

FREQUENCY OF MONITORING AND PARAMETERS FOR POST- PROJECT ENVIRONMENTAL MONITORING WORK

1. MICRO-METEOROLOGY:

Parameters:

- Wind direction
- Wind speed
- Temperature
- Relative Humidity
- Rain fall

Frequency:

Continuous monitoring of meteorological parameters using automatic weather station on daily basis.

2. AIR QUALITY MONITORING: (As per Gazette Notification GSR 742 (E) dt: 25.9.2000 and GSR-826 (E), dt. 16.11.2009)

Parameters:

- Particulate Matter (Size less than 10 µm) or PM₁₀
- Particulate Matter (Size less than 2.5 µm) or PM_{2.5}
- Sulphur Dioxide (SO₂)
- Oxides of Nitrogen (NO_x)

Frequency:

Air quality monitoring has to be carried out at a frequency of once in a fortnight (24 hourly sampling) at the identified stations near the dust generating sources.

3.WATER QUALITY MONITORING:

I) Effluents (monitoring of four parameters): As per standards GSR 742 (E) and GSR 801 (E)

Parameters:

1. pH
2. Total Suspended Solids (TSS)
3. Chemical Oxygen Demand (COD)
4. Oil and Grease (O&G)

Frequency:

All the industrial effluents shall be monitored at a frequency of once in a fortnight.

II) Surface water samples: As per standards IS: 2296

Parameters:

All the parameters for surface water bodies basing on the classification as per their utilization pattern

Frequency:

Monitoring Frequency for these parameters shall be once in three months.

III) Ground water samples: As per standards IS: 10500

Parameters:

All the parameters as specified in IS: 10500 shall be analyzed for Ground water samples

Frequency:

Monitoring Frequency for these parameters shall be once in three months.

IV) Hospital Effluents for six parameters: (As per gazette notifications S.O.630 (E) issued by MoEF on Bio-Medical Waste (Management and Handling) Rules, 1998).

Parameters:

1. pH
2. Total Suspended solids (TSS)
3. Oil & Grease
4. Bio-Chemical Oxygen Demand (BOD)
5. Chemical Oxygen demand (COD)
6. Bio-Assay Test

Frequency:

Monitoring Frequency for these parameters shall be once in three months.

V) Effluents excluding hospital effluents (monitoring of all parameters):

Parameters:

All the Parameters as specified in Part-A of General Standards for Discharge of Environmental Pollutants.

Frequency:

Monitoring shall be done once in a year.

4. NOISE LEVEL MONITORING: As per Gazette Notification GSR 742 (E) dt: 25.9.2000

Parameters:

Recording of Leq noise levels for day time (6.00 AM-10.00 PM) and night time (10.00 PM-6.00 AM))

Frequency:

Monitoring Frequency for these parameters shall be once in a Fortnight.

5. VEHICULAR EMISSION MONITORING: As per CPCB standards

Parameters:

Smoke Density of the exhaust emissions for Heavy Earth Moving Machinery (HEMM) has to be monitored in Hartridge units (HU in %) / light absorption coefficient (K in m^{-1}).

Frequency:

Monitoring Frequency for these parameters shall be once in six months.

6. Heavy metals in Coal and particulate matter:

Parameters:

Analysis of coal and particulate matter for the presence of heavy metals such as Hg, Pb, Cd, Cr, Ni, As etc.

Frequency:

Monitoring Frequency for these parameters shall be once in six months for particulate and coal samples.
