



Project Data Sheet

Project 46460-001

Project Name Climate-Resilient Coastal Protection and Management Project

Project Number 46460-001

Country / Economy India

Project Status Closed

Project Type / Modality of Assistance Technical Assistance

Source of Funding / Amount **TA 8652-IND: Climate Resilient Coastal Protection and Management Project**

GEF-Special Climate Change Fund

US\$ 2.00 million

Strategic Agendas Environmentally sustainable growth
Inclusive economic growth

Drivers of Change Governance and capacity development
Partnerships

Sector / Subsector **Agriculture, natural resources and rural development** / Water-based natural resources management

Gender No gender elements

Description

The TA is designed to support strengthening coastal resilience, coastal infrastructure, and communities to the adverse impacts of climate change. It will prepare adaptation guidelines towards effective mainstreaming of climate change into coastal protection and management. The TA is being designed to complement the ongoing \$404 million ADB MFF 0049/Loan 2679-IND: Sustainable Coastal Protection and Investment Management Program (SCPMIP) comprising three tranches. The first tranche subprojects for \$62.5 million is currently under implementation. The TA will ensure greater consideration of climate change impacts in the planning and design of the investments of the next two tranches and in overall coastal management in India.

The TA will analyze climate change-related parameters and impacts mainly from existing literature, and prepare guidelines for climate adaptation applicable to the Indian coast. Mainstreaming of climate adaptation measures will primarily focus on the two focal states of Karnataka and Maharashtra that were selected for SCPMIP. In addition, the TA will support the upscaling of coastal climate change adaptation to central government, maritime states, union territories/islands through official endorsement of the guidelines, provision of awareness materials, and training in the application of the guidelines.

Project Rationale and Linkage to Country/Regional Strategy	<p>The ongoing erosion of the beaches is a major challenge in the India coastline which threatens communities and livelihoods from a variety of areas including artisanal fishing, tourism, and other beach and natural resources-related activities. Coastal erosion is responsible for the loss of land, houses, infrastructure, and business opportunities and poses a high risk to human well-being, economic development, and ecological integrity. It affects negatively the livelihood of coastal communities, particularly poor households, and ultimately the coastal economies. Low cost protection solutions including natural protection such as beach dune management and mangrove are required to be developed. Natural protection is being developed internationally and India already counts successful initiatives on which SCPMIP and the proposed technical assistance can build upon.</p> <p>Coastal infrastructure is currently designed based on historic sea levels and wave regimes, with estimated design life of 50-100 years. Infrastructure projects will gradually become increasingly vulnerable to damage unless appropriate measures of climate resilience are incorporated.</p> <p>Without focused coastal climate change studies, the construction of coastal protection infrastructure and shoreline management planning proceeds largely according to current standards that do not explicitly consider climate change-related risks and vulnerabilities. With the lack of clear and officially endorsed design guidelines, planners and designers have neither the knowledge base, nor the mandate to design for potential impact scenarios under climate change. Government decision makers require adequate evidence of the risks to support the provision of additional finance for climate resilience.</p>
Impact	Strengthened resilience of the Indian coast to impacts of climate change

Project Outcome

Description of Outcome	Climate change impacts are factored into coastal protection and management interventions in India
Progress Toward Outcome	<p>"Climate Change Adaptation Guidelines for Coastal Protection and Management in India" have been prepared by consultants and are being tested in Maharashtra and Karnataka. The draft guidelines were deliberated upon in the meeting of National Technical Committee of Ministry of Water Resources in December 2017. Based on the observations of NTC, Further review of the guidelines was made with CWC and agreement has been reached on revisions and comments. As the guidelines suggest changes in existing Coastal Regulation Zone (CRZ) of Ministry of Environment, Forest and Climate Change (MOEFCC), the TA team has discussed, in March 2018, proposed revisions in meetings with CWC and MOEFCC. The updated version of guidelines also has since been shared with MOEFC. After receipt / incorporation of comments, approval of the final Guidelines will be sought from NTC and the approved guidelines. With the release of Reference Manual Climate Change Adaptation Guidelines for Coastal Protection and Management in India, process of final approval and adoption of The Guidelines has been initiated. MOWR, RD & GR has initiated the process for approval and issuance of the guidelines to the states and its own agencies, which will help in achieving the outcome. Subprojects in SCPMIP Project2 in Karnataka have incorporated climate resilience. Standalone project proposal of Maharashtra for new ADB loan shall incorporate climate resilience. Presently, SCPMIP Project2 in Karnataka incorporates low-cost natural protection measures 30 kilometers of vulnerable shoreline.</p>

