



Asian Development Bank

Aide Memoire
South Asia Department
Environment, Natural Resources
and Agriculture Division

**Loan 4107/G0799-BAN Flood and Riverbank Erosion Risk Management Investment
Program – Project 2**

**Aide Memoire of the Loan and Grant Review Mission
23–29 April 2024, 23 May 2024**

I. INTRODUCTION

1. The Asian Development Bank undertook a loan and grant review mission (the Mission¹) from 23 to 29 April 2024 for the Flood and Riverbank Erosion Risk Management Investment Program – Tranche 2 project (Project 2) to:

- (i) undertake a review of all project aspects and identify appropriate mitigation measures to address any identified implementation issues;
- (ii) assess whether the project is likely to achieve its outcome and outputs on time and within budget;
- (iii) assess the overall project status and prepare for the upcoming project physical closure;
- (iv) discuss the preparation of the Facility Completion Report (FCR); and
- (v) handover ADB's loan processing of the proposed follow-on project, Climate Resilient Main River Corridors Stabilization Project (CRMRCSP) to another ADB Mission leader.

2. The kick-off meeting was held on 23 April 2024. The Mission had extensive discussions with the PMO of BWDB and members of the institutional strengthening and project management consultant (ISPMC) team. The Mission also took the opportunity to meet with officials from the Embassy of the Kingdom of Netherlands (EKN) to update EKN of the status of the project and to discuss the possibility of cofinancing the proposed CRMRCSP. In addition, the Mission had a meeting with the Executive Director, Institute of Water Modelling (IWM) on 28 April 2024 and his team and briefly visited their facilities. A pre-wrap up meeting with the Ministry of Water Resources (MoWR) took place on 29 April 2024 and was chaired by the Additional Secretary (Development) of MoWR. A wrap up meeting with the Economic Relations Division (ERD) took place on 23 May 2024 and was chaired by the Additional Secretary, ADB Wing of ERD. The findings of the Mission were discussed during the pre-wrap up and wrap up meetings. The list of key persons met by the Mission is in **Appendix 1**.

3. This Aide Memoire summarizes the discussions held and understandings reached during the mission. The content of this Aide Memoire is subject to the approval of the higher authorities of the Government of Bangladesh and ADB. **The Mission kindly requests the government to confirm the understandings set out herein by 14 July 2024.**

¹ The Mission comprised Mr. Olivier Drieu, Mission Leader, Senior Water Resources Specialist, SG-AFNR; Mr. Yaozhou Zhou, Principal Water Resources Specialist, SG-AFNR; Ms. Kazi Akhmila, Safeguards Officer (Resettlement), OSFG; and Mr. Md. Sohel Rana, Project Analyst, BRM. Mr. Elbek Yusupov, Financial Management Specialist, PFFM2; Ms. Nasheeba Selim, Senior Social Development Specialist (Gender), BRM; Mr. Brando Angeles, Environment Officer, OSFG; and Ms. Rachel Mendinueto, Project Analyst attended the mission virtually. Mr. Md. Shibly Sadik, Senior Policy Advisor, IWRM, EKN also joined the mission virtually.

II. BACKGROUND – THE INVESTMENT PROGRAM

4. Approved by ADB on 26 June 2014, the Flood and Riverbank Erosion Risk Management Investment Program through a multitranche financing facility (MFF) aims at improving the livelihoods of people in the project area along the Jamuna, Padma, and Ganges rivers in Bangladesh. It will reduce flood and riverbank erosion risks in priority erosion reaches through structural and nonstructural interventions, and institutional and knowledge-based strengthening. It will implement three subprojects comprising climate-resilient flood embankments protecting critical riparian productive areas in central Bangladesh and capacity building initiatives. It will extend successful riverbank protection technologies of the ADB-financed Jamuna-Meghna River Erosion Mitigation Project to other areas, with necessary improvements. The executing agency is the Bangladesh Water Development Board (BWDB) under the Ministry of Water Resources (MOWR). The Department of Disaster Management (DDM) under the Ministry of Disaster Management and Relief is the implementing agency for the community-based flood risk management (CbFRM) activities.

5. The program was originally designed to be implemented over 9 years and financed in three tranches. However, due to Project 1 implementation delays and preparation of the subsequent tranches, exacerbated by coronavirus disease (COVID-19)–induced lockdowns, the government requested that the originally envisaged Tranches 2 and 3 of the MFF have been combined into a single and final tranche (Tranche 2) during the processing of Project 2 in 2021.² The Periodic Financing Request for Project 2 sent by ERD to ADB on 7 March 2021 included also a follow-on project covering the Lower Jamuna and Upper Padma Rivers to be prepared by the government simultaneously to the implementation of Project 2.³ The aim of this follow-on project will be the continuation of river stabilization efforts and expansion of flood risk management in line with the long-term strategic River Stabilization Plan study for the Jamuna, Padma and Lower Meghna Rivers (approved by BWDB on 24 June 2020) and the Bangladesh Delta Plan 2100. Subsequently to this request from ERD, the MFF availability period has been extended by ADB in April 2021, to its maximum of 10 years to complete the remaining activities under the MFF. **The MFF and Project 2 will both close on 26 June 2024.**

6. **Tranche 1 project (Project 1)** (Loan 3138/Grant 0396) was approved on 3 July 2014 for \$80.3 million,⁴ signed on 14 August 2014, and declared effective on 17 September 2014. Tranche 1 was completed on 31 March 2021 and financially closed on 24 October 2021.⁵ The following activities were completed under Tranche 1: (i) construction of a new 17.8 km riverbank protection works was completed using adaptive approach method; (ii) 21.3 km of flood protection embankment were completed considering 100-year probable flood and climate change issues; (iii) 40 community-based disaster management units (CbDMUs) operate disaster-resilience action plan against flood and erosion disasters with 100% of units led by women; (iv) four new regulators

² The Periodic Financing Request for Project 2 was sent by ERD to ADB on 7 March 2021 (ERD Memo No. 09.00.0000.124.24.028.17-46).

³ As agreed with the government in 2021, a follow-on project will prioritize the inclusion of outstanding components originally included in the scope of this MFF: 40 km of flood embankment and 23.5 km of wave protection with concrete blocks along riverbanks.

⁴ The loan amount was for SDR 41.755 million, equivalent to \$65 million at approval. A grant from GoN, fully administered by ADB, was approved with Loan 3138 for \$15.3 million. Due to currency fluctuations, the US Dollar equivalent of Project 1 loan decreased to \$58.2 million, resulting in activities being deferred to Project 2: (i) livelihood development support; (ii) community capacity development support for participatory O&M; (iii) information system development; (iv) environment management and risk mitigation programs; and (v) construction of about 1.7 km of flood embankment. At financial closing, a total of \$71.33 million has been disbursed.

⁵ The original loan closing date was 30 June 2019. It was extended twice: (i) until 30 June 2020, approved on 6 November 2018; and (ii) until 31 March 2021, approved on 28 May 2020.

were installed; and (v) the long-term strategic River Stabilization Plan study for the Jamuna, Padma and Lower Meghna rivers was approved by BWDB on 24 June 2020.

7. **Tranche 2 project (Project 2)** (Loan 4107/Grant 0799) was approved on 6 September 2021 for a concessional loan of \$157 million and a grant of \$17.89 million from the Government of the Netherlands (GoN), fully administered by ADB. ADB and the government signed the loan and grant agreements on 1 March 2022 which were declared effective on 18 April 2022. In 2023, based on the request of the government, \$30 million of the loan amount have been cancelled, effective since 14 November 2023. Project 2, along with the MFF, will close on 26 June 2024.

8. Key activities under Project 2 include: (i) 30 km of riverbank protection including specifically for the Salimabad river channel closure innovative dredging and bioengineering to provide an offtake into a distributary and enable to reclaim floodplain land and char land,⁶ (ii) 40 km of riverbank protection adaptation works and 6 km of emergency works, (iii) 7.9 km of climate-resilient flood embankment, (iv) an offtake, (v) two regulators, (vi) establishing 160 community disaster management units and developing their capacity, (vii) training 40 disaster units created under Project 1 to enhance sustainability, (viii) establishing 14 community groups for livelihood training programs, (ix) raising awareness on flood and riverbank erosion risk management, and (x) strengthening disaster preparedness and emergency response with a focus on women's participation. Also, Project 2 continues to strengthen the knowledge base and institutional capacity of BWDB and DDM in sustainable asset and strategic management of the rivers through the following activities: (i) support to the office of the Chief Engineer, River Management, BWDB, including drone surveys for O&M needs; (ii) river surveys; (iii) incorporation of knowledge products such as the River Stabilization Plan and site data on BWDB's website; and (iv) update of the river stabilization guidelines. Furthermore, ADB and GoN support the BWDB and through BWDB's consultancy firm (ISPMC package) in conducting a feasibility study for the adaptive stabilization of the Jamuna–Ganges confluence area for a follow-on project and the preparation before 26 June 2024 of the associated necessary draft processing documents by ADB and the government.⁷

9. Summary of the key milestone dates of the MFF, Project 1 and Project 2.

Table 1: Milestone Dates (amounts in \$ million)

Milestones	Amount	ADB Approval	Signing	Effective-ness	Original Loan Closing	Revised Loan Closing	Financial Closing	Disbursement as on 19 June 2024
MFF 0082	L: 255.00 G: 33.19 ^a T: 288.19	26 Jun 2014	12 May 2014 ^d	Not applicable	30 June 2023	26 June 2024	Due within 4 months after loan closing	L: 134.73 G: 22.12 T: 156.85
Loan 3138 / Grant 0396 (Project 1)	L: 65.00 ^b G: 15.30 T: 80.30	3 Jul 2014	14 Aug 2014	17 Sep 2014	30 Jun 2019	31 Mar 2021	24 Oct 2021	L: 57.12 G: 14.21 T: 71.33
Loan 4107 / Grant 0799 (Project 2)	L: 127.00 ^c G: 17.89 T: 174.89	6 Sep 2021	1 Mar 2022	18 Apr 2022	26 Jun 2024	Not applicable	Due within 4 months after loan closing	L: 77.61 ^e G: 7.91 ^f T: 85.52

G = grant, L = loan, T = total.

^a At approval of the MFF and Project 1, the GoN grant was \$15.3 million; an additional grant of \$17.89 million is provided by GoN for Project 2.

^b Refer to footnote 4.

⁶ An accretion in a river, the chars are valuable to the economy as additional cultivable areas.

⁷ Including the preparation of all necessary safeguard documents per ADB SPS 2009, draft DPP, etc.

^c Originally \$157 million; ADB approved on 16 January 2024 the cancellation of \$30 million from the loan account effective since 14 November 2023 which is the date ADB received the request from ERD.

^d Signing of Framework Financing Agreement.

^e Including advance fund of \$1.59 million.

^f Including advance fund of \$0.43 million and pending claims of \$0.11 million.

III. MISSION FINDINGS – IMPLEMENTATION STATUS

A. Progress to date

10. **Performance overview of Project 2. As of 19 June 2024, the physical and financial progress of Project 2 were about 99% and 83%**, against projected financial progress of about 96% and elapsed project time of 99%. Contract awards amount to \$104.71 million (74.22% of the baseline target in ADB system) and cumulative disbursements amount to \$85.52 million (100% of the baseline target in ADB system). In the ADB system, the rating for achieving outputs is currently for attention, while financial management and safeguards are on track. Table 2 shows the summary of the awarded packages excluding government share. The detailed monitoring sheet per contract for the loan and grant is in **Appendices 2 and 3**.

Table 2: Summary of Loan and Grant share of the Awarded Packages (as of 19 June 2024)

Packages	ADB Share of Awarded Contracts (\$ million)	GoN Share of Awarded Contracts (\$ million)	Total (\$ million)
Goods	57.40	-	57.40
Works	31.83	1.13	32.96
Consulting Services	2.15	11.64	13.79
Non-consulting Services	0.20	-	0.20
ADB administration fee provision	-	0.35	0.35
Total	91.58	13.12	104.71*

*including ADB administration fee.

Total may not sum up precisely due to rounding.

Source: ADB L/GFIS.

11. Structural measures – progress of the works at the 3 subprojects.

Table 3: Status of Goods and Works Progress at the 3 Subprojects (as of 19 June 2024)

Package	Description	Estimated price in DPP (BDT mil.)	Contract Price (BDT mil.)	Current Status/ Progress	Completion/ Intended Completion date	Final Invoice Payment made?
GOODS						
G-01	Geotextile bag supply for upstream Chauhali (15.50km)	2350.00	22700.00	100%	13 Mar 2024	Not yet (autoclave test pending)
G-02	Geotextile bag supply for Enayetpur (7 km) & Benotia (3.50km)	1245.95	1145.327	100%	24 Jun 2023	
G-03	Geotextile bag supply for Harirumpur Extension (4km)	564.016	564.016	100%	10 Oct 2023	

Package	Description	Estimated price in DPP (BDT mil.)	Contract Price (BDT mil.)	Current Status/ Progress	Completion/ Intended Completion date	Final Invoice Payment made?
G-04	Geotextile bag supply for Adaptation Works of completed works under JMREMP & FRERMIP Project 1	750.052	750.052	100%	28 Oct 2023	
G-05	Geotextile bag supply for Adaptation Works of FRERMIP Project 2	621.80	425.41	100%	22 May 2024	Not yet due
G-06	PMO-BWDB Office equipment	2.744	2.744	100%	14 Jun 2023	Yes
G-08	DDM Office Equipment	0.451	0.43	100%	6 Feb 2024	Yes
G-09	Supply of Geotextile bags for Underwater Riverbank Protection at u/s Enayetpur (Belkuchi) -3.00 km (km 1.30 to km 4.30)	339.10	Original: 293.65 Revised: 323.02	100%	14 Mar 2024 31 May 2024	Not yet due
G-10	Supply of Geotextile bags for Underwater Riverbank Protectin with geotextile bags at u/s of Old Dhaleshwari offtake -2.30 km	381.70	356.15	100%	18 Mar 2024	Not yet (oxidation test reports pending)
G-11	Supply of Geotextile bags for underwater Riverbank protection with geotextile bags at d/s of Salimabad-3.00 km in Nagarpur Upazila (km - 9.880 to km -12.880)	472.90	443.367	100%	19 Mar 2024	Not yet (oxidation test reports pending)
G-12	Supply of Geotextile bags for underwater Riverbank protection with geotextile bags at d/s of Salimabad-3.00 km (in between km -12.880 to km -15.800, including 500 meter end termination)	296.90	Original: 253.495 Revised: 291.206	100%	06 Mar 2024 30 Apr 2024	Not yet (test reports pending)
G-13	Supply of Geotextile bags for Underwater Riverbank Protection with geotextile bags at d/s of Maluchi (1 km)	212.06	209.75	100%	20 Feb 2024	Not yet (oxidation test reports pending)
WORKS						
W-01	Underwater riverbank protection with geotextile bags at Benotia- 3.50 km	216.72	Original: 210.1 Revised: 216.719	100%	04 January 2024	Not yet (SMO final check)
W-02	Underwater riverbank protection with geotextile bags at Enayetpur- 7.00 km	314.49	314.4	100%	04 March 2024	Not yet (SMO final check)
W-03	Underwater riverbank protection with geotextile bags at Upstream Chauhali- 7.50 km	325.0	Original: 359.7 Revised: 280.48	100%	31 May 2024	Not yet (SMO final check)
W-04	Underwater riverbank protection at Upstream Chauhali- 8.00 km with geotextile bags, including 1.00 km of dredging on the underwater slope	535.00	Original: 624.1 Revised: 532.1	100%	31 May 2024	Not yet (SMO final check)
W-05	Underwater riverbank protection with geotextile bags extension at Harirampur- 4.00 km	252.65	Original: 220.18 Revised: 252.64	100%	26 February 2024	Not yet (SMO final check)
W-06	Adaptation Works for riverbank protection with geotextile bags of	357.42	357.42	100%	14 June 2023	Yes

Package	Description	Estimated price in DPP (BDT mil.)	Contract Price (BDT mil.)	Current Status/ Progress	Completion/ Intended Completion date	Final Invoice Payment made?
	completed works under JMREMP & FRERMIP Tranche-1 Project					
W-07	Adaptation Works for riverbank protection with geotextile bags of FRERMIP Project-2	409.35	Original: 275.86 Revised: 310.6	100%	31 May 2024	Not yet (SMO final check)
W-08	Pilot Land Recovery/ Jamuna River dredging and Salimabad channel choking	0.500	N/A	Not feasible due to morphological changes	N/A	N/A
W-09	Emergency works	240.00	Original: 234.246 Revised: 227.07	100%	29 February 2024	Not yet (SMO final check)
W-10A	Shahjadpur Embankment Construction from chainage 21.300 to 23.830 (2.53 km)	106.53	96.71	68%	26 June 2024 (depends on land acquisition progress – will not be completed)	Not yet
W-11	Maintenance works for 21.30 km. Tranche-1 Embankment.	85.302	69.92	100%	30 June 2023	Yes
W-16	Construction of O&M sheds for Kojuri embankment (3 sheds)	8.22	7.86	100%	26 November 2023	Yes
W-21	Underwater Riverbank Protection with geotextile bags at u/s Enayetpur (Belkuchi)- 3.00 km (km 1.30 to km 4.30)	240.30	Original: 169.30 Revised estimate: 185.50	100%	26 June 2024	Not yet due
W-22	Underwater Riverbank Protection with geotextile bags at u/s of Old Dhaleshwari offtake -2.30 km	246.4	Original: 175.76 Revised: 201.9	100%	15 May 2024	Not yet (SMO final check)
W-23	Underwater Riverbank Protection with geotextile bags at d/s of Salimabad- 3.00 km in Nagarpur Upazila (km - 9.880 to km -12.880)	301.60	205.85	100%	15 May 2024	Not yet (SMO final check)
W-24	Underwater Riverbank Protection with geotextile bags at d/s of Salimabad- 3.00 km (in between km -12.880 to km -15.800, including 500 meter end termination)	317.00	203.17	100%	15 May 2024	Not yet (SMO final check)
W-25	Underwater Riverbank Protection with geotextile bags at d/s of Maluchi- 1.00 km (km 4.9 to km 5.9)	156.53	Original: 93.21 Revised: 114.54	100%	15 May 2024	Not yet (SMO final check)
W-26	Additional Emergency Works	442.31	Original: 228.33 Revised estimate: 172.50	100%	26 June 2024	Not yet due

Source: PMO and ISPMC.

