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

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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) "associated 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

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

Schedule III [See rule 5(1)(a) and (b)] Table A Category "A"

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Steel Industry1Effluent flow, Temperature, pH, COD, TSS, TDS, Chromium (trivalent), Iron, Oil and Grease, Cadium Copper.Effluent Flow, Temperature, pH, TSS, Effluent Flow, Temperature, pH, COD, TSS, BOD5, Oil and Grease, SulfidesEffluent Flow, Temperature, pH, TSS, Effluent Flow, Temperature, pH, COD, TSS, BOD5, Sulfide, Oil and Grease, Effluent Flow, Temperature, pH, TSS, Effluent Flow, Temperature, pH, COD, TSS, BOD5, Sulfide, Oil and Grease, Effluent Flow, Temperature, pH, TSS, Effluent Flow, Temperature, pH, COD, TSS, BOD5, Sulfide, Oil and Grease, Effluent Flow, Temperature, pH, TSS, Effluent Flow, Temperature, pH, COD, TSS, BOD5, Copper,Effluent Flow, Temperature, pH, TSS, Effluent Flow, Temperature, pH, COD, TSS, BOD5, Copper,Effluent Flow, Temperature, pH, TSS, Effluent Flow, Temperature, pH, COD, TSS, TDS, BOD5, Copper,Effluent Flow, Temperature, pH, TSS, Effluent Flow, Temperature, pH, COD, TSS, TDS, BOD5, Copper,Effluent Flow, Temperature, pH, TSS, Effluent Flow, Temperature, pH, COD, TSS, TDS, BOD5, Copper,Effluent Flow, Temperature, pH, TSS, Effluent Flow, Temperature, pH, COD, TSS, TDS, BOD5, Copper,Effluent Flow, Temperature, pH, TSS, Effluent Flow, Temperature, pH, COD, TSS, TDS, BOD5, Copper,Effluent Flow, Temperature, pH, TSS, Effluent Flow, Temperature, pH, COD, TSS, TDS, BOD5, Copper,Effluent Flow, Temperature, pH, TSS, Effluent Flow, Temperature, pH, TSS,	8.	Petroleum Refining	Efflunt flow, Temperature,pH, COD, TSS, BOD5 Oil and Grease, phenolic compounds	Effuent Flow, Effluent Flow, Temperature, pH. TSS.
Synthetic FiberEffluent Flow, Temperature pH, COD TSS, BOD5, Oil and Grease, SulfidesEffluent Flow, Temperature, pH, TSS, Effluent Flow, Temperature, pH, COD, TSS, BOD5, Sulfide, Oil and Grease, Effluent Flow, Temperature, pH, COD, TSS, BOD5, Sulfide, Oil and Grease, Effluent Flow, Temperature, pH, COD, TSS, BOD5, Sulfide, Oil and Grease, 	9.	Steel Industry ²	Effluent flow, Temperature, pH, COD, TSS, TDS, Chromium (trivalent), Iron, Oil and Grease, Cadium Copper.	Effluent Flow, Temperature, pH, TSS,
Tanning and the firshing Effluent Flow, Temperature, pH, COD, TSS, BOD5, Sulfide, Oil and Grease, Effluent Flow, Temperature, pH, TSS, Finishing Finishing Effluent Flow, Temperature, pH, COD, TSS, BOD5, Sulfide, Oil and Grease, Effluent Flow, Temperature, pH, TSS, TDS, phenolic compounds Textule Processing Effluent Flow, Temperature, pH, COD, TSS, TDS, BOD5, Copper, Effluent Flow Temperature, pH, TSS, TDS, BOD5, Copper, Effluent Flow Temperature, pH, TSS, TSS, TDS, BOD5, Copper, Effluent Flow Temperature, pH, TSS, TSS, TDS, BOD5, Copper, Effluent Flow Temperature, pH, TSS, TSS, TSS, TDS, BOD5, Copper, Effluent Flow Temperature, pH, TSS, TSS, TSS, TDS, BOD5, Copper, Effluent Flow Temperature, pH, TSS, TSS, TSS, TDS, BOD5, Copper, Effluent Flow Temperature, pH, TSS, TSS, TSS, TSS, TSS, TSS, TSS, TS	10.	Synthetic Fiber	Effluent Flow, Temperature pH, COD TSS, BOD5, Oil and Grease, Sulfides	Rfflhent Flow Tamorovania - 11 mee
Textile Processing Effluent Flow, Temperature, pH, COD, TSS, TDS, BOD5, Copper, Effluent Flow Temperature, pH, TSS, Copper, Effluent Flow Temperature, pH, TSS,	Ξ	Tanning and 1 % 4 %r Finishirg	Effluent Flow, Temperature, pH, COD, TSS, BOD5, Sulfide, Oil and Grease, Chromium (trivalent). Chromium (nexavalent), TDS, phenolic compounds	Effluent Flow, Temperature, pH, TSS,
	12.	Textile Processing	Bffluent Flow, Temperature, pH, COD, TSS, TDS, BOD5, Copper, Chromium	Biffuent 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.	Bffluent Flow, Temperature, pH,
14.	Thermal Power Plants (Oil fired and coal fired)	Effluent Flow, Temperature, pH, TSS, Oil and Grease	Bffluent Flow, Temperature, pH, TSS
15.	Rubber Products	COD, Cadmium TSS	SSL
16.	Paints, Varnishes & Lacquers	PH, TSS, COD, Lead, Chromium, Cadmium, Zinc, Barium.	PH, TSS
17.	Pesticides	COD, Mercury, Pesticides	cob,
18.	Printing	COD, Lead	cob,
19.	Industrial Chemicals	PH, COD, TDS, Phenolic Compounds, Cyanide, Ammonía, 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,
	Industry using chromium in its each sector.	its cooling water system will also report chromium (trivalent, hexavalent) in addition to the stipulated priority parameters for	lition to the stipulated priority parameters for
5	Steel Industry includes steel-re-ri	Steel Industry includes steel-re-rolling mills, electric furnaces, and foundries.	
3 	Priority parameters will be limite	Priority parameters will be limited to those occurring in chemicals and raw-materials used.	

