

# Management of Environmental hazards/ Disaster Management



Efforts must be taken by environment or disaster management planners to minimize the impacts of environmental hazards through proper environmental hazard/disaster management planning.

Disaster management can be defined as the organization and management of resources and responsibilities for dealing with all humanitarian aspects of emergencies, in particular preparedness, response and recovery in order to lessen the impact of disasters.

- **Phases of disaster management**
  - Preventions and /mitigation
  - Preparedness
  - Emergency response
  - Recovery and rehabilitation

# Phase 1: Preventions and/ Mitigation

- It is a long term plan and activities for eliminating damage from hazards.
- Human beings cannot prevent the environmental hazards.
- They can find out some measures to mitigate the problems of environmental hazards.
  - Plinth level of the houses may be increased
  - Embankment

# Phase 2 : Preparedness

- Short time measure to reduce the impact of hazards which is impending.
  - Forecast
  - Warning
  - Evacuation
  - Stock piling of food and medical supplies



Fighting during disaster





Going to cyclone shelter

## Phase 3: Emergency response

Emergency action taken during the onset of hazards to save lives and properties

- Search and rescue
- Evacuation of injured or endangered people
- Restoration of vital facilities and utilities
- Arrangement of emergency relief
- Arrangement of medical and health services
- Organization of emergency communication





Providing medical support for injured people





**Providing relief**

# Phase 4: Recovery and rehabilitation

- Activities after the emergency period is over, such as
  - Rehabilitation
  - Reconstruction
  - Future plan
- Concern about poor people
- Post flood economic assistance to the low income families
- Stable life for the citizen
- Demonstration project
- Improved self reliance
- Improvement of prevention, preparedness and emergency measures

# Management of flood hazard

## Keep flood water away from people

- Structural measures
  - Construction of embankment along the banks of the river
  - Channel improvement work
    - Removal sediment from the main river and the distributaries
    - Diverting of flood flow
- Construction of storage reservoir

## • Keep people away from flood water

- Flood plain zoning
- Development of flood forecasting and warning system

• THANK YOU