12. **Start-up delays experienced on the goods packages.** Works started late for two reasons outside of the control of the project: (i) a special clearance on a newly GoB imposed ban on the import of geotextile material was required from the Commerce Ministry for the two largest goods contracts, won by suppliers located outside of Bangladesh; and (ii) the delayed opening of back-to-back Letters of Credit because government needed to restrict the outflow of foreign exchange, for the Bangladesh based suppliers. Therefore, geotextile bags (geobags) only arrived at the work sites in March 2023. All contract packages are expected to be completed before loan closure.

13. **Works progress and current issues with contractors.** Despite only starting construction activities in March 2023, the contractors were able to work well into June 2023 because of the late monsoon onset. They were then also able to resume work in October 2023, about three months earlier than would have been possible in a typical year. Construction activities progressed at a record pace between October 2023 and end March 2024 reaching a peak of around 10 km of geobags revetments emplaced in a single month. The additional works contracts agreed to during the mid-term review mission (May 2023) also performed remarkably well and all the underwater works are expected to be completed before mid-June 2024. At the time of the mission, only one goods contract (G-05) and three works contracts (W-03, W-10A, W-26) were performing more slowly than expected. The supplier of G-05 delayed procurement of raw material, which impacted the manufacturing and delivery schedule. The W-03 and W-26 contracts are currently performing poorly (same contractor group) while W-10A completion depends on the ongoing land acquisition process. However, PMO, SMOs and ISPMC are working closely with these contractors to support completion of the work by 20 June 2024, ahead of the physical closure of Project 2 on 26 June 2024.

14. The construction of 7.9 km of flood embankment is needed to complete subproject PLB-1. The acquisition process for 30 ha of land and the updating of the associated resettlement plan were undertaken in good time. However, the high workload in the DC's office combined with a shortage of available government funds necessitated a reduction of the embankment length to 2.5 km. Some land was acquired under Project 1, hence 1.6 km of embankment are currently very near completion and expected to be completed by mid-June 2024. The remaining 830 m of embankment requires 4.52 ha of land. At the time of the mission, the acquisition process was with the Ministry of Land for their final approval, and approval was subsequently provided on 16 May 2024. The contractor is efficient and if the DC office finalizes their cost estimate and obtains the funds from the Ministry of Finance by 7 June 2024, embankment construction (830 m) is expected be completed by 26 June 2024. As the embankment length was reduced, the construction of the ancillary regulators and fish passes were cancelled. The Mission reminded the PMO and the government that any works that cannot be fully completed before the physical closure of Project 2 on 26 June 2024 will have to be completed and financed solely with government funds.

15. **Technical issue related to Salimabad channel closure.**

- (i) As documented in the Aide memoire of the Mid-term Review mission, the originally planned closure of the Salimabad channel had to be replaced with the construction of 6 km of underwater riverbank protection.
- (ii) The closure of a channel, as planned under Project 2 has been shifted to the North-Dhaleswari channel, which flows behind some 6 km of new riverbank protection works (built under W-09 and W-04 packages). The closure of this channel (through package W-26) contributes to some 2,400 ha of land reclaimed from the river corridor of 2004 at the time stabilization works started under JMREMP.

16. **Nonstructural measures progress.**

- (i) The ISPMC package contract, signed between BWDB and the consultancy firm on 21 August 2022, was extended to 26 June 2024. The ISPMC package broadly includes (i) providing support to PMO and SMOs; (ii) developing knowledge-based elements pertaining to integrated river stabilization planning; and (iii) preparation of a follow-on project. A final variation order is under preparation to reallocate some of the funds as required.
- (ii) The MoU between BWDB and DDM was signed on 6 February 2023 for activities to be carried out by DDM under Project 2. The consulting package (C-02 merged with C-03) was advertised on 4 July 2023 and ADB concurred on the bid evaluation report on 22 January 2024. The contract was signed on 14 March 2024.
- (iii) The land acquisition and resettlement process needs to be completed prior to the start of the construction of the remaining 0.83 km out of 7.9 km of flood embankment in subproject JRB-1. PMO has engaged a resettlement NGO to assist with the implementation of the resettlement plan, including livelihood activities, also covering deferred Project 1 activities (combined packages C-10 and C-04 into C-10). C-10 package, advertised on 10 July 2023, was awarded on 29 February 2024.

Table 4: Progress of the Consulting Services Packages (as of 19 June 2024)

Package	Description	Estimated price in DPP (BDT mil.)	Contract price (BDT mil.)	Current Status/ Progress	Intended Completion date
C-01	Institutional Strengthening and Project Management Consultant (ISPMC)	1276.72	1276.38	97%	26 Jun 2024
C-02	Community-based flood risk management (CbFRM) support	100.00	29.39	98%	
C-05	River survey (including bathymetric, ADCP and float tracking) and multi beam echo sounder survey and bathometric survey of the distributaries	149.18	Original: 144.10 Revised: 143.62	98%	
C-08	Erosion prediction	17.30	17.24	98%	
C-10	Resettlement solution through NGO	41.00	12.62	80%*	
C-17	External monitoring of social safeguards (national)	4.00	2.91	95%	
C-18	External monitoring of environmental safeguards (national)	4.00	2.74	95%	
C-19	External monitoring of procurement activities (national)	4.00	2.11	95%	
C-21	Procurement specialist (national)	10.00	6.90	98%	

* Scope of work unlikely to be completed by project closure

NGO = non-government organization, O&M = operations and maintenance.

17. **The follow-on project - Climate Resilient Main River Corridors Stabilization Project (CRMRCSP).** The progress of the preparation of the CRMRCSP was briefly reviewed by the Mission, PMO and ISPMC. The processing of the CRMRCSP has been handed over during the mission to Mr. Yaozhou Zhou, Principal Water Resources Specialist, SG-AFNR, who is the new ADB Project Officer for the processing of the proposed project. The preparation, included under the ISPMC package, is about 80% of draft completion of the documentation, with about 80% progress. The status of the loan processing documentation is in Table 5.

Table 5: Status of Loan Preparation and Processing Draft Documents

Document Name	Status of the Draft
Safeguards:	
EIA Main Report	90% complete. Feasibility results needed to finalize.
Climate Resilience Assessment and Annexes	90% complete.
REA and Checklist Climate Risk Screening	Draft final complete.
CCA and PAA	Draft final complete.
PCDRS (Climate Risk Screening)	Complete.
RP - Aricha to Bachamara	Complete. Two RPs complete except for consultation meeting notes.
GAAP	Draft Complete
SPRSS	Initial draft complete. Sections need rewriting.
Financial Management:	
FMA	Draft complete.
Procurement:	
Strategic Procurement Assessment	70% complete.
Procurement Plan	70% complete.
Others:	
Project Concept Note	Draft complete except for economic analysis.
Sector Assessment	Complete.
DMF	Draft complete.
RARMP	Not started.
PAM	Not started.
RRP	Not started.
Engineering Design:	
Site Selection Report	Final Report Completed and submitted to BWDB.
2023 Morphology Assessment	Complete and submitted to BWDB.
Numerical Modelling:	
River Model (for site selection)	Complete.
Flood Model (for structure designs and impacts)	Complete.
Numerical Modelling Report	90% complete.
Design Basis Report	Complete and submitted to BWDB.
Detailed Design Report	85% complete.
Feasibility Study:	
Agricultural Impact Assessment	85% complete.
Financial and Economic Assessments	70% complete.
Main Feasibility Report	85% complete.
BWDB Project Concept Discussions	
21-Feb-24	Meeting chaired by the ADG Planning
03-Apr-24	Meeting chaired by DG
18-Apr-24	Meeting chaired by DG
IEE (for Government)	
Government Development Project Proposal (DPP)	In progress. Draft to be completed by end June 2024.

Source: ISPMC.

B. Procurement matters

17 **Overview.** During the Mid-term Review mission in May 2023, several packages were cancelled due to large-scale unforeseen morphological changes in the Salimabad channel closure and the limited remaining time. These include: one goods package, 10 works packages, and 15 consulting services packages. However, a few other packages were added to maximize the use

of the loan and grant available funds. Overall, there was a total of 38 packages (12 goods; 17 works; and 9 consulting services) after updating the procurement plan and all these packages were already awarded at the time of the mission. The detailed monitoring sheet per contract for the loan and grant is in **Appendices 2 and 3**. During the mission, the Mission received from the PMO the variation copies of the following packages: C-01, C-05, G-12, W-22 and W-25. The Mission will update the corresponding contract records in ADB system to reflect the increase/decrease of these contracts.

18 **Works.** Works comprise of 17 packages that were procured using the e-government portal (e-GP) method. These are for riverbank protection works (10 packages for underwater riverbank protection works, 2 packages for adaptation works, 2 packages for emergency works, and 1 package each for embankment construction, embankment maintenance, and O&M sheds). At the time of the mission, three works packages (W-06, W-11, W-16) were already completed and the final payment made; four packages (W-01, W-02, W-05, W-09) were completed and awaiting final payment; eight packages (W-03, W-04, W-07, W-21, W-22, W-23, W-24, W-25) were anticipated to be completed by 31 May 2024, while the remaining two packages (W-10a, W-26) by 15 June 2024.

19 **Goods.** Of the 12 goods packages, two packages (G-06 and G-08) were already completed and fully paid, seven packages (G-01, G-02, G-03, G-04, G-10, G-11 and G-13) have been completed but PMO is currently awaiting test results to initiate final payment, one package (G-12) was expected to be completed by 30 April 2024 and another package (G-09) by 31 May 2024, while the delivery is delayed for package G-05, but is expected to be completed by 14 June 2024.

20 **Consultancy services.** The procurement of consultancy services is carried out by PMO for eight packages and by DDM PMU for one package. All packages have been awarded and will be completed by 26 June 2024.

21 **C-01 ISPMC package** runs now until 26 June 2024 to ensure that the PMO will have full support until the end of the project on 26 June 2024. In addition, to support the development of a new design guideline and increase the understanding of the BWDB design office on the behavior of launching aprons, including the need for strengthening works after deployment ('adaptive works'), the ISPMC is conducting physical hydraulic model studies on the aspects of launching and stability of geobags from remaining contingencies under their contract. The model study is financed with the contingencies of the ISPMC contract (formalized through Variation Order #2).

22 **Activities under DDM.** The contract with the Center for Natural Resource Studies (CNRS) for package C-02: Community-based flood risk management (CbFRM) support merged with package C03: Community capacity development support for participatory O&M support was signed on 14 March 2024. The delayed procurement was similar to the Project 1 experience, and has left very little time to implement this package. The PMU of DDM, CNRS, together with the support of ISPMC, are doing their best to complete the tasks and meet the target indicators in the DMF (160 community-based disaster management units established; and 14 community groups established and livelihood training program conducted). However, the very limited remaining time prevents all community-based disaster management units from being established, hence this indicator will not be fully achieved.

23 **Post (Sampling) Review.** On 23 October 2023, PMO informed ADB that contract award had reached more than 30% equivalent of total ADB financing amount, enabling ADB to start conducting random post sampling reviews of procurement processes and contract awards at any time. It was agreed during the Mid-term Review mission that the External Monitor Consultant for

Procurement will undertake the post sampling reviews. The contract with the External Monitor for Procurement was signed on 7 February 2024. At the time of the mission, the External Monitor has completed the post sampling review of the goods packages. The draft report was provided to the Mission on 27 April 2024 for review and no major issues were noted. For the works packages, the post sampling review is progressing for the agreed packages W-02, W-06, W-09, W-10a, W-11 and W-24. It is anticipated that review of the works packages will be completed, and draft report submitted to ADB by 26 June 2024. The Mission reminded PMO that if any of the post-review packages are assessed by ADB as non-eligible for ADB financing, ADB may refuse to finance that particular package, which would then have to be financed entirely by the government. The PMO informed the Mission that CPTU is also undertaking a post sampling review of 6 packages (goods and works).

24 **Procurement Plan.** During the mission, the PMO and the Mission reviewed the status of all the packages listed in the procurement plan. The Mission will update the procurement plan to reflect the following changes agreed with PMO:

- a. Split package W-10 into W-10a and W-10b following PMO's request by email on 15 October 2023, for which ADB's non-objection was provided on 19 October 2023, the revised plan was received on 31 December 2023 and will be reflected in ADB system;
- b. Delete package W-10b as it cannot be carried out any more due to the time required for land acquisition (PMO informed the Mission that the government plans to allocate the required funds in the next fiscal year and acquire the land in preparation of the CRMRCSP follow-on project); and
- c. Move all packages currently under active to awarded or completed.

C. Project management matters

25 **Project implementation arrangements.** The Project Steering Committee oversees project implementation, guides, and resolves implementation issues that require higher level interventions. A Dhaka-based PMO is established within BWDB to implement the project, apart from the CbFRM activities undertaken by DDM. There are three Subproject Management Offices (SMOs), one for each of the subprojects (Kaitola, Tangail and Manikganj). A PMU is established in DDM to implement the CbFRM-related activities. In March 2024, the Technical Committee visited the sites of the subprojects and decided on latest adjustments reflecting recent morphological changes.

26 **PMO/SMO Staffing.** The Mission reviewed with the PMO the status of staffing assignment and recruitment status of the staff positions and officers in the PMO and SMOs. **Appendix 4** is the current status of the staffing requirement.

27 **Position of Chief Engineer (CE) River Management for main rivers of central Bangladesh.** The position of CE, River Management has been filled full time by BWDB since 28 May 2023. The Mission reminded the PMO that the expected CE River Management's role and responsibilities are *inter-alia* to (i) move forward/promote the BWDB-approved River Stabilization Plan (developed under Project 1); (ii) take the leading role in coordinating all river stabilization activities ongoing and planned by the government and different development partners (ADB, GoN, JICA (on a few tributaries), World Bank (in the north), and other multilateral and bilateral agencies as applicable). The PMO informed the Mission that the Office of the CE River Management is actively participating in development work related to river stabilization. This entails leading or participating in the Technical Committee, round table discussions pertaining to river management issues, and the discussions on the proposed ADB-financed follow-on project. The Mission was informed that the Office of the CE has 7 staff, including 3 female staff. ISPMC has continued to develop the

capacity of the Office of the CE River Management including for the Office of the CE River Management to plan for a national FRERMIP workshop in August 2024 during which the achievements of the 10-year FRERMIP will be presented as well as a summary of the river stabilization activities undertaken and future needs, and the latest results from updating the River Stabilization Plan and an overview of the proposed follow-on project and its preparation. ISPMC is finalizing an updated 5-year Monitoring, Evaluation, Adaptation and Maintenance Plan for the CE River Management to consider for a framework DPP with block allocation of funds for river reaches (starting with the Lower Jamuna).

28 **Training.** During the mission, the Mission provided concurrence for BWDB staff to attend two (residential) training programs: (i) land acquisition and social safeguard and (ii) procurement and contract management. The proposed training will be conducted by the Development and Safeguard Consultants Ltd by 26 June 2024. Other technical training is ongoing, partly conducted through PMO, and partly with ISPMC resources.

29 **Contract Award (CA) and Disbursement (D).** The Mission and the PMO reviewed the CA and D actuals and projections till closure of the project on 26 June 2024. Table 6 shows the cumulative CA and D as of 19 June 2024, while Table 7 shows the projected and achieved CA & D for 2024.

Table 6: Actual Cumulative Contract Awards and Disbursement (as of 19 June 2024)

Year	Contract award (\$ million)					Disbursement (\$ million)				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
2022	-	21.65	12.45	20.26	54.36	-	-	-	17.95	17.95
2023	14.96	6.17	0.10	16.84	38.09	0.30	14.25	12.63	7.76	34.93
2024	12.04	0.22	-	-	12.26	16.72	15.92			32.64
				TOTAL	104.70				TOTAL	85.52

Total may not sum up precisely due to rounding.

Source: ADB.

Table 7: 2024 Contract Awards and Disbursement (as of 19 June 2024)

Indicators		2024				
		Q1	Q2	Q3	Q4	Total
Contract Award (\$ million)	Target	10.50	3.50	-	-	14.00
	Achieved	12.04	0.22	-	-	12.26
	Balance (Achieved – Target)	1.54	(3.28)	-	-	1.74
Disbursement (\$ million)	Target	8.50	15.00	18.00	-	41.50
	Achieved	16.72	15.92	-	-	32.64
	Balance (Achieved – Target)	8.22	0.92	-	-	9.14

Source: ADB.

30 **Reasons for start-up delays and low CA and D progress.** The project experienced start-up delays at its onset as the government categorized the project as C (i.e., no counterpart funds available) in mid-2022; hence during this period, PMO was not able to award any contracts. Subsequently, the project was recategorized as B (i.e., 75% of counterpart funds) later in 2022 by the government. During the February 2023 Inception mission, the Mission received assurances

from the PMO and MoWR that counterpart funds are fully available for this project for the current FY and next FY (ending in June 2024), however during the Mid-term Review mission in May 2023, the Mission was informed that counterpart funds were still insufficient, especially to cover (i) GoB's share of some invoices; and (ii) some costs pertaining to the land acquisition needed to construct the 7.9 km flood embankment, resulting in a reduction of the length of the embankment to now 2.5 km. However, there is still an administration delay regarding the remaining 4.52 ha of land to be acquired to build 0.83 km of embankment. Another reason of low CA and D to date is that bids of geobags and works packages received and awarded were about 5% to 62% lower than the engineer's estimates exacerbated for a few goods packages by the government ban on import of geotextile into Bangladesh and delays in opening back-to-back letters of credit. Furthermore, since the cost estimates prepared in 2020/21, significant USD/BDT currency fluctuations have occurred (i.e., \$1 = 84.7 BDT in 2021 compared to about \$1 = 117.5 BDT as of 17 June 2024) resulting in a depreciation of about 38.7% of the value of the BDT compared to the USD. All goods and works contracts are denominated in BDT, which means that loan disbursements are less than expected. The Mission fully recognized that the USD/BDT currency fluctuations are fully outside of the project control.

