



National Cyclone Risk Mitigation Project-II (P144726)

SOUTH ASIA | India | Urban, Resilience and Land Global Practice |
IBRD/IDA | Investment Project Financing | FY 2015 | Seq No: 12 | ARCHIVED on 26-May-2021 | ISR46242 |

Implementing Agencies: Department of Economic Affairs, Maharashtra: Department of Relief and Rehabilitation, West Bengal: Department of Disaster Management, Gujarat: Gujarat State Disaster Management Authority, Kerala: Department of Revenue and Disaster Management, Karnataka: Department of Revenue and Disaster Management, Goa: Water Resources Department, National Disaster Management Agency

Key Dates

Key Project Dates

Bank Approval Date: 28-May-2015

Effectiveness Date: 09-Nov-2015

Planned Mid Term Review Date: 17-Sep-2018

Actual Mid-Term Review Date: 04-Jun-2018

Original Closing Date: 15-Mar-2021

Revised Closing Date: 15-Sep-2022

Project Development Objectives

Project Development Objective (from Project Appraisal Document)

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

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

Components Table

Name

Early Warning Dissemination Systems:(Cost \$17.77 M)
Cyclone Risk Mitigation Infrastructure:(Cost \$181.18 M)
Technical Assistance for Multi-Hazard Risk Management:(Cost \$13.33 M)
Project Management and Implementation Support:(Cost \$16.12 M)

Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	<input type="checkbox"/> Moderately Unsatisfactory	<input type="checkbox"/> Moderately Unsatisfactory
Overall Implementation Progress (IP)	<input type="checkbox"/> Moderately Satisfactory	<input type="checkbox"/> Moderately Satisfactory
Overall Risk Rating	<input type="checkbox"/> Substantial	<input type="checkbox"/> Substantial

Implementation Status and Key Decisions

Status of Investment Activities:

- Component A - Early Warning Dissemination Systems:** Three states (Goa, Karnataka, Kerala) have initiated the works. Works in the remaining three states (Gujarat, Maharashtra, West Bengal) were removed from the project scope as part of the February 2021 Project Restructuring, as they could not feasibly be completed within the project lifetime.



- Component B – Cyclone Risk Mitigation Structure: [Multi-purpose Cyclone Shelters (MPCSs)]** 190 MPCSs have been completed and 72 are under construction. For completed and nearly completed MPCSs, formulating Cyclone Shelter Management and Maintenance Committees (CSMMCs), handing over MPCSs to CSMMCs, preparing standard operating procedures including maintenance plans, and setting up Corpus Fund requires continued attention. **[Roads]** Road works have been carried out in two states: Gujarat and Karnataka. In Gujarat, all planned 43 roads are completed. However, there are packages that require rectifications for deficiencies detected. Completion certificates need to be issued for those fully completed packages without further rectification needs. In Karnataka, total 47 Km length was reported to be completed. **[Bridges]** 2 bridges are under construction in Karnataka. **[Saline Embankments]** One saline embankment package in Karnataka and two in Maharashtra have been awarded and works have started. **[Under Ground Cabling]** UGC works in Goa (1 package), Maharashtra (3 packages) and West Bengal (1 package) are ongoing.
- Component C - Technical Assistance for Multi-Hazard Risk Management:** Planned activities have been advanced including the Hazard Risk & Vulnerability Assessment, Benefit Monitoring & Evaluation, and designing of the National Seismic Risk Mitigation Program, Hydro Meteorological Resilience Action Plan. The bid for the Comprehensive Multi-hazard Risk Financing Strategy (CMhRFS) is pending award.

Risks

Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	☐ Moderate	☐ Moderate	☐ Moderate
Macroeconomic	☐ Moderate	☐ Moderate	☐ Moderate
Sector Strategies and Policies	☐ Moderate	☐ Moderate	☐ Moderate
Technical Design of Project or Program	☐ Moderate	☐ Moderate	☐ Moderate
Institutional Capacity for Implementation and Sustainability	☐ Substantial	☐ Substantial	☐ Substantial
Fiduciary	☐ Substantial	☐ Substantial	☐ Substantial
Environment and Social	☐ Moderate	☐ Moderate	☐ Moderate
Stakeholders	☐ Substantial	☐ Substantial	☐ Substantial
Other	--	☐ Substantial	☐ Substantial
Overall	☐ Moderate	☐ Substantial	☐ Substantial

Results

PDO Indicators by Objectives / Outcomes

Reduce vulnerability to cyclone and hydro-meteorological hazards of coastal communities



