



M.P. Pollution Control Board

Paryavaran Parisar, E-5, Sector, Arera Colony, Bhopal - 462016

☎ (0755)2464428, 2466191 Fax : 0755 - 2463742 e-mail:it mppcb@rediffmail.com, www.mppcb.nic.in

No. 4981 /HO/TS/MPPCB/2014

Bhopal, Dated: 12 / 8 /2014

To,

The Industries

(As per enclosed list)

Sub.:- Direction under section 33A of the Water (Prevention & control of Pollution) Act, 1974 and 31A of the Air (Prevention & control of Pollution) Act, 1981 - reg.

Réf.:- CPCB letter no. B-29016/04/06/PCI-I/5401, dated 5th Feb. 2014.

Whereas as Central Pollution Control Board has issued mandatory directions to M.P. Pollution Control Board under section 18(1) (b) of the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 in the matter of Pollution Control in 17 category of highly Polluting industries, CETPs and Common Hazardous Waste & Bio-Medical Waste Incinerators-regarding self monitoring of compliance vide letter no. B-29016/04/06/PCI-I/5401, dated 5th Feb. 2014. The directions issued are as follows:

- To Install online continuous Stack Emission Monitoring System (CSEMS) in 17 categories of highly polluting industries and in common Hazardous waste and Biomedical waste incinerators for the parameters (industry/sector specific parameter) mentioned in the consent to operate/authorization not later than by March 31, 2015;
- To Install online effluent quality monitoring system at the outlet of effluent treatment plants of the 17 category industries and in CETPs for the measurement of the parameters (industry/sector specific parameter) like flow, pH, COD, BOD,TSS and for other consented parameters as per the guidelines provided; not later than by March 31, 2015;
- To consent and upload the online emission and effluent monitoring data at SPCBs/PCCs and CPCB server in a time bound manner but not later than by March 31, 2015:
- To ensure regular maintenance and operation of the online system with temper proof mechanism having facilities for online calibration;
- To submit bank guarantee of 25% of the cost of online monitoring system (emission and effluent whichever applicable) for ensuring timely installation of online monitoring systems within 90 days from the date of receipt of directions issued by SPCBs/PCCs to the industries;

Whereas, you are operating an industry in the name of which generates water/air pollution from different sources and it is covered under 17 categories of highly polluting industry (under category as detailed in annex.1).

Whereas, it is mandatory to the M.P. Pollution Control Board to follow the directions of Central Pollution Control Board issued directions under section 18(1) (b) of the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981.

In view of the above, M.P. Pollution Control Board, now therefore in exercise of power conferred under section 33 'A' of the Water (Prevention & Control of Pollution) Act, 1974 and 31 'A' of the Air (Prevention & Control of Pollution) Act, 1981, you are directed as follows:-



M.P. Pollution Control Board

Paryavaran Parisar, E-5, Sector, Arera Colony, Bhopal - 462016

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- To install online continuous Stack Emission Monitoring System (CSEMS) for the parameters like particulate matter (PM) NOx, SO2, Fluoride, Ammonia etc. mentioned in the consent to operate or as detailed in annexure-2, not later than March 31, 2015;
- To install online continuous effluent monitoring system at the outlet of the ETP for measurement of parameters like Flow, pH, COD, BOD, TDS or some industry specific parameters notified under Environment (Protection) Act/Rules or as detailed in annex.2, not later than March 31, 2015.
- To connect and upload the online emission monitoring data at MPPCBs and CPCB server in a time bound manner but not later than March 31, 2015:
- To ensure regular maintenance and operation of the online system with temper proof mechanism having facilities for online calibration;
- To submit bank guarantee of 25% of the cost of online emission monitoring system for ensuring timely installation of online monitoring systems within 90 days from the date of receipt of directions.

You are directed to provide the **TIME BOUND ACTION PLAN** with Bank Guarantee for compliance of above directions within 30 days of issue of this letter failing which closure direction as per section 33 'A' of the Water (Prevention & Control of Pollution) Act, 1974 and 31 'A' of the Air (Prevention & Control of Pollution) Act, 1981 or interalia action under section 41/37 of the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 will be initiated against you & the company.