31 **Savings on the loan and grant.** Based on the above and further to the Salimabad channel closure not being technically feasible anymore (value of W-08 and W-17 and ancillary packages (W-12 to W-15 and W-18) of about \$30.4 million), the PMO estimated at the time of the Mid-term Review mission that 'savings' on loan were about \$70 million (including the amount of \$27 million for contingencies in the overall project financing plan very unlikely to be needed). At the request of GoB, a partial cancellation of \$30 million of the loan proceeds was made and has been effective since 14 November 2023. During the Mid-term Review mission agreement was reached that the PMO would undertake additional riverbank protection works to maximize the use of the remaining loan proceeds before the loan closure of Project 2 and of the MFF on 26 June 2024. However, despite the additional works, the PMO and the Mission estimated that about \$25 million will remain unused under Project 2. Also, despite the Mission and EKN having agreed at the time of the Mid-term Review mission for EKN to cofinance additional packages than these originally planned, it is estimated by the PMO that there are about \$6.5 million of savings on the grant (subject to currency uncertainties) by Project 2 closure. Table 8 provides details of the expected total expenditure of the packages financed under the GoN grant.

**Table 8: Expected Expenditure under the GoN grant at Project Closure
(as of 19 June 2024)**

Item	Expenditures up to 19 June 2024 (\$ million)	Expected expenditure during the remaining duration (\$ million)
Civil works	0.74	0.33
ISPMC	5.33	3.77
Survey and investigation	0.39	0.30
PMO support expert	0.03	0.01
ADB administration fees	0.00	0.22
Resettlement	0.00	0.06
External monitoring	0.01	0.02
Sub-total	6.50	4.71
Total expected GoN grant expenditure		11.21
GoN grant (including ADB administration fee)		17.89
Potential savings (including ADB administration fee)		6.69

32 **Partial cancellation of \$30 million on the current (concessional) loan.** At the request of GoB, a partial cancellation of \$30 million of the loan proceeds was processed and has been effective since 14 November 2023.⁸

33 **Financial management action plan implementation.** The Mission and the PMO reviewed the status of the financial management time-bound action plan of the PAM (page 32). The details of the status are reflected in **Appendix 5** whilst the key points are summarized below.

- (i) **Staffing.** At the time of the mission, 1 accounting officer has not yet been assigned to assist the PMO accounting office, while 3 staff have been provided by ISPMC. PMO should ensure that at least 3 accounting staff (either BWDB staff or outsourced ones) are timely assigned until the end of the Project.
- (ii) **Internal audit.** It was agreed during the Mid-term Review mission that PMO would submit a letter to Director Audit by 15 June 2023, however to date, this was not yet undertaken. The Mission respectively discussed and agreed that the PMO is to ensure to include the project in the BWDB audit plan. It was agreed that the letter will be submitted to Director Audit by 15 May 2024 requesting for internal audit to take place in August or September 2024. The confirmation by PMO that this action was undertaken has not been received as of 19 June 2024.
- (iii) **Financial reporting.** The Mission reminded PMO to include the financial information (including variances) in the quarterly project reports (QPRs) and the project financial statements in the annual report, and to ensure to submit to ADB the required APFS prior to the deadline. The Mission reminded PMO that (i) an audit report is required for 2024 to be submitted to ADB by 31 December 2024 and (ii) PMO is to provide a more comprehensive reporting for QPRs.
- (iv) **Information systems.** The Mission also highlighted the issue that at the time of the mission the PMO was yet to purchase an accounting system for project needs. The Mission reiterated the importance of automating the project transactions, accounts and reports under the loan and grant. It was agreed that (i) PMO will immediately move to accounting software; (ii) PMO will purchase the accounting software by 10 May 2024; (iii) ISPMC will provide the necessary training; and (iv) ISPMC will provide the data entry specialist/operator to initiate data entry before 26 June 2024.

34 **Timely payment of invoices and closing of contracts.** The Mission noted that PMO has recently reduced some of the backlog of invoices for review and approval as more accounting staff have been engaged either directly or through the support of ISPMC. However, as physical and financial closure of Project 2 are fast approaching, the Mission requested that the PMO (i) expedites the recruitment/assignment of more accountants to their team; (ii) reviews and pays invoices timely; and (iii) closes as many contracts as possible.

35 **Project financial closure.** The Mission explained to the PMO all aspects related to project financial closure and requested PMO to ensure that all invoices (for goods accepted and services delivered by the project closing date) will be paid by the PMO before 15 October 2024 and that all WAs will be submitted to ADB by 15 October 2024 (i.e. 15 days maximum before the end of the winding-up period). The Mission also reminded the PMO that the GoN grant also closes financially on 31 October 2024, so, no GoN funds will be available beyond 31 October 2024. All invoices with a GoN share will also have to be submitted to ADB by 15 October 2024 at the very latest.

⁸ A loan amendment letter was sent by ADB to ERD on 14 May 2024 for ERD to counter sign and return to ADB. ADB is currently awaiting ERD's concurrence to the loan amendment.

36 **Audited Project Financial Statement (APFS).** APFS for fiscal year 2022 was agreed by ADB to be deferred since the project became effective only in April 2022 and no expenses were incurred up to the end of the fiscal year. The PMO submitted the APFS for fiscal year 2023 in early January 2024 which was reviewed by ADB. The PMO informed that 4 of the 6 audit observations received on the most recent APFS have been already addressed. The Mission reminded PMO that the next APFS is due in December 2024.

37 **Progress towards achieving the DMF targets and outcome and current risks.** The current status of the DMF indicators for the outcome and outputs of the project are in **Appendix 6**. Progress towards the outcome indicators indicate that only 2 out of 4 indicators will be achieved, while 2 indicators for the three outputs are currently at risk of not being achieved fully and 2 indicators will not be achieved:

- (i) Output 1b. 7.9 km of climate-resilient flood embankment constructed, rehabilitated, or upgraded against 100-year probable floods, reduced to 2.5 km due to the limited counterpart funds availability for the land acquisition.
Main current risks: land acquisition process for the remaining 4.52 ha (ie:0.83 km of embankment) was approved by Ministry of Land on 16 May 2024 but its completion will be delayed as of 19 June 2024, the DC office has not informed Ministry of Finance of their cost estimate. The funds were only received on 24 June 2024. This indicator will not be fully achieved.
- (ii) Output 1c. 2 regulators and other hydraulic structures (i.e., fish passes) installed.
Main current risk: this indicator will not be achieved as the length of the embankment has been reduced by the PMO from 7.9 to 2.5 km, the regulators and ancillary hydraulic structures are not needed.
- (iii) Output 1e. 160 community-based disaster management units established (minimum of 35% women-led) and developing of their capacity.
Main current risk: The 40 units under Project 1 complied with this criterion and activities are ongoing to establish additional units complying with this criterion. However, the total target of 160 units will not be achieved.
- (iv) Output 1g. 12 fish sanctuaries established.
Main current risk: This indicator will not be achieved as the selected wetlands earlier on under Project 2 have been leased to the local population through the Deputy Commissioner. This prevents the transfer of land to the Department of Fisheries to establish sanctuaries.

38 **Road map of the MFF and policy framework review.** The Mission reviewed with the PMO the policy framework adopted by the government which defines the actions, responsibilities, and targeted timeframe of implementation under the ADB's investment program. The road map and policy framework is well on track to be fully achieved. The detailed current status of the road map and policy framework is in **Appendix 7**.

39 **Loan covenants review.** The Mission reviewed the compliance with the loan and grant covenants (per Schedule 4 of the Loan Agreement and Article IV of the Grant Agreement) and the status at the time of the mission is recorded in **Appendix 8**. For the loan, the Mission noted compliance with 35 covenants to be satisfactory, four have been complied with (clauses 3, 4, 7 and 12), one is substantially complied (clause 2), and three are not yet due (clauses 11, 18c and 25). For the grant, three are currently being complied with and one is not yet due. The Mission

reminded PMO to closely monitor regularly the status of all covenants and ensure full compliance throughout the project implementation period.

40 **Reports and Disclosure Requirements.** The PMO is to submit to ADB the following reports: (i) quarterly progress reports (QPRs) continuous until financial closure; (ii) semi-annual social safeguard monitoring reports continuous until financial closure; (iii) annual environmental monitoring report starting from July 2024; and (iv) a project completion report (FCR) within 6 months of physical completion of the project (ie: the FCR is due to be submitted to ADB by 26 December 2024, however the Mission requested for the FCR to be submitted to ADB shortly after the financial closure would be effective (ie: submission of the FCR by 15 November 2024 at the very latest) as the contents of the FCR will inform the design of the follow-on project and support its processing).

41 **Facility Completion Report (FCR).** The FCR is to combine in a single integrated document the achievements of both tranche projects (ie: Projects 1 and 2) undertaken under this time-sliced MFF. The preparation of the FCR is included in the ToR of the ISPMC package. The Mission, the PMO and ISPMC discussed in detail the contents of a FCR and its appendices which are to be prepared accordingly to the ADB template⁹ and the ADB Guidelines for the Evaluation of Public Sector Operations¹⁰ that the Mission provided ISPMC with. The Mission reminded the PMO that the FCR is to be submitted to ADB within 6 months of physical completion of Project 2 and the MFF (ie: FCR is to be submitted to ADB by 26 December 2024), however the Mission requested the PMO for the FCR to be submitted to ADB shortly after the financial closure would be effective (ie: submission of the FCR by 31 October 2024 latest) as some of the contents of the FCR (such as lessons learnt from the 10-year facility, etc.) will inform the design of the follow-on project and support to some extent its processing). Per their ToR, the ISPMC was to submit to PMO (with copy to the Mission) a draft FCR by 31 May 2024 for PMO's review. The PMO informed the Mission that the Project Completion Report (PCR) of Project 2 to be prepared by the PMO for the government is due in 2026 as the DPP is valid till end of December 2025.

42 The reporting requirements of the PMO are summarized in Table 9.

Table 9: Reporting Requirements

Report	Frequency (Due Date)
Quarterly Progress Report (including GAP implementation progress)	Quarterly (30 days from end of previous quarter) (Continuous until financial closure)
GAP Quarterly Progress Report	Quarterly (15 days from end of previous quarter) (Last report to be submitted by 15 June 2024)
Environmental Monitoring Report	Semi-annual (31 January and 31 July) (Continuous until financial closure; but only annual report will be submitted after project closure)
Social Safeguards Monitoring Report	Semi-annual (31 January and 31 July) (Continuous until 31 Dec 2025; last report due on 31 Dec 2025)
Audited Project Financial Statements	Within 6 months of end of fiscal year
Consolidated Annual Report	Annually (31 January) (Not needed for FY 2024)
Facility Completion Report	Within 6 months of physical completion of the project (26 Dec 2024)

⁹ [PCR Standard.docx](#)

¹⁰ [Guidelines for the Evaluation of Public Sector Operations | Asian Development Bank \(adb.org\)](#)

43 Project management information system (MIS) and asset management system (AMS). The PMO informed that databases forming part of the MIS and the webpage are currently transferred to the BWDB system. The transfer is expected to be completed by 15 June 2024.

D. Environment and Social Safeguards

44 The project is categorized as A for Environment, A for Involuntary Resettlement, and C for Indigenous Peoples. The Mission reminded the PMO of the contractor's roles and responsibilities for implementing ADB's Safeguard Policy Statement, 2009 (SPS), as per the loan agreement.

45 **Environmental safeguards.** For all awarded contracts under Output 1, PMO and SMOs are currently ensuring implementation of environmental management plan (EMP) set forth in the environmental impact assessment (EIA) and its Addendum for the additional works. With support from ISPMC, PMO has undergone awareness trainings for SMOs of Tangail, Koitola and Manikgonj to build capacity on managing environmental, health and safety risks.

46 **Addendum to the EIA for the additional works.** The Salimabad channel closure works and construction of offtake structure Ghior khal were removed from Project 2 scope, enabling for 17.5 km of additional riverbank protection works. An addendum to the EIA for these additional works was submitted to ADB. The document has environmental management plan, discussions of environmental baseline information, and results of the public consultations. The impact assessment for the additional riverbank protection works considers the environmental and social conditions as consistent with the existing EIA, indicating no significant new impacts on land and water habitat. The EMP is similar to the one in the approved EIA, with additional safeguards to help workforce during heatwave conditions. Public consultations revealed the community's urgent request for the implementation of riverbank protection works but expressed concerns about temporary environmental risks during construction. According to the PMO, the EMP was included in the bidding documents of the additional packages to ensure contractor commitment to environmental safeguards. As of 19 June 2024, ADB is still awaiting the final version of the addendum from PMO to disclose it on ADB's website.

47 **Environmental Monitoring Report (EMR).** The Mission advised the PMO to update the environmental monitoring report (EMR) for the months of July-December 2023 based on the reviews of the External Monitoring Expert.¹¹ In reference to the last mission's Aide memoire, PMO will submit semi-annual EMRs to ADB after validation and having addressed all comments received from the Expert. PMO submitted to ADB the validated EMR for the months of July–December 2023 on 28 May 2024, the review has been completed and disclosure on the ADB's website will be completed by 26 June 2024.

48 Riverbank protection works generally offer positive benefits, such as the prevention of erosion and support for the local economy by hiring labor from nearby communities. However, there are also potential impacts identified, including changes to aquatic habitats due to sand extraction for geobags and temporary disruption of local fishing activities. According to monitoring activities, contractors should provide appropriate accommodations for laborers, including access to potable water and adequate sanitary facilities, undertake air, noise and water quality monitoring, and take additional measures to protect the workforce from heat exposure due to recent heatwaves. It is essential that the contractors closely adhere to the mitigation measures of the

¹¹ Para. 57, ADB SPS 2009: Borrowers/clients are required to implement safeguard measures and relevant safeguard plans, as provided in the legal agreements, and to submit periodic monitoring reports on their implementation performance. ADB will require borrowers/clients to: retain qualified and experienced external experts or qualified NGOs to verify monitoring information for projects with significant impacts and risks.

EMP. The Mission advised the PMO to instruct the contractors with ongoing works to resolve these safeguards issues urgently. The next EMR will cover January to June 2024 and is due to be submitted to ADB on 31 July 2024.

49 ADB reviews periodic EMRs and ensures that the PMO submits semi-annual monitoring reports during construction stage. After the physical closure of Project 2 on 26 June 2024, PMO will prepare an annual EMR during project operation, which will cover July 2024 to June 2025 and will be due on 31 July 2025.¹² This is expected as the last EMR for Project 2. An environmental safeguards expert to be engaged by the PMO will support the PMO to prepare the last EMR.

50 **Environmental Clearance Certificate (ECC).** Bangladesh Environment Act (1995) and Environment Conservation Rule (1997) categorized as Red Category and a detailed EIA including an EMP was undertaken to fulfill the requirements of the government. The Mission acknowledged that the ECC has been renewed for the year 2024. This renewal incorporates the additional riverbank protection works, ensuring that the activities remain within the scope of approved environmental regulations. The renewal signifies that the planned riverbank protection works have been reviewed by the Department of Environment and deemed compliant with national environmental policies, adhering to the rigorous standards required for projects with substantial environmental implications. This ensures continued adherence to environmental safeguard measures and demonstrates the project's commitment to sustainable development practices within the national regulatory context.

51 **Social safeguards.** The project is category A for involuntary resettlement and category C for indigenous communities. According to the joint verification from the DC office, the required land acquisition will be 4.52 hectares affecting 202 titled and 13 non-titled entities. Among the affected area, 1.74 hectares are used by homestead occupants (0.8 km) and the rest are mostly agricultural land with some rural roads and ponds. As confirmed by BWDB, the project construction works have been only initiated in the areas that do not trigger land acquisition or involuntary resettlement. Currently, the budget is with the Ministry of Finance, and the budget will be released once the estimates from the DC office are confirmed by PMO. Project 2 is working with a very narrow timeframe on this issue. A few of the social safeguard activities committed by PMO during the mission are in Table 10.

Table 10: Social safeguards activities committed by PMO at the time of the mission

SI	Activity	Responsibility	Timeline
1	Budget hand-over	Ministry of Finance (MoF), PMO/BWDB, DC office	15 May 2024 (as of 19 June 2024, DC is still to finalize their cost estimate to be sent to MoF)
2	Payment of non-titled affected persons	PMO/BWDB, Resettlement NGO	15 May 2024 (as of 19 June 2024, DC is still to finalize their cost estimate to be sent to MoF)
3	Payment to titled persons without legal litigations	DC office, PMO/BWDB, Resettlement NGO	15 Jun 2024 (as of 19 June 2024, DC is still to finalize their cost estimate to be sent to MoF)
4	ILRP trainings to be initiated	PMO/BWDB, Resettlement NGO	7 May 2024
5	Payment to eligible persons per ADB SPS 2009	PMO/BWDB	31 Aug 2024 (as of 19 June 2024, DC is still to finalize their cost estimate to be sent to MoF)

¹² Para. 27, Operations Manual F1: <https://www.adb.org/sites/default/files/institutional-document/31483/om-f1-20131001.pdf>

ADB = Asian Development Bank, BWDB = Bangladesh Water Development Board, DC = district commissioner, ILRP = Income and Livelihood Restoration Program, NGO = non-government organization, PMO = project management office, SPS = Safeguard Policy Statement.

52 All the NGO and consultant contracts under the project will expire by 26 June 2024. Top-up or any additional compensation according to ADB policy requirements might be confirmed according to eligibility after payment of cash compensation from DC office.

53 **Grievance Redress Committee (GRC).** With the PMO level GRC, the site level GRC has been established for Shahjadpur, where land acquisition and resettlement impacts are anticipated. The external monitoring reports recommended the PMO to increase vigilance of GRC actions in other locations of the project as well for better compliance.

