

MINISTRY OF ENVIRONMENT AND FORESTS NOTIFICATION

New Delhi, the 22nd April 1993

(PART II, SECTION 3, SUB-SECTION (1))

"FORM - V"

ENVIRONMENTAL STATEMENT FOR

THE FINANCIAL YEAR ENDING THE 31st MARCH 2015.

PART - A

Name and address of the owner/ Occupier of the industry, operation Or process	:	J.Sambi Reddy, Director, 7-2-A2, Hetero Corporate, Industrial Estate Sanathnagar Hyderabad -5000082.
Registered Office Address	:	M/s. Hetero Drugs Ltd, 7-2-A2, Hetero Corporate Industrial Estate Sanathnagar Hyderabad -5000082 Tel:3704923/24/25
Works address	:	M/s. Hetero Drugs Ltd, Unit-VI Sy.No.151/1 & 151/2 N.Narsapuram (V), Nakkapally (Md), Visakhapatnam Dist.
Industry Category	:	Red.
Production Capacity	:	120 TPM
Month and Year of Establishment	:	2008.
Date of Last Environmental Statement Submitted	:	2013

PART- B

WATER CONSUMPTION DETAILS :

1) Water Consumption (As per CFO) :

S.No	Water Consumption	Quantity (KL/day)
1	Boiler Make up	35
2	Cooling tower Make up	53
3	Process	95
4.	Washings	
5	Additional Water to RO	90
6	Domestic	35
Total		308

2) Process Water consumption of production output in KL

Enclosed as Annexure – II

3) Raw material Consumption

Enclosed as Annexure - III

PART - C

POLLUTION DISCHARGED TO ENVIRONMENT (PARAMETERS AS SPECIFIED IN THE CONSENT ISSUED)

	Concentration of Pollutants in discharges (mass/volume)	Percentages of Variation from prescribed standards with reasons.
1. Ambient Air quality	Analysis reports enclosed at Annexure -IV	Within the limits
2. Stack Emissions		
3. Noise levels		
4. Effluent		

PART - D

**HAZARDOUS WASTE (AS SPECIFIED UNDER HAZARDOUS
WASTES/MANAGEMENT AND HANDLING RULES, 1989)**

Description of waste	Total quantity (Tons/ Annum)	
	During the current financial year (2014-2015)	During the previous financial year (2013-2014)
Organic Residue	339.04	322.045
Spent Carbon	33.9	84.08
Forced Evaporation Salts	414.55	503.53
Inorganic Waste	80.98	
Used Carboys	797 No's (14.346 T) 8 No's (0.072 T)	(884 No.s) 7.956 T

PART - E

SOLID WASTE

The sources of solid waste generated from the plant are process and fly ash from boiler. Detailed quantities of solid wastes are given below.

Solid waste	Total quantity (T/ Annum)	
	During the current financial year (2014-2015)	During the previous financial year (2013-2014)
Boiler ash	Shown in Hetero Infrastructure SEZ Ltd	1000

PART - F

**CHARACTERISTICS INTERMS OF COMPOSITION AND QUANTUM OF
HAZARDOUS AS WELL AS SOLID WASTES AND THE DISPOSAL PRACTICES
ADOPTED BY THEM**

- | | |
|---------------------------|---|
| Fly Ash from Boiler | : To Brick Manufacturers |
| Spent Carbon from Process | : To TSDF, Parawada / Cement Industries |
| Forced Evaporation Salts | : To TSDF, Parawada |
| Organic Residue | : To TSDF, Parawada and Cement Industries |

PART – G

IMPACT OF THE POLLUTION CONTROL MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON COST OF PRODUCTION.

The industry has adopted following measures for the conservation of natural resources:

- Sea water Desalination Plant for meeting the water requirement of the Industry.
- Sewage Treatment Plant for reuse of Domestic waste water for gardening purposes.
- Usage of vermin-compost for Green belt and grounding purpose as a replacement for chemical fertilizers.
- Installation of new stripper and five effect evaporator (MEE) for the treatment of HTDS & HCOD effluent at a cost of Rs 4.00 Crores.
- Installation of one Stripper of 300 KLD capacity in series with the existing stripper to strip at any solvents in the effluents and also to bring down the final COD values with in the board standards at a cost of RS 35 Lac
- One CAAQM station with digital display at the main gate of campus for monitoring ambient air quality at a cost of Rs 50.00 Lac
- Going for co- generation power plant with higher capacity boiler. Electro static precipitation are being installed for the same boiler as APPCB at a cost of Rs 1.00 crore
- Installing online pH meters for the scrubbers where caustic solution is being used as scrubbing media at a cost of Rs. 15.00 lac
- Covering all equalization tanks with FRP floods and scrubbers to avoid fugitive gas emissions at a cost of Rs 70.00 Lac

