



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 Inception Mission
13 to 22 February 2023, 10 May 2023**

I. INTRODUCTION

1. The Asian Development Bank undertook a loan and grant inception mission (the Mission¹) from 13 to 22 February 2023 for the Flood and Riverbank Erosion Risk Management Investment Program – Tranche 2 project (Project 2) to (i) discuss the project administration manual, procurement of goods, works, consulting services, project staffing, financial management aspects, loan and grant covenants, gender aspects, social and environmental safeguards, reporting requirements, contract award and disbursement to date and for the remainder of the year, and ADB project performance rating system; (ii) review progress of activities, procurement of goods, works, and consulting services, as well as the status of the financial management action plan, of the road map of the investment program, and of the design and monitoring framework (DMF) of Project 2; (iii) discuss the government budget allocation for this fiscal year and the next one to ensure that sufficient counterpart funds have been provisioned by the government; (iv) ensure that the Project Management Office (PMO) understands the procedures for submitting withdrawal applications; (v) discuss actions to get the project performance rating back on track; (vi) agree an action plan for the next six months; (vii) discuss progress and issues with the Embassy of the Kingdom of the Netherlands (EKN); and (viii) delegate the project administration to Bangladesh Resident Mission (BRM).

2. The kick-off meeting was held on 13 February 2023. The Mission had extensive discussions with the PMO and members of the institutional strengthening and project management consultant (ISPMC) team. The Mission also had a meeting with the First Secretary Water Management and Food Security and the Senior Policy Advisor, Integrated Water Resources Management of EKN, and with DG, BWDB. A wrap up meeting with the Ministry of Water Resources (MoWR) took place on 22 February 2023 and was chaired by the Additional Secretary (Development Wing) of MoWR. A wrap up meeting with the Economic Relations Division (ERD) took place on 10 May 2023 and was chaired by the Joint Secretary (ADB Wing) of ERD. The findings of the mission were discussed during both meetings. The list of key persons met during 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 25 May 2023.

¹ The Mission comprised Mr. Olivier Drieu, Mission Leader, Senior Water Resources Specialist, SAER; Ms. Mio Oka, Director, SAER, Mr. Brando Angeles, Associate Environment Officer, SAER; Ms. Rachel Mendinueto, Project Analyst, SAER; Ms. Marjana Chowdhury, Water Resources Specialist, BRM; Ms. Kazi Akhmila, Safeguards Officer (Resettlement), BRM; Mr. Md. Sohel Rana, Project Analyst, BRM; Ms. Sinora Chakma, Gender Equality and Social Inclusion Specialist (Consultant), BRM; Mr. Folkert de Jager, First Secretary Water Management and Food Security, Embassy of the Kingdom of the Netherlands (EKN); and Mr. Md. Shibly Sadik, Senior Policy Advisor, Integrated Water Resources Management, EKN.

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 designed to be implemented over 9 years and financed in three tranches. However, at the government's request, 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. The MFF availability period has been extended 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** (Loan 3138/Grant 0396) was approved on 3 July 2014 for \$80.3 million,² 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 2021.³ 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 operate disaster-resilience action plan against flood and erosion disasters with 100% of units led by women; (iv) four new regulators 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** (Loan 4107/Grant 0799) was approved on 6 September 2021 for a loan of \$157 million and a grant of \$17.89 million from the Government of the Netherlands, 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. 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,⁴ (ii) 40 km of riverbank protection adaptation works and 6 km of emergency works, (iii) 7.9 km of

² The loan amount was for SDR 41.755 million, equivalent to \$65 million at approval. A grant from the Government of the Netherlands, fully administered by ADB, was approved with Loan 3138 for \$15.3 million.

³ 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.

⁴ An accretion in a river, the chars are valuable to the economy as additional cultivable areas.

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 programmed 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.

III. MISSION FINDINGS – IMPLEMENTATION STATUS

A. Procurement matters

9. **Overview.** Procurement for the project is to be carried out in accordance with ADB's Procurement Policy (2017, as amended from time to time) and the Procurement Regulations for ADB Borrowers (2017, as amended from time to time). All the works, goods, and consulting services packages are to be procured by PMO, apart from the goods and consulting services package for community-based flood risk management activities which is under DDM's responsibility. At the time of the mission, 11 packages were already awarded, two of which were yet to be recorded in the ADB system; subsequently to the mission, package C-21 was awarded; all 12 packages are now recorded in the ADB system, totaling around \$72.66 million, \$66.62 million of which is ADB financing share. Of the 12 packages, four are goods (G-01, G-02, G-02, G-04); five are works (W-01, W-02, W-03, W-04, W-05) and 3 are consulting services packages (C-01, C-05, C-21). Table 1 shows the list of awarded packages.

Table 1: Contract Amount of Awarded Packages (as of 27 April 2023)

Package	Contract Awarded (Est. in \$'000)	ADB share (Est. in \$'000)	Contract no. in ADB system	
			L4107	G0799
G-01: Geotextile bag supply for Upstream of Chauhali (15.50 km)	17.11	15.91	0005	--
G-02: Geotextile bag supply for Enayetpur (7 Km) & Benotia (3.50 Km)	11.41	10.61	0001	--
G-03: Geotextile bag supply for Harirampur extension (4 Km)	5.19	4.82	0002	--
G-04: Geotextile bag supply for Adaptation Works of completed works under JMREMP & FRERMIP Tranche-1 Project	6.68	6.21	0003	--
Sub-Total	40.39	37.55		
W-01: Benotia underwater riverbank protection with geotextile bags (3.50 km)	2.01	1.86	0008	0004
W-02: Enayetpur underwater riverbank protection with geotextile bags (7 km)	3.00	2.79	0009	0005
W-03: Upstream Chauhali underwater riverbank protection with geotextile bags (7.5 km)	3.43	3.19	0010	0006
W-04: Upstream Chauhali underwater riverbank protection with geotextile bags (8 km) including 1 km of dredging on the underwater slope	5.96	5.54	0007	0003

W-05: Underwater riverbank protection with geotextile bags at Harirampur Extension (4 km)	2.10	1.96	0011	0007
Sub-total	16.50	15.34		
C-01: Institutional Strengthening and Project Management	14.34	12.47	0004	0001
C-05: River survey (including bathymetric, ADCP and float tracking) and multi beam echosounder survey (4 years)	1.38	1.20	0006	0002
C-21: Procurement Specialist	0.07	0.06	0012	0008
Sub-total	15.78	13.73		
TOTAL	72.66	66.62		

10. ADB completed the prior review of four goods and 2 works packages. One goods package (G-05) remains to be prior reviewed by ADB, PMO submitted the draft bidding document to ADB on 27 April 2023. All the consulting services packages are under prior review. Three packages (C-01, C-05 and C-21) have been awarded. The Mission has completed the review of eight terms of reference (TOR) in December 2022 and packages have been tendered by the PMO, five TORs (C-02, C-03, C-07, C-10 and C-15) are currently under review with ADB, while TORs and bidding documents (BDs) for four packages (C-04, C-06, C-13 and C-16) are currently being prepared by the PMO. Table 2 shows the review type and status of the packages.

Table 2: Status of Goods, Works and Consulting Services Packages (as of 27 April 2023)

Package	Review Type	Status
Goods Packages		
G-01: Geotextile bag supply for Upstream of Chauhali (15.5 km)	Prior	Completed; awarded
G-02: Geotextile bag supply for Enayetpur (7 km) & Benotia (3.5 km)	Prior	Completed; awarded
G-03: Geotextile bag supply for Harirampur extension (4 km)	Prior	Completed; awarded
G-04: Geotextile bag supply for Adaptation Works of completed works under JMREMP & Project 1	Prior	Completed; awarded
G-05: Geotextile bag supply for Adaptation Works of Project 2	Prior	Draft bidding documents submitted by PMO to ADB on 27 April 2023 – the goods are needed after implementation of W-01 to W-05
G-06: Vehicles including 4 nos. pick up & 4 nos. Jeep vehicles	Post (Sampling)	Package to be deleted due to GoB ban on purchasing vehicles
G-07: Office Equipment	Post (Sampling)	Package was tendered but no bidders found responsive, requiring re-tender
G-08: Survey Equipment	Post (Sampling)	Package to be deleted due to GoB ban on purchasing vehicles
G-09: Office Equipment for DDM	Post (Sampling)	Package expected to be awarded in May 2023
Works Packages		
W-01: Benotia underwater riverbank protection with geotextile bags (3.5 km)	Post (Sampling)	Completed; awarded
W-02: Enayetpur underwater riverbank protection with geotextile bags (7 km)	Post (Sampling)	Completed; awarded
W-03: Upstream Chauhali underwater riverbank protection with geotextile bags (7.5 km)	Prior	Completed; awarded
W-04: Upstream Chauhali underwater riverbank protection with geotextile bags (8 km) including 1 km of dredging on the underwater slope	Prior	Completed; awarded
W-05: Underwater Riverbank protection with geotextile bags	Post	Completed; awarded