55. **Social safeguard reporting.** As agreed during the mission, the PMO will submit a comprehensive social safeguard monitoring report to ADB with support from ISPMC social safeguards specialist by 15 June 2024. The external monitor will submit the final monitoring report by 26 June 2024. Since the government DPP for the project is valid till 31 December 2025, after the physical closure of the project, the Mission request the PMO to continue updating ADB on any remaining titled cash compensation or unresolved grievances till December 2025.

56. **Gender.** The project is categorized as effective gender mainstreaming (EGM) and has a Gender Action Plan (GAP), which reflects all project outputs maximizing women's benefit from the project interventions. The Mission appreciated that the project generated 5,249 (1.36%) women labor days out of 385,187 unskilled labor days for construction. Seventeen bidding documents were prepared and incorporated the core labor standards, including equal pay for work of equal value, occupational health and safety, water supply, sanitation, segregated shelter, and facilities. The project conducted training on gender-responsive occupational health and core labor standards with 93 (all are male) SMO staff and the contractors' representatives. Four trainings have been provided to 48 BWDB staff including 7 women on (i) survey and data collection, (ii) environmental management and environmental and social impact assessment (ESIA), (iii) numerical modeling and GIS, and (iv) river survey MIS users and administrators. Also, the Mission appreciated that the project organized a 2-day training on gender mainstreaming and gender-based violence (GBV) with 24 BWDB staff including 13 women. The GAP implementation status as of 31 March 2024 is in **Appendix 9**.

57. However, the PMO informed that given the nature of construction works where 250 kg of geobags filling, stitching, and dumping on the barges were required, there is less scope to engage women as unskilled laborers. Only the dressing and turfing works, and the vetiver grass plantation for slope protection-related embankment construction works are suitable to be undertaken by women. The project will only construct a 2.53 km of flood embankment. Therefore, fewer women are employed in overall construction works than originally planned. Since the NGO for establishing community-based disaster management units was recruited only in mid-March 2024, all (9) of the related-activities have only progressed slowly. Furthermore, at the time of the mission, no awareness-raising program on GBV and community-based redress mechanism and dissemination at worksites have been organized.

58. Thus, the Mission strongly suggested that PMO ensures 30% of women's participation in awareness-raising programs on GBV with the community women. The PMO committed to employ as many women as possible in construction. The PMO has to ensure that community-based disaster management-related activities and the livelihoods training are completed by 26 June 2024. The PMO agreed to submit to ADB the GAP QPR from April to June 2024 by 15 June 2024.

59. **DPP revision.** The PMO has processed and the government (through MoWR) has approved the revised DPP on 2 November 2023. The revised DPP is valid till the end of December 2025.

IV. CONCLUSIONS AND PRIORITY ACTIONS

60. The following actions were agreed during the mission (Table 11).

Table 11: List of Priority Actions with Timeframe

Action	Who	Completion Date
Procurement:		
Submission of report to ADB for the post sampling review of the works packages	External monitor for procurement	26 June 2024
Financial Management:		
Purchase of accounting software to computerize all project accounts	PMO	As soon as possible
Training on the use of software and complete data entry in the accounting software	ISPMC / PMO	25 June 2024
Submission of letter to Director, Audit	PMO	15 May 2024 (as of 19 June 2024, PMO confirmation of action completed yet to be received)
Fill-up all FM still vacant positions in PMO	PMO	As soon as possible
Close as many contracts as possible	PMO	As soon as possible
Internal audit	Audit	Aug/Sep 2024
Payment of all invoices to suppliers/contractors	PMO	15 Oct 2024
Submission of all withdrawal applications to ADB	PMO	15 Oct 2024
APFS submission to ADB	PMO	31 Dec 2024
Environment:		
Submission of semi-annual EMR (Jan-Jun 2024)	PMO	31 Jul 2024
Submission of annual EMR (after 26 Jun 2024)	PMO	31 Jul 2025
Social safeguards and land acquisition:		
Submission of comprehensive social safeguard monitoring report to ADB	ISPMC / PMO	15 Jun 2024 (as of 19 June 2024, report yet to be received but a meeting between PMO and ADB held on 12 June 2024)
Submission of final monitoring report	External social safeguards specialist	26 Jun 2024
ILRP trainings to be initiated	PMO/BWDB	As soon as possible
Budget hand-over	MOF, PMO/BWDB, DC office	As soon as possible
Payment to non-titled affected persons	PMO/BWDB, Resettlement NGO	As soon as possible
Payment to titled persons without legal litigations	DC office, PMO/BWDB, Resettlement NGO	As soon as possible

Action	Who	Completion Date
Payment to eligibility as per ADB SPS 2009	PMO/BWDB, Resettlement NGO	31 Aug 2024
Reporting and others:		
Government concurrence on the loan amendment	ERD	As soon as possible
Conduct of a national FRERMIP workshop	ISPMC / PMO	August 2024
PMO to submit GAP QPR covering the period April to June 2024	PMO	15 June 2024 (as of 19 June 2024, report yet to be received)
Completion of database transfer to the BWDB system	ISPMC / PMO	26 June 2024
PMO to submit the draft Facility Completion Report to ADB	PMO	15 Nov 2024
Completion of 2 training programs	BWDB / PMO	26 June 2024

ADB = Asian Development Bank, APFS = audited project financial statement, BWDB = Bangladesh Water Development Board, EKN = Embassy of the Kingdom of the Netherlands, EMR = environmental monitoring report, FM = financial management, FRERMIP = flood and riverbank erosion risk management investment program, GAP = gender action plan, ILRP = Income and Livelihood Restoration Program, ISPMC = institutional strengthening and project management consultant, MOF = Ministry of Finance, MoWR = Ministry of Water Resources, PAM = project administration manual, PMO = project management office, PP = procurement plan, QPR = quarterly progress report.

V. MISSION'S WRAP-UP MEETINGS

61. The Mission's findings were discussed during the pre-wrap up meeting with MoWR and the wrap up meeting with ERD. The comments and agreements recorded by the Mission are summarized in the following two paragraphs.

62. Pre-wrap up meeting with MoWR

(i) Progress to date and pending land acquisition process:

- The Mission highlighted the great efforts made by the PMO, ISPMC, SMOs, suppliers, contractors and consultants and progress made under the project since the Mid-term Review Mission (May 2023) (including the completion of all the additional works agreed in May 2023), however the land acquisition process for the construction of the 830 m of flood embankment was still an issue to be very timely resolved by all concerned.
- The Mission requested MoWR to facilitate to expedite the end of the land acquisition process and to support the PMO in expediting implementation of necessary compensation to the affected persons before commencement of any construction activities in compliance with ADB Safeguards Policy Statement (2009) and the related Loan Covenants.
- The Chair appreciated greatly all the efforts made over the last few months by all to progress the works and try to achieve as many targets as possible.

(ii) Closure of Project 2 and of the MFF on 26 June 2024 and preparation of the follow-on project:

- The Mission reminded the government that the MFF maximum availability period is limited to 10 years (the MFF was extended from its original 9 years to its maximum 10 years during the processing of Project 2 in 2020) and cannot be extended any further.
- The Mission reminded that all activities that cannot be completed under Project 2 before its closure as well as the closure of the MFF both on 26 June 2024 will

have to be completed by BWDB with the government own funds or included in the follow-on project to be prepared by the government.

- The Mission informed MoWR that the processing of the follow-on project has been handed over during the mission to another ADB Project Officer.
- It was agreed by all parties that Project 2 and the MFF cannot be extended any further than 26 June 2024 and to put the emphasis on the preparation of the follow-on project.

(iii) National workshop on lessons learnt from the 10-year Investment Program:

- The Mission informed that the Office of the Chief Engineer River Management, BWDB is planning for a national workshop (possibly in August 2024) to present the achievements of the 10-year FRERMIP, a summary of the river stabilization activities undertaken and future needs, the latest results from updating the River Stabilization Plan, and an overview of the follow-on project and its preparation.

63. Wrap up meeting with ERD:

(i) Progress to date and pending land acquisition process:

- The Mission summarized the great efforts made by the PMO and the parties involved in the project implementation and progress made under the project since the Mid-term Review Mission (May 2023)(including the completion of all the additional works agreed in May 2023) and that the road map and policy framework is well on track to be fully achieved.
- However, the Mission pointed out the land acquisition process for the construction of the 830 m of flood embankment was still an issue to be very timely resolved by all concerned (especially the DC Sirajganj office and Ministry of Finance) for the compensation to be paid to the affected people and for the construction of the embankment to be completed by 26 June 2024.
- ERD recognized that due to various government budget constraints, it has taken an unusual long amount of time for the government to make the funds available for this land acquisition process.
- ERD assured the Mission that when the required funds would be requested by the DC office, funds will be made available very timely.

(ii) Closure of Project 2 and the MFF on 26 June 2024 and preparation of the follow-on project:

- The Mission reminded the government that the MFF maximum availability period is limited to 10 years (the MFF was extended from its original 9 years to its maximum 10 years during the processing of Project 2 in 2020) and cannot be extended any further.
- The Mission reminded that all activities that cannot be completed under Project 2 before its closure as well as the closure of the MFF both on 26 June 2024 will have to be completed by BWDB with the government own funds or included in the follow-on project to be prepared by the government.
- The Mission informed ERD that the processing of the follow-on project has been handed over during the mission to another ADB Project Officer.

(iii) Current savings on the loan and grant amounts:

- The PMO estimated at the time of the Mid-term Review Mission that 'savings' on loan were about \$70 million (including the amount of \$27 million for contingencies in the overall project financing plan very unlikely to be needed).
- At the request of the government, a partial cancellation of \$30 million of the loan proceeds was made and has been effective since 14 November 2023.

- During the Mid-term Review mission agreement was reached for the PMO to undertake additional riverbank protection works before the loan closure of Project 2 and of the MFF on 26 June 2024. All these works have been completed.
 - However, despite the additional works, the PMO and the Mission estimated that about \$25 million will remain unused under Project 2 by its closure.
 - Also, despite the Mission and EKN having previously agreed for EKN to cofinance additional packages than those originally planned, it is estimated by the PMO that there will be about \$6.5 million of 'savings' on the grant (subject to currency uncertainties) by Project 2 closure.
- (iv) **Feasibility studies:**
- As the river system in central Bangladesh is highly dynamic, having BWDB-approved feasibility studies regularly updated after each major flood season and timely implemented (ie: high project readiness and no start-up delays) is important to avoid from having to cancel some works no longer technically feasible a few years after completion of a feasibility study due to unpredictable morphological changes in the river system, resulting in partial cancellation of loan proceeds. (As documented in the Aide memoire of the Mid-term Review Mission, the Salimabad channel closure became no longer technically feasible, hence to maximize the use of the available loan proceeds under Project 2, the PMO and its consultants swiftly proposed to carry some additional works instead and got the DPP revision approved, but still about \$25 million will remain unused under Project 2 by its closure.)
- (v) **National workshop on lessons learnt from the 10-year Investment Program:**
- The Mission informed that the Office of the Chief Engineer River Management, BWDB is planning for a national workshop (possibly in August 2024) to present the achievements of the 10-year FRERMIP, a summary of the river stabilization activities undertaken for the main river of central Bangladesh and future needs, the latest results from updating the River Stabilization Plan, and an overview of the follow-on project and its preparation.

VI. ACKNOWLEDGMENTS

64. The Mission expresses its appreciation to the government for its excellent cooperation and courtesies.



Olivier Drieu
 Senior Water Resources Specialist/Mission Leader
 Environment, Natural Resources and Agriculture Division
 South Asia Department
 Asian Development Bank
 19 June 2024

Appendices

Appendix 1: List of Key Persons Met

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Appendix 3: Contract Monitoring for Grant 0799

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Appendix 1: List of Key Persons Met

Economic Relations Division (ERD)

Farid Aziz	Additional Secretary and Wing Chief (ADB)
Syeda Amina Fahmeen	Joint Secretary, ADB Wing
Quazi Arefin Rezoane	Deputy Secretary

Ministry of Water Resources (MoWR)

Dr. Bazlur Rashid	Additional Secretary (Development)
Mohammad Lutfar Rahman PAA	Joint Secretary (Development)
Abdur Rahim	Deputy Secretary

Institute of Water Modelling (IWM)

Zahir-ul Haque Khan	Executive Director
S.M. Mahbubur Rahman	Deputy Executive Director (P&D)
Md. Tarikul Islam	Director of Survey and Data Division

Bangladesh Water Development Board (BWDB)

Md. Rafiqul Islam Choubey	Chief Engineer, Monitoring
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Project Management Office (PMO)

Md. Ruhul Amin	Project Director
Md. Sultan Mahmud	Superintending Engineer
Md. Fahad Hasan	Executive Engineer
M. Nazmul Islam	Executive Engineer
Gopal Chandra Biswas	Deputy Director (Accounts)
Md. Rashidul Mamur Rafid	Sub-Divisional Engineer
Sajjad Hossain	External Monitoring Expert for Procurement
Kabil Hossain	External Monitoring Expert for Environment
Tofayel Hossain Basunia	External Monitoring Expert for Social Safeguards

Institutional Strengthening and Project Management Consultant (ISPMC) of the PMO of BWDB

Knut Oberhagemann	Team Leader / River Management Specialist
Herb Wiebe	Senior River Management Specialist
Angela Thompson	Hydraulic modelling / Morphologist
James Rebstock	Civil engineer
Nithya Yogaraj	Social Development and Resettlement Specialist
Quazi Towfiqul Islam	Community-based Flood Risk Management Specialist
Mamun Ar Rashid	Land Acquisition and Resettlement Specialist
Ruksana Begum	Social Development and Gender Specialist
Md. Amir Faisal	Environmental Specialist
Ektedar Rahman	Financial Management Specialist

Appendix 2: Contract Monitoring Sheet for Loan 4107 (as of 19 June 2024)

Contract Number	Description	Supplier Name	Contract Date	Contract Amount	Disbursements (Total)	Undisbursed Amount
				US\$ Equivalent	US\$ Equivalent	US\$ Equivalent
0001	Supply of Geotextile bags for riverbank protection work on the right bank of Jamuna River at Enayetpur from km 0.00 to 7.00 and at Benotia from km 0.00 to 3.50	SKAPS INDIA - NAHEE JV	25-May-22	10,612,751.24	9,873,659.30	739,091.94
0002	Supply of geotextile bags for riverbank protection work on the left bank of Jamuna Padma river from km 0.00 to 4.00 (Harirumpur Extension)	Nahee Geo Textile Industries Ltd.	25-May-22	4,823,425.82	4,714,862.76	108,563.06
0003	Supply of geotextile bags for adaptation works of completed works under JMREMP and FRERMIP Tranche-1	DIRD FELT Limited	25-May-22	6,209,865.18	6,063,952.66	145,912.52
0004	Institutional Strengthening and Project Management Consulting Services	NHC-EMM Joint Venture	21-Aug-22	1,250,877.39	775,059.86	475,817.53
0005	Supply of Geotextile bags for Riverbank Protection Work on the Left Bank of Jamuna River from km 7.00 to 22.500 (Upstream Chauhali)	CIL - HONGXIANG JV	27-Oct-22	19,118,770.08	18,737,545.84	381,224.24
0006	C-05: River Survey (including bathymetric, ADCP and float tracking) and Multibeam Echosounder Survey	Institute of Water Modelling (IWM)	10-Nov-22	535,238.68	323,537.08	211,701.60
0007	Upstream Chauhali underwater riverbank protection with geotextile bags (8 km) including 1 km of dredging on the underwater slope	MBEL-BECL JV	25-Jan-23	5,031,727.67	3,537,406.43	1,494,321.24
0008	W-01: Benotia underwater riverbank protection with geotextile bags (3.50 km)	Golam Rabbani Construction Ltd.	17-Jan-23	1,837,165.42	1,755,876.18	81,289.24
0009	W-02: Enayetpur underwater riverbank protection with geotextile bags (7 km)	Golam Rabbani Construction Ltd.	26-Jan-23	2,563,109.78	2,447,555.81	115,553.97
0010	W-03: Upstream Chauhali underwater riverbank protection with geotextile bags (7.5 km)	KCEL-BECL JV	13-Feb-23	2,879,807.73	1,787,193.10	1,092,614.63
0011	W-05: Underwater riverbank protection with geotextile bags at Harirampur Extension (4 km)	JV M/S MD JAMIL IQBAL-SK. EMDADUL HAQUE AL MAMUN	7-Feb-23	2,171,845.30	2,071,976.09	99,869.21

Contract Number	Description	Supplier Name	Contract Date	Contract Amount	Disbursements (Total)	Undisbursed Amount
				US\$ Equivalent	US\$ Equivalent	US\$ Equivalent
0012	C-21: Procurement Specialist	Muhammed Mahboob-ul-Kabir	7-Mar-23	22,959.77	17,642.49	5,317.28
0013	C-08: Erosion Prediction	Center for Environmental and Geographic Information Services (CEGIS)	3-May-23	61,572.52	25,466.65	36,105.87
0014	W-06: Adaptation works for riverbank protection with geotextile bags of completed works under JMREMP and FRERMIP Tranche-1 Project	Golam Rabbani Construction Ltd.	2-May-23	2,932,036.54	2,614,445.30	317,591.24
0015	W-09: Emergency Works	KSA-TTSL Joint Venture	16-May-23	2,102,297.55	1,797,814.84	304,482.71
0016	W-11: Maintenance of Embankment Constructed under FRERMIP Tranche-1	JV M/s Md. Jamil Iqbal - Sk. Emdadul Haque Al Mamun	16-May-23	586,834.75	554,970.01	31,864.74
0017	Various PMO Operational Costs	Various: M/s Ismail Motors; Neways Services; Padma Traders; Lamia Motors; Rockay Autos; The Financial Express; The Samakal; The Dainik Natun Bartta; Gopal Chandra Biswas; Sabbir Hossain Kanon; M/s Abdur Rahman Enterprise; M/s Md. Aahidur Rahman; etc	1-Jan-23	162,038.25	162,038.25	-
0018	G-06: PMO-BWDB Office Equipment	Electromechanical Engineering Limited	12-Jun-23	22,521.52	22,521.51	0.01
0019	Various DDM PMU Operational Costs	Various: Biz Bangla Media Ltd; The Daily Kalerkantho; Dhaka Tribune; Media New Age Ltd; etc.	1-Feb-23	2,580.35	2,579.91	0.44
0020	Various Capacity Development Training	Institute of Water Modelling (IWM)	12-Jun-23	30,985.99	15,242.00	15,743.99
0021	W-16: Construction of O&M Sheds for Kojjuri Embankment in connection with the project FRERMIP (Tranche-2)	M/s Shahid Brothers	12-Jul-23	68,612.19	62,879.28	5,732.91
0022	W-24: Underwater Riverbank Protection with geotextile bags at d/s of Salimabad-3.00 km (in between km -12.880 to km -15.800, including 500 meter end termination)	Golam Rabbani Construction Ltd.	12-Dec-23	1,636,916.17	1,563,859.75	73,056.42
0023	W-07: Adaptation Works for riverbank protection with geotextile bags of FRERMIP Project-2	Golam Rabbani Construction Ltd.	11-Dec-23	2,184,977.85	2,062,383.62	122,594.23
0024	W-21: Underwater riverbank protection with geotextile bags at u/s Enayetpur (Belkuchi)- 3.00 km (km 1.30 to km 4.30)	Golam Rabbani Construction Ltd.	11-Dec-23	1,338,872.89	672,870.67	666,002.22

