanides	Effluent Flow, Temperature, pH, TSS,
4.	Nitrogenous Fertilizer	Effluent Flow Temperature, pH, TSS, Ammonia, COD	Effluent Flow, Temperature, pH, TSS,
5.	Phosphate Fertilizer	Effluent Flow, Temperature pH, TSS, Cadmium, Flourides, COD	Effluent Flow, Temperature, pH, TSS,
6.	Pulp and paper	Effluent Flow, Temperature, pH, COD, TSS, TDS Sulfides, BOD5	Effluent Flow, Temperature, pH, TDS, TSS,
7.	Pesticides Formulation	Effluent Flow, Pesticides	Effuent Flow,
8.	Petroleum Refining	Efflunt flow, Temperature,pH, COD, TSS, BOD5 Oil and Grease, phenolic compounds	Effluent Flow, Temperature, pH, TSS,
9.	Steel Industry[2]	Effluent flow, Temperature, pH, COD, TSS, TDS, Chromium (trivalent), Iron, Oil and Grease, Cadium Copper.	Effluent Flow, Temperature, pH, TSS,
10.	Synthetic Fiber	Effluent Flow, Temperature pH, COD TSS, BOD5, Oil and Grease, Sulfides	Effluent Flow, Temperature, pH, TSS,
11.	Tanning and Leather Finishing	Effluent Flow, Temperature, pH, COD, TSS, BOD5, Sulfide, Oil and Grease, Chromium (trivalent). Chromium (hexavalent), TDS, phenolic compounds	Effluent Flow, Temperature, pH, TSS,
12.	Textile Processing	Effluent Flow, Temperature, pH, COD, TSS, TDS, BOD5, Copper, Chromium	Effluent Flow Temperature, pH, TSS,

S.No.	Industry	Priority Parameters for Normal Plant Conditions to be Reported on a Monthly Basis,	Priority Parameters for Start-up and Upset Conditions to be Recorded on an Hourly Basis
13.	Pigments and Dyes	Effluent Flow, pH, Temperature, COD, lead, Copper, Zinc.	Effluent Flow, Temperature, pH,
14.	Thermal Power Plants (Oil fired and coal fired)	Effluent Flow, Temperature, pH, TSS, Oil and Grease	Effluent Flow, Temperature, pH, TSS
15.	Rubber Products	COD, Cadmium TSS	TSS
16.	Paints, Varnishes & Lacquers	PH, TSS, COD, Lead, Chromium, Cadmium, Zinc, Barium.	PH, TSS
17.	Pesticides	COD, Mercury, Pesticides	COD,
18.	Printing	COD, Lead	COD,
19.	Industrial Chemicals	PH, COD, TDS, Phenolic Compounds, Cyanide, Ammonia, Cadmium*, Chromium*, Mercury*, Nickel*, Zinc*, Arsenic*,	PH, COD, TDS,
20.	Oil and Gas Production	Effluent Flow, Temperature, pH, COD, TSS, TDS, Oil and Grease, Chloride, BOD5, Phenolic Compounds	Effluent Flow, Temperature, pH, TSS, TDS,
21.	Petrochemicals	Effluent Flow, Temperature pH, COD TSS, TDS, Oil and Grease, BOD5, Phenolic Compounds	Effluent Flow, Temperature, pH, TSS, TDS,

1. Industry using chromium in its cooling water system will also report chromium (trivalent, hexavalent) in addition to the stipulated priority parameters for each sector.

2. Steel Industry includes steel-re-rolling mills, electric furnaces, and foundries.

* Priority parameters will be limited to those occurring in chemicals and raw-materials used.

