

**GOVERNMENT OF INDIA  
MINISTRY OF HOME AFFAIRS**

**LOK SABHA  
UNSTARRED QUESTION NO. 2974**

**TO BE ANSWERED ON THE 10<sup>TH</sup> MARCH, 2026/ PHALGUNA 19, 1947 (SAKA)**

**COALITION FOR DISASTER RESILIENT INFRASTRUCTURE**

**2974. SHRI DAGGUMALLA PRASADA RAO:**

**Will the Minister of HOME AFFAIRS be pleased to state:**

**(a) the details regarding the number of studies conducted by Coalition for Disaster Resilient Infrastructure (CDRI) to assess impact of extreme weather events on infrastructure in India, classified in coastal States, year and State-wise including Andhra Pradesh;**

**(b) whether findings of such studies regarding the extent of infrastructure at risk and amount investment required for making infrastructure resilient, classified State-wise including for Andhra Pradesh;**

**(c) the details regarding the projects undertaken in Andhra Pradesh by CDRI, along with the financial and technical assistance provided; and**

**(d) the outcomes achieved till date through such projects in strengthening infrastructural resilience?**

**ANSWER**

**MINISTER OF STATE IN THE MINISTRY OF HOME AFFAIRS**

**(SHRI NITYANAND RAI)**

**(a): Coalition for Disaster Resilient Infrastructure (CDRI) is a global network of national governments and international organizations. As per the information given by CDRI, it has supported 23 initiatives in 15 Indian States across major infrastructure sectors. Details provided by CDRI are at Annexure.**

**(b): National-level risk estimates from CDRI's Global Infrastructure Risk Model and Resilience Index (GIRI) indicate an annual average infrastructure loss of USD 31.96 Billion in India. Studies show 10-15% additional investment in resilient design yields 7-12 times economic returns through avoidable losses. State-wise risk quantification has not been carried out.**

**(c): CDRI has undertaken a systemic climate risk assessment for Visakhapatnam Port. Its scope includes evaluation of climate risks across interconnected seaport systems and assessment of cascading disruptions across logistics, energy, transport, labour, and storage networks. Key recommendations include updating building codes, using nature-based solutions, integration of early warning tools, multi-stakeholder coordination etc.**

**(d): CDRI has informed that it has recommended measures to strengthen power, telecommunications, transport as well as disaster risk financing systems. Advisories have been issued on power sector utilities and scoping note on extreme heat impacts on the power sector. CDRI has also informed that it has provided technical inputs for updating the Disaster Risk Index during sixteenth Finance Commission recommendations.**

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**Annexure referred to in reply to part (a) of the Lok Sabha Unstarred Question No. 2974 due for answer on 10.03.2026**

**List of Studies and Initiatives Supported by CDRI**

<b>S. No.</b>	<b>Sector</b>	<b>Project Title</b>	<b>States</b>	<b>Year</b>
<b>1</b>	<b>Telecom Sector</b>	<b>Disaster Risk and Resilience Framework for Telecommunications Sector, India</b>	<b>Assam, Gujarat, Tamil Nadu, Odisha, Uttarakhand</b>	<b>2022-2025</b>
<b>2</b>	<b>Transport Sector (Airports)</b>	<b>Global Study on Disaster Resilience of Airports Phase I</b>	<b>National (Global including India)</b>	<b>2022</b>
<b>3</b>		<b>Global Study on Disaster Resilience of Airports Phase II</b>	<b>Karnataka, Odisha (Global including India)</b>	<b>2023-2025</b>
<b>4</b>		<b>Development of Airport Preparedness Measures for Climate Risks to enhance Adaptive Capacity and Infrastructure Resilience</b>	<b>National (Global including India)</b>	<b>2025-2026</b>

<b>5</b>	<b>Transport Sector (Roads &amp; Railway)</b>	<b>Transport Infrastructure Reimagined- Forging Resilient Connections</b>	<b>National (South Asia including India)</b>	<b>2024-2025</b>
<b>6</b>		<b>Developing Disaster Management Plans for National Highways</b>	<b>National</b>	<b>2024-2025</b>
<b>7</b>	<b>Transport Sector (Seaports)</b>	<b>Developing Systemic Risk Assessment Framework for Seaport Ecosystem</b>	<b>Andhra Pradesh, Odisha</b>	<b>2023-2025</b>
<b>8</b>	<b>Health Infrastructure Resilience</b>	<b>Roadmap for Resilient health Infrastructure in Sikkim</b>	<b>Sikkim</b>	<b>2023-2025</b>
<b>9</b>	<b>Finance for Resilient Infrastructure</b>	<b>Mainstreaming Disaster Resilience into Infrastructure Projects: Insights from Infrastructure Sectors in India</b>	<b>Uttarakhand, Gujarat, Jammu &amp; Kashmir, Madhya Pradesh, Assam</b>	<b>2023-2025</b>
<b>10</b>		<b>National &amp; State level Assessment of fiscal risks due to disaster in critical infrastructure sectors</b>	<b>National &amp; Odisha, Gujarat, Tamil Nadu Himachal Pradesh</b>	<b>2023-2025</b>

<b>11</b>		<b>Disaster Risk Index (DRI) updates for the Sixteenth Finance Commission</b>	<b>National</b>	<b>2024-25</b>
<b>12</b>	<b>Urban Resilience</b>	<b>Building Small Town Water Resilience across Chikkaballapura, Bagepalli, Gowribidanur, Shidlaghatta, Gudibande, Chintamani towns</b>	<b>Karnataka</b>	<b>2025</b>
<b>13</b>	<b>Power Infrastructure</b>	<b>Study on the Impact of Extreme Heat on Power Infrastructure Phase I</b>	<b>National</b>	<b>2024-2025</b>
<b>14</b>		<b>Study on the Power Sector Resilience in the Odisha</b>	<b>Odisha</b>	<b>2021-2024</b>
<b>15</b>	<b>Transport Sector</b>	<b>Guidelines for Highway Slope Stabilization Management and Maintenance for Hill roads</b>	<b>South Asia (including India)</b>	<b>2025</b>
<b>16</b>		<b>Landslide Risk Assessment of Strategic Roads in Shimla</b>	<b>Himachal Pradesh</b>	<b>2023-24</b>
<b>17</b>	<b>Multi-Sector</b>	<b>Collaboration with Government of Italy on Civil Defence and Humanitarian Aid</b>	<b>South Asia (including India)</b>	<b>2025</b>

<b>18</b>		<b>Development of guidelines for design, operation and maintenance of cooling shelters to mitigate extreme heat</b>	<b>National</b>	<b>2024-2025</b>
<b>19</b>		<b>Support to PDNA, Tamil Nadu through NDMA</b>	<b>Tamil Nadu</b>	<b>2024-2025</b>
<b>20</b>		<b>Support to PDNA, Tripura through NDMA</b>	<b>Tripura</b>	<b>2024-2025</b>
<b>21</b>		<b>Support to PDNA, Manipur through NDMA</b>	<b>Manipur</b>	<b>2024-2025</b>
<b>22</b>		<b>Support to PDNA, Telangana through NDMA</b>	<b>Telangana</b>	<b>2024-2025</b>
<b>23</b>	<b>Urban</b>	<b>Support on Delhi Urban Flood Risk Mitigation Planning and Preliminary Project Report (PPR) Preparation through NDMA</b>	<b>Delhi</b>	<b>2025</b>

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