Contract Number	Description	Supplier Name	Contract Date	Contract Amount	Disbursements (Total)	Undisbursed Amount
				US\$ Equivalent	US\$ Equivalent	US\$ Equivalent
0025	W-22: Underwater riverbank protection with geotextile bags at upstream of Old Dhaleshwari offtake - 2.30 km	Techbay-KSA JV	14-Dec-23	1,604,051.83	1,288,141.40	315,910.43
0026	W-23: Underwater riverbank protection with geotextile bags at downstream of Salimabad-3.00 km in Nagarpur Upazila (km - 9.880 to km -12.880)	Golam Rabbani Construction Ltd.	13-Dec-23	1,662,873.91	1,587,875.09	74,998.82
0027	G-12: Supply of geotextile bags for underwater Riverbank protection with geotextile bags at downstream of Salimabad- 3.00 km (in between km - 12.880 to km -15.800, including 500 meter end termination)	Confidence Infrastructure Limited	20-Dec-23	2,391,849.98	2,088,243.91	303,606.07
0028	G-13: Underwater riverbank protection with geotextile bags at downstream of Maluchi-1.00 km (km 4.9 to km 5.9)	RM GEOTEX LIMITED	24-Dec-23	1,737,365.39	1,239,056.58	498,308.81
0029	W-25: Underwater riverbank protection with geotextile bags at downstream of Maluchi - 1.00 km (km 4.9 to km 5.9)	M/S M.A. Enterprise	24-Dec-23	726,731.22	622,032.58	104,698.64
0030	G-09: Supply of Geotextile bags for underwater Riverbank protection at upstream Enayetpur (Belkuchi) - 3.00 km (km 1.30 to km 4.30)	Nahee Geo Textile Industries Ltd.	28-Dec-23	2,398,663.06	1,706,844.34	691,818.72
0031	W-10a: Shajadpur embankment construction from chainage km 21.300 to km 23.830	JV MMBL-SKEM	18-Dec-23	757,260.13	254,335.75	502,924.38
0032	Geotextile bag supply for Adaptation Works of FRERMIP Project- 2	B.J. Geo-Textile Ltd.	2-Jan-24	3,534,676.91	310,664.72	3,224,012.19
0033	G-10: Supply of geotextile bags for underwater riverbank protection with geotextile bags at upstream of Old Dhaleshwari offtake -2.30 km	Confidence Infrastructure Limited	1-Jan-24	2,945,580.40	2,945,580.40	-
0034	G-11: Supply of geotextile bags for underwater riverbank protection with geotextile bags at downstream of Salimabad-3.00 km in Nagarpur Upazila (km -9.880 to km -12.880)	B.J. Geo-Textile Ltd.	2-Jan-24	3,598,526.45	1,980,538.69	1,617,987.76
0035	C-17: External monitoring of social safeguards	Tofayel Hossain Basunia	9-Jan-24	9,106.14	2,958.08	6,148.06

Contract Number	Description	Supplier Name	Contract Date	Contract Amount	Disbursements (Total)	Undisbursed Amount
				US\$ Equivalent	US\$ Equivalent	US\$ Equivalent
0036	C-19: External monitoring of procurement activities	Sajjad Hossain	7-Feb-24	6,508.90	727.05	5,781.85
0037	C-18: External monitoring of environmental safeguards	Md. Kabil Hossain	7-Feb-24	8,462.74	775.31	7,687.43
0038	C-10: Resettlement Solution through NGO	SAMAHAR	29-Feb-24	38,697.85	-	38,697.85
0039	W-26: Additional Emergency Works	Khokan Construction & Engineering Ltd. - Bhawal Engineers & Construction Ltd. JV	12-Mar-24	1,748,790.74	239,808.52	1,508,982.22
0040	C-02: Community-based flood risk management support	Center for Natural Resource Studies	14-Mar-24	217,784.17	-	217,784.17
0041	G-08: PMU-DDM Office Equipment	Computer Soul	30-Jan-24	3,186.25	-	3,186.25
			TOTAL	91,577,906.70	75,930,921.81	15,646,984.89

Appendix 3: Contract Monitoring Sheet for Grant 0799 (as of 19 June 2024)

Contract Number	Description	Supplier Name	Contract Signing Date	Contract Amount	Disbursements (Total)	Undisbursed Amount
				US\$ Equivalent	US\$ Equivalent	US\$ Equivalent
0001	Institutional Strengthening and Project Management Consulting Services	Joint Venture Northwest Hydraulic Consultants Ltd. and EuroConsult Mott MacDonald	21-Aug-22	10,849,044.56	6,838,960.04	4,010,084.52
0002	C-05: River Survey (including bathymetric, ADCP and float tracking) and Multibeam Echosounder Survey	Institute of Water Modelling (IWM)	10-Nov-22	602,579.45	365,060.58	237,518.87
0003	Upstream Chauhali underwater riverbank protection with geotextile bags (8 km) including 1 km of dredging on the underwater slope	MBEL-BECL JV	25-Jan-23	166,660.68	116,849.97	49,810.71
0004	W-01: Benotia underwater riverbank protection with geotextile bags (3.50 km)	Golam Rabbani Construction Ltd.	17-Jan-23	61,238.84	58,529.20	2,709.64
0005	W-02: Enayetpur underwater riverbank protection with geotextile bags (7 km)	Golam Rabbani Construction Ltd.	26-Jan-23	85,437.00	81,585.20	3,851.80
0006	W-03: Upstream Chauhali underwater riverbank protection with geotextile bags (7.5 km)	KCEL-BECL JV	13-Feb-23	96,725.28	60,304.79	36,420.49
0007	W-05: Underwater riverbank protection with geotextile bags at Harirampur Extension (4 km)	JV M/S MD JAMIL IQBAL-SK. EMDADUL HAQUE AL MAMUN	7-Feb-23	73,801.29	70,472.32	3,328.97
0008	C-21: Procurement Specialist	Muhammed Mahboob-ul-Kabir	7-Mar-23	32,716.41	25,183.60	7,532.81
0009	C-08: Erosion Prediction	Center for Environmental and Geographic Information Services (CEGIS)	3-May-23	69,081.38	28,572.36	40,509.02
0010	W-06: Adaptation works for riverbank protection with geotextile bags of completed works under JMREMP and FRERMIP Tranche-1 Project	Golam Rabbani Construction Ltd.	2-May-23	98,449.82	87,863.44	10,586.38
0011	W-09: Emergency Works	KSA-TTSL Joint Venture	16-May-23	64,321.40	59,557.50	4,763.90
0012	W-11: Maintenance of Embankment Constructed under FRERMIP Tranche-1	JV M/s Md. Jamil Iqbal - Sk. Emdadul Haque Al Mamun	16-May-23	19,561.17	18,499.01	1,062.16
0013	W-16: Construction of O&M Sheds for Kojjuri Embankment	M/s Shahid Brothers	12-Jul-23	2,209.66	2,018.56	191.10

Contract Number	Description	Supplier Name	Contract Signing Date	Contract Amount	Disbursements (Total)	Undisbursed Amount
				US\$ Equivalent	US\$ Equivalent	US\$ Equivalent
0014	W-24: Underwater Riverbank Protection with geotextile bags at d/s of Salimabad-3.00 km (in between km -12.880 to km -15.800, including 500 meter end termination)	Golam Rabbani Construction Ltd.	12-Dec-23	123,764.66	52,128.66	71,636.00
0015	W-07: Adaptation Works for riverbank protection with geotextile bags of FRERMIP Project-2	Golam Rabbani Construction Ltd.	11-Dec-23	72,665.00	68,578.53	4,086.47
0016	W-21: Underwater Riverbank Protection with geotextile bags at u/s Enayetpur (Belkuchi)- 3.00 km (km 1.30 to km 4.30)	Golam Rabbani Construction Ltd.	11-Dec-23	44,629.10	22,429.03	22,200.07
0017	W-22: Underwater riverbank protection with geotextile bags at upstream of Old Dhaleshwari offtake - 2.30 km	Techbay-KSA JV	14-Dec-23	53,391.68	50,198.18	3,193.50
0018	W-23: Underwater riverbank protection with geotextile bags at downstream of Salimabad-3.00 km in Nagarpur Upazila (km - 9.880 to km -12.880)	Golam Rabbani Construction Ltd.	13-Dec-23	55,429.13	52,929.17	2,499.96
0019	W-25: Underwater riverbank protection with geotextile bags at downstream of Maluchi - 1.00 km (km 4.9 to km 5.9)	M/S M.A. Enterprise	24-Dec-23	24,224.37	20,734.41	3,489.96
0020	W-10a: Shajadpur embankment construction from chainage km 21.300 to km 23.830	JV MMBL-SKEM	18-Dec-23	25,242.01	8,477.86	16,764.15
0021	C-17: External monitoring of social safeguards	Tofayel Hossain Basunia	9-Jan-24	12,900.36	4,190.61	8,709.75
0022	C-19: External monitoring of procurement activities	Sajjad Hossain	7-Feb-24	9,220.93	1,029.98	8,190.95
0023	C-18: External monitoring of environmental safeguards	Md. Kabil Hossain	7-Feb-24	11,988.87	1,098.35	10,890.52
0024	C-10: Resettlement Solution through NGO	SAMAHAR	29-Feb-24	54,821.95	-	54,821.95
0025	W-26: Additional Emergency Works	Khokan Construction & Engineering Ltd. - Bhawal Engineers & Construction Ltd. JV	12-Mar-24	58,293.03	7,993.62	50,299.41
			TOTAL	12,768,398.03	8,103,244.97	4,665,153.06

Appendix 4: Status of PMO and SMO Staffing Requirements for Project 2 (as of 28 April 2024)

Position	No. of Staff	Responsibility	Type of engagement/ % of time	Name	Status
PMO (Deputation from BWDB)					
Project Director (Additional Chief Engineer or Superintending Engineer)	1	Overall project management responsibility	Full time	Md. Ruhul Amin	Filled; fulltime
Deputy Project Director (Superintending Engineer)	1	1. Design, Quality Control, River Training and compliances of Loan covenants & DMF	Full time	Md. Sultan Mahmud	Filled; fulltime only 1 position in DPP
		2. Procurement, Planning, Monitoring and Environmental & Social safeguards	Full time		
Executive Engineer (or equivalent rank)	2	1. Procurement, contract management	Full time	Md. Fahad Hasan & M. Nazmul Islam	Filled; fulltime 2 positions in DPP (1&2 and 3&4); all the tasks are performed by Both of the Executive Engineers as per direction of the PD
		2. Safeguards: Chief Resettlement Officer and environment	Full time		
		3. Project management, office management, training coordination and administrative coordination (steering committees, DPP preparation and variations, communication)	Full time		
		4. Quality Control, planning, adaptation, monitoring	Full time		
Subdivisional Engineer	1	1. Procurement, contract management, Resettlement & GAP	Full time	Md. Rashidul Mamur Rafid	1 in DPP; filled by promotion of Asst. Engineer on 15 Aug 2023
		2. Quality Control, adaptation, maintenance, Environment	Full time		
Assistant Engineer	2	1. Procurement, contract management, project management and administrative activities	Full time	-	2 in DPP; currently both are vacant.
		2. Monitoring, asset management and O&M system	Full time		
Assistant Director	1	Land Acquisition, Resettlement	Full time	Md. Monirul Islam	Filled; fulltime
Deputy Director (Accounts)	1	Payments and audits; financial management; and ensuring that all loan covenants pertaining to financial management are complied with	Full time	Gopal Chandra Biswas	Filled; fulltime
Senior Accountants Assistants	1	Contractors' invoice processing and keeping a record of the accounts, particularly for claims that will be claimed through SOEs	Full time	Md. Sarwar Hossain	Only 1 position in DPP
Driver	4		Outsourced	--	*Partially filled through ISPMC contract.
Guard	2		Outsourced	--	
MLSS	4		Outsourced	--	
Cleaner	2		Outsourced	--	
Sub-total	22				
Kaitola SMO (Deputation from Board)					
Executive Engineer	1	Head of the SMO in Kaitola and nominated 'Project Manager' / 'Engineer'	Full time	Md. Mahbubur Rahman	Additional charge; works as per direction of PD
Subdivisional Engineer	1	Exclusively implement FRERMIP works at the subprojects	Full time	Md. Shaheen Reza	Fulltime
Sub Assistant Engineers	2	Daily construction supervision at the subproject sites	Full time	Md. Shahinur Islam Md. Al Amin Md. Shamim Al Mamun	Fulltime
Senior Accounts assistant	1	Assist SMO in daily accounting activities	Full time	Still Vacant	Vacant

Position	No. of Staff	Responsibility	Type of engagement/ % of time	Name	Status
Data entry operator	1	Update asset management system	Full time	Still Vacant	Vacant (Computer Analyst in DPP)
Revenue surveyor	1	Quantity check of contractors' invoices	Full time	Still Vacant	Vacant
Work assistant	3	Daily construction supervision	Full time	Abdul Jalil	3 in DPP; 1 filled
Driver	1		Outsourcing		*Partially filled through ISPMC contract.
Guard	1		Outsourcing		
MLSS	2		Outsourcing		
Cleaner	1		Outsourcing		
Sub-total	15				
Tangail SMO (Deputation from Board)					
Executive Engineer	1	Head of the SMO in Tangail and nominated 'Project Manager' / 'Engineer'	Part-time / 55%	Md. Shazzad Hossain	Filled; full-time
Subdivisional Engineer	1	Implementation of FRERMIP works at the subprojects	Part-time / 60%	Md. Abu Jobair	Filled
Sub Assistant Engineers	2	Daily construction supervision at the subproject sites	Part-time / 80%	Mofijul Islam Mojnu Md. Sayedur Rahman	Filled
Senior Accounts assistant	1	Assist SMO in daily accounting activities	Part-time / 60%	Mahfuza Akhter	Filled
Data entry operator	1	Update asset management system	Part-time / 60%	Abu Bakar	Filled
Revenue surveyor	1	Quantity check of contractors' invoices	Part-time / 60%	Rubel Ahmed	Filled
Work assistant	2	Daily construction supervision	Part-time / 80%	Mosharraf Hossain Sumon Mia	Filled
Driver	1		Outsourcing		*Partially filled through ISPMC contract.
Guard	1		Outsourcing		
MLSS	2		Outsourcing		
Sub-total	13				
Manikganj SMO (Deputation from Board)					
Executive Engineer	1	Head of the SMO in Manikganj and nominated 'Project Manager' / 'Engineer'	Part-time / 65%	Md. Mayn Uddin	Filled
Subdivisional Engineer	1	Implementation of FRERMIP works at the subprojects	Part-time / 70%	Md. Abul Kalam Azad	Filled
Sub Assistant Engineers	2	Daily construction supervision at the subproject sites	Part-time / 80%	Shahinur Rahman; Md. Moniruzzaman, Md. Shafiqul Islam	Filled
Senior Accounts assistant	1	Assist SMO in daily accounting activities	Part-time / 70%	Md. Abdullah Al Mahmud	Filled
Data entry operator	1	Update asset management system	Part-time / 70%	Mst. Kamrun Nahar	Filled
Work assistant	2	Daily construction supervision	Part-time / 80%	Lal Chad Mia, Md Iqbal Hossen	Filled
Driver	1		Outsourcing		*Partially filled through ISPMC contract.
Guard	1		Outsourcing		
MLSS	2		Outsourcing		
Sub-total	12				

FRERMIP = Flood and River Erosion Risk Management Investment Program, GAP = gender action plan, MLSS = member of lower subordinate staff, O&M = operation and maintenance, PMO = project management office, SMO = subproject management office, SOE = statement of expenditure.

* A total of 8 numbers of outsourcing staffs deployed through ISPMC contract (in PMO & all SMOs).

Source: Bangladesh Water Development Board.

