

Draft Terms Of Reference (ToR) for Carrying out Rapid EIA Study and Preparation of Environment Management Plan

The draft ToR to carry out Rapid Environment Impact Assessment Study for proposed Industrial Area, Phase- II at Barwala, Haryana is as under:

1. To provide comprehensive details of the following
 - (a) Planned activities
 - (b) Support facilities
 - (c) Environmental management Utilise
 - (i) Drainage System
 - (ii) Sewage treatment
 - (iii) Process effluent treatment
 - (iv) Solid waste management
 - (v) Mode of effluent discharge
 - (vi) Hazardous and biomedical waste management & handling
 - (vii) Landscape development
 - (viii) Energy conservation measures
 - (ix) Odour management
 - (x) Air Pollution control
 - (xi) Fire Fighting System
 - (d) Project layout
 - (e) Site location maps
 - (f) Logistic hub/parking details
 - (g) Transportation facilities
 - (h) Residential and other community facilities etc.
2. Detailed description of the existing environmental conditions to be provided covering physical, biological and socio-economic attributes:
 - (a) A detailed description of the existing land use (supported by satellite imagery), soil characteristics/ geology in the study area. Special emphasis would be placed on drainage system.
 - (b) The soil of the area to be tested from 5-6 locations in the project area.

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- (c) Water quality study (both surface water & ground water) in the project vicinity
 - (d) Climatic conditions of the study area would be monitored for hourly wind speed, wind direction, relative humidity, ambient dry and wet bulb temperature and precipitation
 - (e) Ambient air quality in the study area would be monitored at 6 locations on twice a week for one season in core zone & buffer zone.
 - (f) Noise levels (L_{eq} , L_{10} , L_{50} , L_{90} , L_{max} , L_{min} ,) at site and ambient noise levels in the vicinity of project site as well as at the core zone of project. For this noise level monitoring to be carried out during both day and night time.
 - (g) Identification of available facilities for solid waste management near the project location.
 - (h) Identification of municipal solid waste disposal facilities in the nearby area.
 - (i) Details of existing water supply, rail and road networks.
 - (j) A detailed description of the flora and fauna (terrestrial and aquatic) of the area to be covered in the environmental assessment report.
 - (k) Detailed socio-economic study inclusive of present and projected population; present and proposed landuse; planned development activities, issues relating to population displacement and rehabilitation, squatting and relocation, community structure, employment, distribution of income, goods and services; recreation; public health and safety; cultural peculiarities, aspirations and attitude, etc.
 - (l) Examination of historical importance of the study area with respect to existing monuments.
3. Environmental conditions scenarios to be developed based on industrial activities and pollution potential.
4. The environmental impacts to be identified for construction and operational stages of the project.
5. Major environmental issues of concern shall discussed in the environmental assessment report. Identified potential impacts could be:
- (a) Air pollution due to industrial, construction activities & transportation of goods and material.
 - (b) Change in drainage pattern.
 - (c) Change in landscape.

- (d) Water pollution due to industrial & domestic wastewater.
 - (e) Pollution of potable, surface & groundwater bodies.
 - (f) Increase in noise level.
 - (g) Generation of solid & hazardous waste.
 - (h) Socio-economic & cultural impacts.
 - (i) Impacts on flora & fauna
 - (j) Odour problem due to industrial activities.
6. The impacts shall be distinguished between significant positive and negative impacts, direct and indirect impacts.
 7. Project activities and impacts shall be represented in matrix form with separate matrices for pre- and post mitigation scenarios.
 8. Measures shall be prepared for avoiding as far as possible, any adverse impacts due to proposed development.
 9. An environmental management plan (EMP), specifying stage of implementation, time frame, responsibility and resources would be prepared.
 10. All outline monitoring programme for construction and operation stage would be developed.
 11. The monitoring programme would also include the parameters to be monitored with frequency, locations and reporting.
 12. A detailed environmental budget would also be presented.

Generic structure of Environmental impact assessment document as per appendix-III of EIA notification 2006 would be followed for the preparation of Rapid EIA report. It would include following components:

Chapter 1: Introduction

Introduction is presented in this chapter. The introduction provides a background to the project and describes the objective of this document. Chapter will also include information of the project and its proponent. The methodology adopted for the assignment and organization of the report is also presented in this chapter.

Chapter 2: Project Description

This Chapter includes Project Description and Infrastructure Facilities delineating all industrial and environmental aspect. Construction and operation phase activities as well as process details of proposed scenario. This Chapter gives information about storage and handling, water and wastewater quantitative details, air pollution and control system, sludge storage facility, utilities, greenbelt and safety measures for proposed project.

Chapter 3: Description of the Environment

This Chapter provides Baseline Environmental Status of Environmental components (primary data) delineating meteorological details of the project site and surrounding area.

Chapter 4: Anticipated Environmental Impacts & Mitigation Measures

Presents the analysis of impacts on the environmental and social aspects of the project site as a result of proposed development and thereby suggesting the mitigation measures.

Chapter 5: Analysis of Alternatives

This chapter includes the justification for the selection of the project site from environmental point of view as well as from economic point of view so that the technology will be affordable to the SSIs in the industrial area.

Chapter 6: Environmental Monitoring Plan

This chapter will include the technical aspects of monitoring the effectiveness of mitigation measures which will include the measurement methodologies, frequency, location, data analysis, reporting schedules etc.

Chapter 7: Additional Studies

This chapter will detail about the public consultation sought regarding the proposed project and also will assess the social impact of the project on the masses. It will also identify the risks of the Project in relation to the general public and the surrounding environment during construction and operation of the project and thereby presents disaster management plan.

Chapter 8: Project Benefits

The realization of the project activity is envisaged to impart benefits to the areas in concern. This chapter will identify the benefits coming from the project and summarize them.

Chapter 9: Environmental Cost Benefit analysis

This chapter will try to analyse, the environmental economical benefits that are associated with the proposed Project.

Chapter 10: Environmental Management Plan

It is the key chapter of the report and presents the mitigation plan, covers the institutional and monitoring requirements to implement environmental mitigation measures and to assess their adequacy during project implementation. Budgetary provisions for environmental monitoring are also presented.

Chapter 11: Summary and Conclusion

This chapter will include an overall justification for implementation of the project and explain how the adverse effects have been mitigated.

Chapter 12: Disclosure of the Consultant

Names of consultants engaged in the production of the EIA report along with their brief resume and nature of Consultancy rendered is included in this chapter.

"I hereby give undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance given, if any to the project will be at our risk and cost.

Date:

Place:

Mukesh
(MUKESH GUPTA)
Asstt. Gen. Mgr. (IA)
Indl. Estate
Barwala
Distt. Panchkula

A.G.M. (I.A.)
H.S.I.D.C. LTD.
I.E. BARWALA (PKL)

Signature of the applicant
With Name and Full Address
(Project Proponent/Authorized Signatory)

NOTE:

1. The Projects involving clearance under Coastal Regulation Zone Notification, 1991 shall submit with the application a C.R.Z map duly demarcated by one of the authorized agencies, showing the project activities, w.r.t. C.R.Z. and the recommendations of the state Coastal Zone management Authority. Simultaneous action shall also be taken to obtain the requisite clearance under the provisions of the C.R.Z. Notification, 1991 for the activities to be located in the CRZ.
2. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden thereon."
3. All correspondence with the Ministry of Environment & Forests including submission of application for TOR/ Environmental Clearance, subsequent clarifications, as may be required from time to time, participation in the EAC Meeting on behalf of the project proponent shall be made by the authorized signatory only. The authorized signatory should also submit a document in support of his claim of being an authorized signatory for the specific project".

Mukesh