

Course Code: CE 447

Course Title: Climate change and sustainable development

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LECTURE: 06

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Lecture plan

- Environmental management plan
- Feature of an EMP
- Environmental management strategy
- Typical contents of EMP report

Environmental Management Plan (EMP)

An EMP is a site-specific plan developed to ensure that all necessary measures are identified and implemented in order to protect the environment and comply with environmental legislation.

How is it related to EIA?

EIA is analysis of issues and recommendations and documented in an EA report.

EMP is an action plan based on the results of EA.

Maybe a standalone report or part of an EA report.

Role of an EMP

- Summarize environmental impacts identified in the EA report
- Identify impacts that must be mitigated
- Describe mitigation measures
- Describe monitoring and reporting arrangements
- Describe assignment of responsibilities and schedules
- Provide costs estimates for mitigation and monitoring measures

Features of an EMP

- ❑ An instrument for implementing environmental management commitments, conditions, and requirements of project.
- ❑ Promotes self-regulation & integration of environmental issues in planning and operations.
- ❑ Addresses relevant environmental management issues,
- ❑ Can be drafted in a consultative manner.
- ❑ Facilitates environmentally sustainable development and decision-making process. It is:
 - Able to forms the basis for consultation and negotiation of outcomes;
 - Flexible;
 - Comprehensive;
 - Updatable; and
 - A tool for promoting accountability

Environmental Management Strategies

1. Mitigation measures to Reduce or Eliminate Adverse Impacts
 - Adoption of Protective Measures
 - Selection of Alternatives
 - Modification of Activities
 - Changes in Construction Procedure/Materials
 - Adoption of Supplementary program

2. Compensation or Off-set measures for Irreversible and Residual Impacts
 - Resettlement of Affected People
 - Development of Alternative Resources
 - Replacement of Lost Resources
 - Replacement of Lost Production

Environmental Management Strategies

3. Enhancement Measures to Maximize Positive Impacts

- Specific Environmental Enhancement Measures
- Replacement or Upgrading of Affected Resources
- Technical Support to Increase Production
- Training for Effective Management of Resources
- Introducing Community Management Practices

4. Environmental Monitoring

5. Disaster Management

6. Institutional Strengthening

Typical Contents of an EMP Report

- ❖ Brief introduction of project design
- ❖ Major findings of EIA/screening
- ❖ Environmental impacts overview
- ❖ Regulatory/statutory requirements
- ❖ Environmental management proposed
- ❖ Implementation arrangements
- ❖ Institutional arrangements
- ❖ Monitoring mechanism
- ❖ Reporting system
- ❖ Environmental training and management budget

EMP and the Project Cycle