Appendix 5: Status of Financial Management Action Plan

Key Risk	Risk Mitigating Activity	Timeline	Responsible Entity	Current status (implemented/Pending)	Remarks* (including an action plan in case of noncompliance)
Staffing	Assign adequate and qualified accounts staff ¹³ to the PMO and SMOs as well as the PMU/DDM. Engage an FM expert to support the project and facilitate compliance with ADB's FM requirements as part of the ISPMSC.	By Loan effectiveness Within one month after Loan effectiveness	BWDB and DDM BWDB	Currently, PMO has 1 deputy director and 1 senior accountant Assistant. Tangail SMO has the required Senior Accounts Assistant. ToR has been concurred by ADB. However, due to the limited time left, the engagement of an FM expert was dropped.	Though the staffing mentioned in footnote 1 is in the PAM, this staffing was not approved by the finance ministry during project (DPP) approval. As per approved DPP, PMO has 1 deputy director and 1 Senior Accounts Assistant. 1 accounts officer will be assigned to assist PMO accounting office upon approval of the higher authority of BWDB. – not yet assigned Koitola SMO is under Sirajganj SMO, accounts assistant is no longer required. PMO to ensure that at least 3 accounting staffs (BWDB staff or outsourced) are timely assigned until the end of the Project. – 3 has been provided by ISPMC.
FM capacity building	Training provided in ADB's FM requirements and disbursement procedures and systems (LFIS, CPD)	By project inception and continuous throughout project implementation.	BWDB and ADB	ADB disbursement training conducted in Oct 2023; no more training required.	No action required.
Internal audit	Ensure the project is included in the audit plan of the BWDB internal audit function.	By Loan effectiveness	BWDB	PMO should request audit directorate to include this project in their audit plan.	PMO to ensure to include the project in the BWDB audit plan. Letter to be submitted by 15 June 2023. – not yet done; letter to be submitted to Director, Audit by 15 May 2024 for audit to take place in Aug/Sep 2024.
External audit – Project level	Ensure the project is included in the audit plan of FAPAD; Cause consolidated project financial statements to be audited separately by FAPAD in accordance with ADB's audit requirements and submit the APFS and management letter to ADB.	Within 2 months after Loan effectiveness. Annually throughout project implementation.	BWDB	Done for 2023; another audit report is required for 2024 to be submitted by 31 Dec 2024	FAPAD will submit APFS to ADB annually.

¹³ The accounts staff assigned to the PMO will include the following fulltime positions: (i) A Deputy Director -Accounts, (ii) an accounts Officer (iii) three Senior Accountants Assistants. In addition, each of the three SMOs will include one Senior Accounts Assistant.

Key Risk	Risk Mitigating Activity	Timeline	Responsible Entity	Current status (implemented/Pending)	Remarks* (including an action plan in case of noncompliance)
	Address audit observations in a timely manner.	Continuous throughout the project.			Audit observation will be addressed in a timely manner. For audit report 2023, 4 observations have been settled and are 2 under progress.
Financial reporting	<p>Include comprehensive financial information as agreed with ADB in the QPRs.</p> <p>Prepare PFS in a format agreed with ADB (including statement of budget vs actual, WA-wise reconciliation and comprehensive notes disclosures)</p>	<p>Within 45 days from end of each quarter.</p> <p>Annually -within two months after the end of the fiscal year.</p>	BWDB	Ongoing. It is included in every QPRs.	PFS will be prepared. PMO to provide more comprehensive reporting for QPRs.
Information systems	Use of ADB's disbursement systems (CPD & LFIS) to reconcile project accounts and ADB disbursement records on a quarterly basis. Detailed reconciliation by WA to be included in the QPRs and the APFS submitted to ADB.	Quarterly from loan first disbursement throughout project implementation.	BWDB	Ongoing. PMO is already using CPD and LFIS.	ADB's disbursement systems (CPD & LFIS) are being used timely to reconcile project accounts and ADB disbursement records on a quarterly basis. No action required.
Information systems	Computerize all accounts including receipts and payments under the ADB loan and automate financial reporting to the extent possible.	Within the first 6 months of implementation.	BWDB	Still pending. Accounting software (i.e., TALLY) is not yet being used.	All accounts will be computerized with a suitable accounting software (i.e. TALLY) including receipts and payments under the ADB loan and GoN grant, and automate financial reporting to the extent possible by 30 June 2023. Currently, all records are kept in MS Excel format separately. PMO to move to accounting software (i.e. TALLY) asap; buying/installation of accounting software by 10 May 2024; training to be provided by ISPMC and data entry specialist/operator to be provided by ISPMC to initiate data entry (before 26 June 2024)
Records management	All supporting documents (or copy of such documents) to support expenditures claimed from ADB under SOE must be sent from District Offices to the PMO regularly.	Monthly	BWDB and DDM	Ongoing. The documents are being filed regularly.	No action required.

Key Risk	Risk Mitigating Activity	Timeline	Responsible Entity	Current status (implemented/Pending)	Remarks* (including an action plan in case of noncompliance)
	The supporting documentation is to be filed properly at the PMO to support ADB's SOE reviews and annual project audits.				

ADB = Asian Development Bank, APFS = audited project financial statements, BWDB = Bangladesh Water Development Board, CPD = Client Portal for Disbursements, DDM = Department of Disaster Management, FAPAD = Foreign Aided Projects Audit Directorate, FM = financial management, ISPMC = institutional strengthening and project management consultant, LFIS = Loan Financial Information Services, PFS = Project Financial Statements, PMO = project management office, PMU = project management unit, QPR = Quarterly Progress Report, SOE = statement of expenditure, WA = withdrawal application.

Source: Asian Development Bank and Bangladesh Water Development Board.

Appendix 6: Status of Design and Monitoring Framework and Revisions Proposed

Results Chain	Performance Indicators with Targets and Baselines	Status
Outcome Flood and riverbank erosion risks in the subproject areas reduced	By 2025:	
	a. 15,400 ha of land protected from inundation damages (2020 baseline = 0) (3,600 ha) ^c (OP 3.2, 5.3)	<p>The length originally planned of 7.5 km of flood embankment had to be reduced due to lack of counterpart funds for the land acquisition.</p> <p>Works for the construction of 2.5 km of embankment is ongoing and expected to be completed by project closure date. The remaining 5 km of embankment will be incorporated in the follow-on project.</p>
	b. About 0.5 million people protected from inundation damages (2020 baseline = 0) (0.1 million people) ^c (OP 2.1, 3.2)	<p>The construction of the 2.5 km of flood embankment is ongoing.</p>
	c. 3,000 ha of lands with assets protected from riverbank erosion (2020 baseline = 0) (200 ha) ^{c,d} (OP 3.2, 5.1.1)	<p>The riverbank protection works are ongoing and expected to be completed by project closure.</p> <p>It is anticipated that the target value in ha of lands with assets to be protected from riverbank erosion will be over achieved by project closure.</p>
Outputs 1. Flood and riverbank erosion risk mitigation functioning at priority reaches improved	By 2024:	
	1a. 30 km of riverbank protected by applying appropriate technology and methodology ^e (2020 baseline = 0 (18 km) ^{c,d} (OP 1.2)	<p>On track to be achieved by project closure. It is anticipated that around 70km of riverbank will be protected.</p> <p>Approximately 35 km of riverbank protection works have been completed by 31 Dec 2023. Furthermore, to maximize the utilization of the loan proceeds within the limited remaining implementation period of Tranche 2, some of the savings under Tranche 2 are being used to construct approximately 30 km of additional riverbank protections in the subprojects with the same technology and methodology.</p>
1b. 7.9 km of climate-resilient flood embankment constructed, rehabilitated, or upgraded against 100-year probable floods (200-year flood along the main rivers) (2020 baseline = 0) (21 km) ^c (OP 1.2, 5.1.1)	<p>The reduced scope for Tranche 2 anticipated that 8 km of climate-resilient flood embankment would be constructed/ rehabilitated/ upgraded against the 100-year return period flood. However, due to government's budget constraints to allocate sufficient counterpart funds to timely acquire the required land, the length of the embankment has been reduced to 2.5 km. The remaining 5.4 km will be deferred to the follow-on project. This target will only be partly achieved.</p>	

Results Chain	Performance Indicators with Targets and Baselines	Status
	1c. 2 regulators and other hydraulic structures (i.e., fish passes) installed (2020 baseline = 0) (4) ^c	No regulators (with fish passes) will be constructed due to time constraints. Hydraulic structures, including regulators will be incorporated into the follow-on project as appropriate. This target will not be achieved.
	1d. 1 channel closure with “building with nature” approach ^f (2020 baseline = 0) (OP 1.2)	On track to be achieved by project closure; channel closure shifted from Salimabad to Dhaleswari.
	1e. 160 community-based disaster management units established (minimum of 35% women-led) and developing of their capacity (2020 baseline = 0) (baseline 40 units with 14 led by women) ^c (OP 1.3)	Due to time constraints and procurement delays, it is currently anticipated that this target will only be partly achieved. Establishing the remaining CDMUs will be part of the community activities under the follow-on project.
	1f. 14 community groups ⁹ established and livelihood training program conducted (50% women participants) (2020 baseline = 0) (6) ^c (OP 2.3, 2.5)	Likely to be achieved by project closure; it is anticipated that 14 community groups will be established and livelihood training programs conducted.
	1g. 12 fish sanctuaries established (2020 baseline = 0)	Will not be achieved. Revisited approach shows that beels are leased out for productive use, makes this activity doubtful, also for the follow-on project.
2. Institutional system for flood and riverbank erosion risk management strengthened	2a. Office of the CE-River Management operational (2020 baseline = office established) (OP 6.2)	Chief Engineer-River Management appointed and assumed office since 28 May 2023.
	2b. Information and management systems refined and piloted including: (i) project website and database with sex-disaggregated data as appropriate in use; (ii) web-based asset database developed and piloted; (iii) project monitoring system in use; and (iv) guideline for river stabilization prepared. (2020 baseline = databases outlined) (OP 6.2)	Activities are ongoing with databases being converted and incorporated into the BWDB database. Background information for river stabilization guideline is prepared. It is anticipated that this target will be fully achieved.
	2c. 5-year budgetary plan for riverbank protection O&M and emergency work for the main rivers submitted for endorsement by BWDB. (2020 baseline = initial draft submitted in November 2020)	On track to be achieved by project closure. The update of the plan is ongoing.
	2d. Long-term River stabilization and river management master plans refined to include char lands development and submitted for endorsement by BWDB (2020 baseline = initial plan for stabilization of main rivers endorsed by BWDB)	Background studies are being prepared to refine further the 2021-updated Guidelines in the future. Also, further publications and presentations are expected before project closure.
	2e. Gender responsive ^h guideline for river management (focus Lower Jamuna) submitted for endorsement to BWDB. (2020 baseline = studies initiated under Project 1, guideline approved in 2010)	On track to be achieved by project closure. Gender responsive guideline under preparation.
	2f. Project website updated (2020 baseline = website developed under Project 1)	On track to be achieved by project closure. The project website is being integrated into the BWDB system and updated.
3. Program management systems operational	3a. Management information system, quality control systems, accountability measures, and gender-sensitive project monitoring tools ⁱ established and used by PMO and SMOs (2020 baseline = N/A) (OP 6.2)	On track to be achieved by project closure. Activities are ongoing.

Results Chain	Performance Indicators with Targets and Baselines	Status
	3b. At least 60% of Office of the Chief Engineer River Management staff (including a minimum of 60% of female staff) with increased knowledge on Adaptive Approach ^l (2020 baseline: 0).	On track to be achieved by project closure. Activities are ongoing.
	3c. Follow-on project in line with Bangladesh Delta Plan 2100 and approved River Stabilization Plan (2020), expanding innovative technologies developed under this MFF prepared for the Government of Bangladesh and ADB approval. (2020 baseline = N/A)	On track to be achieved by project closure but ADB approval of follow-on project is anticipated in 2025.

ADB = Asian Development Bank, BBS = Bangladesh Bureau of Statistics, BWDB = Bangladesh Water Development Board, CE = Chief Engineer, CEGIS = Center for Environmental and Geographic Information Services, DC = deputy commissioner, DDM = Department of Disaster Management, DMU = disaster management unit, ha = hectare, ISPMC = institutional strengthening and project management consultant, km = kilometer, MIS = management information system, MFF = multitranche financing facility, MoU = memorandum of understanding, N/A = not applicable, NGO = nongovernment organization, O&M = operation and maintenance, OP = operational priority, PMO = project management office.

- ^a The design and monitoring framework (DMF) for Project 2 was prepared within the frame of the DMF of the MFF but adjusted to comply with the new DMF guidelines (ADB. 2020. *Guidelines for Preparing a Design and Monitoring Framework*. Manila).
- ^b The impact statement was defined for the investment program following previous DMF guidelines. However, it remains aligned with government priorities outlined in the Eighth Five-Year Plan, FY2020–FY2025 (Government of Bangladesh, Planning Commission. 2021).
- ^c Achieved under Project 1.
- ^d In the DMF of the MFF, 10 km were defined as baseline, as previously implemented in the project area under ADB-financed JMREMP, resulting in a pre-FRERMIP outcome of 43 ha of lands with assets protected from erosion.
- ^e Appropriate technology entails long-guiding revetments placed alongside the existing riverbanks, and built from cost effective, sustainable sand-filled geotextile bags. The revetments will be adapted in accordance with morphological changes (deepening of the river) with separate work packages under this Project 2. Appropriate methodology refers to the construction technology making use of precisely positioned floating equipment. The precise amount of underwater works along the highly variable banklines will be determined within 5 days prior to dumping (implementation design) and as-built conditions will be determined within 5 days after dumping. Subsequently, regular monitoring to determine performance and potential adaptation works takes place making use of multi-beam echosounder surveys.
- ^f “Building with nature” entails stimulating natural processes, for example closing an aggressively eroding bankline channel (Salimabad channel) through overloading with sediment, and measures involving bio-engineering, such as the plantation of large reed fields, which encourage the settlement of finer material and help building up char land to floodplain level.
- ^g Community groups are comprised of vulnerable people from the Project area.
- ^h Including, but not limited to, women’s participation in consultations, surveys, accountability mechanisms, and collection and reporting on sex-disaggregated data
- ⁱ Including explicit gender equality objectives and indicators. The M&E tools developed will assess qualitative and quantitative data measuring accountability of progress made on gender equality issues.
- ^j “Adaptive Approach” refers to the adoption of flexible implementation to address ongoing morphological changes in the river with protection of riverbanks with launching aprons that are subsequently strengthened and built to the final scour depth with the deepening of the river.

Contribution to Strategy 2030 Operational Priorities

Expected values and methodological details for all OP indicators to which Project 2 will contribute results are detailed in Contribution to Strategy 2030 Operational Priorities.

Source: Asian Development Bank.

Appendix 7: Policy Framework Road Map of the MFF

Key Issues and Actions	Objectives	Responsibilities	Timeframe
A: Policy and Planning Framework			
A-1. Approve Bangladesh Water Act	<ul style="list-style-type: none"> ▪ Give effect to the National Water Policy for integrated management, development, utilization, and protection of water resources, ▪ Regulates the distribution of responsibilities among different organizations concerned, and ▪ Vests the ownership of water resources in the government. 	GoB	Completed in May 2013
A-2. Develop long-term stabilization plan for the main rivers	<ul style="list-style-type: none"> ▪ Formulate a strategic holistic long-term flood and riverbank erosion risk management plan, towards more stabilized river channels and systematic management of the main rivers. 	BWDB	Completed under Project 1
A-3. Develop a preliminary river network management master plan for the main rivers and their tributaries and distributaries.	<ul style="list-style-type: none"> ▪ Formulate an overall preliminary future intervention plan for sustainable and multi-functional use of the main rivers including their tributaries and distributaries. This is to ensure to avoid disturbing other water and river uses by the flood and riverbank erosion risk management, and to explore most effective multi-functional use of the river system. 	BWDB, with close coordination with WARPO and other relevant organizations	Completed under Project 1
A-4(1). Approve Disaster Management Act	<ul style="list-style-type: none"> ▪ Defines disaster and lays down the institutional arrangements for disaster management at national and field levels. 	GoB	Completed in 2012
A-5(2). Approve Standing Order on Disaster	<ul style="list-style-type: none"> ▪ Define roles and responsibilities of different players at various levels of the government administrative structure at times of disaster 	GoB	Completed in 2012
B: Institutional Basis for Flood and Riverbank Erosion Risk Management			
1. BWDB			
B-1. Establish Chief Engineer (River Management) position and his/her office, if the proposed multi-disciplinary need-based set for BWDB is approved.	<ul style="list-style-type: none"> ▪ Establish the institutional core of the strategic and holistic management of the main rivers, with clear delineation of its functions. 	BWDB	Need-based set-up approved on 3 Nov 2014; Chief Engineer has been assigned to start activities on 28 May 2023.

Key Issues and Actions	Objectives	Responsibilities	Timeframe
B-2. Strengthen capacity of the office of Chief Engineer (River Management)	<ul style="list-style-type: none"> ▪ Operationalize a new office with competent technical knowledge and adequate capacity of institutional coordination with relevant parties like zonal chief engineers of BWDB and DDM 	BWDB	Entire MFF period; ongoing
B-3. Strengthen capacity of BWDB design circles	<ul style="list-style-type: none"> ▪ Establish competent, concrete and widespread knowledge of design of innovative riverbank protection structures in BWDB. 	BWDB	Entire MFF period; ongoing
B-4. Strengthening capacity for environment and safeguard monitoring for flood and riverbank erosion risk management works	<ul style="list-style-type: none"> ▪ Develop sustainable and competent environment and social safeguard implementation and monitoring capacity within BWDB for the flood and riverbank erosion risk management projects for the main rivers, which will involve significant physical interventions. 	BWDB	Entire MFF period; ongoing
2. Inter-ministerial coordination			
B-6. Develop and sign holistic MOU between BWDB and DDM	<ul style="list-style-type: none"> ▪ Establish and operationalize long-term effective coordination mechanism of the two agencies for encouraging DDM's community level activities in BWDB's project areas. 	BWDB	Completed; MoU for Project 2 was signed on 6 Feb 23
B-7. Strengthening inter-departmental coordination and knowledge sharing and dissemination capacity of BWDB	<ul style="list-style-type: none"> ▪ Develop institutional and human resources basis for operationalizing the long-term effective coordination mechanism of BWDB with DDM and other institutions. ▪ Develop institutional capacity of BWDB for disseminating its activities and achievements for better institutional coordination 	BWDB	2 roundtable discussions organized and 3 rd planned for end of April/early May. One final national stakeholder workshop planned for early June 2024.
3. Community level operations			
B-8. Formulate community level disaster management units in subproject areas, and establish administrative coordination with existing district level disaster management units and between DDM and BWDB's offices	<ul style="list-style-type: none"> ▪ Establish community-level institutional set-ups for operationalizing flood and riverbank erosion risk management. 	DDM, BWDB	40 completed under Project 1; ongoing under Project 2
B-9. Establish community participation systems for community-level flood disaster risk management and routine operation and maintenance of flood and	<ul style="list-style-type: none"> ▪ Develop community-level mechanisms for self-dependent flood and riverbank erosion risk management and sustainable infrastructure 	BWDB, DDM	40 completed under Project 1; ongoing under Project 2

Key Issues and Actions	Objectives	Responsibilities	Timeframe
riverbank protection infrastructure, and strengthen capacity of community organizations	management, through encouraging ownership of beneficiaries.		
C: Flood and Riverbank Erosion Risk Management Planning and Operation Platform and Tools			
C-1. Establish flood and riverbank erosion risk management infrastructure asset MIS	<ul style="list-style-type: none"> ▪ Establish basis for strategic and transparent O&M of infrastructure. 	BWDB	Parts completed under Project 1; ongoing under Project 2
C-2. Establish 5-year flood and riverbank protection O&M and emergency work plan for the main rivers	<ul style="list-style-type: none"> ▪ Develop the strategic and transparent O&M and budgetary planning system, with adequate understanding of overall infrastructure status and of river morphology. 	BWDB	Parts completed under Project 1; ongoing under Project 2 and linked to the round table discussions on the role of the Chief Engineer River Management. Planned to be completed in Q2.
C-3. Improve existing guidelines and tools including (i) short-term riverbank erosion prediction model, and (ii) design guidelines for riverbank protection works.	<ul style="list-style-type: none"> ▪ Explore more effective tools for the better management and strengthen institutional capacity of BWDB for improving existing own capacity. 	BWDB	Parts completed under Project 1; ongoing under Project 2

BWDB = Bangladesh Water Development Board; DDM = Department of Disaster Management; MIS = management information system; MORW = Ministry of Water Resources; O&M = operation and maintenance; WARPO = Water Resources Planning Organization.

