

**Table 2: Environmental Protection Standards for Phosphate Fertiliser Plants**

		Concentration in Effluents Not to Exceed Indicated Milligrams per Litre (except for pH)	
<b>Liquid Effluents</b>			
a.	Straight Phosphate Fertilisers		
	pH	7.0-9.0	
	Phosphate as P	5	
	Oil and Grease	10	
	Suspended Solids	100	
	Fluoride as Fa	10	
	Hexavalent Chromium as Crb	0.1	
	Total Chromium as Crb	2.0	
b.	Complex Fertilisers	Plants Commissioned after January 1, 1982	Plants Commissioned prior to January 1, 1982
	pH	0.5 - 8.0	0.5 - 8.0
	Ammoniacal Nitrogen	50	75
	Free Ammoniacal Nitrogen	4	4
	Nitrate Nitrogen as N	100	150
	Cyanide as CN	10	10
	Vanadium as V	0.2	0.2
	Arsenic as As	0.2	0.2
	Phosphate as P	0.2	0.2
	Oil and Grease	5	5
	Suspended Solids	10	10
	Fluoride as Fa	150	150
	Hexavalent Chromium as Crb	0.1	0.1
	Total Chromium as Crb	2.0	2.0
c.	Complex Fertilisers including Ammonium Phosphate and Nitro Phosphate	Concentration of all parameters in the effluents remain same as above except nitrate nitrogen in the effluent not to exceed 20 milligrams per litre N.	
<b>Gaseous Emissions</b>			
a.	Phosphate fertilisers, Phosphoric acid manufacturing, mixing and grinding of Phosphate rock, and granulations.	25 milligrams per normal cubic meter as total fluoride as F. 150 milligrams particulate per normal cubic metre	
b.	Nitric acid (emissions of Oxides of Nitrogen)	3 kilograms of oxide of Nitrogen as NO <sub>x</sub> per mt of weak Nitric acid produced.	
c.	Sulphuric Acid (Emission of Sulphur Dioxide as Acid Mist)	4 kilograms as SO <sub>2</sub> per mt of concentrated (100%) acid produced 50 milligrams acid mist per normal cubic meter	

- At outlet of Fluoride removal unit. If the process demands, Fluoride as F shall be limited to 1.5 mg / L
- At outlet of Chromate removal unit.