

Chemical Disaster Risk Reduction Model

Spatial information

- ⊃ Land use of the area;
- ⊃ Geo-physical/climatic characteristics;
- ⊃ Natural resources' information;
- ⊃ Release scenario, consequences in terms of heat radiation; over pressure and toxicities
- ⊃ Preparations of plot and site plan incorporating the damage contours;
- ⊃ Identification of vulnerable zones
- ⊃ Identification of important; receptors (both environment and physical) in the vulnerable zone and first responders

Non-Spatial information

- ⊃ Identification of type disasters;
- ⊃ Classification of events, which have the potential for creating an emergency;
- ⊃ Recording investigation and publication of major disasters;
- ⊃ Requirement of infrastructure from various departments for coping with emergency situations

Experiences of past disasters

Analysis through computer modeling, GIS, etc. Inferences

Risk estimation/ quantification and risk acceptability

Disaster Risk reduction strategies

- ⊃ Review of available resources for risk reduction
- ⊃ Public-Private-People consultation / participation