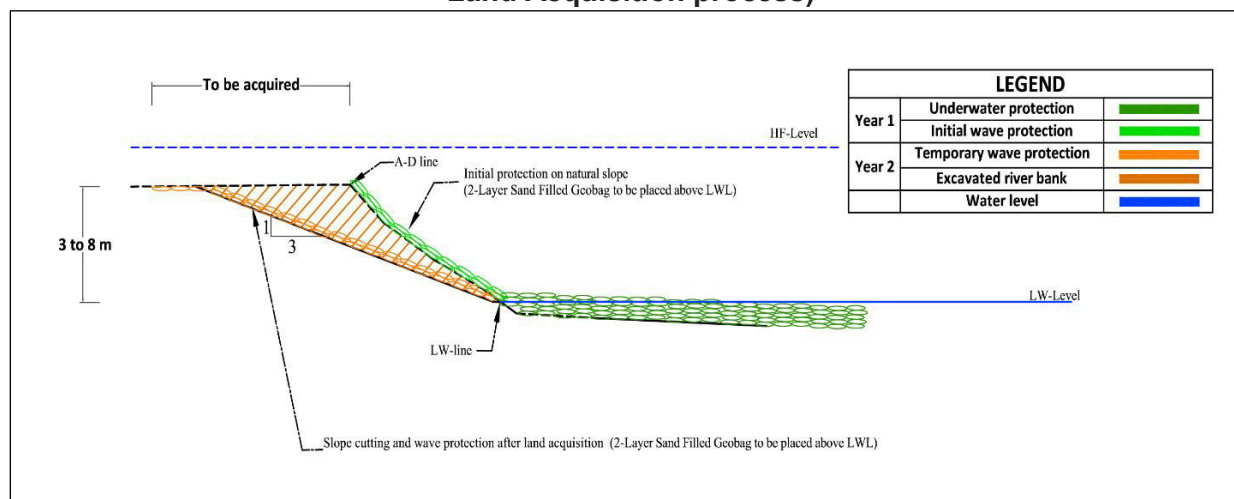
Package	Review Type	Status
at Harirampur Extension (4 km)	(Sampling)	
W-06: Adaptation works for riverbank protection with geotextile bags of completed works under JMREMP and Project 1	Post (Sampling)	Work order issued by PMO on 27 April 2023
W-07: Adaptation Works for riverbank protection with geotextile bags of Project 2	Post (Sampling)	To be started after implementation of W-01 to W-05
W-08: Jamuna River dredging and Salimabad channel choking	Prior	To be cancelled during MTR mission due to morphological change
W-09: Emergency Works	Post (Sampling)	Tenders received on 4 April 2023; evaluation is ongoing.
W-10: Shahjadpur Embankment Construction from chainage 21.300 to 29.200 (7.9 km)	Post (Sampling)	Tender preparation ongoing by PMO
W-11: Maintenance of Embankment Constructed under Project 1	Post (Sampling)	Tenders received on 4 April 2023; evaluation is ongoing.
W-12: Benotia riverbank temporary wave protection (3.5 km)	Post (Sampling)	To be deleted due to delays in required pre-work activities (details are in para.12)
W-13: Enayetpur riverbank temporary wave protection (7 km)	Post (Sampling)	
W-14: Upstream Chauhali temporary wave protection (15.5 km)	Prior	
W-15: Harirampur temporary wave protection (4 km)	Prior	
W-16: Construction of O&M sheds for Kojjuri embankment (7 sheds)	Post (Sampling)	Bidding document preparation ongoing by PMO
W-17: Offtake structure- Ghior Khal	Prior	Package to be deleted due to morphological change
W-18 Fish Sanctuaries	Prior	Package to be deleted due to delays in required pre-work activities
Consulting Services Packages		
C-01: Institutional Strengthening and Project Management Consultant	Prior	Completed, awarded
C-02: Community-based flood risk management support	Prior	TOR under review by ADB
C-03: Community capacity development support for participatory O&M	Prior	TOR under review by ADB
C-04: Livelihood development support	Prior	TORs and BDs under preparation
C-05: River survey (including bathymetric, ADCP and float tracking) and multi beam echosounder survey (4 years)	Prior	Completed; awarded
C-06: Management information system development	Prior	TORs and BDs under preparation
C-07: Environment management and risk mitigation programs	Prior	TOR under review by ADB
C-08: Erosion prediction	Prior	Negotiations completed; ready for award.
C-09: Geotechnical investigation	Prior	Package to be deleted
C-10: Resettlement solutions through NGO	Prior	Revised TOR under review by ADB
C-11: Model study for Salimabad channel closure	Prior	Package to be deleted
C-12: Offtake physical modelling	Prior	Package to be deleted
C-13: Topographic Survey	Prior	TORs and bidding documents under preparation by PMO
C-14: Monitoring of pilot works (grout mattresses installed in Tranche 1)	Prior	Package to be deleted
C-15: Environment/ biodiversity and social baseline impact monitoring and fisheries study	Prior	TOR under review by ADB
C-16: Socio-economic study of the char people	Prior	TORs and bidding documents under preparation by PMO
C-17: External monitoring of social safeguards	Prior	TOR reviewed by ADB; PMO to advertise
C-18: External monitoring of Environmental safeguards	Prior	
C-19: External monitoring of procurement activities	Prior	
C-20: External monitoring of Financial Management	Prior	

Package	Review Type	Status
C-21: Procurement Specialist	Prior	Completed; awarded
C-22: Resettlement Specialist	Prior	TOR reviewed by ADB; PMO to advertise
C-23: Gender Specialist	Prior	
C-24: Environmental Specialist	Prior	

11. **Works.** Works comprise of 18 packages to be procured using the e-government web portal (e-GP) method. These are for riverbank protection works (five packages for underwater riverbank protection works, two packages for adaptation works, one package for emergency works, five packages for permanent wave protection works), Salimabad channel closure works and offtake structure (two packages), embankment construction, embankment maintenance, O&M sheds, and fish sanctuaries (each one package). Out of these, the five packages for underwater works have been awarded and works have started on site. Out of the remaining packages, one adaptation works package (for pre-existing works) and the embankment maintenance package have been tendered out. The emergency works package has been tendered out and is under evaluation. The O&M shed construction package is under preparation and expected to be tendered out by end May 2023.

12. The initial protection works packages (W01 to W05) include protection of the upper riverbank (above low water level) from wave erosion through placement of geobags on the existing slope. Following completion of the land acquisition process, the upper riverbank would need to be cut and graded to a geotechnically stable slope (through W12 to W15), however this second step is now not possible anymore as the initial protection works is delayed, which in turn induces delays to the land acquisition process for these small strips of land. However, placement of geobags on slopes has proven to be sustainable for a number of years (ie: similar works at sites under Project 1 implemented in 2016 still rely on placed geobags).

Figure 1: Works under Year 1 (prior to land acquisition) and Year 2 (after completion of Land Acquisition process)



13. Work packages related to the Salimabad channel closure works (W-08 and W-17) are no longer technically feasible to implement due to large-scale unforeseen morphological changes that have taken place around this location since the preparation of the project in 2019/2020. Aerial photographs depicting the changes are in Appendix 2. Also, other packages (wave

protection W-12 to W-15, fish sanctuaries W-18) are not possible anymore due to delays in required pre-work activities such as design and land acquisition.⁵

14. **Goods.** Out of the nine goods packages of the procurement plan, four have been awarded, comprising over 80% of the total funds allocated for goods procurement. All the letters of credit (LC) received by ADB have been cleared. Delivery of the goods for four packages (G-01 to G-04) has commenced since 28 February 2023 (G-02), mid-March 2023 (G-03 and G-04), and mid-April 2023 (G-01). Out of the remaining five goods packages, two (G-06 and G-08) are proposed by the PMO to be cancelled during the mid-term review mission. The G-06 package was not approved by the government during the DPP approval process due to the current recent ban of the government on the procurement of vehicles. Similarly, the package G-08 (survey/speed boats) which included purchasing motor engines was initially approved in the DPP but then was rejected by MoWR during their November 2022 review of the funds to be allocated to this project. The remaining goods package for the procurement of geotextile bags (G-05) is required for works to be implemented after the 2023 flood season with targeted delivery on site to start from November 2023 (PMO submitted the draft bidding documents to ADB on 27 April 2023). The two small packages for office equipment for PMO and PMU-DDM (G-07 and G-09) were anticipated by the PMO to be awarded by end of March 2023, however, the sole bidder for G-07 has been evaluated as non-responsive, hence re-tendering is required for this package; for the package G-09, tendering is ongoing.