(Signature)
(A. A. Mishra)
Member Secretary

Endt.No. 4982 /HO/ BMW /MPPCB/2014

Dated: 12 / 8 /2014

Copy to:

- Chairman, Central Pollution Control Board, Parivesh Bhawan East Arjun Nagar, Delhi- 110032 for information with reference to letter no. B-29016/04/06/PCI-I/5401, dated 5th Feb. 2014 & for necessary action please. (As per enclosed list)
- Director (HSMD), Government of India, Ministry of Environment & Forests, Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, New Delhi - 110 003 for information & necessary action please. (As per enclosed list)
- Deputy Secretary, Govt. of M.P. Department of Housing & Environment, Mantralaya, Bhopal (MP.) for information please. (As per enclosed list)
- Regional Officer, M.P. Pollution Control Board, Bhopal, Indore, Dhar, Ujjain, Jabalpur, Gwalior, Guna, Sagar, Katni, Rewa, Satna, Shahdol, Singrauli (M.P.) for reporting point-wise compliance of the directions every month in reference to this letter no. 1167 dated: 01/3/2014 (As per enclosed list)

(Signature)
(A. A. Mishra)
Member Secretary

Annexure-I

1.	M/s. Hindalco Industries Ltd. (Mahan Aluminium Project) I st Floor, SITE Complex, Circuit House Road, Monwa, Distt. SINGRAULI	Aluminium smaller
2.	M/s. ACC Ltd. (1.815 MTPA Line-1) P. O. Kymore, Distt. KATNI	Cement
3.	M/s. ACC Ltd. (1.815 MTPA Line-2) P. O. Kymore, Distt. KATNI	Cement
4.	M/s. ACC Ltd. (2.72 MTPA) P. O. Kymore, Distt. KATNI	Cement
5.	M/s. Bhilai Jaypee Cement Ltd. Post: Babupur, Teh. Raghurajnaragar, SATNA - 485 112 (M.P.)	Cement
6.	M/s. Diamond Cements Birlapur, P.O. Narsinghgarh, Damoh	Cement
7.	M/s. Jaypee Bela Plant Unit of Jaiprakash Associates Ltd. (Cement Plant/CPP-38.5 MW, 2x25 MW, D.G. Set-3.6MW) P.O. Jaypeepuram, Distt. REWA - 486 450 (M.P.)	Cement + Thermal Power
8.	M/s. Jaypee Rewa Plant Unit of Jaiprakash Associates Ltd. (Cement Plant/CPP- 38.5 MW, 25 MW) P.O. Jaypee Nagar, REWA	Cement + Thermal Power
9.	M/s. Jaypee Sidhi Cement Plant Post: Jaypee Vihar, Village: Majhagawan, P.O. Bharatpur, Dist. SIDHI - 486 776 (M.P.)	Cement
10.	M/s. Ultratech Cement Ltd. (Unit: Vikram Cement Ltd.) (TPP) P.O. Khor, Distt. NEEMUCH - 458 470 (M.P.)	Cement + Thermal Power
11.	M/s. Maihar Cement Ltd., Sarlanagar, Maihar Distt. Satna	Cement
12.	M/s. Prism Cement (Cement Plant/D.G. Set - 6 Mw) Rajdeep, Rewa Road, SATNA - 485 001 (M.P.)	Cement
13.	M/s. Prism Cement (Unit-2) (Cement Plant/D.G. Set - 4x6 MW) Rajdeep, Rewa Road, SATNA - 485 001 (M.P.)	Cement
14.	M/s. Chitrakoot Cement P. Ltd. Subhash Chowk, PB No.35 SATNA	Cement
15.	M/s. KJS Cement Ltd. 17, Bandhavgarh Colony, SATNA	Cement
16.	M/s. Birla Corporation Ltd. (Cement Div.) P.O. Birla Vikas, SATNA	Cement
17.	M/s. Reliance Cement Co. Pvt. Ltd. (Cement Plant) Unit-1 P.O. Itahar, Bharouli, Dist. SATNA - 485 005 (M.P.)	Cement
18.	M/s. Abu Industries Ltd., Village - Labeled Chowki Distt. Dhar	Cement
19.	M/s. Mohta Cement (P) Ltd., Industrial Area, Pithampur Dhar	Cement
20.	M/s. Nagori Cement Ltd., Village - Bagh Distt. Dhar (M.P.)	Cement
21.	M/s. Platinum Cements (P) Ltd., P.O. Ganga Nagar, Dhar (M.P.)	Cement
22.	M/s. Pluton Cement (P) Ltd., Industrial Area Pithampur Dhar	Cement
23.	M/s. Polyport Cement (P) Ltd., Industrial Area Pithampur Dhar	Cement
24.	M/s. Rajat Cement (P) Ltd., Village - Sardarpur, Dhar (M.P.)	Cement
25.	M/s. Vandana Cement Limited, Village - Borkui Distt. Dhar	Cement
26.	M/s. Agrawal Distilleries Pvt. Ltd. Post: Barwaha, Dist. Khargone	Distillery
27.	M/s. Associated Alcohols & Breweries Ltd. Khodigram, Post: Barwaha, Distt. KHARGONE - 451 115 (M.P.)	Distillery
28.	M/s. Gwalior Distillery Ltd. Rairu Farm, A. B. Road, GWALIOR	Distillery
29.	M/s. Kedia Great Galleon Ltd. P.O. Sejwaya, Lebad Chowki, Dhar	Distillery
30.	M/s. Vindhya Distilleries Ltd. Plot No. 269-270, Zone-II, M. P. Nagar, BHOPAL - 462 011 (M.P.)	Distillery
31.	M/s. Oasis Distillery, Village - Borali, Tehsil - Badnawar, Dhar	Distillery
32.	M/s. Rairu Distillery Rairu Form A.B. Gwalior, Distt. Gwalior	Distillery
33.	M/s. Som Distilleries (P) Ltd., Sehatganj, Distt. Raisen (M.P.)	Distillery
34.	M/s. Lilasons Breweries Ltd. Industrial Area, Govindpura, BHOPAL	Distillery
35.	M/s. Gulshan Polyols Ltd., Plot No. 10, 11 & Part of 09, AKVN Industrial Area, Boregaon, Dist. Chhindwara (M.P.)	Distillery /Brewery
36.	M/s. M.P. Beer Products (P) Ltd. Sector-A, I/A, Sanwer Road, INDORE - 452 003 (M.P.)	Distillery /Brewery
37.	M/s. Jagpin Breweries Ltd. Nowgong (BKD) Dist. Chhatarpur	Distillery /Brewery
38.	M/s. Navin Fluorine Industrial No.2 A.B. Road, Dewas	Dye and Dye
39.	M/s. Vardhaman Fabrics Village: Pillikarar, BUDHNI, Sehore	Dye and Dye
40.	M/s. Grasim Industries Ltd. (New Caustic Soda Membrane Cell Unit-1) Birlagram, NAGDA - 456 331 Distt. UJJAIN (M.P.)	Chlor Alkali
41.	M/s. HJI Industries Ltd. P.O. Amlai Paper Mills, Distt. ANUPPUR	Chlor Alkali

