STATUTORY COMPLIANCE · 05

# Environment Management Plan (EMP)

Environmental management planning focused on project impacts, mitigation, monitoring and assigned responsibilities.

## Overview of Environment Management Plan (EMP)

The environmental management plan consists of a set of mitigation, management, monitoring, and institutional measure ensured during the development and operation of any environment-related project to eliminate adverse environmental impacts or reduce them to acceptable levels. The following Acts and Rules are considered when creating an Environment Management Plan.

- The Environmental (Protection) Act. 1986 and the Environmental (Protection) Rules, 1987- 2002
- The EIA Notification 2006 and the subsequent amendments
- The Water (P& CP) Act, 1974
- The Air (P& CP) Act. 1981
- Noise Pollution (Regulation & Control) Act, 1990
- Forest (Conservation) Act, 1980
- Wild Life Protection Act, 1972
- Coastal Regulatory Zone Notification, 1991
- Ancient Monuments and Archaeological Sites and Remains Act 1958
- The Motor Vehicle Act. 1988
- The Explosives Act (& Rules) 1884 (1983)
- Public Liability And Insurance Act,1991
- Hazardous Wastes (Management and Handling) Rules, 1989
- Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996
- Mines and Minerals (Regulation and Development) Act, 1957, as amended in 1972

- The Building & Other Construction Workers BOCW Act, 1996

## Objectives of Environment Management Plan

- Overall conservation of the environment
- Ensure effective operation of all control measures
- Safety, welfare and good health of the workforce and populace
- Minimization of waste generation and pollution
- Judicious use of natural resources and water
- Vigilance against probable disasters and accidents
- Monitoring of cumulative and long-term impacts
- Ensure effective operation of all control measures

## Licences and Registrations Involved in EMP Development

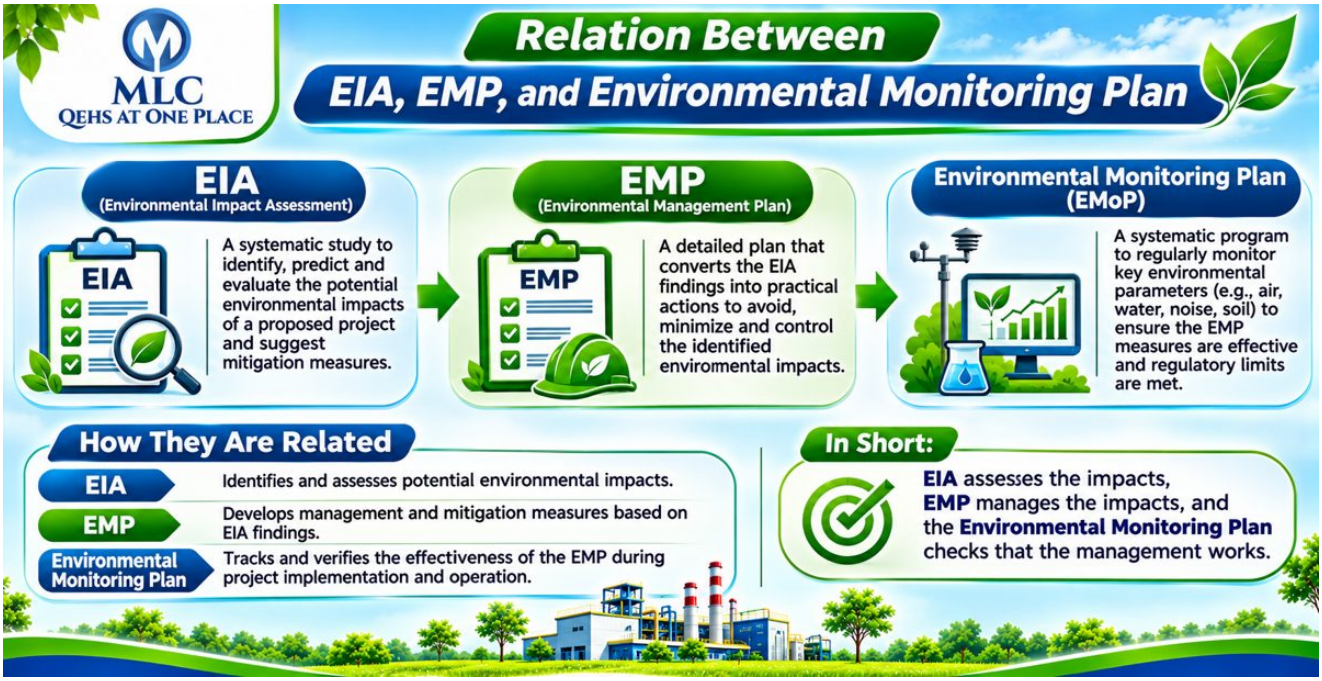
- NOC And Consents Under Air, Water, EP Acts & Noise rules of SPCB
- Permission to store Hazardous Materials
- Permission for Activities near the protected archaeological area
- Diversion of Sanctuary land / Permission for road construction
- Forest Clearance or felling of Trees
- PUC certificate for the use of vehicles for construction
- NOC for water extraction for construction and allied works
- Environmental Clearance

## Why Does Your Business Need an Environment Management Plan?

EMP is an indispensable part of the Environment Impact Assessment Report. Usually, project proponents regard Environment Management Plan simply as a legal requirement for their project and make it brief, but clear EMP, including detailed mitigation and monitoring planning, will help create a strong Environment Impact Assessment Report beneficial for the project proponent in the long run.

