

CHAPTER 5.0

ENVIRONMENTAL MONITORING PROGRAMME

5.1 NEED FOR MONITORING

It is imperative that the Project Authorities set up regular monitoring stations to assess the ambient levels in relevant areas of environment after the commissioning of the project. An environmental monitoring programme is important as it provides useful information on the following aspects:

- i) It helps to verify the predictions on environmental impacts presented in this study.
- ii) It helps to indicate warnings of the development of any alarming environmental situations, and thus, provides opportunities for adopting appropriate control measures.

The monitoring programme in different areas of environment, outlined in the next few sections, has been based on the findings of the impact assessment studies, described earlier.

5.2 RELATED ENVIRONMENTAL PARAMETERS

5.2.1 METEOROLOGY

Meteorology forms one of the important categories of environment in the area as it directly controls the levels of air quality parameters particularly wind speed and direction. As such, a meteorological observatory should be set up at a suitable location within the plant for monitoring of relevant parameters. The observatory includes equipments for monitoring of temperature, wind speed and wind direction.

5.2.2 AMBIENT AIR QUALITY

Monitoring of ambient air quality should be carried out on a regular basis to ascertain the levels of harmful pollutants in the atmosphere, as air quality could represent one of the worst affected environmental disciplines due to the plant operations.

5.2.3 STACK EMISSIONS

Stack emissions should also be monitored, particularly to ascertain that emissions are within the stipulated level. Sampling techniques appropriate for stack monitoring should be employed with the monitoring being undertaken during operation at peak load with the frequency as per the

Kohinoor Pulp & Paper Pvt. Ltd.	Environmental Impact Assessment for Proposed Greenfield Project of 250 TPD Pulp Plant, 250 TPD Paper Plant along with co-generation Power Plant at Industrial Growth Center, Matia, District Goalpara, Assam	C5 - 2
---------------------------------	--	--------

advice of the State Pollution Control Board.

5.2.4 LIQUID EFFLUENTS

The water system will be of recirculating type and no process wastewater will be discharged.

5.2.5 GROUND WATER QUALITY

To assess the ground water quality around the plant, monitoring should be conducted at some relevant locations on monthly basis.

5.2.6 NOISE LEVELS

Ambient noise levels should be monitored within the plant at a frequency of once in a year, in order to compare the existing noise levels with the stipulated limits specified in the Gazette Notification of December, 1989.