15. **Consultancy services.** The procurement of consultancy services is carried out by PMO for 23 packages and by DDM PMU for one package. Out of the 24 packages, to date three have been awarded (C-01 for ISPMC, C-05 for river survey, and C-21 Procurement Specialist). Out of the remaining 20 packages under BWDB PMO, 7 packages (C-17 to 20 External monitors and C-22 to 24 for Individual consultants) are to be tendered out by PMO by 15 May 2023, while contract for package C-21 Procurement Specialist was signed on 7 March 2023. Complete set of Submission 2 documents for C-08 was submitted to ADB on 26 March 2023 and ADB no objection was provided on 14 April 2023. C-10 was cancelled due to the substantial changes in the scope of work and will be readvertised, PMO provided the revised TOR and is under ADB review. The PMO has submitted three packages (C-03 for Participatory O&M, C-07 for Environmental management and C-15 for Environmental baseline study) to ADB for review; the review is ongoing and the Mission will complete their review by 11 May 2023. Currently, the PMO is preparing the ToRs and bidding documents for four packages: C-04 for Livelihood development, C-06 for management information system (MIS), C-13 Topographic surveys and C-16 for Socio-economic study of char people. The PMO intends to complete the TORs preparation by 15 May 2023. The PMO proposes to cancel the four remaining packages as they are either no longer required due to the large-scale morphological changes in the vicinity of the Salimabad channel closure area (i.e., C-11 for Numerical model study for Salimabad closure and C-12 for Physical model study for Ghior Khal offtake) or now planned to be undertaken using provisional sums under the ISPMC (i.e., C-14 for Monitoring of pilot works) or are no longer needed for the planning of the remaining wave protection works (C-09 geotechnical surveys).

16. **Activities under DDM.** Regarding the CbFRM activities to be implemented by the PMU of DDM, the MoU between BWDB and DDM was signed on 6 February 2023. With ISPMC's

⁵ The fish sanctuaries are planned to be identified and designed through the delayed C-07, only after completion of which the tender process for associated works can be started. Land acquisition for wave protection works can only be started following the stabilization of the underwater riverbank through the delayed packages W-01 to W-05.

support, DDM has prepared the TOR of the C-02 package, which is currently under review by ADB. The Mission agreed that this package will be restricted to NGOs as indicated in the procurement plan, use the QCBS 80:20 modality, and that the type of proposals will be for simplified technical proposals (STP). PMU has provided ADB with (i) assurance that at least 6 qualified NGOs can apply for this package, and (ii) detailed justification of the changes (i.e., from 90:10 to 80:20 and from FTP to STP). Also, the Mission informed that PMU may apply a modified (simplified) recruitment procedure to reflect the capacity of the competing NGOs where the evaluation criteria reflect the unique qualifications of the NGOs including: (i) history of work with local communities and evidence of satisfactory performance; (ii) familiarity with participatory development approaches; (iii) committed leadership and adequate management; and (iv) capacity to co-opt beneficiary participation. The PMU published an advance contracting notice on 20 March 2023.

17. **Duration of advertisement for the consulting services packages.** The PMO informed the Mission that aside from ADB's Consultant Management System (CMS), they intend to advertise the various packages in local newspapers to conform with GoB regulations. The Mission reminded the PMO that procurement/recruitment under the project needs to follow ADB guidelines. Following ADB guidelines will enable PMO to significantly expedite the recruitment process and keep up with the remaining limited project implementation period. ADB's Procurement Staff Instructions allows posting of minimum 15 days for firm recruitment and minimum 7 days for recruiting individual consultants using solely CMS or similar e-procurement systems in receiving expression of interests (fully electronic submission), whereas ADB requires a 30-day posting period for posting that is not solely electronic, i.e., if a newspaper, gazette, etc. are used (solely or alongside electronic publication). Using solely CMS will allow PMO to significantly speed up the process (even if cases arise of needs to re-advertise). The Mission also mentioned that PMO could advertise for say 10 days, if 7 days may be deemed too short. Due to the limited remaining time left to implement this project, the **Mission strongly recommends that PMO and DDM PMU expedite the remaining recruitments and use solely CMS to shorten the advertising duration to have the consultants on board as soon as possible.**

18. **Post (Sampling) Review.** The Project Administration Manual (PAM) specifies that post (sampling) review will be carried by ADB out after 30% and 70% of contracts are awarded. The Mission advised PMO to promptly inform ADB on achieving the award of 30% and 70% equivalent of total ADB financing amount for ADB to start conducting the post sampling review. Total contract amount awarded to date is around \$ 72.66 million (para. 8, Table 1) representing around 41% of the total ADB and GoN financing of \$174.89 million. ADB may start conducting random post sampling reviews of procurement processes and contract awards at any time. The Mission reminded PMO that if any of the post-review packages is 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. For packages under post review (sampling), the Mission informed PMO to provide ADB with a certified summary sheet reporting on the main aspects of the bid evaluation and contract award at the time of each contract award as indicated in the PAM.

19. **Procurement Plan.** The procurement plan will be updated by the PMO by 15 May 2023 and submitted to ADB for approval. The detailed package-wise status of procurement is in Appendix 3. The changes agreed include:

- (i) vehicles including 4 pick-up trucks & 4 Jeep vehicles (G-06): package to be deleted;

- (ii) office equipment for PMO (G-07): package to be renumbered to G-06 following deletion of the vehicles package and rename to PMO Office Equipment;
- (iii) survey equipment (G-08): package to be deleted due to the current recent ban of the government;
- (iv) office equipment for PMU of DDM (G-09): package to be renumbered to G-08 and renamed to PMU-DDM Office Equipment;
- (v) cancellation of all packages associated with the Salimabad channel closure (i.e., two work packages: W-08 and W-17 and two consultancy packages: C-11 and C-12);
- (vi) cancellation of packages dependent on other pre-conditional works (i.e. four work packages: W-12 to W-15 and one consultancy package: C-09) – some of these activities may be carried out by BWDB with government funds after completion of the project as the DPP is valid till June 2025;
- (vii) cancellation of work package W-18 that depends on identification and design of works through the delayed C-07 package;
- (viii) package C-14 is no longer required as it is now planned to be undertaken under the ISPMC package;
- (ix) inclusion of DDM as procuring entity for DDM office equipment (G-08) and the CbFRM package (C-02);
- (x) Community-based flood risk management support (C-02): to change proposal type from FTP to STP.

20. **Proposed additional works (instead of Salimabad channel closure).** The PMO proposed to replace the Salimabad channel closure and ancillary works by possibly 25–30 km of additional riverbank protection works in the immediate vicinity of the subprojects sites to use large part of the current estimated 'savings'. The PMO (with ISPMC's support) will prepare a set of possible works and associated goods and works contracts (and/or extension of existing contracts) including environmental and economic analysis due diligence to maximize the utilization of the available funds and will inform ADB prior to the MTR mission. To allow implementation of these additional works during the short remaining project implementation period, the works will comprise underwater riverbank protection works with geobags and initial wave protection works (similar to works implemented under W-01 to W-05 and G-01 to G-03) that do not require any land acquisition. For this, the required procurement of goods (geobags) and works can follow the already approved bid documents for the previous works. These interventions will be planned to maximize the benefits at the current morphological setting. Likely areas of focus are (i) planned export processing zone near the Jamuna bridge, (ii) the confluence area of Jamuna and Ganges rivers, (iii) actively eroding riverbank on the left bank of the Jamuna that threaten the stability of distributary offtakes, and (iv) measures to stabilize the central char. All interventions will consider the current morphology, adapting to the river in line with the strategy outlined in the approved River Stabilization Plan.

21. The PMO will provide the revised procurement plan reflecting all the required changes to ADB by 15 May 2023, the Mission will then process the revised procurement plan for internal approval and when approved will then disclose it on the ADB's website. The weblink will be shared with PMO as soon as it is available. The Mission reminded PMO to comply with the arrangements (method, review, bidding procedure, and bidding document) specified in the approved procurement plan, and to seek ADB's prior concurrence to any further updates if needed.

22. **Data Security.** The Mission reminded the PMO staff to maintain strict confidentiality of information about procurement matters. Participation in bid evaluation committee and consultant

selection committee meetings should be strictly limited to the committee members only, and bid and evaluation documents should always be stored in locked cabinets with restricted access. Also, the PMO's Consultant Management System (CMS) password should be used by only one person. Each CMS account should be registered in the name of the real user. Computers storing project data should be password-protected, and assistants held accountable for data confidentiality.

