

**GOVERNMENT OF INDIA
MINISTRY OF HOME AFFAIRS**

**RAJYA SABHA
UNSTARRED QUESTION NO. 3600**

TO BE ANSWERED ON THE 02ND APRIL, 2025/ CHAITRA 12, 1947 (SAKA)

NATIONAL CYCLONE RISK MITIGATION PROJECT (NCRMP)

**3600 SHRI KESRIDEVSINH JHALA:
SHRI NARAYANA KORAGAPPA:**

Will the Minister of Home Affairs be pleased to state:

- (a) the measures being taken to ensure the timely completion of National Cyclone Risk Mitigation (NCRMP) infrastructure projects in all States;**
- (b) whether there are any proposals to integrate NCRMP infrastructure with broader disaster management initiatives;**
- (c) if so, details thereof; and**
- (d) technological advancements that have been incorporated into the NCRMP to enhance cyclone prediction and preparedness?**

ANSWER

MINISTER OF STATE IN THE MINISTRY OF HOME AFFAIRS

(SHRI NITYANAND RAI)

(a) to (d): National Cyclone Risk Mitigation Project (NCRMP) was implemented in the 8 coastal States, in two phases. Under Phase-I, Andhra Pradesh and Odisha were covered and under Phase-II, six States viz. Goa, Gujarat, Karnataka, Kerala, Maharashtra and West Bengal were covered. The infrastructure works under NCRMP was completed by the prescribed completion date and the project stands closed with effect from March, 2023.

Details of physical infrastructure created under its both Phase-I and Phase-II of NCRMP are at Annexure.

The responsibility for maintenance and sustainability of physical infrastructure created under NCRMP rests with the State Governments.

Under NCRMP, NDMA has developed a web-based Dynamic Composite Risk Atlas and Decision Support System (Web-DCRA & DSS tool) for cyclone risk mitigation and response planning. The tool has been successfully used in cyclones such as Biparjoy (June, 2023) and Cyclone Michaung (December, 2023)

Government has implemented 'Common Alerting Protocol (CAP) based Integrated Alert System' for dissemination of geo targeted early warnings/alerts related to disasters to the citizens of India for all 36 States/UTs using various disseminating medium like SMS, TV, Radio, Indian Railways, Coastal Sirens, Cell broadcast, Internet (RSS feed & Browser Notification), Satellite Receiver of GAGAN & NavIC etc., through integration of all alerting agencies, [India Meteorological Department (IMD), Central Water Commission (CWC), Indian National Centre for Ocean Information Services (INCOIS), Defence Geo-informatics Research Establishment (DGRE), Geological Survey of India (GSI) and Forest Survey of India (FSI)].

This system has been successfully used in recent disasters. More than 4500 crore SMS alerts have been disseminated so far using CAP.

These measures, including components of Early Warning Systems and physical infrastructure i.e. Multipurpose Cyclone Shelters set up under NCRMP, coupled with very accurate and timely forecasts given by the India Meteorological Department, have proved to be of great help to the coastal community during cyclones.

ANNEXURE
R.S.US.Q.NO. 3600 FOR 02.04.2025

Andhra Pradesh	Installation of Early Warning Dissemination Systems (EWDS)	
	Cyclone Risk Mitigation Infrastructures (CRMIs) (Sub-components / Unit)	
	Multi-Purpose Cyclone Shelters (No.)	219
	Roads (Km)	698.02
	Bridge (No.)	35
	Saline Embankment (Km)	29.90
Odisha	Installation of Early Warning Dissemination Systems (EWDS)	
	Cyclone Risk Mitigation Infrastructures (CRMIs) (Sub-components / Unit)	
	Multi-Purpose Cyclone Shelters (No.)	316
	Roads (Km)	388.50
	Saline Embankment (Km)	58.22
Goa	Installation of Early Warning Dissemination Systems (EWDS)	
	Cyclone Risk Mitigation Infrastructures (CRMIs) (Sub-components / Unit)	
	Multi-Purpose Cyclone Shelters (No.)	11
	Under Ground Cabling (Km)	315
Kerala	Installation of Early Warning Dissemination Systems (EWDS)	
	Cyclone Risk Mitigation Infrastructures (CRMIs) (Sub-components / Unit)	
	Multi-Purpose Cyclone Shelters (No.)	17

Karnataka	Installation of Early Warning Dissemination Systems (EWDS)	
	Cyclone Risk Mitigation Infrastructures (CRMIs) (Sub-components / Unit)	
	Multi-Purpose Cyclone Shelters (No.)	10
	Roads (Km)	48
	Saline Embankment (Km)	7.8
	Bridge (No.)	2
Gujarat	Cyclone Risk Mitigation Infrastructures (CRMIs) (Sub-components / Unit)	
	Multi-Purpose Cyclone Shelters (No.)	76
	Roads (Km)	157
Maharashtra	Cyclone Risk Mitigation Infrastructures (CRMIs) (Sub-components / Unit)	
	Under Ground Cabling (Km)	600.3
	Saline Embankment (Km)	22.26
West Bengal	Cyclone Risk Mitigation Infrastructures (CRMIs) (Sub-components / Unit)	
	Multi-Purpose Cyclone Shelters (No.)	146
	Under Ground Cabling (Km)	472.46
