

NATIONAL CYCLONE RISK MITIGATION PROJECT (NCRMP)

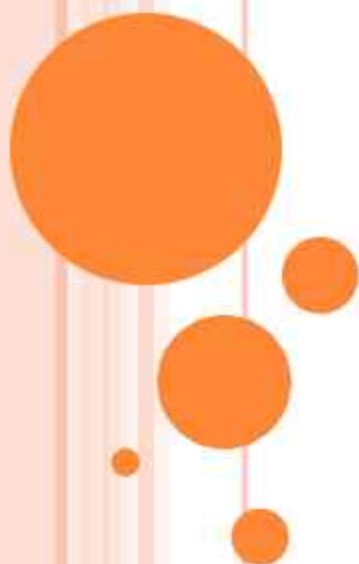
- PROJECT BRIEF

CONCLAVE OF STATE DISASTER MANAGEMENT AUTHORITIES

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Project: National Cyclone Risk Mitigation Project (NCRMP)

National Cyclone Risk Mitigation Project (NCRMP) is a World Bank assisted flagship programme being implemented by NDMA in 8 cyclone prone coastal states in two phases, with the following components:

- **Component A:** Early Warning Dissemination System (EWDS)
- **Component B:** Cyclone Risk Mitigation Infrastructure (CRMI)
- **Component C:** Technical Assistance for Capacity Building on Disaster Risk Management
- **Component D:** Project Management and Monitoring

Project Development Objective (PDO):

The PDO is to reduce vulnerability to cyclone and other hydro-meteorological hazards of coastal communities in Project States and to increase the capacity of State entities to effectively plan for and respond to disasters.



Funding Pattern:

Component A, C, D (100% GoI/World bank); Component B (75% GoI/World Bank & 25% State)

Implementation:

At State level, the existing nodal agencies for disaster management (e.g., State Disaster Management Authorities or Revenue/Relief Departments) are functioning as State Project Implementation Units (SPIUs) and are responsible for implementing the Projects in their States in coordination with the Project Management Unit (PMU) at NDMA.

NCRMP Phase – I

NCRMP Phase-I which started during 2011 with costing of Rs. 2541.60 crore [GoI share Rs. 1985.69 Cr and State share Rs. 555.91 Cr] and covering Andhra Pradesh and Odisha has been completed in December 2018.

The EWDS, the state-of-the-art multi technology option (Alert Siren, Satellite Radio, Mass Messaging etc.) to provide reliable communication and ensuring last mile connectivity during disasters has been commissioned and is operational in Andhra Pradesh and Odisha.

The CRMI enhances the preparedness and mitigates vulnerability of coastal communities through investments for construction of multi-purpose cyclone shelters (MPCS), roads, bridges and saline embankments. The infrastructure created during phase-1 of the project is as under:

Sub-component	Andhra Pradesh	Odisha	Total
MPCS (No.)	219	316	535
Roads (Km)	698.02	388.50	1086.52
Bridge (No.)	34	-	34
Saline Embankment (Km)	29.90	58.22	88.12



Capacity Building Training (CBT)/ Shelter Level Training (SLT):

Total 1921 trainings has been imparted to 31502 Govt. Officials/Community Members in NCRMP

Phase-I States (Odhisa: 1264 Training/ 18960 Participants and Andhra Pradesh 657 Training/12542 Participants) as part of Shelter Level Training.

NCRMP Phase-II is being implemented in 6 Coastal States (Goa, Gujarat, Karnataka, Kerala, Maharashtra and West Bengal) with an overall budget/outlay of Rs. 2059.83 Cr (GoI share Rs.1629.07Cr, State Share Rs. 430.76 Cr),since July 2015. The scheduled completion date is September 2022.

Physical: Component A (EWDS): Works under progress in Goa, Karnataka and Kerala.

Component B (CRMI Works): 228 (no.) MPCs completed out of 262 (no.) planned. About 991.15 Km of UGC completed out of 1286 Km planned and about 15.337 Km of Saline Embankment completed out of 30.06 Km planned; entire 205 km (planned) Road completed.

Capacity Building Training (CBT)/ Shelter Level Training (SLT): NCRMP-II

Total **620** CBT has been imparted to **15339** Govt. Officials from various priority sectors across 6 NCRMP ; Phase-II States as well as a total **946** SLT has been imparted to **28653** Community representatives across 6 NCRMP; Phase-II States.



Development of Web-DCRA & DSS Tool

○ A Web based Dynamic Composite Risk Atlas (Web-DCRA) and Decision Support System (DSS) Tool for Cyclone and associated impacts forecasting, including Storm Surge and Inland Flooding for the area falling within 10 m elevation above MSL in 13 Coastal States/UTs of the Country has been developed under NCRMP Phase II.

- It caters for both mitigation planning (pre-event planning) as well as dynamic response (responding to real-time cyclonic event).

- The real-time product will take into account the dynamic information from a real-time cyclone (bulletins issued by IMD), and estimate wind hazard, flood hazard and storm surge hazard scenarios.

○ Web-DCRA and DSS Tool has been tested with real-time Cyclonic events (*Amphan, Nisarga, Nivar & Burevi*) based on IMD's forecasted Cyclone tracks [Experimental Phase].

○ Web-DCRA and DSS Tool installed/hosted at IMD Server, IMD HQ, New Delhi.

○ State Level Training Workshops on operation/use of Web-DCRA & DSS Tool will be started shortly.

EWDS WORKS UNDER PROGRESS



**EWDS Spun Tower – Factory Acceptance
Test in Goa**



EWDS tower in Goa



MPCS WORKS



Kudlu, Kerala



Pullur, Kerala



Thekkatte, Karnataka



Manki, Karnataka

MPCS WORKS



Arena Junagadh, Gujarat



Gorsar Porbandar, Gujarat



Dabolim, Goa



MPCS NAME: SHIBKALINAGAR ISHAN MEMORIAL HIGH SCHOOL
BLOCK:KAKDWIP, DISTRICT: SOUTH 24 PARGANAS
STATE: WEST BENGAL

South 24 Parganas, WB

CBT & SLT



First Aid, Goa



Search & Rescue, Kerala



Shelter Mang. Orientation,
Kerala



CBT for Govt. officials,
Kerala

ROADS, BRIDGE & SALINE EMBANKMENT



Road for evacuation,
Karnataka



SE in Manikatta, Uttara Kannada,
Karnataka



Bridge work in Udupi,
Karnataka

UNDER GROUND CABLING WORK



Anjuna, Goa



THANK YOU