► Proportion of the targeted coastal population covered by the EWDS (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	25.00	25.00	75.00
Date	15-Jun-2015	31-Dec-2020	18-Mar-2021	15-Sep-2022
Comments:	State-level EWDS works are starting in three States, and have been dropped from the remaining three. Coverage of population by state-level EWDS will be counted upon completion of works. Meanwhile, the deployment of the web dynamic composite risk atlas and decision support system (DCRA-DSS) at IMD developed under Component C of the NCRMP II has enhanced access to precise and timely early warning and forecasts to the targeted coastal population. 25% of the targeted population has gained coverage under the NCRMP II work on these national EWD systems.			
► Proportion of vulnerable coastal population with access to emergency shelters (Percentage, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	47.00	49.00	30.00
Date	15-Jun-2015	31-Dec-2020	18-Mar-2021	15-Sep-2022
Comments:	Construction of MPCs and Access Roads to Shelters is underway (except in Maharashtra where this investment has been dropped). 190 MPCs have been completed and 72 are under construction. For completed and nearly completed shelters, efforts are in progress for formation of Cyclone Shelter Management Committee (CSMMC), development of Shelter Management Guidelines, handing over of MPCs to CSMMCs, procurement of shelter equipment and establishing Corpus Fund. At the time of appraisal, 500,000 people were identified for enabling access to multi-purpose cyclone and flood shelters; given that access to 246,900 people (49% of 500,000 people) have been secured the access through the completed 190 shelters, this number is reported as 49% as of April 2021.			

Increase State capacity to effectively plan and respond to disaster events				
► Results of the vulnerability assessment presented to officials of NDMA for investment planning (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	15-Jun-2015	31-Dec-2020	18-Mar-2021	15-Sep-2022
Comments:	Multi-hazard risk modelling and assessment for all coastal states and UT is under progress and has been presented to the NDMA at different stages of preparation, testing and operationalization during recent cyclones. Improvements to this system are underway through repeated testing during cyclones.			
► Results of the comprehensive multi-hazard risk financing strategy for policy making (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	15-Jun-2015	31-Dec-2020	18-Mar-2021	15-Sep-2022
Comments:	Procurement of the consultant, though in advanced stages, is ongoing.			



--

Intermediate Results Indicators by Components

Early Warning Dissemination Systems				
▶ Number of R-PACS (Remote Public Alarm & Communication System) installed (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	750.00
Date	15-Jun-2015	31-Dec-2020	18-Mar-2021	15-Sep-2022
Comments:	Works are starting in three states and will be dropped from remaining three.			

Cyclone Risk Mitigation Infrastructure				
▶ Number of multi-purpose cyclone and flood shelters completed (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	176.00	190.00	340.00
Date	15-Jun-2015	31-Dec-2020	18-Mar-2021	15-Sep-2022
Comments:	190 MPCs have been completed and 72 are under construction.			

□ Number of people with access to multi-purpose cyclone and flood shelters built or rehabilitated under the Project (Number, Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	235,800.00	246,900.00	500,000.00

▶ Roads rehabilitated, Rural (Kilometers, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	175.00	205.00	310.00
Date	15-Jun-2015	31-Dec-2020	18-Mar-2021	15-Sep-2022
Comments:	Road works have been carried out in two states: Gujarat and Karnataka. In Gujarat, all planned 43 roads in total 156.66km are completed, yet it requires close attention for rectification of construction defects. In Karnataka, total 45.16 Km length was reported to be completed.			

▶ Number of bridges completed under the project (Number, Custom)				
--	--	--	--	--



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	2.00
Date	15-Jun-2015	31-Dec-2020	18-Mar-2021	15-Sep-2022
Comments:	2 bridges are under construction in Karnataka.			
► Kilometers of embankments rehabilitated under the Project (Kilometers, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	30.00
Date	18-Mar-2016	31-Dec-2020	18-Mar-2021	15-Sep-2022
Comments:	Out of 3 planned embankment, one in Karnataka and two in Maharashtra are awarded, for a total of 35.86 planned kilometers. The third saline embankment in Maharashtra has been dropped.			
□ Square kilometers protected by embankments rehabilitated by the Project (Square kilometer(km2), Custom Supplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	0.00	1,600.00
► Kilometers of HT and LT lines moved underground (Kilometers, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	199.60	199.60	280.00
Date	15-Jun-2015	31-Dec-2020	18-Mar-2021	15-Sep-2022
Comments:	UGC works in Goa (1 package), Maharashtra (3 packages) and West Bengal (1 package) are ongoing, while the UGC works in Gujarat have been dropped as a part of the cancellation exercise.			

Technical Assistance for Multi-Hazard Risk Management				
► Multi-hazard risk assessment for selected areas completed (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	15-Jun-2015	31-Dec-2020	18-Mar-2021	15-Sep-2022
Comments:	Multi-hazard risk modelling and assessment for all coastal states and UT are advanced and presented to relevant government officials, while undergoing improvements through the experience of being tested during cyclone events.			
► Physical structural assessment of lifeline infrastructure completed (Yes/No, Custom)				



