# **COALITION FOR DISASTER RESILIENT INFRASTRUCTURE (CDRI) - GEOGRAPHY**

**NEWS:** Recently, the Coalition for Disaster Resilient Infrastructure (CDRI) conducted a comprehensive study to develop a Disaster Risk and Resilience Assessment Framework (DRRAF) for the telecommunications sector.

# WHAT'S IN THE NEWS?

# Study on Disaster Risk and Resilience Assessment Framework (DRRAF) for the Telecommunications Sector

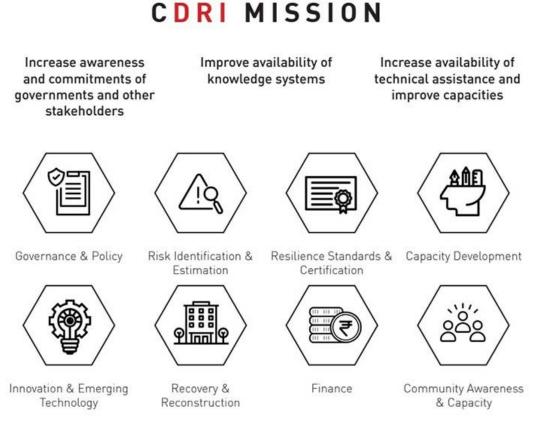
- The Coalition for Disaster Resilient Infrastructure (CDRI) recently conducted a detailed study to develop a Disaster Risk and Resilience Assessment Framework (DRRAF) for the telecommunications sector.
- This study was conducted in collaboration with the Department of Telecommunications (DoT) and the National Disaster Management Authority (NDMA), Government of India.
- The study aims to assess disaster risks and enhance the resilience of India's telecommunications network, which is a critical infrastructure spanning the entire country.

# Vulnerability of India's Infrastructure to Disasters

- India is **highly vulnerable** to various natural disasters, and its infrastructure faces **significant risks** due to frequent calamities.
  - 58% of India's land area is prone to earthquakes.
  - 12% of the country experiences regular floods.
  - 15% of the landmass is vulnerable to landslides.
  - More than 10% of India's forests are prone to wildfires.
  - Out of India's 7,516 km-long coastline, nearly 5,700 km is at high risk from cyclones and tsunamis.
- As **telecommunications infrastructure** is widely spread across the country, it remains **highly susceptible to damage** during such disasters.

# About the Coalition for Disaster Resilient Infrastructure (CDRI)

- The **CDRI was established in 2019** at India's initiative as an **international platform** for promoting the **resilience of new and existing infrastructure** against climate and disaster risks.
- It is a **multi-stakeholder partnership** that includes **national governments**, UN agencies, multilateral development banks, private sector entities, and knowledge institutions.
- The primary goal of CDRI is to strengthen the ability of countries to build and maintain disaster-resilient infrastructure systems to support sustainable development.



# **Purpose and Scope of CDRI**

- Facilitates International Knowledge Sharing
  - CDRI helps countries exchange best practices and learn from each other to develop disaster-resilient infrastructure.
- Focus on Networked Infrastructure Systems
  - Modern infrastructure **extends beyond national boundaries**, and damage to a **single node** (e.g., a power plant, a railway network, or a highway) can **have cascading effects on the entire system**.
- CDRI Does Not Finance or Implement Infrastructure Projects
  - The coalition **does not directly fund or execute infrastructure projects** in member countries.
  - Instead, it works on **developing standardized processes**, capacity building **programs**, and best practices to ensure disaster resilience.
- Economic Benefits of Disaster-Resilient Infrastructure
  - According to **CDRI estimates**, every **\$1 invested** in making infrastructure **resilient** can help **prevent over \$4 in future losses** in low- and middle-income countries.

# **Key Initiatives Under CDRI**

A. Infrastructure for Resilient Island States (IRIS)

- The IRIS initiative was launched at COP26 in 2021 by Prime Minister Narendra Modi.
- It specifically **supports small island developing states (SIDS)** that are extremely **vulnerable to climate change** and **rising sea levels**.
- Many small island nations have already lost up to 9% of their GDP in a single disaster event.
- IRIS focuses on **developing climate-resilient infrastructure** to prevent **economic losses and displacement of populations** in these vulnerable regions.

