



ADB GEF PROJECT IMPLEMENTATION REPORT (PIR)

I. Project Profile

ADB Official Project Title: India: Climate-Resilient Coastal Protection and Management Project (CRCPMP)

ADB Project Number: 46460-001 (Approval No. TA 8652)

1. General Information	1	GEF ID (PMIS ID)	4536
	2	Focal Area(s)	Climate Change Adaptation (CCA-1; CCA-2 & CCA-3)
	3	Region	South Asia
	4	Country	India
	5	Project Title	Climate Resilient Coastal Protection and
	6	Project Size (FSP; MSP)	Management Full Size Project
	7	Trust Fund (GEFTF; SCCF; LDCF)	Special Climate Change Fund (SCCF)
2. Milestone Dates	8	GEF CEO Endorsement Date (mm/dd/yy)	03/12/14
	9	ADB Approval Date (mm/dd/yy)	05/16/14
	10	GEF Grant Signing (mm/dd/yy)	07/16/14
	11	Project Implementation Start Date (mm/dd/yy)	07/16/14
	12	Date of 1st GEF Grant Disbursement (mm/dd/yy) <i>(Definition: Please include initial date of cash advance to imprest accounts on GEF Funds)</i>	04/16/15
	13	Proposed/Revised Implementation End (mm/dd/yy)	12/31/17
	14	Actual Implementation End (mm/dd/yy)	05/15/2019
3. Funding	15	PPG/PDF Funding (USD)	0
	16	GEF Grant (USD)	2,000,000
	17	Total GEF Disbursement as of 30 June 2019 (USD)	1,050,557
	18	Confirmed Co-Finance at CEO Endorsement (USD)	0
	19	Materialized Co-Finance at project mid-term (USD)	-
	20	Materialized Co-Finance at project completion (USD)	-
4. Evaluations	21	Proposed Mid-term date – if applicable (mm/dd/yy)	N/A
	22	Actual Mid-Term date - if applicable (mm/dd/yy)	-
	23	Proposed Terminal Evaluation date – if applicable (mm/dd/yy)	N/A
	24	Actual Terminal Evaluation Date - if applicable (mm/dd/yy)	-
	25	Tracking Tools Required (Yes/No/ Focal Area TT)	
	26	Tracking Tools Date - if applicable (mm/dd/yy) Midterm Tracking Tool Terminal Evaluation Tracking Tool	N/A



5. Ratings	27	Overall Implementation Progress Rating (IP)	Moderately Satisfactory
	28	Overall Development Objectives Rating (DO)	Satisfactory
	29	Overall Risk Rating	Moderate
	30	Overall Project Rating	satisfactory
6. Status	31	Status (GEF grant for ADB board approval/ GEF grant on-going)	Under implementation
	32	Implementation Status (1 st , 2 nd , 3 rd PIR..., Final PIR)	4th ^d PIR
7. Files	33	PIR File Name	GEFID4536_2019_PIR_ADB_India_CiimateResilient

II. Project Contacts

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III. Project Implementation

A. Project Description:

The Technical Assistance project is to strengthen the coastal protection and management in India, and in particular to improve resilience to the impact of climate change. The Executing Agency for the TA is the Ministry of Water Resources, River Development and Ganga Rejuvenation, acting through the Coastal Erosion Directorate of the Central Water Commission (CWC), and the Director of the Central Water and Power Research Station (CWPRS) – the nodal bodies in India for coastal protection work.

GEF funds are used to provide consultancy services to:

- Develop Guidelines to be used as a primary reference for technical information and advice for use in the planning, design and approval of schemes to improve coastal protection and coastal management throughout India and its islands
- Improve shoreline management in two focal states of Maharashtra and Karnataka, supporting the work of the Sustainable Coastal Protection and Management Investment Program (SCPMIP) of the ADB
- Provide pilot sub-projects which use community-led, appropriate coastal protection projects provide resilience to climate change impacts and to demonstrate appropriate intervention methodologies.
- Strengthen institutional capacity to understand potential impact of climate change, and how climate resilience can be developed through appropriate coastal protection and management practices.

The Guidelines are being developed by international and national experts in coastal processes, coastal engineering and coastal morphology. The TA Team are working closely with the CWPRS specialists in developing the advisory documents. A key aspect of the Guidelines is the provision of information of the likely impact of climate change on key design parameters for coastal protection works – parameters such as future sea level, extreme wave height, possible surge heights and the like. The Team is developing, as part of the Guidelines, gridded data on key parameters at various time horizons based on a 50 km grid around the India coastline. These data are being developed under sub-contracts with leading academic institutes in India, and will be available for public download through a CWC-hosted data management system. Software will be provided as part of the Guidelines to simplify use of the data-sets, and to guide users of the system to develop appropriate design parameters.

The TA Team are also reviewing key outputs of the SCPMIP projects in Karnataka and Maharashtra to make sure designs being developed are resilient to the anticipated coastal environment under climate change. Review is being made on Shoreline Management Plans and the designs of sub-projects in Tranche 2 of the project.

Four sub-projects are being designed and will be implemented as community-led pilot projects, reflecting a number of ways that climate resilient coastal protection can be provided. The TA Team are engaging a range of local stakeholder groups to explain, sensitize, and seek active participation in the execution and later management of the sub-projects.