42.	M/s. National Fertilizer Ltd., Vijaypur Distt. Guna (M.P.)	Fertilizer
43.	M/s. Rama Phosphate (P) Ltd., (Fertilizer) 20/6 Km Stone Dharamपुरi Ujjain Road, Distt. Indore (M.P.)	Fertilizer
44.	M/s. Madhya Bharat Phosphate Ltd. (Unit-II) AKVN Industrial Area, Thandla Road, Meghnagar, Dist. Jhabua (M.P.)	Fertilizer
45.	M/s. Krishna Phosphchem Ltd. Meghnagar, Dist. Jhabua (M.P.)	Fertilizer
46.	M/s. Madhya Bharat Agro Products Ltd. village: Rajoua, Dist. SAGAR (M.P.)	Fertilizer
47.	M/s. Mukteshwar Fertilizers Ltd. (SSP Unit) Village: Narayan Khedi, Tehsil: Mahidpur, Dist. UJJAIN	Fertilizer
48.	M/s. Khaitan Chemical & Fertilizers Village: Nimrani, A. B. Road, Distt. Khargone (M.P.)	Fertilizer
49.	M/s. Navin Fluorine (Deep Plant) Industrial No.2 A.B. Road, Distt. Dewas - 455 001 (M.P.)	Chemical
50.	M/s. Grasim Industries Ltd. (Unit - I) Birlagram, NAGDA - 456 331 Distt. UJJAIN (M.P.)	Chemical
51.	M/s. Trimula Industries Ltd. (Manufacturer of Sponge Iron) Village & Post: Godwali, Teh: Devssar, Distt. SINGRAULI	Iron & Steel
52.	M/s. Ramnik Power & Alloys (P) Ltd., (Ferrous Plant) Sarandi Industrial Area Waraseoni, Distt. Balaghat (M.P.)	Iron & Steel
53.	M/s. Kamal Sponge Steel & Power Ltd. 17, Bandhavgarh Colony, SATNA - 485 001 (M.P.)	Iron & Steel
54.	M/s. Bharat Oman Refineries Ltd., (Temporary DG Set & Package Boilers) Village - Agasode, Tehsil - Bina Distt. Sagar	Oil Refinery
55.	M/s. Aristo Pharmaceutical Ltd. Plot No. 208, New Industrial Area-II, Mandideep Dist. Raisen (M.P.)	Pharmaceuticals
56.	M/s. Government Opium & Alkaloid Works NEEMUCH	Pharmaceuticals
57.	M/s. IPCA Laboratories Ltd. Pologround, INDORE	Pharmaceuticals
58.	M/s. IPCA Laboratories Ltd. P.O.: Sejavta, Distt. RATLAM	Pharmaceuticals
59.	M/s. Teva API India Ltd. Q-1 to Q4, Ghirongi Industrial Area, Malanpur, Dist. BHIND - 477 117 (M.P.)	Pharmaceuticals
60.	M/s. Unichem Laboratories Ltd. Plot No. 197, Sector-1, Industrial Area, Pithampur, Distt. Dhar (M.P.)	Pharmaceuticals
61.	M/s. Vista Organics Ltd. Plot No. 6, New Ind. Area No. 2 Mandideep Dist. Raisen (M.P.)	Pharmaceuticals
62.	M/s. Lupin Laboratories Ltd., Mandideep Distt. Raisen	Pharmaceuticals
63.	M/s. Ranbaxy Laboratories Ltd., Industrial Area No.2 Dewas	Pharmaceuticals
64.	M/s. Ranbaxy Laboratories Ltd., Industrial Area Malanpur Distt. Bhind (M.P.)	Pharmaceuticals
65.	M/s. Symbiotech Pharma Lab Ltd., Plot No. 5 to 8 SEZ Pithampur, Distt. Dhar (M.P.)	Pharmaceuticals
66.	M/s. Lupin Ltd., (Unit-2) SEZ Phase-II Plot No. 2 Pithampur, Dhar	Pharmaceuticals
67.	M/s. Symbiotech Pharma Gram - Pigdambar Rau Indore	Pharmaceuticals
68.	M/s. Lupin Limited, (Unit-6), Mandideep Raisen (M.P.)	Pharmaceuticals
69.	M/s. ACC Ltd. (Captive Power Plant-I 25 MW) P. O. Kymore, Distt. KATNI	Thermal Power
70.	M/s. ACC Ltd. (Captive Power Plant-II 25 MW) P. O. Kymore, Distt. KATNI	Thermal Power
71.	M/s. Ajay Food Products (Katni) Pvt. Ltd. 33-34, Industrial Area, KATNI	Thermal Power
72.	M/s. Amarkantak Thermal Power Station M.P. Power Generating Co. Ltd., Chachai, Distt. ANUPPUR - 484 422 (M.P.)	Thermal Power
73.	M/s. Birla Corporation Ltd Captive Thermal Power Plant P.O. Birla Vikas, SATNA - 485 005 (M.P.)	Thermal Power
74.	M/s. Grasim Industries Ltd. (25 MW CPP) Birlagram, NAGDA - 456 331 Distt. UJJAIN (M.P.)	Thermal Power
75.	M/s. Grasim Industries Ltd. (40 MW CPP) Birlagram, NAGDA - 456 331 Distt. UJJAIN (M.P.)	Thermal Power
76.	M/s. HEG Ltd. (TPP 30 MW) Industrial Area, Mandideep Raisen	Thermal Power

