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: 13 | ARCHIVED on 28-Oct-2021 | ISR48269 |

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	■ Moderately Unsatisfactory	Moderately Satisfactory
Overall Implementation Progress (IP)	■ Moderately Satisfactory	□ Moderately Satisfactory
Overall Risk Rating	Substantial	Substantial

Implementation Status and Key Decisions

- Component A Early Warning Dissemination Systems: Goa and Kerala are in advance stages of procurement of sirens and towers, and initiation of installation. Karnataka is still in the process of finalizing the identification and screening of sites. In parallel ongoing processes include development of institutional arrangements, application for licenses and any other regulatory clearances and development of SOPs.
- Component B Cyclone Risk Mitigation Structure: [Multi-purpose Cyclone Shelters (MPCSs)] 207 MPCSs have been completed and 55 are under construction. For MPCSs under construction, a realistic review of completion dates and close monitoring of progress are critical. For completed and nearly completed MPCSs, formulating Cyclone Shelter Management and Maintenance Committees

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(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. While all planned 43 roads covering a length of 156.66 km have already been reported as completed, pending rectification works in one road package needs completion. In Karnataka, 15 packages covering a length of 48 km were reported as completed and completion certificates were issued. [Saline Embankments] One saline embankment package in Karnataka reported 52% physical progress by end of July 2021. For the two SEs in Maharashtra physical progress on Kachali Pitkari SE is reported as 30%, and for the Narvel Banavale SE as 45%. [Under Ground Cabling] Works in Maharashtra are delayed with an average physical progress of 40% across all three ongoing works. The package in West Bengal was completed and works in Goa have achieved 85% physical progress.

• Component C - Technical Assistance for Multi-Hazard Risk Management: Planned activities have been advanced including the Hazard Risk & Vulnerability Assessment, Benefit Monitoring & Evaluation, Comprehensive Multi-hazard Risk Financing Strategy (CMhRFS) and the Hydro Meteorological Resilience Action Plan. Design of the National Seismic Risk Mitigation Program is delayed and the Dynamic Web Based Composite Risk Atlas and Decision Support Tool is nearing completion.

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-meterological 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

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Date	15-Jun-2015	18-Mar-2021	08-Sep-2021	15-Sep-2022
Comments:	is in advanced stag but is expected to installed across the Meanwhile, the de DSS) at IMD devel early warning and	works have progressed in Kerala ges and initiation of installation is complete within project period wi e the three States. ployment of the web dynamic cor oped under Component C of the forecasts to the targeted coastal e NCRMP II work on these nation	underway. Karnataka is fa th close monitoring. 200 sir mposite risk atlas and decis NCRMP II has enhanced a population. 25% of the targ	cing delays with this work ens are expected to be sion support system (DCR. access to precise and time
► Proportion of vulner	able coastal population with acc	ess to Project financed emerger	ncy shelters (Percentage, C	ustom)
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	49.00	15.00	17.00
Date	15-Jun-2015	18-Mar-2021	08-Sep-2021	15-Sep-2022
Comments:	reflect the revised apercentage of 15% To illustrate, At the of 1,666,666 people financed MPCSs wanticipated shelter	cturing in August 2021 revised the scope of Project financed emerges in this ISR follows the logic of centime of project appraisal, 500,00 et (30%). Based on the revised in rould accommodate 295,050 (17) accommodation capacity With the oject financed emergency shelter	ency shelters to be underta alculation as consistent with 00 people were identified as avestment figures, it is estin %) of vulnerable coastal pe the completion of 207 shelte	ken. The reported actual in this revision. is having need of MPCSs on the that the 262 project- tople according to the rs, 258,900 people now
	·	o officials of NDMA for investmen		,
			nt planning (Yes/No, Custor Actual (Current) Yes	m) End Target Yes