Capacity-building work is focusing on both learning from the pilot project work to effectively mobilize local communities to actively participate in coastline management, and also to develop capability to use the approaches enshrined in the Guidelines in a sustainable way. Officers of CWC and CWPRS are being trained as trainers so sustainability of the new approaches can be assured.

B. Implementation Progress (IP) Rating: MODERATELY SATISFACTORY

Progress made under the four different areas of activity is summarized below.

Guidelines:

The document has been developed in consultation with stakeholders, and a final draft document reviewed in the National Technical committee meeting in December 2017. After consultations and discussions with CWC, Guidelines have been approved by NTC Chairman as “A Reference Manual Climate Change Adaptation Guidelines for Coastal Protection and Management in India”. A separate shorter version of main Guidelines also has been prepared which shall be submitted to for MOWR RD&GR’s approval through consultation with the states. The reference manual version was officially released by Secretary MOWR RD&GR at a national level workshop held on 26 March 2019. The contracted academic institutes have developed and reviewed the gridded data sets, and are publicly available in the Water Resources Information System of India (India-WRIS) website of Central Water Commission (CWC).

Review of SCPMIP Program in Karnataka and Maharashtra

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. A new standalone project, Maharashtra Sustainable Climate Resilient Coastal Protection and Management Investment Program (MSCRCPMIP) is being designed by Maharashtra Government which shall incorporate CRCPMP recommendations.

Pilot Sub-projects.

Due to budget constraints and cost issues, the consultants had prepared three sub-projects instead of originally proposed six subprojects and worked to prepare local communities for plantation of vegetation and dune care, following the completion of dune-formation civil works. These projects were delayed due to difficulties in procurement, agreement on GST payment and sand royalty. Out of three community protection pilot subprojects, subproject at Bhatye, Maharashtra is under implementation (90% works have been completed) and would complete by 1 May 2019. Second subproject at Majali is now dropped, as efforts to conclude the first procurement exercise and second attempt to procure the services of contractor through shopping mode also failed; and now consultant team has submitted that due to technical reasons the intended dune nourishment through beach scraping cannot be done before monsoon as it may adversely impact the bathymetric profile during monsoon. Contract for third community pilot subproject at Ubhadanda, Maharashtra was earlier planned to be signed after approval of TA extension beyond 31 March 2019 but IA (MMB) could not sign the contract due to imposition of national election code of conduct. ADB and consultant explored other options of directly engaging the NGO but due to lack of FCRA registration for the empanelled NGO this option also could not be exercised, therefore due to these delays Ubhadanda subproject also has been finally dropped.

Capacity Building

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 has progressed well, with CWPRS now well-equipped to continue the training programme in the use of the new Guidelines. As part of the TA, using the savings, a management study tour to Australia was organized from 16-23 March 2019 to provide firsthand experience of climate resilient coastal protection and management for key officials of EA and IA.

a. GEF Grant Disbursement

The Effectivity of the TA was 16 July 2014 and the first disbursement was for \$92,761 on 16 April 2015. Current total disbursement is \$1,050,557.

b. Gender Action Plan Implementation Status

Not applicable, No gender elements

c. Social and Environmental Safeguard Plan Implementation Status

Not applicable

C. Global Environmental Benefits (GEB) Objective/ Development Objective (DO) Rating: SATISFACTORY

The project is to support strengthening coastal resilience, coastal infrastructure, and communities to the adverse impacts of climate change and to prepare adaptation guidelines towards effective mainstreaming of climate change into coastal protection and management.

Project has been completed in May 2019 with achievement of all 4 outputs as summarized below: 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 *‘A Reference Manual Climate Change Adaptation Guidelines for Coastal Protection and Management in India’*. 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. 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. 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. 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.

D. Risk Rating:
MODERATE

Two areas, the implementation of the sub-projects and the endorsement of the Guidelines, were the key challenges for the project.

For the endorsement of the Guidelines, it has taken time to get full engagement of the Government bodies. Instead of fully engaging during development of the Guidelines, most contributory comments and feedback being provided at the final draft stage of Guidelines preparation. This delayed the finalisation of the document, and its subsequent endorsement. The process is now nearly complete, but the official adoption of the Guidelines by MOWR RD&GR would require another internal government process in consultation with the states. Due to this reason, the TA output of 2 volume Guidelines shall be released as the “A Reference Manual Climate Change Adaptation Guidelines for Coastal Protection and Management in India”.

For the implementation of the pilot sub-projects, managing the State procurement processes as part of a partnership with the Consultants has been very problematic, despite an established close relationship with both State agencies. Time lost in the early stages of project implementation with a lack of full engagement with all implementing agencies, together with the time needed to fully understand the procurement process to be adopted, has proven the key constraint for project implementation. This has led to delay in the completion of 1 subproject and dropping of the remaining two subprojects despite the best efforts of all parties concerned.

E. Overall Rating of the Project:
Satisfactory

F. Additional Comments – Good Practices and Lessons Learned:

The project is close to achieving its key targets of getting full buy-in to a new approach to coastal management in India. One of the major achievements is the availability of a data-set of key parameters required for designing climate resilient infrastructure considering the potential impact of climate change on the coastal environment of India.

A key lesson from the project is the challenge of the implementation of the pilot sub-projects in the manner adopted in the project design. This was a novel component to the project but has proven very difficult to manage in practice.