

# **RISK ASSESSMENT PLAN DURING CONSTRUCTION & OPERATION**

Risk is a potential that a chosen action or activity will lead to a loss of human or property.

Risk assessment is a step for Risk Management. Risk assessment is determination of qualitative and quantitative value of risk related a situation or hazard.

Hazard is a situation that poses a level of threat to life health or environment.

## **1. HAZARD IDENTIFICATION**

There may be following types of hazards:

### **1.1 Natural hazard.**

Earthquake  
Flooding

### **1.2 Manmade hazard.**

Health Injuries  
Fire & explosion  
Electrical  
Mechanical  
Radiation  
Thermal  
Chemical

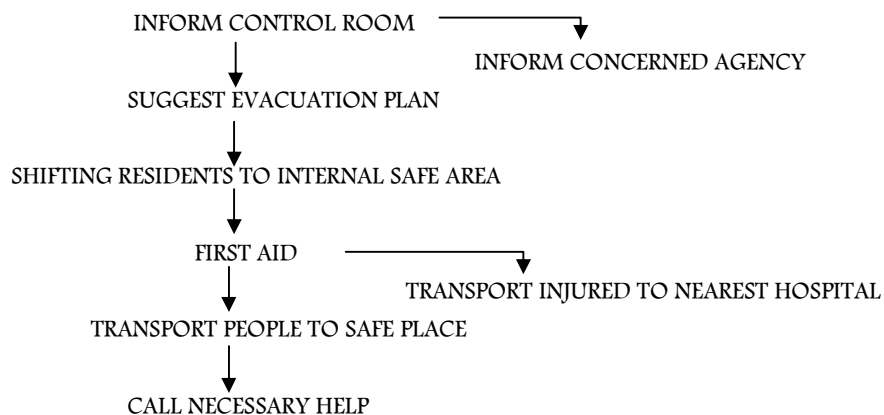
## **1. EVACUATION PLAN**

Standard operating procedures will be formulated and maintained for all eventualities due to attack by armed intruders.

Evacuation plan includes the evacuation due to

- fire hazard in the colony
- Armed Intrusion
- Flood
- Earthquake

During any of the above mentioned hazards, the evacuation will be as follows:



Following mitigation measures shall be adopted during construction & operation phase for risk assessment.

During Construction Phase	During Operation Phase
<ul style="list-style-type: none"> <li>• Safety mats would be provided at appropriate level and various shafts/ openings would be covered to prevent falls, slips, trips etc.</li> <li>• Necessary safety belts, helmets and eye-masks as required would be enforced at site</li> <li>• Adequate guardrails shall be provided to the staircases and common areas.</li> <li>• Adequate guardrails/ fences shall be provided around the water storage spaces to prevent drowning accidents.</li> <li>• Adequate protection/ fence would be provided around the excavated areas</li> <li>• The machinery and the equipments would be regularly tested and maintained with the specific emphasis against accidents failures</li> <li>• The deployed Safety officers would ensure that the personnel/ labour are kept at a safe distance from working machinery to avoid accidents/ injuries due to toxic gases/ chemical/ noise.</li> <li>• Moving parts of various parts of machineries/ equipments shall be properly guarded</li> <li>• Required fire extinguishers would be maintained at the construction site.</li> <li>• Arrangements for clean drinking water would be made.</li> <li>• Rest rooms and first aid facilities would be made available for the workers</li> <li>• Fire Protection system has been designed as per requirements of NFPA &amp; National Building Code – 2005</li> </ul>	<ul style="list-style-type: none"> <li>• The project is located at Seismic Zone IV, structural designing will be done as per best structural engineering practices complying with all the applicable codes / standards. Also we have received the structural stability certificate.</li> <li>• Proper designing of drainage system for domestic as well as storm water shall be provided.</li> <li>• Rain water harvesting pits will have provision of storage for one hour peak rainfall.</li> <li>• Fire Protection system has been designed as per requirements of NFPA &amp; National Building Code – 2005</li> <li>• Proper Fire evacuation system shall be provided.</li> <li>• Safety parameters as indicated under Indian Electricity Rules 1956 and ECBC shall be complied.</li> <li>• Elevators shall be properly maintained with record book of maintenance.</li> <li>• Periodic replacement of critical components of elevator/ machines.</li> </ul>

❖ **Energy Saving Practices**

- Energy efficient lamps will be provided within the complex.
- Constant monitoring of energy consumption and defining targets for energy conservation.
- Adjusting the settings and illumination levels to ensure minimum energy used for desired comfort levels.

❖ **Behavioral Change on Consumption**

- Promoting resident awareness on energy conservation
- Training staff on methods of energy conservation and to be vigilant to such opportunities.