► Results of the vulner	ability assessment presented to	officials of NDMA for investment	nt planning (Yes/No, Custo	m)
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	Yes	Yes	Yes
Date	15-Jun-2015	18-Mar-2021	08-Sep-2021	15-Sep-2022
Comments:	presented to the ND cyclones. Improvem	odelling and assessment for all MA at different stages of preparents to this system are underwin May 2021. It is estimated that 2021	ration, testing and operation ay through repeated testing	nalization during recent g during cyclones, including
► Results of the compr Custom)	ehensive multi-hazard risk finan	cing strategy presented to and	used by officials of NDMA	for policy making (Yes/No,
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	15-Jun-2015	18-Mar-2021	08-Sep-2021	15-Sep-2022
Comments:	The development of	this strategy is now underway	under the leadership of PM	IU-NDMA.

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Intermediate Results Indicators by Components

Early Warning Dissemination Systems								
► Number of sirens installed (Number, Custom)								
	Baseline	Actual (Previous)	Actual (Current)	End Target				
Value	0.00	0.00	0.00	200.00				
Date	15-Jun-2015	18-Mar-2021	08-Sep-2021	15-Sep-2022				
State-level EWDS works have progressed in Kerala and Goa where the procurement of sirens and towers is in advanced stages and initiation of installation is underway. Karnataka is facing delays with this work but is expected to complete within project period with close monitoring. 200 sirens are expected to be installed across the the three States.								

	Baseline	Actual (Previous)	Actual (Current)	End Target
/alue	0.00	190.00	207.00	262.00
Pate	15-Jun-2015	18-Mar-2021	08-Sep-2021	15-Sep-2022
Comments:	207 MPCSs have be	een completed and 55 are und	er construction.	
□Number of people wit Supplement)	h access to multi-purpose cyc	lone and flood shelters built or	rehabilitated under the Proj	ect (Number, Custom
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	246,900.00	258,900.00	295,050.00
►Roads rehabilitated, Ru	ural (Kilometers, Custom)	Asked (Parising)	Asked (General)	Ford Toront
	Baseline	Actual (Previous)	Actual (Current)	End Target
/alue	0.00	205.00	205.00	205.00
Date	15-Jun-2015	18-Mar-2021	08-Sep-2021	15-Sep-2022
Comments:	in total 157km are c	een carried out in two states: G ompleted, yet it requires close Km length was reported to be o	attention for rectification of	

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Value	0.00	0.00	0.00	2.00				
Date	15-Jun-2015	18-Mar-2021	08-Sep-2021	15-Sep-2022				
Comments:	2 bridges are under	2 bridges are under construction in Karnataka.						
►Kilometers of embar	nkments rehabilitated under the F	Project (Kilometers, Custom)						
	Baseline	Actual (Previous)	Actual (Current)	End Target				
√alue	0.00	0.00	0.00	30.00				
Date	18-Mar-2016	18-Mar-2021	08-Sep-2021	15-Sep-2022				
Comments:	Out of 3 planned en Maharashtra	nbankment, works are on ongo	ing in one embankment in k	Karnataka and two in				
□Square kilometers	protected by embankments reha	bilitated by the Project (Square	e kilometer(km2), Custom S	upplement)				
	Baseline	Actual (Previous)	Actual (Current)	End Target				
Value	0.00	0.00	0.00	29.00				
/alue	Baseline 0.00	Actual (Previous) 199.60	Actual (Current) 448.00	End Target 1,286.00				
Date	15-Jun-2015	18-Mar-2021	08-Sep-2021	15-Sep-2022				
Comments:		(1 package) and Maharashtra (·	·				
echnical Assistance fo	or Multi-Hazard Risk Managemer	nt						
►Multi-hazard risk as:	sessment for selected areas com	pleted (Yes/No, Custom)						
	Baseline	Actual (Previous)	Actual (Current)	End Target				
Value	No	Yes	Yes	Yes				
Date	15-Jun-2015	18-Mar-2021	08-Sep-2021	15-Sep-2022				
Comments:		odelling and assessment for all t officials, while undergoing im ts.						