Implementation Progress

Description of Project Outputs	<ol style="list-style-type: none">1. Climate change adaptation guidelines for the protection and management of the Indian coast are officially endorsed2. Shoreline management is climate-resilient in two focal states3. Coastal investments in two focal states incorporate climate resilience4. Institutions have strengthened capacity and raised awareness of coastal climate change and adaptation measures
Status of Implementation Progress (Outputs, Activities, and Issues)	<p>Project has been completed in May 2019 with achievement of all 4 outputs as summarized below :</p> <p>Output 1 : The climate change adaptation guidelines were developed in consultation with stakeholders, and vetted by the National Technical committee. After consultations and discussions with CWC, Guidelines have been approved by NTC Chairman as <u>'A Reference Manual Climate Change Adaptation Guidelines for Coastal Protection and Management in India'</u>. A separate shorter version of main Guidelines also has been prepared is currently in the approval process. The reference manual version was officially released by Secretary MOWR RD&GR at a national level workshop held on 26 March 2019.</p> <p>Output 2 : Reviews of Tranche 2 project designs of SCPMIP Program in Karnataka and Shoreline Management Plans (SMP) for the two states have been conducted and shared with the key stakeholders. In Karnataka, the Tranche 2 consultants are using the review of designs to assist the re-design process for some of the component projects which is currently an on-going process. A program for review and revision of the SMP has been started under Tranche 2 of SCPMIP, and the recommendations of the CRCPMP review are being adopted within this revision of the SMP. The Maharashtra SMP was also developed with knowledge of CRCPMP recommendations, and the review identified some areas for attention needed for the SMP and MMB have committed to making the changes identified as needed.</p> <p>Output 3 : Ongoing SCPMIP Tranche 2 sub-projects in Karnataka are incorporating climate change resilience measures. Maharashtra is also planning next phase as climate resilient coastal protection and management program. TA initially designed 4 Community pilot sub-projects but due to various implementation related issues only 1 project at Bhatye in Maharashtra has been completed in May 2019, incorporating dune construction and plantation.</p> <p>Output 4: A training and institutional assessment has been prepared, implemented and completed. Training for uptake of the Guidelines has been completed with three events held, with increasing contributions provided by the IAs in successive training events to build sustainability. Training and capacity development for the use of the Guidelines will be with CWPRS, now well-equipped to continue the training programme in the use of the new Guidelines. The executing agency, i.e. Central Water Commission (through National Water Academy, Pune) is conducting a training program on Coastal Erosion and Protection from 1-5 July 2019 for the State engineers wherein ADB project officer has been invited to take one session on Climate Change Adaptation Guidelines for Coastal Protection and Management in India and its Application in India.</p>
Geographical Location	

Summary of Environmental and Social Aspects

Environmental Aspects

Involuntary Resettlement

Indigenous Peoples

Stakeholder Communication, Participation, and Consultation

During Project Design Stakeholder participation and consultation were done during project design.

During Project Implementation Stakeholder participation and consultation were done regularly.

Business Opportunities

Consulting Services	<p>A team of consultants comprising research scientists, coastal engineers, and specialists in natural coastal protection, community-based coastal management, and training is envisaged. The consultants will work at national, state, district and community levels, with total estimated inputs of 66 person-months (22 international and 44 national). Consultants will be engaged by ADB through a firm using quality- and cost-based selection procedures with 90:10 of technical and financial weight on a full technical proposal.</p> <p>The consultancy contract package will include provisional sums to cover the costs of additional activities, namely:</p> <p>(i) subcontracting of three focal research institutes to provide information and data, and implement specific studies that will define and quantify coastal climate change and impacts; (ii) project management of the pilot community projects and subcontracting of local nongovernment organizations (NGOs), community organizations, or local contractors to implement natural protection activities; (iii) organization and management of training courses, workshops, preparation of awareness materials and report production; and (iv) engagement of an advisory panel of experts to review and endorse the project climate change analysis and adaptation guidelines (the members of the panel will be nominated by MOWR and maritime states and union/island territories, and approved by ADB).</p>
Procurement	Minor procurement of equipment is planned which will follow ADB guidelines.
Responsible ADB Officer	Yadav, Rajesh
Responsible ADB Department	South Asia Department
Responsible ADB Division	India Resident Mission
Executing Agencies	<p><i>Ministry of Water Resources</i> <i>Govt of India</i> <i>Rm. 412, Shram Shakti Bhavan</i> <i>New Delhi 110 011</i></p>

Timetable

Concept Clearance	20 Jun 2013
Fact Finding	21 Jun 2013 to 27 Jun 2013
MRM	-
Approval	16 May 2014
Last Review Mission	-
Last PDS Update	26 Jun 2019

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Milestones

Approval	Signing Date	Effectivity Date	Closing		
			Original	Revised	Actual

16 May 2014 16 Jul 2014 16 Jul 2014 30 Jun 2017 15 May 2019 02 Oct 2019

Financing Plan/TA Utilization							Cumulative Disbursements	
ADB	Cofinancing	Counterpart		Project Sponsor	Others	Total	Date	Amount
		Gov	Beneficiaries					
0.00	2,000,000.00	50,000.00	0.00	0.00	0.00	2,050,000.00	17 Jun 2022	1,606,338.95

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