Schedule IV

[See rule 6(a) and (b)]

Table A

Category "B"

Priority Parameters for Monitoring of Liquid Effluents

S. No.	Industry	Priority Parameters for Normal Plant Conditions to be Reported on a quarterly Basis[1]
1.	Dairy Industry	Effluent Flow, Temperature, pH, BOD_5., TSS, TDS, Oil and Grease
2.	Fruit and Vegetable Processing	Effluent Flow, Temperature, pH, BOD_5., TSS, COD
3.	Glass Manufacturing	Effluent Flow, Temperature, pH, TSS, COD, Oil and Grease
4.	Sugar	Effluent Flow, Temperature, pH, BOD_5., TSS, COD, Oil and Grease
5.	Detergent	pH, COD, Oil and Grease, An-ionic Detergent
6.	Photographic	pH, COD, Silver, Cyanide, Fluoride
7.	Glue Manufacture	BOD, COD, pH.
8.	Oil and Gas Exploration	Effluent Flow, Temperature, pH, COD, TSS, TDS, Oil and Grease, Chloride, BOD_5, Phenolic compounds

1. Industry using chromium in its cooling water system will also report Chromium (trivalent, hexavalent) in addition to the stipulated priority parameters for each sector

Table B

Category "A"

Priority Parameters for Monitoring of Gaseous Emissions

S. No.	Industry	Priority Parameters for Normal Plant Conditions to be reported on a Monthly basis	
		Process Emission	**Emission from fired Equipment**
1.	Cement	Particulates	CO,*SOx, NOx, Particulates
2.	Glass Manufacturing	Particulates	CO, *SOx, NOx, Particulates
3.	Iron and Steel	Particulates, Fluorides CO, NOx, SOx	
4.	Nitrogenous Fertilizers	Ammonia, Particulates	CO, *SOx, NOx, Particulates
5.	Phosphate Fertilizers	Ammonia, Flouride, Particulate	
6.	Oil and Gas Production	CO, *Sox, NOx, H_2s and Particulates.	
7.	Petroleum Refining	H2S, NOx, SOx, Particulates	CO, *SOx, NOx, Particulates
8.	Pulp and Paper	Chlorine, SOx	CO, *SOx, NOx, Particulates
9.	Thermal Power Plants (Coal and Oil based)		*SOx, NOx, CO, Heavy Metals and Particulates
10.	Boilers, Ovens, Furnaces and Kilns (Coal and Oil fired)		CO, NOx, *SOx, Particulates.
11.	Brick Kilns (Firewood and Bagasse)		CO, Particulates

1. Metal analyses of all gaseous emission would be carried out once in two years.

*Only where fuel contains hydrogen sulphide (H2S) more than 20ppm

Table B
Category "B"
Priority Parameters for Monitoring of Gaseous Emission
Category "B"

S. No.	Industry	Priority Parameters for Normal Plant Conditions to be reported on a Quarterly Basis[1]	
		Process Emission	**Emission from fired Equipment**
1.	Sugar	Particulates	CO,*SOx, NOx, Particulates
2.	Taxtile		CO, *SOx, NOx, Particulates
3.	Chloralkali Plants	Chlorine	
4.	Dairy Industry		CO, NOx, *SOx, Particulates
5.	Fruits and Vagetables		CO, NOx, *SOx, Particulates
6.	Metal Finishing and Electroplating	Particulates	
7.	Boilers, Ovens, furnaces and Kilns (Gas–fired)		CO, NOx

1. Metal analyses of all gaseous emission would be carried out once in two years.
*Only where fuel contains hydrogen sulphide (H2S) more than 20ppm

Schedule V
(See rule 7)
Category "C"
Priority Parameters for Monitoring of Liquid Effluents

S. No.	Industry	Priority Parameters for Normal Plant Conditions to be Reported on a quarterly Basis[1]
1.	Pharmaceutical (formulation industry, marble crushing, Cement, and any other industry as notifed by EPAs	Effluent Flow, Temperature, pH, COD, TSS, TDS,

1. Industry using chromium in its cooling water system will aslo report chromium (trivalent, hexavalent) in addition to the stipulated priority parameters for each sector.