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Actual (Previous)

Actual (Current)

End Target

▶ Physical structural assessment of lifeline infrastructure completed (Yes/No, Custom)

Baseline

√alue	No	No	No	Yes
Date	15-Jun-2015	18-Mar-2021	08-Sep-2021	15-Sep-2022
Comments:		carried out as part of a study: nponent C (Sub Component C5		Seismic Risk Mitigation
► Probabilistic risk mod	lel for selected areas completed	(Yes/No, Custom)		
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	No	No	No	Yes
Date	15-Jun-2015	18-Mar-2021	08-Sep-2021	15-Sep-2022
		delling and assessment for all	coastal states and UT are a provements through the exp	
Comments:	during cyclone even		provemente unough the exp	
		ts.	Joverne ne unough une exp	on some constant
	during cyclone even	ts.	Actual (Current)	End Target
	during cyclone even	eted (Yes/No, Custom)		•
► Hydro-meteorologica	during cyclone even I Resilience Action Plans comple Baseline	eted (Yes/No, Custom) Actual (Previous)	Actual (Current)	End Target
► Hydro-meteorologica Value Date	during cyclone even I Resilience Action Plans comple Baseline No	eted (Yes/No, Custom) Actual (Previous) No 18-Mar-2021	Actual (Current) No 08-Sep-2021	End Target Yes
► Hydro-meteorologica Value Date	during cyclone even I Resilience Action Plans comple Baseline No 15-Dec-2014	eted (Yes/No, Custom) Actual (Previous) No 18-Mar-2021	Actual (Current) No 08-Sep-2021	End Target Yes
► Hydro-meteorologica Value Date	during cyclone even I Resilience Action Plans comple Baseline No 15-Dec-2014 odules on disaster damage asse	eted (Yes/No, Custom) Actual (Previous) No 18-Mar-2021 essment implemented (Number	Actual (Current) No 08-Sep-2021 r, Custom)	End Target Yes 15-Sep-2022
► Hydro-meteorologica Value Date Number of training m	during cyclone even I Resilience Action Plans comple Baseline No 15-Dec-2014 odules on disaster damage asse	eted (Yes/No, Custom) Actual (Previous) No 18-Mar-2021 essment implemented (Number Actual (Previous)	Actual (Current) No 08-Sep-2021 r, Custom) Actual (Current)	End Target Yes 15-Sep-2022 End Target

Performance-Based Conditions

Data on Financial Performance

Disbursements (by loan)

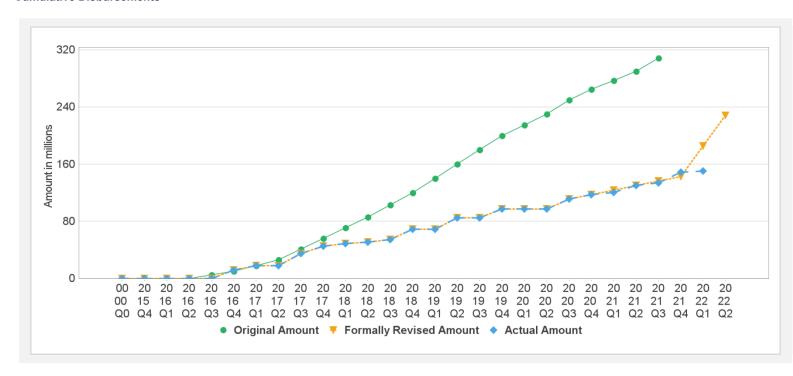
Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Di	sbursed
P144726	IDA-56930	Effective	USD	308.40	228.40	80.00	150.56	77.84		66%

Key Dates (by Ioan)

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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	DDC Type	Description	Coo	DDC Amount	Achievement	Disbursed amount in	Disbursement %
PBC ID	РБС Туре	Description	Coc	PBC Amount	Status	Coc	for PBC

Restructuring History

Level 2 Approved on 16-Feb-2021 ,Level 2 Approved on 03-Sep-2021

Related Project(s)

There are no related projects.

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