77.	M/s. HEG Ltd. (TPP 32 MW) Industrial Area, Mandideep Dist. Raisen	Thermal Power
78.	M/s. Kamal Sponge Steel & Power Ltd. (Captive Thermal Power Plant) 17, Bandhavgarh Colony, SATNA - 485 001 (M.P.)	Thermal Power
79.	M/s. Vardhaman Yarns (Captive Power Plant) Plot No. A-1 to A-6, Sector-2 Satlapur, Mandideep, Distt. Raisen (M.P.)	Thermal Power
80.	M/s. Vindhychal Super Thermal Power Station (Stage - I, II, III, IV) N.T.P.C., P.O. Vindhyanagar, Distt. SINGRAUL	Thermal Power
81.	M/s. Maihar Cement Ltd., (Thermal Power Station-1) Sarlanagar, Maihar Distt. Satna (M.P.)	Thermal Power
82.	M/s. Maihar Cement Ltd., (Thermal Power Station-2) Sarlanagar, Maihar Distt. Satna (M.P.)	Thermal Power
83.	M/s. Ramnik Power & Alloys (P) Ltd., (6 MW Biomass Based Captive Power Plant) Sarandi Industrial Area Waraseoni, Distt. Balaghat	Thermal Power
84.	M/s. Raymond Ltd., (115 MW Captive Power Plant) AKVN, Growth Centre Boregaon Distt. Chhindwara	Thermal Power
85.	M/s. Sanjay Gandhi Thermal Power Station M.P. Power Generating Co. Ltd., Birsinghpur, Distt. UMARIA	Thermal Power
86.	M/s. Satpura Thermal Power Station, Sarni, Betul (M.P.)	Thermal Power
87.	M/s. Amarkantak Thermal Power Station (2 x 120 MW - Unit-Kelhori) P.O. Chachai Distt. Anuppur (M.P.)	Thermal Power
88.	M/s. Satpura Thermal Power Station (MPPGCL 2 x 250 MW) P.O. Sarni Distt. Betul (M.P.)	Thermal Power
89.	M/s. Welspun Energy Madhya Pradesh Ltd., Vill. Buibuja & Dokariya, Tehsil - Barhi & Vijayaraghavgarh Distt. Chhindwara	Thermal Power
90.	M/s. BLA Power (P) Ltd., Vill. Niwari, P.O. Khursipar, Gaderwara Distt. Narisinghpur (M.P.)	Thermal Power
91.	M/s. NTPC Ltd., (NTPC Gadarwra Super Thermal Power Project) Housing Board Colony, Distt. Narisinghpur (M.P.)	Thermal Power
92.	M/s. Jaiprakash Power Ventures Ltd., (Jaypee Bina Thermal Power Plant) P.O. Sirchopi, Tehsil - Bina Distt. Sagar (M.P.)	Thermal Power
93.	M/s. Birla Corporation Ltd., (27 MW CPP) P.O. Birla Vikas, Satna	Thermal Power
94.	M/s. Kamal Sponge Steel & Power Ltd., (12 MW CPP) Vill. Sagma, Post - Siding Tehsil - Raghurajnagar Distt. Satna (M.P.)	Thermal Power
95.	M/s. Vardhaman Fabrics Ltd. (CPP - 24 MW) Budhni, Sehore	Thermal Power
96.	M/s. Essar Power M. P. Ltd. Village: Bandhora, Post: Karsulal, Tehil: Mada, Dist. SINGRAULI - 486 886 (M.P.)	Thermal Power
97.	M/s. Sasan Power Ltd. (Stage-I,II,III) Dhirubhai Ambani Knowledge City I-Block, Belapur Road, Koparkhairane, NAVI MUMBAI - 400 710	Thermal Power
98.	M/s. Sanjay Gandhi Thermal Power Station (Stage - I, II, III) M.P. Power Generating Co. Ltd., Birsinghpur, Distt. UMARIA	Thermal Power
99.	M/s. Ramnik Power & Alloys (P) Ltd. (6.0 MW Biomass based CPP) Main Road, BALAGHAT - 481 001 (M.P.)	Thermal Power
100.	M/s. Nepa Paper Mill, Nepanagar - 450 331 (M.P.)	Pulp and Paper
101.	M/s. Orient Paper Mills, Amlai, Distt Shahdol	Pulp and Paper
102.	M/s. Orient Paper Mills (Tissue Paper) P.O. Amlai Paper Mill Distt. Anuppur (M.P.)	Pulp and Paper
103.	M/s. Jawaharlal Nehru Sahakari Agricultural Produce Processing Society Ltd. (Sugar Unit) P. O. Borawan, KHARGONE	Sugar
104.	M/s. Kareli Sugar Mills Pvt. Ltd. Gadarwara road, KARELI - 487 221 Distt. NARSINGHPUR (M.P.)	Sugar
105.	M/s. Krishak Shakkari Sakkar Kharkhana Mydt., Raghogarh, Guna	Sugar
106.	M/s. Mahakashal Sugar & Power Industries, Gadarwara, Narsingpur	Sugar
107.	M/s. Morena Mandal Sahakari Shakkar Karkhana Ltd., Kailaras, Distt. Morena (M.P.)	Sugar
108.	M/s. Narmada Sugar Mills, Gadarwara, Distt. Narsinghpur	Sugar
109.	M/s. Naval Singh Sahakari Shakkar Kharkhana Mydt. Naval Nagar, Distt. Burhanpur (M.P.)	Sugar
110.	M/s. Nikhil Sugar Ltd., Barangi, Tehsil - Khrikiya, Harda	Sugar

