

Guidelines on Information & Communication Systems

- 1) Introduction
 - Paradigm shift in DM at Global level
 - Natural Hazard Profile in India and special Features of ICT (Information & communication Technology)
 - ICT For Flood Managements - special Features - warning, Forecast, Preparedness
 - ICT For cyclone Managements - special Features - " "
 - ICT For Earthquake Management - special Features - " "
 - ICT For landslide Management - special Features - " "
- 2) Requirement of ICT Network During Various Phases of Disaster Continuum
 - ICT For Mitigation phase
 - ICT For Preparedness phase
 - ICT For Response phase
 - ICT For Recovery phase
 - GIS Platform For Holistic DM
 - Action Points
- 3) Existing Communications Base and ICT Support - Situation Analysis
 - Existing Telecommunication Network of various Service Providers Govt Agencies
 - National Emergency communication Plan, Ministry of Home Affairs
 - Disaster Management Support Network of ISRO Govt of India
 - Cyclone forecasting & warning Network
 - Flood " " "
 - Drought " " "
 - Tsunami " " "
- 4) Need For GIS Based National Disaster Management Information System
 - GIS Database
 - Development of vulnerability Analysis & Risk Assessment Tools
 - Participatory Agencies and Nodes in NDMIS

5) Establishment of National Disaster Communication Network

- Technology Issue
- Network Management Segment
- ~~Comm~~ connectivity From National to State Headquarters
 - " " State Headquarters to District HQ's
 - " " District HQ's to Sub-Divisions Block
 - Forecasting & Early warnings

6) Emergency operations centres : Connectivity, Database & Applications Development

- Flow of Information For EOC's at Different levels
- Command & control
- Application & Database at National ^{Emergency} operation centres
- " " at State " "
- " " at District " " "

7) Facilities Provided at Emergency operation centres

- Facilities at NEOC (National Emergency operation centres)
- " " & SEOC (State Emergency operation centres)
- " " DEOC's (District Emergency operation centres)
- Incident Commander at Affected Site
- Mini Mobile communication pack at District Headquarters

8) Technological challenges For Implementation of NDCN

- Language Barrier
- Creation of call centres & websites
- Logistic Support & Maintenance
- Action points

9) Technology, Emergency Trends & R&D requirements

- Satellite phones
- Single channel Per carrier
- Convergence of voice, video and Data services
- Signal Transmission & Mobile communication Technologies For
- ^{cellular} wifi Technology Service