S. No.	Industry	Priority Parameters for Normal Plant Conditions to be Reported on a quarterly Basis ¹
i.	Dairy Industry	Effluent Flow, Temperature, pH, BOD ₅ ., TSS, TDS, Oil and Grease
5	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	n Effluent Flow, Temperature, pH, COD, TSS, TDS, Oil and Grease, Chloride, BOD ₅ , Phenolic compounds

Schedule IV [See rule 6(a) and (b)] Table A

Emissions	Priority Parameters for Normal Plant Conditions to be reported on a Monthly basis	Emission from fired Equipment CO,*SOX, NOX, Particulates CO, *SOX, NOX, Particulates X CO, *SOX, NOX, Particulates	s. CO, *SOX, NOX, Particulates CO, *SOX, NOX, Particulates *SOX, NOX, CO, Heavy Metals and Particulates	CO, NOx, *SOx, Particulates.	CO, Particulates	
Table B Category "A" Category "A" Category "A" Priority Parameters for Monitoring of Gaseous Emissions	Priority Parameters for be reported o	Process Emission Particulates Particulates Particulates, Fluorides CO, NOx, SOx Ammonia, Particulates Ammonia, Flouride, Particulate	CO, *Sox, NOX, H ₂ s and Particulates. H2S, NOX, SOX, Particulates Chlorine, SOX			Metal analyses of all gaseous emission would be carried out once in two years. y where fuel contains hydrogen sulphide (H2S) more than 20mm
Priority	S. No. Industry		 0. 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)	 Metal analyses of all gaseous emission would be carried out on *Only where fuel contains hydrogen sulphide (H2S) more than 20mm