The Industry adopted all possible pollution control measures which includes Equipments for Conservation of water, Effluent Treatment Plants (Stripper , MEE, ATFD Bio-tower & Dual stage aerobic Treatment plant based on ASP), Sewage Treatment plants, Equipments for controlling fugitive emissions (Scrubbers, Condensers) for the abatement of pollution. To avoid any chances of ground water/ Soil contamination, the industry is installing Above Ground Effluent Tanks in the production area by discarding old underground sumps.

Further the industry has installed online monitoring equipments like CAAQM, Online TOC and pH meters, Portable VOC meters for measuring organic vapours concentration in and around factory area for continuous monitoring of waste being discharged from the Industry.

With the installation of above equipments & its operations, the cost of production is being increased to some extent, but Management's perception towards environment protection and their social responsibility to abate pollution is nullifying the cost of production.

PART - H

ADDITIONAL INVESTMENT PROPOSAL FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT OF POLLUTION.

The industry has already invested around Rs. 100.00 Crores towards installation of pollution control devices (In Hetero Infrastructure SEZ Ltd) and developed green belt in and around the industry. Green belt is being developed continuously by adding new trees. Green belt consists of various plants like Ganuga, Neem, Almond, Silver oak, Plintoform, casurina, Eucalyptus etc.

All installed Pollution control equipments are periodically evaluated and necessary modifications/replacements are being made for improvement in their performances.

The industry proposed to invest following amount during 2015-16 for the abatement of pollution:

- Construction of new Hazardous waste Storage shed for storage of Waste at a cost of **Rs. 100 Lac.**
- Installation of third Online equipments i.e online VOC Analyzers, Continuous effluent Quality Monitoring Equipment (Flow, pH, TSS, COD & BOD), Online Stack monitoring and related Soft wares at a cost of **Rs. 80.00 Lac**
- New Bag filters for 20 TPH boiler at a cost of **Rs. 50.00 Lac** for controlling particulate matter as per APPCB norms.
- Covering all equalization tanks with FRP floods and scrubbers to avoid fugitive gas emissions at a cost of **Rs 30.00 Lac.**
- Installation of Scrubbers for controlling fugitive emissions at a cost of **Rs. 20.00 Lac.**

PART - I

ANY OTHER PARTICULARS IN RESPECT OF ENVIRONMENTAL PROTECTION AND ABATEMENT OF POLLUTION

- Increasing the greenbelt area by planting more plants, lawns, bushes etc.
- Industry is maintaining good housekeeping, mitigating fugitive emissions, reducing spills of raw material by taking all possible measures.
- Recovering of solvents at the source itself to avoid transport losses, evaporation losses thereby reducing the organic vapours entry into the atmosphere.
- Installation of secondary condensers for reactor vents, wherever there are chances of escaping solvent vapours from the reactors.

- Replacing most of the traditional centrifuges with Agitated Nuetch Filter and Drier (ANFD) to avoid open operations like filtration & drying.
- Rain water harvesting by collecting complete run off of the factory in an open pond for recharging of ground water as well as for reuse.

CONCLUSION

Hetero Drugs Ltd, Unit - VI is taking all possible measures for the abatement of pollution and also certain steps are in consideration for work improvement and cost reduction. The following are the pollution abatement measures taken by the industry:

1. Taking all steps required to assure low emission levels, without any prejudice to the quantum of production.
2. Utilization of domestic waste water discharges for development of greenery.
3. Giving due importance to the greenery and ultimately taken care in abating the pollution.
4. Rainwater harvesting being carried by collecting rain water in a pond created by the industry
5. Online instruments for monitoring the pollution levels in and around factory premises.
6. Operating Effluent Treatment Plant (Common) for bringing the pollution levels well within the norms of the Board.
7. Regular monitoring of air, water, effluent by Third party once in a month to keep watch on the pollution levels.