Environment Management Plan consists of all mitigation measures for each activity undertaken during the construction, operation and the entire life cycle of a project needing Environment Clearance. EMP helps minimize adverse environmental impacts as a result of the activities of the project.

## Relation Between EIA, EMP, and Environmental Monitoring Plan




MoEF notified criteria and rules regarding Environment Impact Assessment in EIA Notification of 2006. The notification mentioned EMP as one of the requirements in the EIA Report, which is prepared by a project proponent requiring Environmental Clearance. So Environment Management Plan is a part of the Environment Impact Assessment that is often integrated directly into EIA reports. It describes the administrative aspects of ensuring that mitigative measures are implemented and their effectiveness is monitored after approval of the EIA.

Environment Management is different from environmental monitoring, but both are related. The latter includes the technical aspects of monitoring the effectiveness of mitigation measures like measurement methodologies, reporting schedules, emergency procedures, frequency, location, data analysis, detailed budget and procurement schedules. EMP also delineates the environmental monitoring plan for compliance with various environmental regulations. EMP also lays down the steps to be taken in emergencies like accidents at the site.

## Documents Needed to Develop an Environment Management Plan

- Major technical information in operation

- Organizational Charts
- Emergency plans
- Environmental Monitoring Standards
- Operational Procedure
- Monitoring Records
- Quality Assurance Plan for Monitoring
- Environmental and related legislation

## Stages Included in EMP

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| **Mitigation Plan** | Mitigation Plan is the key to ensuring that the environmental qualities of the area will not deteriorate due to the project. The Mitigation Plan will cover all aspects of the construction and operation phases related to the environment. |
| **Monitoring of Environmental Parameters** | Environmental control measures can only be understood by properly monitoring the environmental parameters. Detailed monitoring for different environmental parameters will be carried out per the concerned authority's direction. |
| **Ambient Air and Water Quality Report** | Parameters to access Air quality include monitoring the levels of SPM, RPM, SO2, NO2 or any other pollutant specified by the authorities depending on the nature of the project. |
| **Stack Emission Report** | Analysis of Emissions from boiler stack to find out ensure those are meeting the required emission levels. |
| **Noise Monitoring Report** | Analysis of noise monitoring both within the premises and just outside the boundary of the project |

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| **Quality Assurance** | A quality assurance plan is also included in the EMP, which includes all reference methods for implementation for monitoring, calibration of equipment, relevant analytical techniques, the standard of reagents, collection and presentation of results etc. |
| **Safety & Health** | Report on the workers' health which has to be done regularly as per the Factories Act. A section which gives details for mock safety drills of the concerned employees for handling emergencies must also be included as a part of the On-Site Emergency Plan. |

# How Can MLC Assist You?

### We handle all your legal responsibilities toward the environment

MLC provides comprehensive packages which cover requirements for Environment Management Plan, ESG, Environment clearance etc., needed by your business.

### Comprehensive Assistance throughout the process

Our team comprises domain experts from diverse fields like law, environment and licensing who can plan, manage and assist in your Environment Management Plans, Environmental Impact Assessment, and monitoring plans.

### Monitoring amendments

The client relations team at MLC keep track of updates and changes in regulations and laws in the industry and ensure that our clients are made aware of changes that are of concern to them.

# FAQ

### Q. What is an Environment Management Plan (EMP)?

An EMP is a set of mitigation, management, monitoring and institutional measures carried out during a project's development and operation to eliminate adverse environmental impacts or reduce them to acceptable levels.

### Q. Is an EMP part of the EIA report?

Yes. The EIA Notification 2006 lists the EMP as one of the requirements of the Environment Impact Assessment report, which a project needing Environmental Clearance has to prepare.

### Q. How is an EMP different from environmental monitoring?

The EMP sets out the administrative side: which mitigation measures will be carried out and how their effectiveness is checked. Environmental monitoring covers the technical side, such as measurement methods, frequency, locations, reporting schedules and data analysis.

### Q. What does an EMP include?

An EMP typically covers a mitigation plan, monitoring of environmental parameters, ambient air and water quality reports, stack emission and noise monitoring reports, a quality assurance plan, and worker safety and health measures including mock drills.

### Q. What documents are needed to prepare an EMP?

You will need technical information on operations, organisational charts, emergency plans, environmental monitoring standards, operating procedures, monitoring records, a quality assurance plan for monitoring, and details of the applicable environmental legislation.

**Q. How is an EMP different from an environmental monitoring plan?**

The EMP sets out how mitigation measures are implemented and their effectiveness checked. Environmental monitoring covers the technical side — measurement methods, frequency, locations, reporting schedules and data analysis. The EMP also lays down the monitoring plan and the steps to take in emergencies.

**Q. What documents are needed to develop an EMP?**

Major technical information on operations, organisational charts, emergency plans, environmental monitoring standards, operational procedures, monitoring records, a quality assurance plan for monitoring, and the applicable environmental legislation.

**Q. What stages does an EMP include?**

A mitigation plan; monitoring of environmental parameters; ambient air and water quality, stack emission and noise monitoring reports; a quality assurance plan; and safety and health reporting, including mock drills under the on-site emergency plan.

## Useful details to share when you enquire

- Business activity, site location and ownership details
- Existing applications, permissions and supporting records
- The registration or approval you need to discuss

**TALK TO MLC**

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