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

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

1111111111			-	Judwith i			
			<u>FO</u>	RM A			1
		Liquid	Effluent	s Monitoring l	Report		
MARTPL	ant Datab	riodas	Ignhoute	T. mars N.P.			
		fluents			Normal Co	nditions	SMART
Sampling I	10.000	on		· Correspondences		orted Data -	SMART
1.07.066	S-100	HD110-3-Truesda		-	Perior	SHILL MADE	0111111097
Stream	Sun (Sun	pling Date	Sanipling	g lime	Penox	la 'damaini	Sundane
location	1.163	Tem	p. (C)	Flow [m3/hr]	Repo	ned Days Hrs	Per Day
Laboratory		autura de l	9.10	and with the second			1000
AN STORY OF	and in all		7				
Same	1	1	Address				ricernde.
Sample Ar				e realized and			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
Sample AI	nalysis —	and in the second second second	- 1et				
Sumpre m	191						
		Chlorine		Lead	mg/1	Silver	mg/1
Ammonia		Chlorine Chromium (Ilexavalent)	mg/1	Lead Manganese	mg/1	Silver Sulfides	mg/1
Ammonia Anionic Detergents	mg/1	Chromium (Ilexavalent)	mg/I			-	
Amnonia Anionic Detergents Arsenic	mg/1 mg/1 mg/1	Chromium (Ilexavalent)	mg/l	Manganese		Sulfides TDS Total	mg/1
Ammonia Anionic Detergents Arsenic Barium	mg/1 ng/1 ng/1 ng/1	Chromium (Ilexavalent)	mg/1 mg/1 mg/1	Manganese Mercury Nickel Oil and	mg/1 mg/1 mg/1	Sulfides	mg/1
Ammonia Amionic Detergents Arsenic Barium BOD5	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	Chromium (Ilexavalent)	mg/l	Manganese Mercury Nickel Cil and Grease	mg/1 mg/1 mg/1	Sulfides TDS Total	mg/1
Ammonia Amionic Detergents Arsenic Barium BOD5	mg/1 ng/1 ng/1 ng/1	Chromium (Ilexavalent)	mg/1 mg/1 mg/1	Manganese Mercury Nickel Oil and	mg/1 mg/1 mg/1	Sulfides TDS Total Chronoutin	mg/1 mg/1 mg/1
Ammonia Anionic Detergents Arsenic Barium BOD5 Boron	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	Chromium (Ilexavalent) Chromium (Trivalent) COD Copper	mg/1 mg/1 mg/1	Manganese Mercury Nickel Cil and Grease	mg/1 mg/1 mg/1	Sulfides TDS Total Chronissith TSS	mg/1 mg/1 mg/1 mg/1
Ammonia Amionic Detergents Arsenic Barium BOD5 Boros Cadmium Chlorides	mg/1 ng/1 mg/1 mg/1 mg/1 mg/1 mg/1	Chromium (Ilexavalent) Chromium (Trivalent) COD Copper Cyanides	mg/1 mg/1 mg/1 mg/1 mg/1	Manganese Mercury Nickel Oil and Grease Pessicides PH Phenolic [mg/1 mg/1 mg/1	Sulfides	mg/1 mg/1 mg/1 mg/1
Ammonia Amionic Detergents Arsenic Barium BOD5 Boros Cadmium	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	Chromium (Ilexavalent) Chromium (Trivalent) COD Copper Cyanides Fluorides	mg/1 mg/1 mg/1 mg/1 mg/1 mg/1	Manganese Mercury Nickel Oil und Grease Pessicides	mg/1 mg/1 mg/1 mg/1 mg/1	Sulfides	ng/l ng/l mg/l ng/l ng/l

Schedule VI

FORM B

Gaseons Effluents Monitoring Report

	ored En Information			N	ormal Conditio	
Process Emissio	n Stack	Sampling Date		fime	Period	
Location				ı [Reported Days	Hrs Per Day
Laborator	y					
Name			Address	2		
Sample A	nalysis —		·			
Ammonia	mg/nm3	Copper	<u> </u>	mg/um3	NOx	mg/um3
Antimony	mg/ani3	Hydrogen Fluoride		mg/nm3	Particulates	nig/im3
Arsenic	mg/am3	Hydrogen Sulphide	Г <u> </u>	mg/nm3	Smoke	Ringleman Sca
admium	mg/um3	Hydrogen Chloride		mg/nni3	SOx	mg/om3
Chlorine	mg/nm3	Lead	<u> </u>	mg/nm3	Zinc	. ng/nm3
:o	nig/um3	Mercury	<u> </u>	mg/nm3		
Province	/Plant ID					
	PUNJ	an Natara Astara	Edit		ave Cance	

FORM C

Environmental Monitoring Report Cover Sheet

MART Plant Data				() · ·) //
Registration I	nformation			SMART
Company Name Address 1 Address 2 City	PostCode	Chief Executive Designation City Code E-mail	Phone	Fax
Plant		Contact Person	:- 	
ddress 1		Designation		
ddress 2	Martin Martin Martin Martin	- City Code		
City	District	- E-mail	Phone	Fax
				1
Plant Type				
otal Number of Streams	Total Number of Combu	ustion Stacks	Total Number of Process	s Stacks
Plant Uses Chromium Based C	hemicals for Water Treatment ?) Yes 🕢 No.	3	
Province/Plant I PU	DNJAB 1AAV	Edit Sav	cancel	Main