Appendix 88: Status of Compliance with the Loan and Grant Covenants

A. Loan Covenants Per Schedule 4 of the Loan Agreement

Description	Remarks/Issues
Implementation Arrangements	
1. The Borrower and BWDB shall ensure that the Project is implemented in Accordance with the detailed arrangements set forth in the PAM. Any subsequent change to the PAM shall become effective only after approval of such change by the Borrower, BWDB, and ADB. In the event of any discrepancy between the PAM and this Loan Agreement, the provisions of this Loan Agreement shall prevail.	Being complied with.
2. The Borrower shall cause BWDB to ensure that the PMO, the SMOs and the PMU employ sufficient staff for the duration of the Project with adequate and relevant expertise in the field of project management, financial management, engineering, procurement, environmental and social safeguards implementation. The Borrower shall cause BWDB to keep the PMO, the SMOs and the PMU equipped with the necessary office space, facilities, equipment, transport arrangements, support staff and management information systems for the entire duration of the Project.	Substantially complied due to issue on missing staff.
3. The Borrower shall cause BWDB to (a) ensure that all counterpart staff assigned to the PMO and to the SMOs are allocated to the Investment Program and the Project on a full-time basis; and (b) undertake best efforts to ensure that all persons assigned to the PMO, the SMOs and the PMU remain in their positions for a reasonable period of time and that staff replacements will not unduly disrupt implementation of the Investment Program and the Project. Without limiting the generality of the foregoing, the Borrower shall cause BWDB to assign (i) experienced accounting staff to the PMO and SMOs, (ii) an experience financial management expert to support the PMO, and (iii) a Subdivisional Engineer to each SMO, in each case as provided in the PAM. The Borrower shall, or cause BWDB to, provide ADB reasonable opportunity to comment on any proposed appointment of persons to key positions in the PMO and SMOs, including, without limitation, the position of Project Director of the PMO and Executive Engineer of each SMO.	Complied.
4. The Borrower shall cause BWDB to ensure that the Project Director of the PMO holds the position not less than the rank of Superintending Engineer.	Complied.
Procurement	
5. The Borrower shall ensure, or cause BWDB to ensure, that: (a) the procurement of Goods, Works and Services is carried out in accordance with the Procurement Policy and the Procurement Regulations;	Being complied, CPTU and ADB post-sampling review currently ongoing (6 packages – G&W)
(b) Goods, Works and Services shall be procured based on the detailed arrangements set forth in the Procurement Plan, including the procurement and selection methods, the type of bidding documents, and ADB's review requirements. The Borrower, through BWDB, may modify the detailed arrangements set forth in the Procurement Plan only with the prior agreement of ADB, and such modifications must be set out in updates to the Procurement Plan; and	Currently being complied with.
(c) all Goods and Works procured and Services obtained (including all computer hardware, software and systems, whether separately procured or incorporated within other goods and services procured) do not violate or infringe any industrial property or intellectual property right or claim of any third party; and (ii) all contracts for the procurement of Goods, Works and Services contain appropriate representations, warranties and, if appropriate, indemnities from the contractor, supplier, consultant or service provider with respect to the matters referred to in this subparagraph.	Currently being complied with.
6. The Borrower shall ensure, or cause BWDB to, announce the Project and business opportunities (i.e., invitation of potential bids) associated with the Project on its website. The website shall disclose the following information in relation to Works and Services procured for the project: (a) the list of participating bidders; (b) the name of the selected bidder; (c) the amount of the contracts awarded; and (d) the services procured.	Currently being complied with. (CPTU website)
Conditions for Award of Contract	
7. The Borrower shall ensure, or cause BWDB to ensure, that no Works contract is awarded which involves environmental impacts until:	Complied.

Description	Remarks/Issues
<p>(a) the Department of Environment, under the Ministry of Environment and Forest, has granted final approval of the EIA; and</p> <p>(b) BWDB has incorporated the relevant provisions from the EMP into the Works contract.</p>	
<p>8. The Borrower shall ensure, or cause BWDB to ensure, that no Works contract is awarded which involves involuntary resettlement impacts until the Borrower has caused BWDB to prepare and submit to ADB the final version of the relevant RP based on the detailed design for the activities to be implemented in the relevant Subproject area, and obtained ADBs clearance of such RP.</p>	Currently being complied with.
<p>Counterpart Support</p> <p>9. The Borrower shall make available to BWDB all counterpart funds required for timely and effective implementation of the Project, including, without limitation, any funds required to keep the PMO and the SMOs fully equipped and fully staffed in accordance with the requirements set out in the PAM, to mitigate unforeseen environmental and social impacts, and to meet additional costs arising from design changes, price escalation in construction costs and/or unforeseen circumstances. The Borrower shall make the resources thus required available to BWDB on a quarterly basis for each fiscal year. In addition to the foregoing, the Borrower shall ensure that BWDB has sufficient funds to satisfy its liabilities arising from any Works, Goods and/or Services contract.</p>	Being complied with.
<p>10. The Borrower shall reimburse BWDB for any taxes and duties imposed in the territory of the Borrower for Goods, Works and Consulting Services used in the carrying out of the Project no later than the fiscal year after the year in which the taxes and duties were incurred.</p>	Being complied with.
<p>11. The Borrower agrees that, should any Project activities remain uncompleted prior to the conclusion of the availability period for the Facility, it shall make available to BWDB on a timely basis all necessary funds and other resources to ensure completion of the Project activities and achievement of the Project objectives.</p>	Funds for future adaptation works of newly constructed works (around 50km) will be needed by the PMO from early 2025; estimated around \$15 million.
<p>Selection of Subproject areas</p> <p>12. The Borrower shall ensure, or cause BWDB to ensure, that each Subproject area is selected and approved in accordance with the selection criteria and approval process set out in Schedule 4 of the FFA. The Borrower shall ensure, or cause BWDB to ensure, that all relevant documents forming the basis for screening, selection and processing of Subproject areas are made available to ADB upon request and are kept available for such purposes for a minimum period of five years from the date of the completion report for the Facility.</p>	Complied.
<p>Environment</p> <p>13. The Borrower shall ensure, or cause BWDB to ensure, that the preparation, design, construction, implementation, operation and decommissioning of all Project facilities comply with (a) all applicable laws and regulations of the Borrower relating to environment, health, and safety; (b) the Environmental Safeguards; (c) the updated EARF; and (d) all measures and requirements set forth in the respective EIA report and EMP, and any corrective or preventative actions set forth in a safeguards Monitoring Report.</p>	Currently being complied with.
<p>Land Acquisition and Involuntary Resettlement</p> <p>14. The Borrower shall ensure, or cause BWDB to ensure, that all land and all rights-of-way required for all Project facilities are made available to the Works contractor in accordance with the schedule agreed under the related Works contract and all land acquisition and resettlement activities are implemented in compliance with (a) all applicable laws and regulations of the Borrower relating to land acquisition and involuntary resettlement; (b) the Involuntary Resettlement Safeguards; (c) the updated RF; and (d) all measures and requirements set forth in the respective RP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report.</p>	Currently being complied with.
<p>15. Without limiting the application of the Involuntary Resettlement Safeguards, the updated RF or the RP, the Borrower shall ensure, or cause BWDB to ensure, that no physical or economic displacement takes place in a Subproject area until:</p> <p>(a) compensation and other entitlements have been provided to affected people in accordance with the relevant RP; and</p>	Currently being complied with.
<p>(b) a comprehensive income and livelihood restoration program has been established in accordance with the relevant RP.</p>	Currently being complied with.

Description	Remarks/Issues
<p>Indigenous Peoples</p> <p>16. The Borrower shall ensure, or cause BWDB to ensure, that the Project does not have any impacts on indigenous peoples (also referred to as tribes, minor races, ethnic sects and communities under the laws of the Borrower) within the meaning of the SPS. In the unforeseen event that the Project does have any such impact, the Borrower shall take, or cause BWDB to take, all steps required to ensure that the Project complies with the applicable laws and regulations of the Borrower and with the SPS.</p>	Currently being complied with.
<p>Human and Financial Resources to Implement Safeguards Requirements</p> <p>17. The Borrower shall make available, or cause BWDB to make available, the necessary budgetary and human resources to fully implement the EMPs and the RPs.</p>	Currently being complied with.
<p>Safeguards Related Provisions in Bidding Documents and Works Contracts</p> <p>18. The Borrower shall ensure, or cause BWDB to ensure, that all bidding documents and contracts for Works contain provisions that require contractors to:</p> <p>(a) comply with the measures and requirements relevant to the contractor set forth in the relevant EIA, EMP and RP (to the extent they concern impacts on affected people during construction), and any corrective or preventative actions set out in a Safeguards Monitoring Report;</p>	Currently being complied with.
<p>(b) make available a budget for all such environmental and social measures;</p>	Currently being complied with.
<p>(c) provide BWDB with a written notice of any unanticipated environmental, resettlement or indigenous peoples risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the relevant EIA, EMP or RP;</p>	Not yet required.
<p>(d) adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and</p>	Currently being complied with.
<p>(e) fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.</p>	Currently being complied with.
<p>Safeguards Monitoring and Reporting</p>	
<p>19. The Borrower shall, or cause BWDB to, do the following:</p> <p>(a) submit semi-annual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission;</p>	Currently being complied with.
<p>(b) if any unanticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the relevant EIA, EMP or RP, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan;</p>	Currently being complied with.
<p>(c) no later than 6 months after effectiveness, engage qualified and experienced external experts or qualified NGOs under a selection process and terms of reference acceptable to ADB, to verify information produced through the Project monitoring process in respect of (i) land acquisition and involuntary resettlement and (ii) environmental impacts (if it is determined that the Project will have significant adverse environmental impacts), and facilitate the carrying out of any verification activities related to (i) land acquisition and involuntary resettlement and (ii) environmental impacts (if it is determined that the Project will have significant adverse environmental impacts), by such external experts; and</p>	Currently being complied with.
<p>(d) report any actual or potential breach of compliance with the measures and requirements set forth in an EMP or RP promptly after becoming aware of the breach.</p>	Currently being complied with.
<p>Prohibited List of Investments</p>	
<p>20. The Borrower shall ensure, or cause BWDB to ensure, that no proceeds of the Loan and/or the Grant are used to finance any activity included in the list of prohibited investment activities provided in Appendix 5 of the SPS.</p>	Currently being complied with.
<p>Labor Standards, Health and Safety</p>	
<p>21. The Borrower shall ensure, or cause BWDB to ensure, that the core labor standards and the Borrowers applicable laws and regulations are complied with during Project implementation. The Borrower shall cause BWDB to include specific provisions in the bidding documents and contracts financed by ADB under the Project requiring that the contractors, among other things: (a) comply with the Borrowers applicable labor law and regulations and incorporate applicable workplace occupational safety norms; (b) do not use child labor; (c) do not discriminate workers in respect of employment and occupation; (d) do not use forced labor; © allow freedom of association and effectively recognize the right to collective bargaining; and (f) disseminate, or engage appropriate service providers to disseminate, information on the risks of sexually transmitted diseases, including HIV/AIDS,</p>	Currently being complied with.

Description	Remarks/Issues
to the employees of contractors engaged under the Project and to members of the local communities surrounding the Project area, particularly women.	
22. The Borrower shall cause BWDB to strictly monitor compliance with the requirements set forth in paragraph 21 above and provide ADB with regular reports.	Currently being complied with.
Gender and Development 23. The Borrower shall ensure, or cause BWDB to ensure, that (a) the GAP is implemented in accordance with its terms; (b) the bidding documents and contracts include relevant provisions for contractors to comply with the measures set forth in the GAP; (c) adequate resources are allocated for implementation of the GAP; and (d) progress on implementation of the GAP, including progress toward achieving key gender outcome and output targets, are regularly monitored and reported to ADB.	Currently being complied with.
Quality Assurance 24. The Borrower shall cause BWDB to ensure (a) that all underwater works of riverbank protection facilities to be constructed under the Project are carried out in accordance with the applicable design standards, specifications and construction methods; (b) BWDB inspects each section completed under each Works contract using high-resolution underwater echo sound surveying equipment with technical specifications acceptable to ADB and through diving inspections; and (c) all survey and inspection results are made available to external experts and ADB upon request and are kept available for such purposes for a minimum period of five years from the date of the completion report for the Facility.	Currently being complied with.
Panel of Experts 25. If and when ADB may so request from time to time, the Borrower shall cause BWDB to recruit and engage experts with qualifications, experience and terms of reference acceptable to ADB in order to analyze difficulties or constraints encountered in implementing the Investment Program or the Project, and advise on remedial measures or technological innovations to promote efficiency in project implementation.	Currently not required.
Inter-agency Coordination 26. The Borrower shall cause BWDB to timely notify the Bangladesh Inland Water Transportation Authority, DDM and other relevant agencies of any areas where riverbank protection infrastructure will be or has been constructed. The Borrower shall cause BWDB to take necessary measures in consultation with such agencies to ensure that dredging or construction works undertaken by such agencies do not cause any damage to the riverbank protection infrastructure.	Currently being complied with.
Operation and Maintenance of Project Facilities 27. The Borrower shall ensure, or cause BWDB to ensure, that (a) BWDB inspects and maintains the embankments, regulators and riverbank protection works rehabilitated or constructed under the Project in accordance with the operation and maintenance plans to be developed under the Investment Program and/or the Project; (b) BWDB submits annually to the Ministry of Water Resources budget requests with a separate line item to cover the cost of maintenance and repair of the embankments, riverbank protection works and regulators in accordance with such operation and maintenance plans; and (c) the Borrower allocates in its annual budget adequate resources for BWDB to carry out such maintenance and repair works and make the resources thus allocated available to BWDB on a quarterly basis.	Currently being complied with.
28. The Borrower shall cause BWDB to create strategic stockpiles of geo-textile bags for emergency riverbank protection works and repairs in accordance with the emergency and operation and maintenance plans to be developed under Investment Program and/or the Project.	Currently being complied with.
Road Map and Policy and Institutional Reforms The Borrower shall ensure, and cause BWDB to ensure, that it remains committed to the road map and the policy framework underlying the Investment Program and implement the policy and institutional reform actions identified under the road map in accordance with the time schedule set out therein.	Currently being complied with.
Policy Dialogue and Coordination with Development Partners 29. The Borrower shall ensure, and cause BWDB to ensure, that ADB is kept informed, through the Water Consultative Committee or otherwise, of discussions (a) among government and quasigovernment bodies with responsibility for water sector development; and (b) with Japan International Cooperation Agency (JICA), the Government of the Netherlands, World Bank and other multilateral and bilateral agencies, that have implications for the	Currently being complied with (ongoing roundtable discussions with the Chief Engineer River Management)

Description	Remarks/Issues
implementation of the Investment Program, and shall provide ADB with an opportunity to comment on any proposed interventions in the water sector resulting from such discussions. The Borrower shall ensure, and cause BWDB to ensure, that ADB's views are taken into consideration before finalizing and implementing any such proposals.	
Financial Matters 30. The Borrower shall ensure, or cause BWDB to ensure, that the agreed financial management action plan set out in the PAM is implemented within the stipulated time frame and the progress toward achieving the targets, are monitored and reported to ADB.	Being complied with (accounting software still to be purchased and used).
Governance and Anticorruption 31. The Borrower and BWDB shall (a) comply with ADBs Anticorruption Policy (1998, as amended to date) and acknowledge that ADB reserves the right to investigate directly, or through its agents, any alleged corrupt, fraudulent, collusive or coercive practice relating to the Project; and (b) cooperate with any such investigation and extend all necessary assistance for satisfactory completion of such investigation.	Currently being complied with.
32. The Borrower and BWDB shall ensure that the anticorruption provisions acceptable to ADB are included in all bidding documents and contracts, including provisions specifying the right of ADB to audit and examine the records and accounts of the executing and implementing agencies and all contractors, suppliers, consultants, and other service providers as they relate to the Project.	Currently being complied with.

