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**GOVERNMENT OF THE PUNJAB  
LAW AND PARLIAMENTARY AFFAIRS DEPARTMENT**

**NOTIFICATION  
(120 of 2016)**

12<sup>th</sup> August 2016

The following Notification No. SO(G)/EPD/7-26/2013, dated 05.08.2016 regarding the Punjab Environmental Quality Standards for Municipal and Liquid Industrial Effluents is published for general information:

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**DR SYED ABUL HASSAN NAJME**  
Secretary  
Government of the Punjab  
Law and Parliamentary Affairs  
Department

**Government of the Punjab  
Environment Protection Department**

**NOTIFICATION: No. SO(G)/EPD/7-26/2013.** - In exercise of the powers conferred under clause (c) of sub-section (1) of section 4 of the Punjab Environmental Protection Act, 1997 (XXXIV of 1997), the Environmental Protection Council has approved the following as the Punjab Environmental Quality Standards for Municipal and Liquid Industrial Effluents.

**Punjab Environmental Quality Standards for Municipal and Liquid Industrial Effluents (mg/l, unless otherwise defined)**

No	Parameter	Into Inland Waters	Into Sewage Treatment
1	2	3	4
1	Temperature or Temperature Increase *	≤ 3°C	≤ 3°C
2	pH value (H <sup>+</sup> )	6-9	6-9
3	Biochemical Oxygen Demand (BOD <sub>5</sub> ) at 20 °C <sup>(1)</sup>	80	250
4	Chemical Oxygen Demand (COD) <sup>(1)</sup>	150	400
5	Total suspended solids (TSS)	200	400
6	Total dissolved solids (TDS)	3500	3500
7	Grease and Oil	10	10
8	Phenolic compounds (as phenol)	0.1	0.3
9	Chloride (as Cl <sup>-</sup> )	1000	1000
10	Fluoride (as F <sup>-</sup> )	10	10
11	Cyanide (as CN <sup>-</sup> ) total	1.0	1.0
12	An-ionic detergents (as MBAs) <sup>(2)</sup>	20	20
13	Sulfate (SO <sub>4</sub> <sup>2-</sup> )	600	1000

No	Parameter	Into Inland Waters	Into Sewage Treatment
1	2	3	4
14	Sulfide (S <sup>2-</sup> )	1.0	1.0
15	Ammonia (NH <sub>3</sub> )	40	40
16	Pesticides <sup>(3)</sup>	0.15	0.15
17	Cadmium (Cd) <sup>(4)</sup>	0.1	0.1
18	Chromium (trivalent and hexavalent) <sup>(4)(1)</sup>	1.0	1.0
19	Copper (Cu) <sup>(4)</sup>	1.0	1.0
20	Lead (Pb) <sup>(4)</sup>	0.5	0.5
21	Mercury (Hg) <sup>(4)</sup>	0.01	0.01
22	Selenium (Se) <sup>(4)</sup>	0.5	0.5
23	Nickel(Ni) <sup>(4)</sup>	1.0	1.0
24	Silver(Ag) <sup>(4)</sup>	1.0	1.0
25	Total Toxic metals	2.0	2.0
26	Zinc (Zn)	5.0	5.0
27	Arsenic (As) <sup>(4)</sup>	1.0	1.0
28	Barium (Ba) <sup>(4)</sup>	1.5	1.5
29	Iron (Fe)	8.0	8.0
30	Manganese (Mn)	1.5	1.5
31	Boron (B) <sup>(4)</sup>	6.0	6.0
32	Chlorine (Cl <sub>2</sub> )	1.0	1.0

**Explanations:**

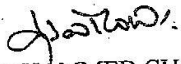
1. Assuming minimum dilution 1:10 on discharge, lower ratio would attract progressively stringent standards to be determined by the Provincial Environmental Protection Agency. By 1:10 dilution means, for example that for each one cubic meter of treated effluent, the recipient water body should have 10 cubic meter of water for dilution of this effluent.
2. Methylene Blue Active Substances; assuming surfactant as biodegradable.

3. Pesticides include herbicides, fungicides and insecticides.
4. Subject to total toxic metals, discharge should not exceed level given at S.N. 25.
5. Applicable only when and where sewage treatment is operational and  $BOD_5=80$  mg/l is achieved by the sewage treatment system.

\* The effluent should not result in temperature increase of more than  $30^{\circ}\text{C}$  at the edge of the zone where initial mixing and dilution take place in the receiving body. In case zone is not defined, use 100 meters from the point of discharge.

\*\* The value for industry is 200 mg/l.

- Note:
1. Dilution of liquid effluents to meet to the PEQS limiting value is not permissible through fresh water mixing with the effluent before discharging into the environment.
  2. The concentration of pollutants in water being used will be subtracted from the effluent for calculating the PEQS limits.

  
(IQBAL MOHAMMED CHAUHAN)  
Secretary, Government of the Punjab  
Environment Protection Department

## Punjab Environmental Quality Standards for Municipal And Liquid Industrial Effluents