	Priority Parameters for Monitoring of Gaseous Emissions	nissions
S. No.	Emission source	Priority Parameters 2 for Donortic
l.	Boiler, Ovens Furnaces and Kilns	BUILDAN 101 7 STRATTER C
e	T	CO, NOX
	Coal	CO, NOx, SOX, Particulates
ç	d Firewood	CO, NOX, SOX, Particulates CO, Particulates
	Brick Kilns Thermal Power Plants	CO, NOx, SOX, Particulates
4.	lui	Sox, NOx, Particulates
5		Particulates Ammonia, Chlorine, H2S, flouride, SOx, NOx, Co, Mercurv*.
	A. A.	Lead*, Zinc*, Cadmium*, Arsenic*, Antimonv*
1. Proces 2. Matal	Process emissions involving fuel combustion will afso include parameters as for Boilers, Ovens, furnaces and Kilns. We 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	rs, Ovens, furnaces and Kilns.
F. No. 14	F. No. 14 (3)/98-TO-PEPC	
		(SAEED ATHAR) Section Officer
	PRINTED BY THE MANAGER, PRINTING CORPORATION OF PAKISTAN PRESS, ISLAMABAD PUBLISHED BY THE MANAGER OF PUBLICATIONS, KARACHI	SS, ISLAMABAD

Schedule VII

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National Environmental Quality Standards (Self-Monitoring and Reporting by Industry) Rule, 2001

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			FO	RM A			Ani
		Linut	T	0901	Banart		
				s Monitorin;			
SMART PL		ise	lyarobie	4/ สหรณ์ที่.	formula .	1	1200
Monito	red Eff	luents	· · ·		Normal Co	SALTON STREET, STREET,	SMART
Sampling I	nformatio	a brog Lamas	1	Lot a state of	Rep	oorted Data -	Neosyito
Stream	Sampl	ing Date	Sanipling	Time	Perio	a Barrolti	Supplies 1
Location	143	Tem	p. (C)	Flow [m3/hr]	Rep	arted Days Hin	Per Day
Laboratory		tashura	2.1	Ang Constant State			1. 14/644
Name			Address	-			richerioile.)
Sample Ar	nalysis —	• •		, 1983. 			and and a
Ammonia	mg/l	Chlorine	mg/1	Lead	mg/1	Silver	mg/1
Anionic Detergents	mg/1	(llexavalent)	mg/l	Manganese	mg/1	Sulfides	mg/1
Arsenic	mg/1	Chromium (Trivalent)	mg/1	Mercury Nickel	mg/1	тоз Г	mg/1
Barium	mg/l	COD	mg/l	Oil and	mg/1	Total Chromium	mg/l
BODS	mg/l	Copper	mg/l	Grease	mg/l	TSS	mg/l
Boros	mg/l	Cyanides	mg/l	Pesticides	mg/1	Zine .	mg/l
Cadmium	mg/1	Fluorides	mg/l	pH		here a	
Chlorides	mg/1	Iron	mg/l	Phenolic Compounds	mg/1	- Ol welgy	Province
Province/I	Plant ID -			wa 11			
The state first in ballion	1-1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	SINDH		Edit	Save	Cancel	Main

Schedule VI

FORM B

Gaseons Effluents Monitoring Report

	ored En			Normal Cond	itions SMART ed Data ———
Process Emissio	on Stack	Sampling Date	Time	Period	
ocation			Flow [m3/hr]	Reported D	uys Hrs Per Day
Laborator	ry				
lame			Address		
Sample A	nalysis —				
mmoniu 🔽	mg/nm3	Copper	mg/nm3	NOx	mg/nm3
itimony	mg/am3	Hydrogen Fluoride	mg/am3	Particulates	nig/im3
senic	mg/nm3	Hydrogen Sulphide	mg/nm3	Smoke	Ringleman Sca
dmium	mg/nm3	Hydrogen Chloride	mg/nn3	SOx	mg/nm3
lorine	mg/nm3	Lead	mg/nm3	Zinc	
, L_	nig/um3	Mercury	mg/nm3		
Provinc	e/Plant ID		Γ		
	PUNJ	AI SIND	H idit	Save Ca	ncel Main