B. Project management matters

23. **Project implementation arrangements.** The Project Steering Committee oversees project implementation, and 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. 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.

24. **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. Details are in Appendix 4. Overall, of the 68 positions by BWDB regular staff committed to be assigned to the project, only 27 have been filled so far. Of the 41 vacant posts, 14 are in PMO, 12 in SMO Kaitola, 7 in SMO Tangail, and 8 in SMO Manikganj. The 14 vacant posts in PMO are for 2 deputy project directors, 2 executive engineers, 2 subdivisional engineers, 1 revenue surveyor, 1 systems analyst, 1 programmer, 1 assistant programmer, 1 accounts officer, 2 senior accounts officer and 1 data entry operator. All the planned outsourced staff in the PMO and SMOs have not yet been recruited.

25. The Project Director (PD) of the PMO informed the Mission of the changes to the original BWDB staff deputation and staffing requirement to align with the approved DPP and to reflect the current status of the project. The PMO proposed revised staffing to be allocated to the project now only indicates 37 regular positions (Table 3). The Mission noted the significant reduction from the originally 68 positions committed when the loan and grant were signed. The following positions were reduced in the PMO: (i) two deputy project directors to one; (ii) four executive engineers to two; (iii) two subdivisional engineers to one; and (iv) three senior accounts assistants to one. For Kaitola and Tangail SMOs: (i) two subdivisional engineers to one; and (ii) three sub assistant engineers to two. The work assistants for Tangail and Manikganj SMOs were reduced from six to two, while for Kaitola SMO from six to three. In addition to the reduction of positions, the following positions were removed during the approval of the DPP: (i) 3 assistant engineers (1 in each of the 3 SMOs); (ii) 2 revenue surveyors (1 in PMO and one in Manikganj SMO); (iii) 1 systems analyst in PMO; (iv) 1 programmer in PMO; (v) 1 assistant programmer in PMO; (vi) 1 accounts officer in PMO; and (vii) 1 data entry operator in PMO. Following the reduced staffing allowed per the DPP, only 10 positions are currently vacant (2 in PMO, 6 in Kaitola SMO and 2 in Manikganj SMO). **The Mission expressed serious concerns regarding the reductions in staffing made in the DPP and furthermore that the remaining vacancies are still vacant. The Mission urged the PMO and BWDB to fill the vacant positions allowed per the DPP by 15 May 2023, and to find alternative solutions for the positions which were removed despite being needed under the project.** Appendix 5 shows the revised staffing requirement. The PAM will be updated to reflect the revised PMO and SMOs staffing accordingly to the government's approved DPP.

Table 3: Status of Staffing Requirements

Position	No. of Staff	
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	in PAM	in approved DPP	Status
PMO (Deputation from BWDB)			
Project Director (Additional Chief Engineer or Superintending Engineer)	1	1	1 filled
Deputy Project Director (Superintending Engineer)	2	1	0 filled
Executive Engineer (or equivalent rank)	4	2	2 filled
Subdivisional Engineer	2	1	0 filled
Assistant Engineer	2	2	2 filled
Assistant Director	1	1	1 filled
Revenue Surveyor	1	0	0 filled
Systems Analyst	1	0	0 filled
Programmer	1	0	0 filled
Assistant Programmer	1	0	0 filled
Deputy Director (Accounts)	1	1	1 filled
Accounts Officer	1	0	0 filled
Senior Accountants Assistants	3	1	1 filled
Data entry operator	1	0	0 filled
Sub-Total	22	10	8 filled
Kaitola SMO (Deputation from Board)			
Executive Engineer	1	1	1 filled
Subdivisional Engineer	2	1	1 filled
Assistant Engineer	1	0	0 filled
Sub Assistant Engineers	3	2	1 filled
Senior Accounts assistant	1	1	0 filled
Data entry operator	1	1	0 filled
Revenue surveyor	1	1	0 filled
Work assistant	6	3	1 filled
Sub-Total	16	10	4 filled
Tangail SMO (Deputation from Board)			
Executive Engineer	1	1	1 filled
Subdivisional Engineer	2	1	1 filled
Assistant Engineer	1	0	0 filled
Sub Assistant Engineers	3	2	2 filled
Senior Accounts assistant	1	1	1 filled
Data entry operator	1	1	1 filled
Revenue surveyor	1	1	1 filled
Work assistant	6	2	2 filled
Sub-Total	16	9	9 filled
Manikganj SMO (Deputation from Board)			
Executive Engineer	1	1	1 filled
Subdivisional Engineer	1	1	1 filled
Assistant Engineer	1	0	0 filled
Sub Assistant Engineers	2	2	2 filled
Senior Accounts assistant	1	1	0 filled
Data entry operator	1	1	0 filled
Revenue surveyor	1	0	0 filled
Work assistant	6	2	2 filled

Position	No. of Staff		Status
	in PAM	in approved DPP	
Sub-Total	14	8	6 filled
TOTAL	68	37	27 filled

Source: PMO.

26. **Position of Chief Engineer (CE) River Management for main rivers of central Bangladesh.** The Mission was informed that this position is still vacant and **requested PMO/BWDB for this position to be filled as soon as possible (and before the start of the MTR mission)** to (i) move forward/promote the BWDB-approved river stabilization plan (developed under Project 1) and (ii) coordinate with forthcoming projects from World Bank in the north and JICA (on a few tributaries), and the future follow-on ADB project (to be prepared by PMO with ISPMC's support before June 2024). The Mission reminded the PMO and DG BWDB that this issue is also very important for EKN and for achieving fully the road map of the MFF and that Project 2 includes activities to make operational the office of the CE River Management.

27. **Training.** The PD informed the Mission that awareness training for monitoring of environmental activities was conducted on 13 January 2023 for the contractors of SMO Tangail. The other two SMOs (Kaitola and Manikganj) will also receive similar training by 15 May 2023. The Mission informed the PMO that BRM is planning to conduct four disbursement 'clinics' this year at the division level. These trainings will discuss ADB's advance fund procedure, statement of expenditure expense review, and documents retention procedure for all ADB-administered loans and grants. The Mission will share relevant information of the proposed training in due course and requested PMO to coordinate with BRM for other financial management specific training. The Mission requested that at least a one-day training be organized in Dhaka for all the PMO, SMOs, and PMU-DDM accountants and other key staff and discuss the details of ADB requirements for maintenance of advance accounts, as well as financial audit requirements.

28. **Contract awards and disbursements.** For the last quarter of 2022 and as of 27 April 2023, the ADB rating for Project 2 is *at risk* due to low cumulative contract awards (CA) and disbursements (D). CA amount achieved is \$66.61 million against the projected amount of \$101.08 million for the same period (66%), which is only about 58% of the total loan and grant amount of \$174.89 million. D amount achieved to date is \$18.77 million against the projected \$77.65 million (24%), which equates to about 10% of the total loan and grant amount. Details are in the tables below.

Table 4: Summary of Projections in ADB System (eOps) (L4107 and G0799)

Year	Contract Award					Disbursement					
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	
2022	-	21.95	23.21	39.79	84.95	-	2.19	10.13	15.92	28.24	
2023	11.20	9.43	19.01	28.43	68.07	24.23	25.18	24.09	17.60	91.10	
2024	0.79	21.08	-	-	21.52	30.00	25.55	-	-	55.55	
Total Contract Award					174.89	Total Disbursement					174.89

Table 5: Summary of Actual Achievements (as of 27 Apr 2023)

Year	Contract Award					Disbursement				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
2022	-	21.65	12.47	17.18	51.22	-	-	-	17.95	17.95
2023	15.34	0.05	-	-	15.39	0.3	0.52	-	-	0.82
2024										

Total Contract Award	66.61	Total Disbursement	18.77
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Table 6: L4107 Projections

Year	Contract Award					Disbursement					
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	
2022	-	21.95	12.63	38.13	72.71	-	2.19	8.21	13.57	23.77	
2023	8.53	9.21	18.28	26.75	62.77	21.81	22.48	22.45	15.39	82.13	
2024	0.44	21.08	-	-	21.52	27.37	23.73	-	-	51.10	
Total Contract Award					157.00	Total Disbursement					157.00

Table 7: L4107 Actual Achievements (as of 27 Apr 2023)

Year	Contract Award					Disbursement					
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	
2022	-	21.65	1.29	16.47	39.41	-	-	-	16.93	16.93	
2023	14.85	0.02	-	-	14.87	0.3	0.52	-	-	0.82	
2024											
Total Contract Award					54.28	Total Disbursement					17.75

