

## **HAZARDOUS WASTES**

### **INFORMATION ON HAZARDOUS WASTES AS PER HAZARDOUS WASTES MANAGEMENT AND HANDLING (M&H), RULES, UNDER EP (ACT)**

(NFL, VIJAIPUR AN ISO 9001 & 14001 UNIT)

#### **(A)(A) Generation & Storage of Hazardous wastes under Schedule-I & disposal:-**

Sl.No.	Hazardous wastes	Waste stream	Generation allowed by MPPCB, Bhopal	Stored at site as on <b>31/03/2008</b>
1.	Spent Catalysts	18.1	300 MT per annum	10.90
2.	Spent Oil	5.1	60 MT per year	31.20
3.	Used lead battery	-	-	Nil

-All hazardous wastes are stored properly in earmarked areas within factory premises and sold to vendors approved by MoEF, Govt. Of India / CPCB / SPCB.

#### **(B) (B) Hazardous Chemicals in use :-**

Sl.No.	Hazardous Chemicals	Storage / License capacity	Steps taken to avoid leakage / accident
1.	Ammonia	15000 MT	- Tanks are well designed to store surplus ammonia at atmospheric pressure. - Testing is carried out at regular intervals of time.
2.	Chlorine	18X0.9 MT	- The suppliers supply chlorine in tonners. - Hydraulic testing of toners are regularly carried out as per approved IS-procedures. - Chlorine Alarm and Absorption System is provided.

- **Mock- drills are conducted at regular intervals of time & in order to take care of catastrophic failures, Off-Site Emergency Plan has been prepared.**

**STATUS OF TREATED EFFLUENT / AIR EMISSION:**

Treated effluent:-

Sl. NO.	Types of effluent	Source	Treatment & Storage	Permitted values for treated effluent	Actual values of treated effluent
1.	Non-Ammoniacal	- De-mineralized Plant -Condensate Polishing Unit -Cooling tower blow-down	Neutralization / mixing and collection in treated effluent storage pond (Pond-B)	Generation: 10080 M <sup>3</sup> /day -pH : 5.5-9.5 -Suspended Solids: 100 ppm -Biological Oxygen Demand: 30 ppm	Total Effluent Generation: 4000 M <sup>3</sup> /day -pH : 7.3-7.83 - <b>Suspended Solids:</b> 30-35 ppm - <b>Biological Oxygen Demand:</b> 10-12 ppm
2.	Ammoniacal	- Urea floor washing - During up set condition of plant	- Air and steam stripping and collection in Pond- B.	-Chemical Oxygen Demand: 250 ppm.	- <b>Chemical Oxygen Demand:</b> 30-40 ppm

THE ENTIRE TREATED EFFLUENT MEETS THE PRESCRIBED STANDARDS AND IS USED FOR HORTICULTURAL PURPOSES WITHIN THE PREMISES.

Emission:

Sl.NO.	Permitted value	Actual value	Measures taken to control emission
1.	Ambient air quality (Microgram per NM <sup>3</sup> of air):		- Natural gas / Naphtha is used as fuel & the stacks are smokeless. - Height of all stacks is 30 M. - Heat recovery units are installed to generate steam.
	NOx: 120 SOx: 120 SPM: 500 CO: 5000	3.20-8.0 NT 60-142 NT	
2.	Urea dust emission form Prilling Towers (PT) (Milligram per NM <sup>3</sup> of air )		- Rotary bucket is in use for prilling of urea. - Prilling towers are based on Natural draft. -Production of urea as per procedure laid in Quality Management System (QMS)
	<b>PT-I : 50</b> <b>PT-II: 50</b>	30-40 29-41	

TOTAL NUMBER OF PLANTATION AT SITE : 2,40,000 OF 86 DIFFERENT SPECIES.

