

RISK ANALYSIS AND DISASTER MANAGEMENT PLAN

Mining required stringent safety measures to avoid incidences involving life and damage to machineries. It may cause extensive damage to property and serious disruption in work inside & outside the premises. Such situations need positioning of emergency response plans which can be executed without the loss of time.

OBJECTIVES OF DISASTER MANAGEMENT PLAN

The objectives of DMP is to describe the firm's emergency preparedness, organization, the resource availability and response actions applicable to deal with various types of situations that can occur at mines in shortest possible time. Thus the overall objectives of the emergency plan are summarized as:

- Rapid control and containment of Hazardous situation.
- Minimizing the risk and impact of event/ accident.
- Effective prevention of damage to property.

In order to achieve effectively the objectives of emergency planning, the critical elements that form the backbone of Disaster Management Plan (DMP) are:-

- Reliable and early detection of an emergency and immediate careful planning.
- The command, co-ordination and response organization structure along with availability of efficient trained personnel.
- The availability of resources for handling emergencies.
- Appropriate emergency response action.
- Effective notification and communication facilities.
- Regular review and updating DMP.
- Training of the concerned personnel.

Steps taken for minimizing the effects may include rescue operations, first aid, evacuation, rehabilitation and communicating promptly to people living nearby.

IDENTIFICATION OF HAZARDS AND MITIGATION MEASURES

The following types of hazards are identified and precautions to be taken against them are enumerated below:

FALL OF SIDES

- Flatter slope angles are adopted where occurrences of loose earth are encountered.
- Unmanageable heights are not created.
- Loose rocks are properly dressed.
- Nature and structure of the rocks are properly studied for their slips.
- Bench height will be kept with respect to the digging depth of excavating equipment.
- No overhang/ under cutting will be allowed to be created in benches by the excavating machinery.

Overloading of dumpers will not be allowed. Large size of material will not be loaded at the top of the dumpers to prevent its falling and causing injury to persons.

EMERGENCY RESPONSE

Emergency organization will be established to guard against and give immediate response in case of emergencies involving loss of life by accidents, fire and inundation etc. Persons involved will be assigned specific jobs which they will be supposed to discharge during such periods. Following procedures will follow:

1. Safety guidelines & Slogans will be issued and displayed at prominent places like mine office and attendance office and the concerned persons.
2. Any person noticing emergency, critical situation will immediately inform the In-charge / Supervisor available at the site.
3. Competent person will immediately proceed to the place, assess the situation and its gravity.
4. He will immediately inform his Senior In-charge, Asst. Manager and Manager by walky-talky giving immediate assessment.
5. Attendance clerk will keep the record of all persons going in and out of the mine. He will also inform engineer, store personnel, doctor and ambulance.

6. Manager will immediately proceed to the site along with subordinate and take corrective action.
7. In case of major incident involving life, police station will be informed along with DGMS authorities.