FORM C

Environmental Monitoring Report Cover Sheet

MART Plant Database	nation			CMADT
Registration Inform Company ————	nation			SMARI
Company Name Address 1 Address 2 City	PostCode	Chief Executive Designation City Code E-mail	Phone Phone	- Fax
Plant		Contact Person		· · ·
iddress 2 Di	istrict	City Code	Phone	Fax Fax
Гуре				1
Plant Type	Total Number of Combu	istion Stacks	Total Number of Process	s Stacks
Plant Uses Chromium Based Chemicals for	r Water Treatment ?) Yes 🔿 No.	4	
D				
Province/Plant ID PUNJA	SINDH	Edit Sav	Cancel	Main

1. Boiler, Ovens Furnaces and Kilns Gas Fired Co, NOX, Oil Fired CO, NOX, SOX, Particulates Coal CO, NOX, SOX, Particulates Bagase and Firewood Sox, NOX, SOX, Particulates Bagase and Firewood CO, NOX, SOX, Particulates Brick Kilns CO, NOX, SOX, Particulates Bagase and Firewood Sox, NOX, SOX, Particulates Brocess Emission ¹ Particulates Ammonia, Chlorine, H2S, flouride, SOX, NOX, Co, Mercury*, Lead*, Zinc*, Cadmium*, Arsenic*, Antimony* Process emissions involving fuel combustion will also include parameters as for Boilers, Ovens, furnaces and Kilns.	S. No.	Emission source Priority	Priority Parameters 2 for Renording
Gas Fired Oil Fired Coal Bagasee and Firewood Brick Kilns Thermal Power Plants Thermal Power Plants Process Emission ¹ Process emissions involving fuel combustion will afso include parameters as for Boile	l.	Boiler, Ovens Furnaces and Kilns	
Coal Bagasee and Firewood Brick Kilns Thermal Power Plants Process Emission ¹ Process emissions involving fuel combustion will afso include parameters as for Boile		Gas Fired Oil Fired	CO, NO _X
Bagasee and Firewood Brick Kilns Thermal Power Plants Process Emission ¹ Process emissions involving fuel combustion will afso include parameters as for Boile		Coal	CO, NOx, SOX, Particulates
Thermal Power Plants Thermal Power Plants Process Emission ¹ Process emissions involving fuel combustion will afso include parameters as for Boile	6	Bagasee and Firewood	CO, NOX, SOX, Particulates CO, Particulates
 Process Emission¹ Process Emission¹ Process emissions involving fuel combustion will also include parameters as for Boilers, Ovens, furnaces and Kilns. 	ы.	Thermal Power Plants	CO, NOx, SOX, Particulates
Process emissions involving fuel combustion will also include parameters as for Boilers, Ovens, furnaces and Kilns.	4	Process Emission ¹	Dox, NOX, Particulates Particulates Ammonia, Chlorine, H2S, flouride, SOX, NOX, Co, Mercury*, Lead*, Zinc*, Cadmium* A rearies
	Process Wetal ar	Antim Process emissions involving fuel combustion will afso include parameters as for Boilers, Overal analyses of all gaseous emissions would be corriged on the parameters as for Boilers, Overal analyses of all gaseous emissions would be corriged on the parameters as for Boilers, Overal analyses of all gaseous emissions would be corrected on the parameters as for Boilers, Overal analyses of all gaseous emissions would be corrected on the parameters as for Boilers, Overal analyses of all gaseous emissions would be corrected on the parameters as for Boilers, Overal analyses of all gaseous emissions would be corrected on the parameters as for Boilers, Overal analyses of all gaseous emissions would be corrected on the parameters as for Boilers, Overal analyses of all gaseous emissions would be corrected on the parameters as for Boilers, Overal analyses of all gaseous emissions would be corrected on the parameters as for Boilers, Overal analyses of all gaseous emissions would be corrected on the parameters as for Boilers, Overal analyses of all gaseous emissions would be corrected on the parameters as for Boilers, Overal analyses of all gaseous emissions would be corrected on the parameters as for Boilers, Overal analyses of all gaseous emissions would be corrected on the parameters as for Boilers, Overal analyses of all gaseous emissions would be corrected on the parameters as for Boilers, Overal analyses of all gaseous emissions would be corrected on the parameters as for Boilers, Overal analyses of all gaseous emissions would be corrected on the parameters as for Boilers, Overal analyses of all gaseous emissions would be corrected on the parameters as for Boilers, Overal analyses of all gaseous emissions would be corrected on the parameters and the par	Antimony* ilers, Ovens, furnaces and Kilns.