111.	M/s. Olam Industries (Sugar Factory) Gram - Thikari, Khargone	Sugar
112.	M/s. Ramdev Sugar (P) Ltd., Bankhedi, Hoshangabad (M.P.)	Sugar
113.	M/s. Shakti Sugar Mill (P) Ltd., Gadarwara, Narsinghpur (M.P.)	Sugar
114.	M/s. Olam Agro Ltd., Gram - Thikri Distt. Barwani (M.P.)	Sugar
115.	M/s. Shrijee Sugar and Power (P) Ltd., P.O. Sohagpur Distt. Betul	Sugar
116.	M/s. Maa Peetambara Sugar and Power Ltd., Rajendra Kandeale, Subhash Ganj P.O. Dabra, Distt. Datia	Sugar
117.	M/s. Ramdev Sugar (P) Ltd., P.O. Bankhedi Distt. Indore (M.P.)	Sugar
118.	M/s. Reva Kripa Sugar (P) Ltd., P.O. Shahpura, Bitoni Distt. Jabalpur	Sugar
119.	M/s. Vanshika Sugar & Power Industries Ltd., Village - Bilgua, Tehsil - Tendukheda Distt. Narsinghpur	Sugar
120.	M/s. Tata International Ltd. Industrial Area, A. B. Road, DEWAS	Tannery
121.	M/s. Hindustan Copper Ltd. Malanjkhanda Copper Project, P. O. Malanjkhanda, Distt. BALAGHAT - 481 116 (M.P.)	Copper Smatter