#### **B. Infrastructure Resilience Accelerator Fund (IRAF)**

- IRAF was announced at COP27 in 2022 in Egypt.
- The fund has been established with the support of the United Nations Development Programme (UNDP) and the United Nations Office for Disaster Risk Reduction (UNDRR).
- It is aimed at financing disaster-resilient infrastructure projects in developing nations and Small Island Developing States (SIDS).

# Disaster Management (Amendment) Bill, 2024

A. Background and Need for Amendment

- The Disaster Management (Amendment) Bill, 2024 amends the existing Disaster Management Act, 2005.
- The original Act was enacted in response to the 2004 Indian Ocean tsunami, which caused widespread destruction and loss of lives.
- The Act aimed to create a **structured framework** for disaster preparedness, mitigation, response, and recovery.

#### B. Key Provisions of the Disaster Management Act, 2005

- Establishment of Disaster Management Authorities
  - National Disaster Management Authority (NDMA):
    - Headed by the Prime Minister and responsible for formulating disaster management policies and guidelines.
  - State Disaster Management Authorities (SDMAs):
    - Led by respective Chief Ministers and focus on state-level disaster preparedness and response.
  - National Disaster Response Force (NDRF):
    - A specialized force trained for disaster response and relief operations.
  - National Institute of Disaster Management (NIDM):
    - Focuses on research, training, awareness campaigns, and capacity building in disaster management.
- Key Disaster Management Policies
  - The National Disaster Management Policy (2009) was formulated to guide the implementation of disaster response mechanisms.

- The National Disaster Management Plan (2016) provides a detailed roadmap for preparedness, mitigation, and post-disaster rehabilitation efforts.
- C. Key Amendments Introduced in the 2024 Bill
  - 1. Creation of Urban Disaster Management Authorities (UDMAs)
    - The amendment introduces Urban Disaster Management Authorities (UDMAs), which will be headed by Municipal Commissioners in large metropolitan cities.
    - This recognizes that **major cities often extend across multiple districts** and require a **unified and coordinated approach to urban disasters** such as **flooding, fires, and building collapses**.
  - 2. State Disaster Relief Fund (SDRF) Now Mandatory
    - The SDRF was **previously an optional mechanism**, but the amendment now **makes it compulsory for all states** to maintain this fund.
    - This ensures adequate financial resources are always available for disaster response and recovery efforts at the state level.
  - 3. Legal Recognition of National Crisis Management Committee (NCMC)
    - The National Crisis Management Committee (NCMC), which was previously an advisory body, has now been granted legal status.
    - This strengthens its authority in coordinating disaster relief efforts at the national level.
  - 4. Creation of a National Disaster Database
    - The NDMA will now be responsible for maintaining a comprehensive disaster database.
    - This database will include **disaster assessments**, fund allocations, expenditures, preparedness plans, and mitigation measures.
  - 5. Minimum Standards for Disaster Relief
    - The NDMA will establish clear guidelines on the minimum standards of relief that must be provided to disaster-affected individuals.
    - This will ensure **uniformity and adequacy** in relief efforts across the country.

# **Significance of These Developments**

- Strengthening India's Disaster Preparedness
  - The new amendments ensure **better coordination and governance** in disaster management, especially in **urban areas**.
- Enhancing Global Cooperation on Disaster Risk Reduction (DRR)
  - The **CDRI and its initiatives (IRIS, IRAF)** align with **international efforts** to improve disaster resilience, particularly in **climate-vulnerable regions**.
- Financial and Legal Strengthening of Disaster Management
  - The legal status given to NCMC and SDRF ensures better funding, transparency, and coordination for disaster relief operations.
- Improving Infrastructure Resilience in India and Globally

• The development of **disaster-resilient infrastructure** through **CDRI initiatives** will **reduce economic losses and save lives** in the long run.

#### Conclusion

India has taken **major steps in strengthening its disaster management framework**, both at the **national and international levels**. The **CDRI framework** fosters **global cooperation** on infrastructure resilience, while the **Disaster Management (Amendment) Bill, 2024** enhances **India's legal and institutional capacity** for disaster response.

**Source:** <u>https://indianexpress.com/article/upsc-current-affairs/upsc-essentials/knowledge-nugget-coalition-for-disaster-resilient-infrastructure-cdri-upsc-9846430/</u>