B. Grant Covenants per Article IV of the Grant Agreement

Description	Remarks/Issues
Section 4.01. In the carrying out of the Project and operation of the Project facilities, the Recipient shall perform, or cause to be performed, all obligations set forth in Schedule 4 to the ADB Loan Agreement.	Currently being complied with.
Section 4.02. ADB shall disclose the annual audited financial statements for the Project and the opinion of the auditors on the financial statements within 14 days of the date of ADB's confirmation of their acceptability by posting them on ADB's website.	Complied for FY 2023.
Section 4.03. The Recipient shall enable ADB's representatives to inspect the Project, the Goods, Works and Services, and any relevant records and documents.	Currently being complied with.
Section 4.04. The Recipient acknowledges and agrees that this Grant Agreement is entered into by ADB, not in its individual capacity, but as grant administrator for the Government of Netherlands. Accordingly, the Recipient agrees that (a) it may only withdraw Grant proceeds to the extent that ADB has received proceeds for the Grant from the Government of Netherlands; and (b) that ADB does not assume any obligations or responsibilities of the Government of Netherlands in respect of the Project or the Grant other than those set out in this Grant Agreement.	Currently being complied with.

APPENDIX 9: Cumulative Gender Action Plan Implementation Progress Report as of 31 March 2024

Activities and Targets	Cumulative Progress up to 31 March 2024
<p>Output 1: Flood and riverbank erosion risk mitigation functioning at priority reaches improved</p>	
<p>Activity-1: Women benefit from employment in construction. Target-1.1: At least 5% of unskilled labor days allocated for women.</p>	<p>Project-2: A total of seventeen Contractors have been mobilized since inception. Out of seventeen Contractors, 6 Contractors have completed their work and 11 Contractors continued working under work packages 1, 2,3,4,6,7,9, 10, 21, 22 & 25, and engaged unskilled laborers in the work. A total of 5,249 (1,582+3,667) women labor days (1.36% of the total) out of a total of 385,187 unskilled labor days were worked in construction sites. Given the heavy weight and nature of work where 250 kg of geotextile bags filling, stitching, and dumping on the barges were required, the women were employed for cooking, cleaning, and washing purposes at the construction site office. Under the work package-11, women labor was engaged for earth filling, tree plantation, fencing, nourishment of plants, etc.</p> <p>Project-1: A total of 2,469 female laborers (8.61% of the total) out of a total of 28,687 unskilled laborers worked in construction sites. Given the heavy weight and nature of work where 250 kg geotextile bag filling, stitching and dumping on the barges was required, the women were employed in dressing and turfing works and in vetiver grass plantation for slope protection.</p>
<p>Activity-2: Gender-related aspect of labor standard including equal wage for women and men for equal work ensured. Target 2.1: All bidding documents incorporated provisions for core labor standards and equal pay. Target 2.2: At least one awareness program per package on GBV and community-based redress mechanism and disseminate information at worksites on the risks of STIs (including HIV/AIDS) with 30% women participation.</p>	<p>Project-2: 2.1: Till 31st March, 17 nos. of bidding documents have been prepared for civil work, and specific clauses on core labor standards information's included in all the bidding documents and followed accordingly. The number of clauses is:</p> <ul style="list-style-type: none"> • GCC-clause #s 27,28,29.30 & 30.1 and sub-clauses #s 22,24,27, 27.1(a), 29.4, 31, 32, 33,34, 80 & 82. • PCC- clause #s 97, 98 & 99 <p>2.2: Contractors are in the process to organize an awareness program on GBV & STIs including HIV/AIDS. Contractors of all work packages have a plan to organize this training from 14 – 27 May,'24 and ISPMC, SMO and PMO will ensure this training.</p> <p>Project-1: 2.1: A total of 8 bid documents had the specific clause where unskilled laboring works were relevant and contractors could hire at least 5 % females as unskilled laborers in the work site. 2.2: N/A, because this target was not planned for project-1.</p>
<p>Activity 3: Occupational health and safety, safe water supply, sanitation (including separate toilets) ensured. Target-3.1: Orientation sessions on gender-responsive occupational</p>	<p>Project-2: 3.1: ISPMC organized a day-long training for SMO staff and Environmental Inspectors and Health & Safety Inspectors of all (17 packages) contract packages of civil work on gender-responsive occupational health and safety issues. A total of 29 participants attended this training and all were male because there are no female staff working on this project. It is noted that this training was conducted by external resource persons from the Bangladesh Red Crescent Society.</p>

Activities and Targets	Cumulative Progress up to 31 March 2024
<p>health and core labor standards conducted for 80 SMO staff (at least one orientation in each SMO and 90% relevant women staff) and contractors/representatives/site managers.</p> <p>Target-3.2: Provisions for either separate toilets for women on the project site or arrangements for use of facilities in nearby communities and/or HH.</p>	<p>Since inception, a total of 93 participants (29+64) from three SMOs and Contractor representatives from 17 work packages received training on gender-responsive occupational health and safety from the targeted 80 participants.</p> <p>A total of 16 staff (SMO Koitola-4, Contractors staff including labor representative-12) under Koitola SMO received training on GAP, social & gender clauses in bidding documents, and GAP reporting in FRERMIP-2.</p> <p>A total of 64 participants (all available staff) from three SMOs (Tangail-25, Manikgonj-16, and Koitola-23), Contractors and ISPMC staff received training on environmental management, health & safety including gender-related core labor standards through five training batches. Participants were XEN, SDE, Section officer, Site Manager, Site Supervisor, Site Engineer, Data Entry Operator, Surveyor, and some labor representatives and contractors' staff. It is noted that no female staff is available either in SMO or Contractor's office.</p> <p>3.2: Safe water supply and separate toilet facilities are available both for men and women at the all 17 work packages construction sites. Also provided Personal Protective Equipment (PPE) to all required staff, security guards & laborers.</p> <p>Project-1: 3.1: A total of four orientation training conducted in three SMOs in Manikgonj, Tangail, and Koitola on gender awareness and gender-related core labor standards. The total participants were 78, of whom 6 were women. 3.2: Safety kits including medical supports were available for the workers at construction sites. Separate toilet facilities were available for women at the construction sites.</p>
<p>Activity: 4: 110 community-based disaster management units established and their capacity developed.</p> <p>Target-4.1: A minimum of 35% of units led by women.</p> <p>Target-4.2: Community Flood Risk Assessment Report prepared in consultation with community (including 30% women) identifying: (i) risks for women, men, children and vulnerable groups; and (ii) disaster response coping mechanism related to flood and erosion warning.</p>	<p>Project-2: 4.1: This activity is under the Disaster Management Unit. An NGO, Center for National Resource Studies (CNRS) recruitment has been completed effective from 14.03.2024 and mobilized at the field level. According to the revised ToR, a total of 15 CDMUs will be formed and CNRS agreed that they will ensure the 35% of Units to be led by women. MoU has been signed between BWDB and DDM on 6th February '23. 4.2: According to the revised ToR, CNRS will prepare the flood risk assessment report and will ensure 30% of women participation in the consultations by 15th of May, 2024. 4.3: According to the revised ToR and agreement between DDM and CNRS, CNRS will prepare 32 nos of Community Risk Reduction Plan for selected 32 unions based on the community risk assessment report specifying the roles of women and men in disaster preparedness at HHs and community levels.</p>

Activities and Targets	Cumulative Progress up to 31 March 2024
<p>Target-4.3: Community Risk Reduction Plan (80 plans) specifying roles of women and men in disaster preparedness at HH and community levels; and risk reduction measures.</p> <p>Target-4.4: At least 30% women participated in public consultations held for location identified to build community flood markers.</p> <p>Target-4.5: Community-based flood warning procedures initiated with 50% applying flood warning mechanisms building on indigenous techniques and disseminating warning messages in relevant to local context/language in line with national warning network (Source: end-line beneficiary survey).</p> <p>Target 4.6: 50% of HH, including low-income HH, and poor women, living on the embankment have increased resilience and awareness of preventive measures at HH level [Source: end-line beneficiary survey].</p>	<p>4.4: As per the agreed contract document, CNRS will ensure 30% of women participation in consultations to be held at project areas. This target will be achieved by 15th June 2024.</p> <p>4.5: According to the revised ToR and agreed contract document, CNRS will conduct a digital end-line sample household-beneficiary survey of Project-1 to show the results of the previous interventions by 31st May, '2024.</p> <p>4.6: According to the revised ToR and agreed contract document, CNRS will conduct a digital end-line sample household-beneficiary survey of Project-1 to show the results of the previous interventions by 31st May, '2024.</p> <p>Project-1:</p> <p>4.1: A total of 40 CDMUs were formed. The total number of volunteers was 605, and out of them, 244 (40.33%) were female. Women-led all (100%) CDMUs as leader/deputy leaders.</p> <p>4.2:</p> <ul style="list-style-type: none"> • A total of 57% of women and girls attended the community consultation sessions out of the targeted 35%. • A total of 77.14% of women participated in the community flood risk assessment as well as the development of the community risk reduction plan. <p>4.3: 40 community risk reduction plans were prepared in 40 CDMUs by the volunteers.</p> <p>4.4: 114 locations were identified out of the targeted 60 locations. % of women participation was not mentioned in the target.</p> <p>4.5:</p> <ul style="list-style-type: none"> • Established flood-warning mechanisms for the community people in all 40 (100%) units. • A total of 605 (244 women and 361 men) volunteers received five-day training from 40 CDMUs on flood warning procedures. • The end-line beneficiary survey was not conducted. The project conducted FGDs and individual interviews to assess the impact of the flood warning mechanisms. A total of 109 community people including volunteers, of whom 71 (65%) were women and girls participated, covering 8 CDMUs (20% of 40 CDMUs) in three locations of Manikgonj and Sirajgonj districts. <p>4.6: 100% of the 60,000 identified beneficiary households, including low-income households, and poor women living on the embankment participated in the awareness-raising program.</p>
<p>Activity-5: Training on gender awareness and leadership, and on participatory O&M on the infrastructure built conducted.</p> <p>Target-5.1: At least 30% women (including management committee members) reported to gain from the gender awareness</p>	<p>Project-2:</p> <p>5.1: According to the revised ToR and agreed contract document, CNRS will organize and conduct training for 200 community volunteers including the management committee members on gender awareness and leadership training by 31st May, '2024. They will ensure 30% women participation in the training.</p> <p>5.2: According to the revised ToR and agreed contract document, CNRS will assess & ensure that 30% of women reported additional knowledge gain from the O&M training.</p>

Activities and Targets	Cumulative Progress up to 31 March 2024
<p>and leadership training.</p> <p>Target-5.2: At least 30% women reported additional knowledge from the O&M training.</p> <p>Target-5.3: Information on GBV and community-based redress mechanism disseminated in every community.</p>	<p>5.3: According to the revised ToR and agreed contract document, CNRS will ensure to disseminate the information on GBV and community-based redress mechanism in every target community.</p> <p>Project-1: This activity was not targeted for Project-1.</p>
<p>Activity-6: Due consultation with women in the affected areas on payment and provision of full compensation and transitional support conducted.</p> <p>Target-6.1: Full compensation for 100% women PAPs, as per resettlement plans entitlements provided.</p> <p>Target-6.2: Data on PAPs along with entitlement benefits, as per resettlement plans is sex-disaggregated.</p> <p>Target-6.3: Needs assessment for livelihood training, including for women, conducted.</p> <p>Target-6.4: At least 14 community groups established and livelihood training conducted with at least 50% women participants</p>	<p>Project-2:</p> <p>6.1: The PMO has appointed INGO SAMAHAR on the 29th Feb 24, for implementing resettlement activities at Shahjadpur embankment. Land Acquisition Plan (LAP) has been submitted to the Ministry of Water Resources (MoWR) for approval of the Central Land Acquisition Committee (CLAC) and after approval compensation will be paid to the affected persons As per LAP, a total of 129 affected households (AHHs) has been identified in the proposed embankment area comprise a total of 645 affected persons, of which 319 are females and 326 are males. The Project will ensure full compensation for 100% women PAPs.</p> <p>6.2: The NGO, SAMAHAR is working for non-titles PAPs and sex-disaggregated all data on PAPs are available in the document. After approval of LAP, the same data will be collected for title-holders affected persons.</p> <p>6.3: As per the revised target, a total of 200 vulnerable APs will receive livelihood training. Out of these 200 APs, 107 were from the project 1 and 93 APs from the project 2. Livelihood training needs assessment has been completed for 107 APs of Project 1 and the remaining 93 APs will be conducted after approval of LAP and compensation payment by the DC.</p> <p>6.4: As per the submitted training plan, SAMAHAR will start Livelihood training on 7th May and will be completed by 3rd June 2024 for 200 vulnerable APs. A total of eight batches of training is planned for a 3-day duration comprising 25 participants in each batch. The NGO SAMAHAR will ensure targets for 50% of women participants.</p> <p>Project-1:</p> <p>6.1: A total of 2,535 affected persons received resettlement benefits and replacement costs. Among them, 244 were women (100% of women PAPs paid). Total of 3,746 out of 4,256 entitled persons received cash compensation by law through the Deputy Commissioner's Office. Among them, 115 are women (100% women entitled persons paid).</p> <p>6.2: A total of 324 planning meetings were held where 16,200 persons attended, and out of them, female were 9,072 (56%).</p> <p>6.3 & 6.4: No achievement. Target has been transferred to Project 2.</p>
<p>Output-2: Institutional System for Flood and Riverbank Erosion Risk Management Strengthened</p>	

Activities and Targets	Cumulative Progress up to 31 March 2024
<p>Activity- 7: Gender sensitization training for the BWDB officials conducted.</p> <p>Target 7.1: Existing gender-specific module updated to include awareness on GBV and community-based redress mechanism, and at least 10% women staff trained on the module.</p>	<p>Project-2: 7.1: ISPMC organized a 2-day training on Gender Mainstreaming and Gender-based violence on Feb 13-14, 2024 at ICT Lab, Pani Bhaban, BWDB. A total of 24 participants participated in the training where 13 females and 11 males were from BWDB, PMO, and SMO. They are Assistant Director, Executive Engineer, Sub-Divisional Engineer, Assistant Engineer, and Research Officer from different directorates. The training was conducted by 2 external resource persons and a Social Development and Gender Specialist of ISPMC. A detailed training report has been prepared and submitted to the Project Director. ISPMC has a plan to provide the same training to the SMO staff at the district level by May '2024.</p> <p>Project-1): A gender-specific module was integrated with the BWDB training and training conducted with 40 participants, of whom 16 (40%) were women.</p>
<p>Activity-8: Capacity of women staff in BWDB built.</p> <p>Target 8.1: 7 trainings (2 in BWDB HQ, 2 in design office and 3 in 3 SMOs) provided to at least 120 relevant staff in BWDB (at least 10% women staff).</p>	<p>Project-2: 8.1: A total of 4 trainings have already been organized by the PMO with having total of 48 participants (7 female participants). These are: i) Training on survey and data collection, ii) Training on Environmental management & ESIA, iii) Training on numerical modeling & GIS and iv) Training on River survey MIS users and administrators. PMO is also planning for the remaining three training for the capacity development of BWDB staff by May '2024. The planned trainings are: i) Land Acquisition and Social Safeguards (1-3 May, '24), ii) Procurement and Contract Management (9-11 May, '24), iii) Main River Management in Bangladesh (26-30 May, '2024).</p> <p>Project-1): A total of five training programs were held, and out of those, two trainings were held in BWDB HQ, two were held with three SMOs, and one was in the design office. Total 132 participants, out of whom 57 (43.18%) were female. The participants were all staff of site offices and staff of design offices.</p>
<p>Activity-9: Gender-responsive guideline for river management</p> <p>Target-9.1: One guideline developed (focus lower Jamuna) and submitted for endorsement to BWDB.</p>	<p>Project-2: 9.1: As per the Aide Memoire of inception mission (para 38, point vi) held on 13-22 February 2023, an outline can be prepared instead of the guideline. So, the target has changed as well.</p> <p>Project-1: This activity was not targeted for Project-1.</p>
<p>Output 3: Program management systems operational</p>	

Activities and Targets	Cumulative Progress up to 31 March 2024
<p>Activity – 10: MIS, quality control systems, accountability measures, and gender-sensitive project monitoring tools established and used by PMO and SMOs.</p> <p>Target-10.1: Explicit gender equality objectives and indicators established at planning stage to strengthen accountability of progress made on gender equality issues and to ensure that gender is fully integrated throughout the system for appropriate collection, compilation, analysis, dissemination, and use of gender data for decision making.</p> <p>Target-10.2: Gender-sensitive monitoring tools developed to assess qualitative and quantitative data against objectives, measuring Project impacts on gender relations, the different priorities and needs of women and men, and determine gender aspects that need to be integrated into M&E systems.</p> <p>Target-10.3: The lessons learned and tools developed will be used to inform the design and systems of the follow-on project.</p>	<p>Project-2: 10.1: Gender equality objectives and indicators are set up in the project planning and GAP and it will continue at the end of the project. The MIS system for this project has been developed and gender activities are fully integrated throughout the system. 10.2: Data collection is ongoing through using a prescribed format. Qualitative and quantitative data will ensure gender activities during the monitoring and data collection & analysis. The development of the M & E system has been completed and organized 5 days of training for the MIS users and Administrator. The following issues have been incorporated into the Management Information System (MIS):</p> <ul style="list-style-type: none"> • River Survey and Water Level MIS • Gender Action Plan MIS • Resettlement Plan MIS • FRERMIP Website • Follow-on Project MIS TOR <p>10.3: Based on the lessons learned from projects 1 & 2, a draft DMF and GAAP has been prepared.</p> <p>Project-1: Due to a shortage of funds, the establishment of the MIS system was dropped during the 1st revision of Project DPP (approved on 15 June 2017) and will be implemented under Project 2.</p>
<p>Activity-11: Office of the Chief Engineer River Management staff with increased knowledge.</p> <p>Target-11.1: At least 60% of all staff and a minimum of 60% of female staff have increased knowledge on Adaptive Approach.</p>	<p>Project-2: 11.1: The project has a plan to organize training on adaptive approaches for Office of the Chief Engineer River Management staff during 26-30 May 2024.</p> <p>Project-1: This activity was not targeted for Project-1.</p>