Annexure-II

Sl No	Category	Effluent Parameters	Emission Parameters
1.	Aluminium	pH, BOD, COD, TSS	PM, Fluoride
2.	Cement	pH, BOD, COD, TSS	PM, NO _x , SO ₂
3.	Distillery	pH, BOD, COD, TSS	PM
4.	Dye and dye intermediate	pH, BOD, COD, TSS, Cr	-
5.	Chlor Alkali	pH, BOD, COD, TSS	Cl ₂ , HCl
6.	Fertilizers	pH, BOD, COD, TSS, Ammonia	PM, Fluoride, Ammonia
7.	Iron & steel	pH, BOD, COD, TSS	PM, SO ₂
8.	Oil refinery	pH, BOD, COD, TSS	PM, CO, NO _x , SO ₂
9.	Petrochemical	pH, BOD, COD, TSS	PM, CO, NO _x , SO ₂
10.	Pesticides	pH, BOD, COD, TSS, Cr, As	-
11.	Pharmaceuticals	pH, BOD, COD, TSS, Cr, As	-
12.	Power Plants	pH, BOD, COD, TSS	PM, NO _x , SO ₂
13.	Pulp & paper	pH, BOD, COD, TSS, AOX	-
14.	Sugar	pH, BOD, COD, TSS	-
15.	Tannery	pH, BOD, COD, TSS	-
16.	Zinc	pH, BOD, COD, TSS	PM SO ₂
17.	Copper	pH, BOD, COD, TSS	PM SO ₂