

Myanmar Engineering Society

Categories of Industries which need to conduct EMPs during 2018



Sr.	Type of Industrial Sector
1	Alcohol, Wine and Beer Production Factories
2	Food and Beverage Facilities
3	Pesticide Manufacturing, Formulation and Packaging Plants
4	Cement and Lime Manufacturing
5	Textile and Drying Facilities (Pretreatment or Dyeing of Textile or Fibre)
6	Sugar Manufacturing Plant
7	Foundry Industry (Base Metal Smelting & Refining Plant, Manufacture of Pig Iron, Raw and Low Alloy Steel from Iron Ore and Scrap Metal, Foundry, Non-ferrous Metal Melting , Smithy and Filigree)
8	Training and Leather Finishing
9	Pulp and Paper Mill

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**Mining Sector Environmental and Social
Impact Assessment Guidelines**

Mining Environmental Impact Assessment
Guidelines

November 2018

By ADB

Background

- Mining EIA Guidelines Working Group established by Minister of MONREC
- Workgroup members include ECD, and the five mining agencies (DOM, DGSE, ME 1, ME 2, Gem Enterprise), Pearl Enterprise, Forest Department, Department of Health, Department of Labor, and GAD.
- While not formally appointed, WWF, MCRB, and ADB also also participate in Working Group
- ADB and WWF assistance to the Working Group

Mining EIA Guidelines Coverage

- Screening and Categorization - new mines
- Scoping and Terms of Reference - EIA Type Projects
- Preparation of an Environmental Impact Assessment
- Preparation of Initial Environmental Examinations
- **New Mines:** Preparation of a Stand-alone Environmental Management Plan
- **Existing Mines:** Preparation of a Stand-alone Environmental Management Plan

Screening

- All new mines or expansions must undergo environmental screening
- Preparing and Submitting the Project Proposal
- Determining the Screening Category (EIA, IEE, EMP)
- **Guidance on the Content of Project Proposal**

Scoping and Terms of Reference

- Focuses on:
 - issues and concerns
 - information to be collected
 - Planning the analysis and consultation
 - identification of likely environmental and social risks.
- Key Element in Scoping
 - Preparing a detailed Project Description
 - Analysis of Alternatives
 - Identification of Environmental and Social Issues
 - Community Engagement and Community Development
- Scoping Report Contents
- Terms of Reference for Conducting EIA

Terms of Reference

- ToR are to include:
 - Scope of the environmental assessment
 - Environmental and Social Field Studies
 - Responsibilities EIA Team
 - Table of Contents for the EIA Report
- **Example TOR are included in the Guideline**

Preparing an Environmental Impact Assessment

- Conducting the Assessment
 - Steps in the EIA Investigation (based on EIA Procedure (2015)
- Annotated EIA Report Contents
- Detailed EIA Report Outline

EIA Investigation Steps

- Defining Geographic Boundaries
- Defining the Time Frame
- Preparing the Project Description
- Analysis of Alternatives
- Environmental and Social Description
- Assessment of Impacts
- Designing Mitigation Measures

EIA Investigation Steps

- Designing Environmental Quality Monitoring Programs
- Risk Assessment and Emergency Response Planning
- Cumulative Impact Assessment
- Community Engagement and Community Development
- Mine Closure Planning
- Environmental and Social Management Planning
- Conclusion

Space and Time

- Study area on a geo-referenced map
- Study area includes mine site and other areas that will be directly affected off-site facilities
- Area may need to be expanded to properly assess impacts of environmental and social components
- Time Frame - all stages of mining life cycle
 - pre-construction; construction; operation closure; and post closure

Project Description

- Clear statement of the purpose and need with a justification of for the mine
- The description should cover all stages - preconstruction through construction to operation to closure.
- **Technical Guidance** is provided for preparation of project description

Project Description

Box 1. Basic Elements of a Project Description

- Project justification and need
- Project Location (including detailed map)
- Basic Components, Facilities, and Activities
- Site Layout Map or Schematic Diagram
- Overview of Operations
- Mine Development
- Mining Method
- Ore Processing, Treatment, and Final Products
- By-Products and Waste Rock: Stockpiles, Dumps, and Tailings
- Haulage and Transportation Facilities
- Mine Power Supply and Support Facilities
- Offsite Ancillary Facilities
- Water Management
- Mine Closure
- Employment, Local Hiring, and Local Purchasing
- Amount and type of emissions to air, effluent discharges to water; amount of type solid waste disposal; and amount and type of hazardous waste
- Project Development and Implementation Schedule
- Construction Material and Equipment Use
- Water Use
- Energy Use

Analysis of Alternatives

- No Project Alternative
- Alternative Technologies
 - mining methods
 - processing methods
- Alternative Locations
 - sites of mine facilities
 - alignment of roads, railways, and pipelines

Assessment of Impacts

Summary Tables of Potential Impacts (Annex 1)

- Environmental and Social Impacts
 - Exploration
 - Construction
 - Operation
 - Mine Closure