Table 8: G0799 Projections

Year	Contract Award					Disbursement					
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	
2022	-	-	10.58	1.66	12.24	-	-	2.12	2.35	4.47	
2023	2.67	0.22	0.73	1.68	5.30	2.42	2.7	1.64	2.21	8.97	
2024	0.35	-	-	-	0.35	2.63	1.82	-	-	4.45	
Total Contract Award					17.89	Total Disbursement					17.89

Table 9: G0799 Actual Achievements (as of 27 Apr 2023)

Year	Contract Award					Disbursement					
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total	
2022	-	-	11.18	0.63	11.81	-	-	-	1.02	1.02	
2023	0.49	0.03			0.52	-	-			-	
2024											
Total Contract Award					12.33	Total Disbursement					1.02

29. **CA and D projections.** The initial agreed projections (page 14 of the PAM) needed to be updated considering that Project 2 became effective only in April 2022. The revised CA and D projections were agreed with PMO, reflected and locked in ADB system (eOps). The revised values need to be reflected in an updated version of the PAM. The Mission explained to PMO that ADB monitors quarterly the project performance based on CA and D as well as other criteria, namely safeguards, financial (such as APFS requirements), and technical. The Mission provided PMO with the detailed formula and criteria. The Mission emphasized that PMO needs to be vigilant in reaching these targets on a quarterly basis to keep the project rating “on track” in the ADB system. The Mission informed PMO that to keep the project rating “on track”, cumulative CA and D should reach at least 90% of the CA and D targets, or at least that one of the two values reaches 90% of the target while the other value be at least 75% of the target in addition to the project fully complying with the other performance criteria. The project is also “at risk” for Q1 2023. The PMO and the Mission agreed to update the CA and D baseline projections in ADB system (eOps) after the MTR mission to reflect the most current status of the procurement of works, consultancy services, and goods at the time of the MTR mission.

30. **Reasons for start-up delays and low CA and D achievements to date.** 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. 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). Another reason of low CA and D to date is that bids of geobags and works received and now awarded were about 5% to 53% lower than the engineer's estimates (Table 10). Furthermore, since the cost estimates prepared in 2020/21, significant USD/BDT currency fluctuations have occurred (i.e., \$1 = 84.7 Taka in 2021 compared to about \$1 = 105 Taka now) resulting in a depreciation of about 24% of the value of the Taka compared to the USD (which very largely even offsets the increase of inflation over the period). The Mission fully recognized that the USD/BDT currency fluctuations and inflation are fully outside of the project control.

Table 10: Estimated Amount in Procurement Plan against Actual Contract Amount Awarded

Package	Amount in Procurement Plan (\$ million)	Amount of Contract Awarded (\$ million)	Difference (\$ million)	% Difference
G01: Geobags upstream Chauhali	21.16	17.11	4.05	19%
G02: Geobags Benotia and Enayetpur	12.39	11.41	0.98	8%
G03: Geobags Harirampur extension	6.32	5.19	1.13	18%
G04: Geobags Adaptation earlier works	8.29	6.68	1.61	19%
W-01: Benotia underwater riverbank protection with geotextile bags (3.50 km)	3.14	2.01	1.13	36%
W-02: Enayetpur underwater riverbank protection with geotextile bags (7 km)	4.48	3.01	1.47	33%
W-03: Upstream Chauhali underwater riverbank protection with geotextile bags (7.5 km)	5.35	3.43	1.91	36%
W-04: Upstream Chauhali underwater riverbank protection with geotextile bags (8 km) including 1 km of dredging on the underwater slope	9.20	5.96	3.23	35%
W-05: Underwater Riverbank protection with geotextile bags at Harirampur Extension (4 km)	4.48	2.10	2.38	53%
C-01: Institutional Strengthening and Project Management Consulting Services	15.06	14.34	0.71	5%
C-05: River Survey	1.66	1.38	0.28	17%
C-21: Procurement Specialist	0.07	0.07	-	-
TOTAL	91.53	72.66	18.89	21%
ADB share		66.62		

31. **Current 'savings' on the loan and grant.** Based on the above and further to the Salimabad channel closure not being technically feasible anymore (para. 13 – value of W-08 and W-17 and ancillary packages (W-12 to W-15 and W-18) is about \$30.41 million), the current 'savings' on loan are estimated at about \$70 million (including the amount of \$27 million for contingencies in the overall project financing plan which are currently unlikely to be needed). Also, there are currently about \$3 million of 'savings' on the grant that the Mission discussed with EKN for EKN to possibly consider cofinancing other packages (discussions are ongoing between the Mission and EKN).

32. The Mission requested the PMO to conduct a detailed review of possible savings bearing in mind the limited time left to implement the project and to investigate possible additional works that could be undertaken instead of the Salimabad channel closure works, such as riverbank protection works in the immediate vicinity of the subproject sites (para. 20) and to provide ADB with monthly updates on these matters. Partial cancellation, if any, will be further assessed during the midterm review mission.

33. **Contract Award (CA) and Disbursement (D) projections for 2023.** The Mission and the PMO reviewed the 2023 CA and D projections (Table 11). The PMO proposed to revise the quarterly projections as per Table 12.

Table 11: 2023 Contract Awards and Disbursement Projection Agreed with PMO (\$ million)

	Contract Awards					Disbursement				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
L4107	24.62	9.20	18.37	26.52	78.71	11.80	14.20	14.49	26.83	67.32
G0799	0.73	2.65	0.36	2.04	5.78	0.05	2.61	3.39	3.82	9.87
Total	25.35	11.85	18.73	28.56	84.49	11.85	16.81	17.88	30.65	77.19

Source: ADB and PMO estimates.

Table 12: Revised 2023 Contract Awards and Disbursement Projection (\$ million)

	Contract Awards					Disbursement				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
L4107	15.17	18.72	17.87	22.69	74.45	10.74	31.24	12.37	27.77	82.12
G0799	-	0.92	1.72	1.31	3.95	1.38	2.20	3.19	3.44	10.21
Total	15.17	19.64	19.59	24.00	78.40	12.12	33.44	15.56	32.21	92.32

Source: ADB and PMO estimates.

34. **Government budget allocation.** Project 2 was initially categorized by the government as 'C' (i.e., 0% of GoB funds) in mid-2022, then it was re-categorized to 'B' (i.e., 75% of GoB funds). The Mission received assurances from the PD and MoWR that counterpart funds are fully available for this project for the current FY and next FY (ending in June 2024).

35. **Advance account.** The Mission discussed with DDM PMU the fund flow diagram and reminded DDM PMU to start setting-up its separate sub-advance account (in Bangladesh Taka) in a commercial bank for the ADB loan, which will be used exclusively for ADB's share of eligible expenditures. DDM PMU will be accountable and responsible for proper use of advances to its respective advance accounts. The Mission also advised DDM PMU to coordinate with ADB BRM for any questions related to establishing the sub-advance account. As indicated in para. 13 of the PAM, the PMO will be responsible for collecting and retaining all supporting documents and preparing and submitting withdrawal applications to ADB.

36. **Financial management action plan implementation.** The Mission with the PMO reviewed the status of the financial management time-bound action plan of the PAM (page 32). The details of the current status are in Appendix 6 whilst the key points are summarized below.

- (i) **Staffing.** The PMO informed the Mission that the original staffing proposed by PMO in the PAM was not approved by the Ministry of Finance during the DPP approval. Currently, the PMO has one Deputy Director for accounts and one senior account assistant. Currently, both the senior account assistant for Tangail and Manikganj SMOs have been filled, while one account assistant has been assigned to Kaitola SMO upon approval of the higher authority of BWDB in March 2023. As per their

ToR, ISPMC has filled an experienced financial management (FM) expert to support the PMO, SMOs and PMU of DDM.

- (ii) **Financial management capacity building.** The Mission informed PMO that disbursement clinics are being arranged by BRM and strongly encouraged PMO to coordinate with BRM to attend a project-specific financial management training.
- (iii) **Internal audit.** The PMO informed the Mission that the payment system in BWDB has their internal pre-checking procedure in different tiers before payment, so additional internal audit is deemed not essential by PMO. The Mission clarified that the pre-audit of expenses is not the function of internal audit. Internal audit assesses whether the controls are operating effectively. Therefore, the Mission recommended keeping the mitigating action as agreed with the PMO/BWDB during project processing and advised that the FM expert of the ISPMC provides capacity support to BWDB's internal audit.
- (iv) **Financial reporting.** The Mission reminded PMO to include the financial information (including variances) in the quarterly project reports (QPRs), the project financial statements in the annual report, and ensure to submit to ADB the required APFS prior to the deadline.
- (v) **Information systems.** The Mission reiterated the importance of automating all the accounts, including receipts and payments under the loan and grant, and financial reporting.

