



Tranche-at-a-Glance Report

Project Number: 38412-033
MFF Number: 0050
November 2018

India: Assam Integrated Flood and Riverbank Erosion Risk Management Improvement Program (Project 2)

This document is being disclosed to the public in accordance with ADB's Public Communications Policy 2011.

Asian Development Bank

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1. Basic Data		Project Number: 38412-033	
Project Name	Assam Integrated Flood and Riverbank Erosion Risk Management Investment Program - Project 2	Department/Division	SARD/SAER
Country	India	Executing Agency	Flood and River Erosion Management Agency of Assam
Borrower	India		
2. Sector	Subsector(s)	ADB Financing (\$ million)	
✓ Agriculture, natural resources and rural development	Rural flood protection		44.14
	Rural water policy, institutional and capacity development		7.24
Water and other urban infrastructure and services	Urban flood protection		8.78
Total			60.16
3. Strategic Agenda	Subcomponents	Climate Change Information	
Inclusive economic growth (IEG)	Pillar 2: Access to economic opportunities, including jobs, made more inclusive	Climate Change impact on the Project	Medium
Environmentally sustainable growth (ESG)	Disaster risk management Global and regional transboundary environmental concerns	ADB Financing Adaptation (\$ million)	3.20
4. Drivers of Change	Components	Gender Equity and Mainstreaming	
Governance and capacity development (GCD)	Client relations, network, and partnership development to partnership driver of change Civil society participation Institutional development Organizational development Public financial governance	Effective gender mainstreaming (EGM)	✓
Knowledge solutions (KNS)	Application and use of new knowledge solutions in key operational areas		
Partnerships (PAR)	Civil society organizations Implementation		
5. Poverty and SDG Targeting		Location Impact	
Geographic Targeting	No	Rural	High
Household Targeting	No	Urban	High
SDG Targeting	Yes	Nation-wide	Low
SDG Goals	SDG5, SDG9, SDG11, SDG13		
6. Risk Categorization:	Complex		
7. Safeguard Categorization	Environment: B Involuntary Resettlement: A Indigenous Peoples: B		
8. Financing			
Modality and Sources		Amount (\$ million)	
ADB			60.16
Sovereign MFF-Tranche (Regular Loan): Ordinary capital resources			60.16
Cofinancing			0.00
None			0.00
Counterpart			22.18
Government			22.18
Total			82.34
Currency of ADB Financing: USD			

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Date of Receipt by ADB of PFR: 19 September 2018

Tranche Number: 2

9. Country Operations Business Plan

CPS

<https://www.adb.org/sites/default/files/institutional-document/363331/cps-ind-2018-2022.pdf>

COBP

<https://www.adb.org/sites/default/files/institutional-document/363336/cobp-ind-2018-2020.pdf>

10. Tranche Summary

Incorporating lessons from Project 1, Project 2 for \$60.16 million will fund a combination of structural and nonstructural measures in the three subproject areas (Palasbari-Gumi, Kaziranga, and Dibrugarh) along the Brahmaputra River in Assam. The structural measures will include: (i) 20 kilometers (km) of riverbank protection works with innovative technologies, combined with 5 km of pro-siltation measures; (ii) upgrade of 13 km of flood embankments; and (iii) construction of four sluice gates and one pumping station to improve drainage. Monitoring and adaptive maintenance of the infrastructure will also be included to cope with the highly dynamic morphological processes of the river. The nonstructural measures will continue the methodologies used under Project 1 and cover community involvement and community-based flood risk management activities.

Impact: Economic vulnerability and social disruption caused by flood and riverbank erosion risks in Assam reduced.

Outcome: Resilience to flood and riverbank erosion risks in selected flood-prone areas along the Brahmaputra River increased.

Outputs: (i) Institutional and knowledge-based flood and riverbank erosion risk management (FRERM) planning strengthened, (ii) Comprehensive FRERM structural and nonstructural measures developed, implemented and maintained in three subproject areas, and (iii) Multidisciplinary investment program management strengthened.

Implementation Arrangements: Flood and River Erosion Management Agency of Assam will be the executing agency.

Project Readiness: Project readiness is high. All designs and bid documents for the civil works and goods packages were completed and all contracts awarded between May and October 2018. Environmental and social safeguards were assessed in accordance with ADB's Safeguard Policy Statement (2009) and government requirements: (i) initial environment examination of each of the three subprojects were updated; (ii) environment-related statutory clearances for the three subprojects are in place; and (iii) implementation of the resettlement plans was initiated and affected persons will be fully compensated before any physical or economic displacement.

11. Significant Developments in the MFF and Previous Tranches

There was no change in the policy framework affecting the viability or sustainability of the investment program and no changes in the types of investments. The availability period of the MFF was extended to 18 October 2020 to achieve the outcome of the MFF. The MFF performance rating is "on track."

Project 1 (Loan 2684) financed (i) community-based flood risk management activities in 32 vulnerable villages; (ii) development of a flood forecasting model, and a flood and erosion management draft plan; (iii) 8 km of riverbank erosion protection works; and (iv) 15 km of construction or renovation of embankments. The newly built infrastructure performed well during the heavy floods of the 2017 flood season making the upgraded embankment at Dibrugarh the new standard for the entire state.

Project 1 significantly helped to strengthen FRERM in Assam and followed an adaptive approach of stabilizing naturally developed riverbank lines to minimize the impacts of the highly dynamic morphological processes of the river. The structural measures built included innovative cost-effective riverbank protection technologies using sand-filled geotextile bags and flow-retarding screens, and progressive knowledge development. Project 2 will use the same design principles and construction methods except for minor changes and improvements in design and materials to factor in the lessons from Project 1.

Project 1 was completed on 31 July 2017 and closed on 27 February 2018. Contract awards totaled \$46.2 million and disbursements totaled \$42.0 million. The safeguard requirements were satisfactorily met and all covenants and undertaking were complied. Despite its slow initial progress, the overall performance was satisfactory and rated "on track."

12. Milestones

Estimated Approval
30 November 2018

Estimated Completion^a
18 October 2020

13. Linked Documents

	Required Document	Disclosure Date
Tranche	Draft Periodic Financing Request Report	
Weblink:	http://www.adb.org/Documents/LinkedDocs/?id=38412-033-DraftPFR	The Final PFR Report is disclosed upon approval
(i) Environment	IEE - Initial Environment Examination	
Weblink:	https://www.adb.org/projects/documents/ind-38412-033-iee-3	03-SEP-2018
	IEE - Initial Environment Examination	
	https://www.adb.org/projects/documents/ind-38412-033-iee-2	03-SEP-2018
	IEE - Initial Environment Examination	
	https://www.adb.org/projects/documents/ind-38412-033-iee-4	03-SEP-2018

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(ii) Involuntary resettlement	RP - Resettlement Plan	
Weblink:	https://www.adb.org/projects/documents/ind-38412-033-rp-4	15-MAY-2018
	RP - Resettlement Plan	
	https://www.adb.org/projects/documents/ind-38412-033-rp-3	24-APR-2018
	RP - Resettlement Plan	
	https://www.adb.org/projects/documents/ind-38412-033-rp-5	13-JUN-2018
	RP - Resettlement Plan	
	https://www.adb.org/projects/documents/ind-38412-033-rp-6	31-AUG-2018

^a For Tranches, this refers to the financial closing date.