

CHAPTER-9

ENVIRONMENTAL MONITORING PROGRAMME

9.1 Need for Monitoring

It is important the project authorities set up regular monitoring stations to assess the ambient levels in cardinal parameters of environment after the commissioning of the project. A post project monitoring programme is important, as it provides useful information on the following aspects :

1. It helps to verify the warnings on environment presented in this study.
2. It helps to indicate warnings of development of any alarming environmental situations and thus provide opportunities for adopting appropriate control measures. The post project monitoring to be conducted in various categories of environment is discussed in succeeding sections.

9.2 MONITORING SCHEDULE AND PARAMETERS

To evaluate the effectiveness of environmental management programme, regular monitoring of the important environmental parameters will be taken up. The Schedule, duration and parameters to be monitored are illustrated in the Table-9.1.

For effective implementation and mid-term corrective measures, if required, monitoring and control of programme implementation are essential.

For air, water and noise pollution control measures, it has been suggested that samples would be collected and tested all round the year with appropriate frequency at strategic places by suitable agencies. In case, it is found that any of the control parameters exceed the tolerance limit as fixed by the State/Central Pollution Control Board or any other statutory body, preventive measures will be taken and if required expert opinion will be sought for proper remedial measures.

Table-9.1

Monitoring Schedule and Parameters

	Description of Parameters	Schedule and Duration of Monitoring
	<p>Air Quality (SPM, RPM, CO, SO₂, NO_x)</p> <p>A. In the vicinity of the mine</p> <p>B. Within the mine</p> <p>C. In the surrounding areas covering three locations 120° apart, close to the nearest habitations</p> <p>Water Quality</p> <p>A. Water stored in the mine area</p> <p>B. Surface and ground water quality in the vicinity of the mine area for water potability conforming to Drinking Water Standard IS:10500:1991</p> <p>Ambient Noise Level</p> <p>Inventory of flora</p> <p>Soil quality</p> <p>Socio-economic condition of local population physical survey</p>	<p>One sample over 24 hours continuous duration, once a week throughout the year.</p> <p>One sample over 24 hours continuous duration, twice in a week throughout the year.</p> <p>One sample over 24 hours continuous duration, twice in a week throughout the year.</p> <p>Twice a week for selected parameters like, pH, TSS, TDS, COD, BOD and Oil and Grease. The detailed analysis should be carried out once in three months.</p> <p>Once in three months.</p> <p>Quarterly</p> <p>Once in two years in project monitoring area</p> <p>Once a year on all reclaimed areas and adjoining villages</p> <p>Once in two years.</p>