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	15-Jun-2015	31-Dec-2020	18-Mar-2021	15-Sep-2022
Comments:	This activity is being carried out as part of a study: the Design of the National Seismic Risk Mitigation Program under Component C (Sub Component C5).			
► Probabilistic risk model for selected areas completed (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	15-Jun-2015	31-Dec-2020	18-Mar-2021	15-Sep-2022
Comments:	Multi-hazard risk modelling and assessment for all coastal states and UT are advanced and presented to relevant government officials, while undergoing improvements through the experience of being tested during cyclone events.			
► Hydro-meteorological Resilience Action Plans completed (Yes/No, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	15-Dec-2014	31-Dec-2020	18-Mar-2021	15-Sep-2022
► Number of training modules on disaster damage assessment implemented (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	14.00	14.00	8.00
Date	15-Jun-2015	31-Dec-2020	18-Mar-2021	15-Sep-2022
Comments:	Under the COVID-19 impact, Kerala started to use online training. Kerala SPIU will share the online training contents with other states for their possible consideration of similar approach.			

Performance-Based Conditions

Data on Financial Performance

Disbursements (by loan)

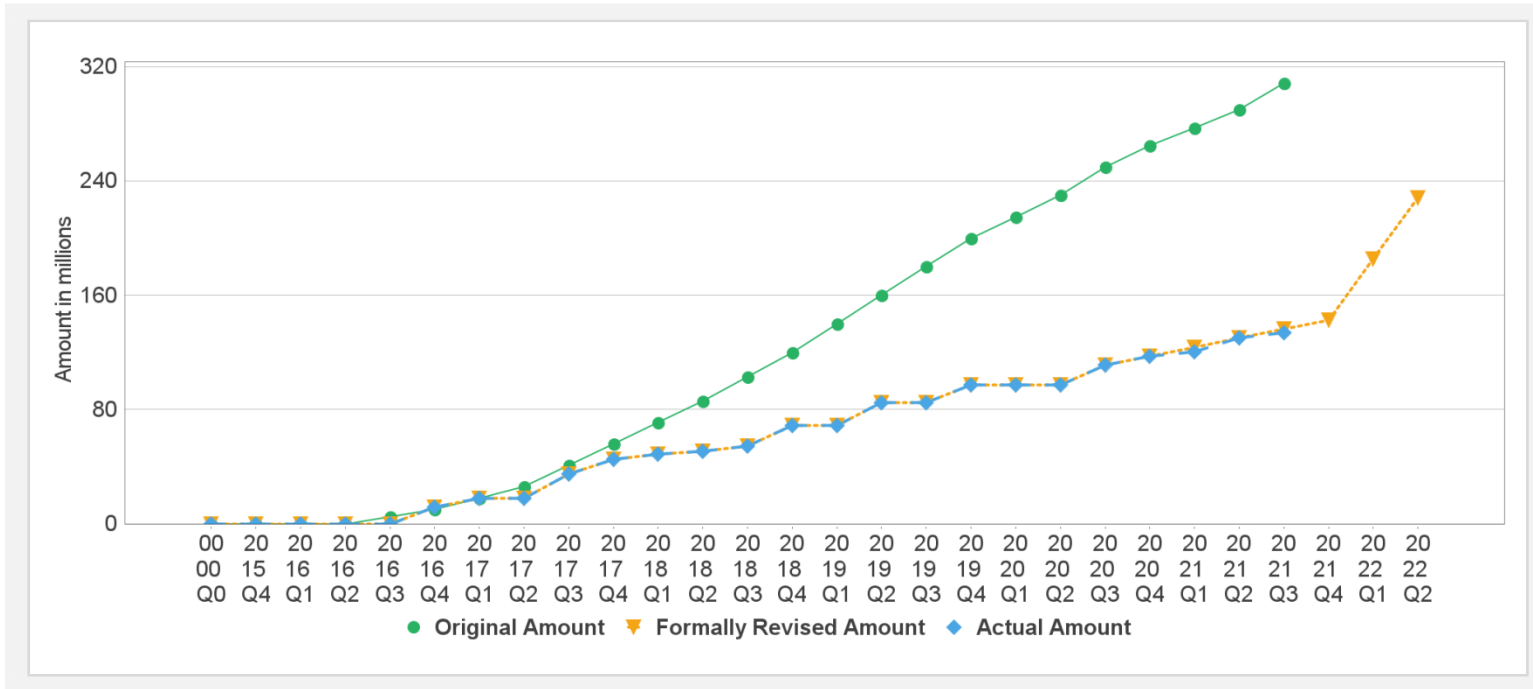
Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P144726	IDA-56930	Effective	USD	308.40	228.40	80.00	133.80	94.60	59%



Key Dates (by loan)

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P144726	IDA-56930	Effective	28-May-2015	11-Aug-2015	09-Nov-2015	15-Mar-2021	15-Sep-2022

Cumulative Disbursements



PBC Disbursement

PBC ID	PBC Type	Description	Coc	PBC Amount	Achievement Status	Disbursed amount in Coc	Disbursement % for PBC
--------	----------	-------------	-----	------------	--------------------	-------------------------	------------------------

Restructuring History

Level 2 Approved on 16-Feb-2021

Related Project(s)

There are no related projects.