

Environmental Standards

Effluent

FERTILISER INDUSTRY

Urea Plants

Year of Commissioning	Pollutants	Emission Limit
Prilling tower commissioned prior to 1.1.1982	Particulate Matter	150 mg/Nm ³ or 2 kg/tonne of Urea
Prilling tower commissioned after 1.1.1982	Particulate Matter	50 mg/Nm ³ of 0.5 kg-/tonne of Urea

Source : EPA Notification
[S.O. 63(4), dt. 18th Jan; 1988]

Straight Nitrogenous Fertiliser Industry : Wastewater Discharge Standards (Excluding the Calcium Ammonium Nitrate and Ammonium Nitrate Fertiliser)

Parameter	Concentration not to exceed, mg/l (except for pH)	
	Plants commissioned	
	January 1, 1982 onwards	prior to January 1, 1982
pH	6.5 to 8.0	6.5 to 8.0
Ammonical nitrogen	50	75
Total kjeldahl nitrogen (TKN)	100	150
Free ammonical nitrogen	4	4
Nitrate nitrogen	10	10
Cyanide as CN	0.2	0.2
Vanadium as V	0.2	0.2
Arsenic as As	0.2	0.2
Suspended solids	100	100
Oil & grease	10	10
Chromium as Cr		
	hexavalent* 0.1	0.1
	total 2.0	2.0

* To be compiled with at the outlet of chrome removal unit.

Source : EPA Notification
[S.O. 64(E) dt. 18th Jan; 1988]

Straight Nitrogenous Fertiliser Industry : Wastewater Discharge Standards (Including for Calcium Ammonium Nitrate and Ammonium Nitrate Fertiliser)

Parameter	Concentration not to exceed, mg/l (except for pH) Plant commissioned	
	January 1, 1982 onwards	prior to January 1, 1982

pH	6.5 to 8.0	6.5 to 8.0
Ammonical nitrogen	50	75
Total kjeldahl nitrogen (TKN)	100	150
Free ammonical nitrogen	4	4
Nitrate nitrogen	10	10
Cyanide as CN	0.2	0.2
Vanadium as V	0.2	0.2
Arsenic as As	0.2	0.2
Suspended solids	100	100
Oil & grease	10	10
Chromium as Cr		
	hexavalent* 0.1	0.1
	total 2.0	2.0

* To be complied with at the outlet of chrome removal unit.

Source : EPA Notification
[S.O. 64(E) dt. 18th Jan; 1988]

Straight Phosphatic Fertiliser Industry : Wastewater Discharge Standards

Parameter	Concentration and to exceed mg/l (except for pH)
pH	7.0 to 9.0
Phosphate as P	5
Oil & grease	10
Suspended solids	100
Fluorides as F*	10
Chromium as Cr**	
	Hexavalent 0.1
	Total 2.0

* To be complied with at the outlet of fluoride removal unit, if the recipient system so demands, fluoride shall be limited to 1.5 mg/l.

** To be complied with at the outlet of chromate removal unit.

Source : EPA Notification
[S.O. 64(E), dt. 18th Jan. 1988]

Phosphatic Fertilizer : Emission Standards

Parameter	Source	Emission limit, mg/Nm ³
Total fluoride	Phosphoric acid manufacturing unit	25
Particulate Matter	Granulatin, mixing and grinding of rock phosphate	150

Source : EPA Notification
[S.O. 64(E), dt. 18th Jan; 1988]

Complex Fertiliser Industry : Wastewater Discharge Standards (Including Calcium, Ammonium, nitrate and Ammonium phosphate fertilisers)

Parameter	Concentration not to exceed, mg/l (except for pH)	
	Plants commissioned before January 1, 1982	Plants commissioned from January 1, 1982 onwards
pH	6.5 to 8.0	6.5 to 8.0
Ammonical nitrogen	50	75
Total kjeldahl nitrogen (TKN)	100	150
Free ammonical nitrogen	4	4
Nitrate nitrogen	10	10
Cyanide as CN	0.2	0.2
Vanadium as V	0.2	0.2
Arsenic as As	0.2	0.2
Phosphate as P	5	5
Oil & grease	10	10
Suspended solids	100	100
Fluoride as F*	10	10
Chromium as Cr**		
	hexavalent* 0.1	0.1
	total 2.0	2.0

* To be complied with at the outlet of fluoride removal unit, if the recipient system so demands, fluoride as F shall be limited to 1.5 mg/l.

** To be complied with at the outlet of chromate removal unit.

**Source : EPA Notification
[S.O. 64(E) dt. 18th Jan; 1988]**

Source : EPA Notification
[S.O. 64(E) dt. 18th Jan; 1988]

[Back](#)

[Disclaimer](#)