Schedule VI

FORM A

Liquid Effluents Monitoring Report

SMART Plant Database ×

Monitored Effluents

Normal Conditions **SMART**

Sampling Information

Stream | Sampling Date | Sampling Time

Location | Temp. (C) | Flow [m3/hr]

Reported Data

Period

Reported Days | Hrs Per Day

Laboratory

Name | Address

Sample Analysis

Ammonia	mg/l	Chlorine	mg/l	Lead	mg/l	Silver	mg/l
Anionic Detergents	mg/l	Chromium (Hexavalent)	mg/l	Manganese	mg/l	Sulfides	mg/l
Arsenic	mg/l	Chromium (Trivalent)	mg/l	Mercury	mg/l	TDS	mg/l
Barium	mg/l	COD	mg/l	Nickel	mg/l	Total Chromium	mg/l
BOD5	mg/l	Copper	mg/l	Oil and Grease	mg/l	TSS	mg/l
Boron	mg/l	Cyanides	mg/l	Pesticides	mg/l	Zinc	mg/l
Cadmium	mg/l	Fluorides	mg/l	pH			
Chlorides	mg/l	Iron	mg/l	Phenolic Compounds	mg/l		

Province/Plant ID

PUNJAB **1AAV**

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Schedule VI

FORM B

Gaseons Effluents Monitoring Report

SMART Plant Database

Monitored Emissions Normal Conditions SMART

Sampling Information

Process Emission Stack | Sampling Date | Time

Location | Flow [m3/hr]

Reported Data

Period

Reported Days | Hrs Per Day

Laboratory

Name | Address

Sample Analysis

Ammonia	mg/nm3	Copper	mg/nm3	NOx	mg/nm3
Antimony	mg/nm3	Hydrogen Fluoride	mg/nm3	Particulates	mg/nm3
Arsenic	mg/nm3	Hydrogen Sulphide	mg/nm3	Smoke	Ringlemun Scale
Cadmium	mg/nm3	Hydrogen Chloride	mg/nm3	SOx	mg/nm3
Chlorine	mg/nm3	Lead	mg/nm3	Zinc	mg/nm3
CO	mg/nm3	Mercury	mg/nm3		

Province/Plant ID

PUNJAB 1AAV

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FORM C

Environmental Monitoring Report Cover Sheet

SMART Plant Database

Registration Information SMART

Company

Company Name
Address 1
Address 2
City
Post Code
Chief Executive
Designation
City Code
E-mail
Phone
Fax

Plant

Plant Name
Address 1
Address 2
City
District
Contact Person
Designation
City Code
E-mail
Phone
Fax

Type

Plant Type
Total Number of Streams
Total Number of Combustion Stacks
Total Number of Process Stacks
Plant Uses Chromium Based Chemicals for Water Treatment ? ◯ Yes ◯ No

Province/Plant ID

PUNJAB 1AAV

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Schedule VII

[See rule 9(3)

Priority Parameters for Monitoring of Gaseous Emissions

S. No.	Emission source	Priority Parameters 2 for Reporting
1.	Boiler, Ovens Furnaces and Kilns	
	Gas Fired	CO, NOx
	Oil Fired	CO, NOx, SOX, Particulates
	Coal	CO, NOx, SOX, Particulates
	Bagasee and Firewood	CO, Particulates
2.	Brick Kilns	CO, NOx, SOX, Particulates
3.	Thermal Power Plants	Sox, NOx, Particulates
4.	Process Emission[1]	Particulates Ammonia, Chlorine, H2S, flouride, SOx, NOx, Co, Mercury*, Lead*, Zinc*, Cadmium*, Arsenic*, Antimony*

1. Process emissions involving fuel combustion will also include parameters as for Boilers, Ovens, furnaces and Kilns.
2. Metal analyses of all gaseous emissions would be carried out once in two years.

* Priority parameters will be limited to those occurring in chemicals and raw-materials used.