37. **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 Mission reminded PMO that the next APFS which is due in December 2023 shall cover expenses incurred from project effectiveness (April 2022) up to the end of the fiscal year 2023.

38. **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 7. Progress towards the outcome indicators are currently on-track to be achieved, while some indicators for the three outputs are currently at risk of not being achieved fully:

- (i) Output 1b. 7.9 km of climate-resilient flood embankment constructed, rehabilitated, or upgraded against 100-year probable floods.
Main current risks: land acquisition process has been initiated but its completion may be delayed. Not achieving this output indicator would significantly impact the indicators a and b of the outcome. 1.7 km of embankment does not depend on land acquisition and is currently not at risk of not being achieved.
- (ii) Output 1c. 2 regulators and other hydraulic structures (i.e., fish passes) installed.
Main current risk: 1 regulator is dependent on completing land acquisition process.
- (iii) Output 1d. 1 channel closure with “building with nature” approach.
Main current risk: Salimabad channel closure is not technically feasible anymore (para. 12 and Appendix 2) due to large-scale morphological changes that resulted in the channel planned for closure now being the dominant channel along the left bank which does not allow a closure in the remaining project implementation period. Achieving this indicator is very unlikely.
- (iv) Output 1g. 12 fish sanctuaries established.

Main current risk: preparation can be undertaken under the loan and grant implementation period and may be achievable in 2025 with government counterpart funds. The study for identification and design of the fish sanctuaries (C-07) is not yet awarded and the outcomes of the study are expected only in late 2023. This does not allow to tender and implement the works within the remaining project implementation period.

- (v) Output 2d. Long-term river stabilization and river management master plans refined to include charlands development and submitted for endorsement by BWDB.

Main current risk: Detailed outline is achievable (para. 39) however a refined study is no longer achievable as it depends on outcomes from other studies under the project, such as the environmental baseline survey (C-15) and the socio-economic study of char people (C-16) which PMO has not yet awarded and for which the results can now only be expected end of 2023 at best.

- (vi) Output 2e. Gender responsive guideline for river management (focus Lower Jamuna) submitted for endorsement to BWDB.

Main current risk: Detailed outline is achievable (para. 39) but the preparation of a guideline depends on discussions between universities, government agencies, experts and other stakeholders and will take significant time that is no longer available.

39. The Mission reiterated to the PMO the need to expedite the implementation of necessary compensation to the affected persons (APs) as per the resettlement plan (RP) before commencement of the construction activities in October 2023, and advised PMO and ISPMC to think of alternatives on how activities (directly related to indicators) independent of the land acquisition process could be expedited (i.e., 1.7 km of embankment to be rehabilitated without need of land acquisition + 1 regulator). The PMO informed that activities related to indicator 1g can be prepared during the remaining project implementation period but can only be completed during the DPP validity period (ie: end of June 2025). While background information is to be collected, detailed outlines can be prepared for indicators 2d and 2e.

40. **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. Overall, the road map and policy framework is on track, apart from the position of the CE River Management (para. 26). The detailed current status of the road map and policy framework is in Appendix 8.

41. **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 as of 15 February 2023 is recorded in Appendix 9. For the loan, the Mission noted compliance with 25 covenants to be satisfactory, one has been complied with (clause 4), three are partially complied with (clauses 2, 3 and 31), and four are not yet due (clauses 10, 11, 25 and 27). 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.

42. **Reports and Disclosure Requirements.** The PMO is to submit to ADB the following reports: (i) quarterly progress reports (QPRs) in a format consistent with ADB's project

performance reporting system; (ii) consolidated annual reports including (a) progress achieved by output as measured through the indicator's performance targets of the DMF, (b) key implementation issues and solutions, (c) updated procurement plan, (d) updated implementation plan for the next 12 months; (iii) semi-annual safeguard monitoring reports, and (iv) a project completion report within 6 months of physical completion of the project.

43. **Quarterly progress reports (QPR).** The Mission reminded PMO of the requirement to report on overall progress of the project every quarter by submitting QPRs to ADB within 30 days from the end of each quarter. The Mission discussed the key contents of the QPR to ensure that it is prepared in an efficient and timely manner. The QPRs will contain relevant project progress, safeguards, and financial information (such as financial reports and disbursement reports including variance analysis of physical and financial progress, together with the status of the Financial Management time-bound Action Plan). The Mission reminded PMO to submit the QPRs timely and that QPRs are to be submitted to ADB until the loan closing date. Also, the Mission reminded the PMO that the outline of QPR is Attachment 3 of the PAM. PMO has not yet submitted to ADB the first QPR (July to Sep 2022), nor the second QPR (Oct to Dec 2022), but agreed to provide both overdue QPRs by 23 February 2023. Subsequently to the mission, PMO submitted the required documents on 23 February 2023.

44. **Consolidated annual reports.** The Mission also reminded PMO that annual reports should be submitted to ADB every year by 31 January and should include the following: (i) progress achieved by output as measured through the indicator's performance targets, (ii) key implementation issues and solutions, (iii) updated procurement plan, and (iv) updated implementation plan for the next 12 months. The first consolidated annual report is to be submitted by PMO to ADB in January 2024.

45. The reporting requirements of the PMO are summarized in Table 13.

Table 13: Reporting Requirements

Report	Frequency (Due Date)
Quarterly Progress Report (including GAP implementation progress)	Quarterly (30 days from end of previous quarter)
GAP Quarterly Progress Report	Quarterly (15 days from end of previous quarter)
Environmental Monitoring Report	Semi-annual (31 January and 31 July)
Social Safeguards Monitoring Report	Semi-annual (31 January and 31 July)
Audited Project Financial Statements	Within 6 months of end of fiscal year
Consolidated Annual Report	Annually (31 January)
Facility Completion Report	Within 6 months of physical completion of the project

46. **Project management information system (MIS) and asset management system (AMS).** The Mission reminded the PMO and ISPMC to prioritize developing and expanding the knowledge based on river stabilization, including, but not limited to, data collection, management information system, asset management system, and O&M aspects, which are extremely important for the financial sustainability of the current and future investments. BWDB having operational and up-to-date MIS and AMS is important for BWDB to manage and maintain more efficiently accordingly to a risk-based approach BWDB's flood and erosion mitigation assets (not only at project level but BWDB-wide) – aspects also essential for ADB and EKN for the financial sustainability in the medium- and long-terms. The Mission emphasized that an adequate up-to-date operational asset management system is a cornerstone of flood and erosion risk management for financial sustainability and institutional memory for this type of

assets and investments. The ToR for package C-06 is being prepared by PMO and will be submitted to ADB by 15 May 2023 for review.

47. **Updating of Project Administration Manual.** The Mission will update the PAM during the MTR mission to document all the required changes (key person from EA, role of DDM PMU, staffing requirement, contract award and disbursement projections, reporting requirement, procurement plan, gender, etc.) and share the updated PAM with the PMO.

C. Environment and Social Safeguards

48. 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.

49. **Compliance with environmental safeguards covenant in the Loan Agreement.** The Mission assessed Project 2 as compliant with the environmental safeguards covenant of the loan agreement. To date, the PMO and SMOs are ensuring compliance with the measures and requirements set forth in the environmental impact assessment (EIA) and rules of the government. Specifically, all prepared bidding documents and awarded contracts to date contain provisions requiring contractors to comply with the measures in the EIA and its environmental management plan (EMP). Per the EIA recommendations, bird and fish sanctuaries will be established at strategic locations to mitigate impacts to wildlife due to constructions and infrastructure development. To strengthen safeguard activities, PMO (with ISPMC's support) has undergone an awareness training for SMO of Tangail in line with supervision and monitoring of environmental activities of the contractors on 13 January 2023. There will be awareness trainings to SMOs of Sirajganj and Manikganj, where contractors will also be inducted on environmental safeguards.

50. **Semi-annual Environmental Monitoring Report (EMR).** As stipulated in the loan agreement, BWDB is required to prepare and submit semi-annual EMRs to ADB for review and disclosure. For Project 2, the first semi-annual EMR is to cover the months from April to December 2022 as reporting of environmental safeguards is to start when the loan became effective.⁶ The first semi-annual EMR of Project 2 was submitted by PMO to ADB on 2 February 2022 and subsequently reviewed by the Mission. PMO needed to update the report to cover the months of April until December 2022 and will revise the EMR and re-submit it to ADB by 27 February 2022. Subsequently, the PMO submitted the revised report covering the months of April until December 2022 on 27 February 2022, and it has been disclosed on the ADB's website.⁷

51. The Mission highlighted that PMO is only to disclose EMRs on the BWDB's website after ADB's approval of each semi-annual EMR. The succeeding semi-annual EMRs are expected to be submitted every 31st July (covering January to June) and 31st January (covering July to December). The PMO will continue to monitor beneficial environmental impacts and other environmental safeguards activities of Project 1, and include observations and findings as part of the EMR of Project 2.

