

Annexure IV

Impact of Pollution Abatement Measure

During operation phase, pollution impacts were envisaged on air, noise and land/biological components of the environment. However, in order to mitigate the impacts wherever possible on individual environment component, the following mitigation measures were done

1. 1 AIR ENVIRONMENT

Monitored the concentration of PM, SO₂, NO_x and VOC in the ambient air at regular intervals at predetermined locations.

As far as gaseous pollutants namely NO_x and SO₂ are concerned, control measures has been taken by installing stack as per regulations in the EPA, 1986.

The following air pollution control measures have been implemented at the plant:

- Thermic fluid heaters have been operated with minimum excess air so that fuel consumption is reduced and NO_x emissions are minimized. Low NO_x burners have been installed for further reduction in NO_x emission.
- The combustion units are maintained properly for obtaining optimum efficiency and to ensure that the emission rates remain within estimated levels.

1. 2 AIR QUALITY MONITORING

All monitoring has been carried out as per the conditions stipulated by the State Pollution Control Board.

1.3 WATER & ENVIRONMENT

Fuel oil storage areas have been provided with concrete embankments to contain spills. Regular oily wastewater is treated before discharge. Areas, prone to spillage have been connected to drainage system and undergo adequate treatment before discharge.

ETP has been commissioned. It has been modified to take the extra load of the Resin plant effluent. Following measures are taken for ETP:

- Trained personnel have been engaged for operating the effluent treatment plant.
- In-plant control measures have been implemented to minimize the quantities of waste water generation.
- In addition to the above, to keep control on biological treatment, regular monitoring of effluent quality has been done.
- A consultant has been appointed for up gradation of ETP.

Wastewater Management for Individual Sections

- Effluent from Process Unit: Controlled waste water has been generated.
- Domestic Waste from the plant: Domestic wastewater has been treated in Sewage Treatment Plant which is meeting the standard.
- Rain (Storm) Water storage: A 5 lack liter capacity pond has been constructed for reuse of the water.
- Monitoring of Waste from Plant: All the treated effluent has been monitored regularly ity, so that performance efficiency of treatment systems are evaluated and necessary changes recommended from time to time.

1.4 NOISE ENVIRONMENT

Manufacturers and suppliers of noise generating devices/machines like Thermic fluid heater, HSD generator, compressors and other rotating equipment has been asked to provide acoustic enclosures for noise control by adopting appropriate design and state of art technology for fabricating/assembling machines.

1.5 HAZARDOUS WASTE MANAGEMENT

Hazardous solid waste of Resin equipment cleaning, Filter residue, and ETP sludge temporarily collected in a specified area under cover and finally they are send to WB Waste Management Ltd, Haldia.

Table 1.1 : Hazardous Waste Management

S.no	Unit	Disposal Facility
1	ETP Sludge	Temporary stored at H.D.P.E pit & finally sent to W.B. Waste management Ltd.
2	From process of water base and solvent base plant	
3	Sludge from Resin filter	
4	Resin Skin	
5	Sludge from Process	
6	Waste Paint	

1.6 GREEN BELT DEVELOPMENT

The potential value of vegetation in controlling air pollution has been well recognized. Trees can filter particulates and are effective pollutant sink. Vegetation also reduces noise level and regulates the oxygen balance in the area by consuming released carbon dioxide. In order to improve the aesthetic look of the area and enhance the land use as well as to compensate for any loss in ecology, adequate plantation around the project site have been done. For development of green belt plantation of trees along the boundary of the factory, roads, and other available spaces have been done. The plant species has been selected on the basis of their growth and morphological characteristics (height, crown and ornamental values) and factors like availability of local species, resistance to pollutants, location of sources, plant layout, meteorological conditions, water availability etc. Total about 25 % of total area of factory has been covered under green cover and the process is on.