

EMP OF Proposed Tribhuvan Resort of Shri Nand Kishore Singh S/o Late Tribhuwan Prasad Singh at Khasra No. 1486,1408,1409, 1407, 1852, 1401, 1402, 1406, 1407, 1400, 1384, 1481, 1398, 1397, 1395, 1850, 1399, 1391, 1396, 1403, 1404-Khata no. - 456, 390, 381, 396, 380, 404, 378, 396, 448, 446,445, 454, 443, 218, 37, 445, 388, 398, 385, 402 Thana no.- 09, sheikhpura, Mauza-Sheikhpura, District- Patna, Bihar

1.1 ENVIRONMENTAL MANAGEMENT SYSTEM AND MONITORING PLAN

For the effective and consistent functioning of the proposed complex, an Environmental Management system (EMS) would be established at the site. The EMS would include the following:

- 1) **An Environmental management cell.**
- 2) Environmental Monitoring.
- 3) Personnel Training.
- 4) Regular Environmental audits and Correction measures.
- 5) Documentation – standards operation procedures Environmental Management Plan and other records.

1.1.1 An Environmental management cell.

Apart from having an Environmental Management Plan, it is also proposed to have a permanent organizational set up charged with the task of ensuring its effective implementation of mitigation measures and to conduct environmental monitoring. The major duties and responsibilities of Environmental Management Cell shall be as given below:

- To implement the environmental management plan.
- To assure regulatory compliance with all relevant rules and regulations.
- To ensure regular operation and maintenance of pollution control devices.
- To minimize environmental impact of operations as by strict adherence to the EMP.
- To initiate environmental monitoring as per approved schedule.
- Review and interpretation of monitored results and corrective measures in case monitored results are above the specified limit.
- Maintain documentation of good environmental practices and applicable environmental laws for a ready reference.
- Maintain environmental related records.
- Coordination with regulatory agencies, external consultants, monitoring laboratories.
- Maintenance of log of public complaints and the action taken.

Hierarchical Structure of Environmental Management/Monitoring Cell

Normal activities of the EMP cell would be supervised by a dedicated person who will report to the site manager/coordinator of the proposed project.

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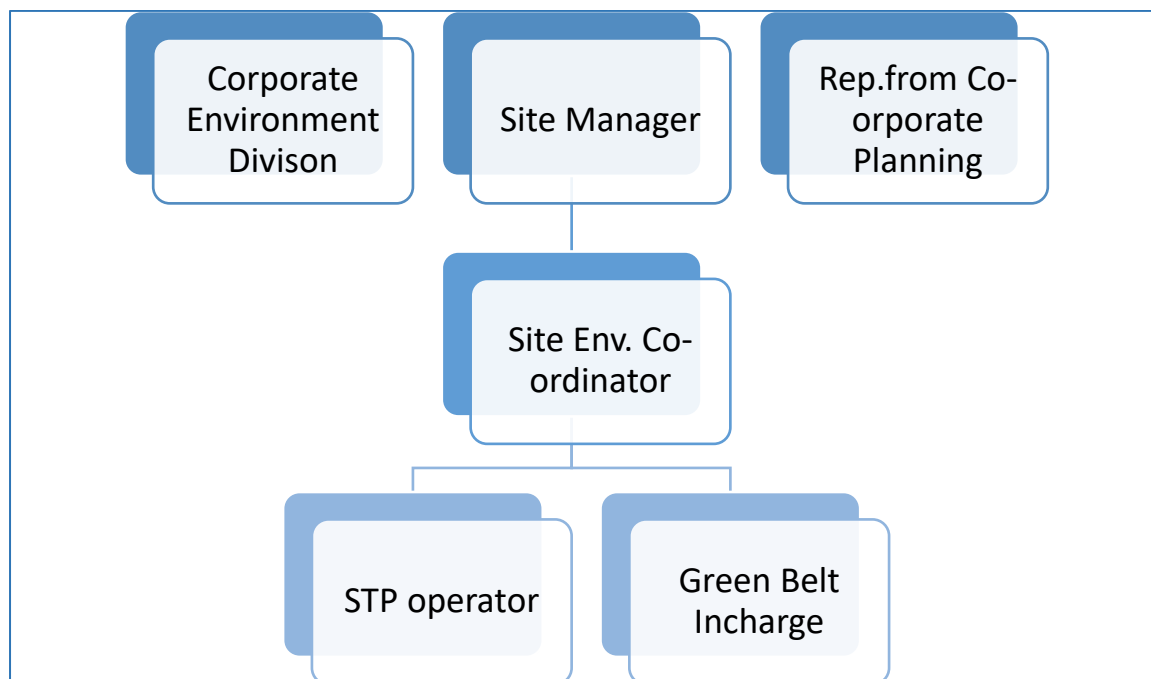


Figure 1 Hierarchy of EMC

1.1.2 Environmental Monitoring

The purpose of environmental monitoring is to evaluate the effectiveness of implementation of Environmental Management Plan (EMP) by periodic monitoring. The important environmental parameters within the impact area are selected so that any adverse effects are detected and time action can be taken. The project proponent will monitor ambient air Quality, Ground Water Quality and Quantity, and Soil Quality in accordance with an approved monitoring schedule.

Table 1: Suggested Monitoring Programme

S. No.	Type	Locations	Parameters	Period /Frequency
1.	Ambient Air Quality	Project Site	Criteria Pollutants: SO ₂ , NO ₂ , PM _{2.5} , PM ₁₀ , CO	Once in a six months.
2.	Groundwater (Portability testing)	Project site	Drinking water parameters as per IS 10500.	Once in a six months.
3.	Ambient Noise	Project site	dB (A) levels	Once in a six months.
4.	Fresh water quality	Municipal Supply	As per IS 10500 potable water standards	Once in a six months.
5.	Soil quality	Project site	Organic matter, C.H., N, Alkalinity, Acidity, heavy metals and trace metal, Alkalinity, Acidity.	Once in a six months.
6.	Waste Characterization	Proposed	Physical and Chemical composition	Daily Basis.

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7.	Treated water	Outlet of STP	BOD, MPN, coli form count, etc.	Daily Basis.
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1.1.3 Awareness and Training and human resource development

This is an important link to achieve sustainable operation of the facility and environment management. For successful functioning of the project, relevant EMP would be communicated to: **Contractors**

Contractors must be made aware of the importance of waste segregation and disposal, water and energy conservation. The awareness can be provided by periodic Integrated Society meetings. They would be informed of their duties.

1.1.4 Environment Audit and Corrective Action Plan

To assess whether the implemented EMP is adequate, periodic environmental audits will be conducted by the project proponent's Environmental division. These audits will be followed by Correction Action Plan (CAP) to correct various issues identified during the audits.