⁶ Reporting period starts from loan effectivity and ends when ADB issues the facility completion report.

⁷ [Flood and Riverbank Erosion Risk Management Investment Program - Tranche 2: Environmental Monitoring Report \(April-December 2022\) | Asian Development Bank \(adb.org\)](https://www.adb.org/publications/flood-and-riverbank-erosion-risk-management-investment-program-tranche-2-environmental-monitoring-report)

52. As agreed for this project, BWDB is to recruit a qualified and experienced external monitoring expert to verify monitoring information of Project 2 due to potential significant environmental impacts of the works⁸ in line with the implementation of the EMP and compliance with relevant government rules and requirements. The Mission has previously reviewed the terms of reference for the external expert (i.e., C-18). When recruited, the expert will verify information of the draft semi-annual EMRs and will work on an intermittent basis particularly in the months of January and July, when semi-annual EMRs are being prepared by the PMO.

53. **Addendum to EIA.** The Mission noted that there could be reconfiguration of some works for W-08 and W-17 packages due to the Salimabad channel closure not being technically feasible anymore, and that some of the budget could be re-allocated to additional riverbank protection works. The location of the new protection works is not included in the EIA and is still to be fully determined by PMO. Per ADB Safeguard Policy Statement (SPS) 2009, impacts associated with changes in scope should be treated as unanticipated impacts. PMO, with support from ISPMC, is to prepare an addendum to the approved EIA to determine the potential impacts of the changes, evaluate the alternatives, and outline mitigation measures, and resources to address potential impacts.

54. The PMO with ISPMC's support will conduct environmental due diligence and assessment of the new site/s to prepare an addendum to the EIA.⁹ As part of the addendum, description of baseline environmental and social conditions will provide understanding of the current conditions of the new site/s and serve as benchmark. An EMP will be prepared by PMO to mitigate the impacts of the additional scope of works. At least 2 meaningful consultations are to be made by the PMO to affected people. To collect insights from affected people and create awareness about the new scope of works, the first consultation is to be carried out immediately after PMO would have identified the locations. The following consultation is to be undertaken when the draft EIA addendum is prepared to share the results of environmental assessment. The Mission will provide guidance to PMO (and ISPMC) for the preparation of addendum to the EIA. The first draft of the addendum was to be submitted to ADB by 30 April 2023 for review.

55. **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 Red Category projects require an environmental clearance certificate (ECC) from the Department of Environment (DoE) every year. In view of the possible changes of scope in W-08 and W-17 packages, the Mission reminded the PMO to liaise with DoE to determine any further requirement for the proposed new scope of works, which is not part of the ECC application. The Mission requested the PMO to inform the Mission on the outcomes of the discussions with DoE by 30 April 2023.

56. **Social safeguards.** The project is category A for involuntary resettlement and category C for no impacts on Indigenous Communities. A Resettlement Framework (RF) for the investment program was prepared and adopted in 2014, and subsequently revised in 2018 under Project 1. The RF was then updated during the processing of Project 2 and disclosed in May 2021. One draft RP has been prepared for Shahjadpur flood embankment in May 2021 in

⁸ External monitoring expert means an expert not involved in the day-to-day project implementation or supervision.

⁹ On May 2021, an EIA was prepared as compliance with ADB SPS 2009 requirement for category A project, and disclosed on the ADB's and BWDB's websites.

accordance with the legal and policy framework of the government and ADB's SPS (2009). The draft RP identified 34.1 hectares (ha) of land acquisition affecting 366 households (AHHs) with 1,944 affected persons, 1,333 structures and 7,048 trees. An update of the RP for Shahjadpur is required with sufficient time to carry out the land acquisition and implement the necessary compensation to APs accordingly to the RP before commencement of construction activities in October 2023. The Mission agreed that if the contract award for engaging an RP-INGO requires much more time, the update of the RP for Shahjadpur embankment could instead be carried out by ISPMC using the part of the provisional sum under their contract to expedite the RP implementation process.

57. The Mission reminded the PMO to expedite the recruitment process of the INGO and external monitor process to ensure timely RP implementation. All required committees are to be formed during the RP update in March 2023. Also, the Mission agreed that contract award is to be initiated for the entire 7.9 km long embankment within a single contract (1.7 km of the embankment are to be rehabilitated and do not need land acquisition) with notice to proceed to be issued to the contractor(s) section wise without limiting safeguards requirements.

58. **Grievance Redress Committee (GRC).** GRCs have not yet been established at local level. An information campaign is yet to be carried out among the APs to disseminate details about the PMO-level GRC. The Mission reminded PMO to undertake this as a priority.

59. **Social safeguard reporting.** The project will continue semiannual social safeguards reporting until a facility completion report is produced and approved by ADB. The ISPMC safeguards consultant will support PMO to prepare the social safeguards monitoring reports until an INGO is recruited for RP implementation. Once the INGO is on board, all data required for the report is expected to be generated from the INGO.

60. **Social Safeguards Agreed Actions**

- (i) Updating of RP to be initiated by PMO with ISPMC's support in March 2023.
- (ii) All required committees including the grievance committee and property valuation committee are to be formed in line with RP requirements in March 2023.
- (iii) Till recruitment of resettlement NGO, PMO with ISPMC's support is to continue submission of semiannual monitoring reports to ADB.
- (iv) RP implementing NGO and external monitoring consultant are to be recruited by PMO by April 2023.
- (v) Contract award for 7.9 km embankment can be initiated without limiting safeguards compliance as guided in RP with provision of sectional notice to proceed to contractor for sites that are ready to works to be implemented.

61. **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 PD has assigned the Executive Engineer of the PMO as the gender focal point who leads the GAP activities and provides all assistance to the project's gender specialists (consultants) on these matters. The Mission also appreciated the submission of the GAP quarterly progress report from October to December 2022 and noted that five bidding documents for civil works have integrated clauses on core labor standards, including equal pay for work of equal value, occupational health and safety, water supply, sanitation, segregated shelter, and facilities. The PMO informed that another gender specialist at PMO level is to be recruited by mid-March 2023 to expedite the process of the GAP implementation.

62. Regarding the GAP-QPR, the Mission suggested updating the QPR by including the last GAP progress report of the Project 1 since the GAP represents the overall program, including Projects 1 and 2. The Mission requested the PMO to include the updated GAP implementation progress with the overall QPR of the project. Given the project's implementation period up to end of June 2024, the Mission strongly suggested that PMO expedite the recruitment process of livelihood NGO and disaster management NGO for successful implementation of the GAP. Until the NGOs are on board, the Mission suggested that the ISPMC gender specialist continues with other activities, such as updating the existing BWDB's gender-specific module by including awareness on gender-based violence and community-based redress mechanism and gender sensitization training for the BWDB staff (GAP activity 7), and establishment of MIS, quality control systems, accountability measures and gender-sensitive project monitoring tools (GAP activity 10).

63. **Risks linked to forthcoming elections.** The PMO informed the Mission of the forthcoming general election towards end of 2023 which may have some impacts on the project implementation. Experience from previous elections indicates that security measures may be in place. These would hinder in particular road traffic and therefore cause delays to both the supply of construction material to site and the traveling of workers and site supervisors to site. It can therefore be expected that the implementation of works (and its related supply of goods packages) could significantly be hindered. However, as the election is expected to be at the start of the construction season, considerable time (from about February to June 2024) is likely to be available for construction without impacts from the election. The Mission requested the PMO to expedite all procurement before the election.

64. **DPP revision.** The implementation of changes to the project requires revision of the key GoB document for the project, the Detailed Project Proforma. In accordance with current government rules, the revision of the DPP is possible at ministry level as long as the nature of the works, the project area, and the overall project cost do not change significantly. This is the case for the planned revisions discussed during this mission. It is suggested that the PMO starts the process of revising the DPP immediately to allow the finalized revised document to be sent for approval at time of the MTR mission. After that, it is expected by the PMO to be finalized within one month. To avoid further delays in relation to contract award, it is further suggested that the PMO starts the bidding process for the additional works and goods packages in parallel with the DPP revision, following the approval of the updated procurement plan by ADB.

