

## **Proposed Terms of Reference for EIA studies**

### **1. Introduction:**

### **2. Project Description:**

- a) Type, Need and Location of the project.
- b) Size and process description of the project with aspects which may affect the environment.
- c) Relevant maps/plates showing various details.

### **3. Description of the Environment:**

#### a) Study area, period, components & methodology

- The description of the study area w.r.t its environmental setting as under:

**Physico-chemical settings**—comprising of meteorological & air environment; noise environment; land environment and water environment.

**Ecological settings** – comprising of terrestrial & aquatic flora-fauna.

**Demographic settings** – comprising socio-economic status, infrastructure, etc.

#### b) Environmental Monitoring Programme. For 3 months in 10 KM radius.

<b>Sl. No.</b>	<b>Attribute</b>	<b>Parameters</b>	<b>Frequency of Monitoring</b>
1.	Ambient air quality	PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub>	24 hourly samples twice a week for three month covering one season for eight locations.
2.	Meteorology	Wind speed and direction, temperature, rainfall, humidity	Data collected during study period & from secondary sources like IMD
3.	Water quality	Physical, Chemical and Bacteriological parameters.	One season sampling/ analysis from surface and ground water source.
4.	Ecology	Existing terrestrial and aquatic Flora and fauna.	Through field visits.
5.	Noise levels	Noise levels in dB(A)	Recording at regular interval for fixed locations for one season.

6.	Soil	Parameters related to agricultural and afforestation potential	Soil sampling/ analysis for one season.
7.	Land use	Trend of land use change for different categories.	Based on data published in district census handbook.
8.	Socio economic aspects	Socio-economic characteristics, labours force characteristics, boom town effect etc.	Based on data collected from secondary sources like Census handbooks.

c) Maps of all environmental components

#### **4. Anticipated Environmental impacts and mitigation measures:**

- a) Assessment of impact on the baseline due to size, location, operation, accidental or incidental activities of the project.
- b) Measures for minimizing the anticipated impacts.
- c) Assessment of importance of various impacts and parameters.
- d) Mitigative measures.

#### **5. Analysis of Alternatives**

#### **6. Environment Monitoring Programme**

#### **7. Additional Studies:**

- a) Risk assessment and analysis.
- b) Social impact.
- c) Public Consultation
- d) Occupational health & safety

#### **8. Project Benefits:**

- a) socio-economic benefit
- b) Benefits of development of infrastructure.
- c) Other tangible benefits

**9. Environment Management Plan:**

- a) Proposed mitigative measures and their implementation.
  - Water balance cycle.
  - Solid waste generation, storage, utilization and disposal.
  - Occupational health of the workers.
  - Green belt development plan.
  - Scheme for rainwater harvesting.
  - Socio economic development activities.
- b) Structure of environment management cell
- c) Administrative and cost control of implementation schedule.

**10. Project Summary****11. Disclosure of Consultant**