F. No. 14 (3)/98-TO-PEPC

(SAEED ATHAR)
Section Officer

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Schedule VI

FORM A

Liquid Effluents Monitoring Report

SMART Plant Database ×

Monitored Effluents

Normal Conditions **SMART**

Sampling Information

Stream | Sampling Date | Sampling Time

Location | Temp. (C) | Flow [m3/hr]

Reported Data

Period

Reported Days | Hrs Per Day

Laboratory

Name | Address

Sample Analysis

Ammonia	mg/l	Chlorine	mg/l	Lead	mg/l	Silver	mg/l
Anionic Detergents	mg/l	Chromium (Hexavalent)	mg/l	Manganese	mg/l	Sulfides	mg/l
Arsenic	mg/l	Chromium (Trivalent)	mg/l	Mercury	mg/l	TDS	mg/l
Barium	mg/l	COD	mg/l	Nickel	mg/l	Total Chromium	mg/l
BOD5	mg/l	Copper	mg/l	Oil and Grease	mg/l	TSS	mg/l
Boron	mg/l	Cyanides	mg/l	Pesticides	mg/l	Zinc	mg/l
Cadmium	mg/l	Fluorides	mg/l	pH			
Chlorides	mg/l	Iron	mg/l	Phenolic Compounds	mg/l		

Province/Plant ID

PU SINDH

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Schedule VI

FORM B

Gaseons Effluents Monitoring Report

SMART Plant Database

Monitored Emissions **Normal Conditions** **SMART**

Sampling Information

Process Emission Stack | Sampling Date | Time

Location | Flow [m3/hr]

Reported Data

Period

Reported Days | Hrs Per Day

Laboratory

Name | Address

Sample Analysis

Ammonia	mg/nm3	Copper	mg/nm3	NOx	mg/nm3
Antimony	mg/nm3	Hydrogen Fluoride	mg/nm3	Particulates	mg/nm3
Arsenic	mg/nm3	Hydrogen Sulphide	mg/nm3	Smoke	Ringlemun Scale
Cadmium	mg/nm3	Hydrogen Chloride	mg/nm3	SOx	mg/nm3
Chlorine	mg/nm3	Lead	mg/nm3	Zinc	mg/nm3
CO	mg/nm3	Mercury	mg/nm3		

Province/Plant ID

PUNJAI SINDH

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FORM C

Environmental Monitoring Report Cover Sheet

SMART Plant Database

Registration Information

SMART

Company

Company Name | Chief Executive
Address 1 | Designation
Address 2 | City Code
City | Post Code | E-mail | Phone | Fax

Plant

Plant Name | Contact Person
Address 1 | Designation
Address 2 | City Code
City | District | E-mail | Phone | Fax

Type

Plant Type

Total Number of Streams | Total Number of Combustion Stacks | Total Number of Process Stacks

Plant Uses Chromium Based Chemicals for Water Treatment ? ◯ Yes ◯ No.

Province/Plant ID

PUNJAI SINDH

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Schedule VII

[See rule 9(3)

Priority Parameters for Monitoring of Gaseous Emissions

S. No.	Emission source	Priority Parameters 2 for Reporting
1.	Boiler, Ovens Furnaces and Kilns	
	Gas Fired	CO, NOx
	Oil Fired	CO, NOx, SOX, Particulates
	Coal	CO, NOx, SOX, Particulates
	Bagasee and Firewood	CO, Particulates
2.	Brick Kilns	CO, NOx, SOX, Particulates
3.	Thermal Power Plants	Sox, NOx, Particulates
4.	Process Emission[1]	Particulates Ammonia, Chlorine, H2S, flouride, SOx, NOx, Co, Mercury*, Lead*, Zinc*, Cadmium*, Arsenic*, Antimony*

1. Process emissions involving fuel combustion will also include parameters as for Boilers, Ovens, furnaces and Kilns.
2. Metal analyses of all gaseous emissions would be carried out once in two years.

* Priority parameters will be limited to those occurring in chemicals and raw-materials used.