IV. CONCLUSIONS AND PRIORITY ACTIONS

65. The following actions were agreed during the mission (Table 14).

Table 14: List of Priority Actions with Timeframe

Action	Who	Completion Date
Project Management Staffing:		
Fill-up Deputy Project Director	BWDB	15 May 2023
Fill-up the position of Chief Engineer River Management	BWDB	Prior to the start of the MTR mission
Fill-up all vacant positions in the PMO and SMOs	BWDB	15 May 2023
Procurement:		
Procurement plan update	PMO	15 May 2023
Submit to ADB set of possible works and associated	PMO / ISPMC	Prior to the start of the MTR

Action	Who	Completion Date
goods and works contracts including environmental and economic analysis due diligence		mission
Provide ADB with a certified summary sheet reporting on the main aspects of the bid evaluation and contract award together with the contract copies.	PMO	15 May 2023 (for all awarded contracts under post review sampling); at the time of each contract award for succeeding packages
G-06 – Office equipment - re-tendering	PMO	15 May 2023
G-08 – Contract award	DDM PMU	15 May 2023
W-06 – Contract award	PMO	15 May 2023
W-07 – Contract award	PMO	October 2023
W-09 – Mobilization	PMO	15 June 2023
W-11 – Mobilization	PMO	15 June 2023
W-16 – Advertisement / mobilization	PMO	31 May 2023 / 15 Aug 2023
C-02 – Advertisement (STP) / mobilization	DDM PMU	15 May 2023 / 15 Sep 2023
C-03 – Advertisement (BTP) / mobilization	PMO	15 May 2023 / 15 Sep 2023
C-04 – Complete TOR preparation (STP) / mobilization	PMO	20 May 2023 / 15 Sep 2023
C-06 – Complete TOR preparation (STP) / mobilization	PMO	31 May 2023 / 30 Sep 2023
C-07 – Advertisement (BTP) / mobilization	PMO	15 May 2023 / 15 Sep 2023
C-08 – Mobilization	PMO	10 May 2023
C-10 – Advertisement (BTP) / mobilization	PMO	15 May 2023 / 15 Sep 2023
C-13 – Complete TOR preparation (BTP) / mobilization	PMO	31 May 2023 / 30 Sep 2023
C-15 – Advertisement (STP) / mobilization	PMO	20 May 2023 / 30 Sep 2023
C-16 – Complete TOR preparation (BTP) / mobilization	PMO	31 May 2023 / 30 Sep 2023
C-17 to C-20 – Advertisement / mobilization	PMO	15 May 2023 / 31 Jul 2023
C-22 to C-24 – Advertisement / mobilization	PMO	15 May 2023 / 31 Jul 2023
Financial Management:		
PMO to prepare new estimate of expenditure and submit to ADB	PMO	15 May 2023
Fill-up all FM positions in PMO and SMOs	PMO	15 May 2023
PMO's proposal/plan to computerize all accounts	PMO	15 May 2023
Submission of training needs assessment of PMO	ISPMC / PMO	15 May 2023
PMO to coordinate with BRM for other financial management specific training	PMO	15 May 2023
Environment:		
Awareness training for monitoring of environmental activities for Kaitola and Manikganj SMOs	PMO	15 May 2023
Submission of the first draft of the EIA addendum	PMO	30 April 2023
Inform ADB of the decision from DoE	PMO	30 April 2023
Social safeguards and land acquisition:		
Updating of RP for Shahjadpur flood embankment	ISPMC / PMO	15 May 2023
All required committees including grievance committee and property valuation committee to be formed in line with RP requirements	PMO	15 May 2023
Expedite implementation of necessary compensation to the affected persons before commencement of any above water construction activities.	PMO	30 Sep 2023
Reporting and others:		
QPR (Jan–Mar 23) to be submitted to ADB including the updated GAP progress report	PMO	30 Apr 2023
PAM update	ADB	During MTR mission
DPP revision (initiated prior to start of MTR mission for	PMO	Prior to MTR mission /

Action	Who	Completion Date
submission for approval immediately after MTR mission)		immediately after MTR mission
Regular update of possible savings	PMO	30 April, 15 May
ADB MTR mission	ADB, PMO	To start during second part of May 2023

V. MISSION'S WRAP-UP MEETINGS

66. On 22 February 2023, a pre-wrap up meeting with MoWR took place and on 10 May 2023, a wrap up meeting was held with ERD. The Mission's findings were discussed at both meetings. The comments and agreements recorded by the Mission are summarized in the following two paragraphs.

67. Pre-wrap up meeting with MoWR:

- (i) **Government budget allocation:** counterpart funds are fully available for the current fiscal year and the next one (ending in June 2024) (*para. 34*).
- (ii) **Salimabad channel closure** not being technically feasible anymore is recognized without the need for PMO to assess this any further (*para. 12 and Appendix 2*); instead PMO is to focus on progressing the remaining works in hand and assessing the proposed additional works (*para. 20*) to maximize the utilization of the funds before the closure of the MFF in June 2024.
- (iii) **Current savings on the loan and grant amounts:** Prior to the start of the mid-term review mission, PMO will conduct a detailed review of the savings and investigate possible alternatives (including environmental aspects) that could be undertaken in lieu of Salimabad channel closure works (*para. 32*) and will inform ADB prior to the start of the mid-term review mission.
- (iv) **Partial cancellation of the loan:** this will be assessed in detail jointly by PMO and ADB during the mid-term review mission (*para. 32*).
- (v) **Land acquisition:** PMO was requested to expedite implementation of necessary compensation to the affected persons before commencement of any above water construction activities (*para. 39*).
- (vi) **Staffing:** PMO and BWDB need to urgently fill all the pending vacant positions allowed per the approved DPP and to find alternative solutions for the positions which were removed despite being needed under the project (*para. 25*). In particular, the position of Chief Engineer River Management for main rivers of central Bangladesh was agreed to be filled by PMO/BWDB as soon as possible, and before the start of the mid-term review mission. (*para. 26*).
- (vii) **DPP revision:** the current DPP is valid till June 2025, however PMO was requested to start revising the DPP immediately by incorporating the possible proposed additional works (*para. 20*) and for the final revised DPP to be submitted by PMO/BWDB/MoWR to the government immediately after the end of the mid-term review mission (*para. 64*).

68. Wrap up meeting with ERD:

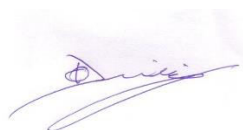
- (i) **Mid-term review (MTR) mission:** the Mission informed that the MTR mission is planned from 21 to 28 May pending to ADB receiving clearance from ERD.
- (ii) **Salimabad channel closure** not being technically feasible anymore was discussed and acknowledged (*para. 12 and Appendix 2*) and PMO is to focus on progressing the

- remaining works in hand and assessing the proposed additional works (para. 20) to maximize the utilization of the funds before the closure of the MFF in June 2024.
- (iii) **Possible extension of closing date of MFF and Project 2:** the Mission explained that as per previous discussions held in previous years and in particular during processing of Project 2 in 2020 and 2021, it will be very difficult to obtain approval from the ADB Board for a one year extension of the closing date of the MFF and Project 2 and that activities that can not be completed under Project 2 before 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 before 26 June 2024. However, ERD suggested that the PMO sends to ERD a letter with all justifications that in their view may warrant an possible extension of the closing date of the MFF and Project 2 for ERD to review and possibly send to ADB for consideration.
- (iv) **Staffing:** MoWR briefly informed of progress regarding the appointment of the Chief Engineer River Management for main rivers of central Bangladesh.

VI. ACKNOWLEDGMENTS

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

70. The next mission will be the midterm review mission, tentatively scheduled for the second part of May 2023 (from 21 May 2023).



Olivier Drieu
 Senior Water Resources Specialist/Mission Leader
 Environment, Natural Resources and Agriculture Division
 South Asia Department
 Asian Development Bank
 10 May 2023

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Appendix 1: List of Key Persons Met

Economic Relations Division (ERD)

S M Jakaria Huq	Joint Secretary
Quazi Arefin Rezoane	Senior Assistant Secretary

Implementation Monitoring and Evaluation Division (IMED)

Sabnam Sarmin	Deputy Director
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Ministry of Water Resources (MOWR)

Mizanur Rahman	Additional Secretary, Development Wing
Mohammad Lutfar Rahman	Joint Secretary, Development-1 Branch,
Mohammad Mashhudul Kabir	Deputy Secretary, Development-01 Section
Mohammed Mobassherul Islam	Deputy Secretary

Bangladesh Water Development Board (BWDB)

Md. Nurul Islam Sarker	Director General
Md. Romjan Ali Pramanik	Additional Director General (Western Region)

Project Management Office (PMO)

Md. Ruhul Amin	Project Director
Gopal Chandra Biswas	Deputy Director (Accounts)
Sultan Mahmud	Executive Engineer
Nazmul Islam	Executive Engineer
K.M. Saki Ingil	Assistant Engineer
Rashidul Mamur Rafid	Assistant Engineer

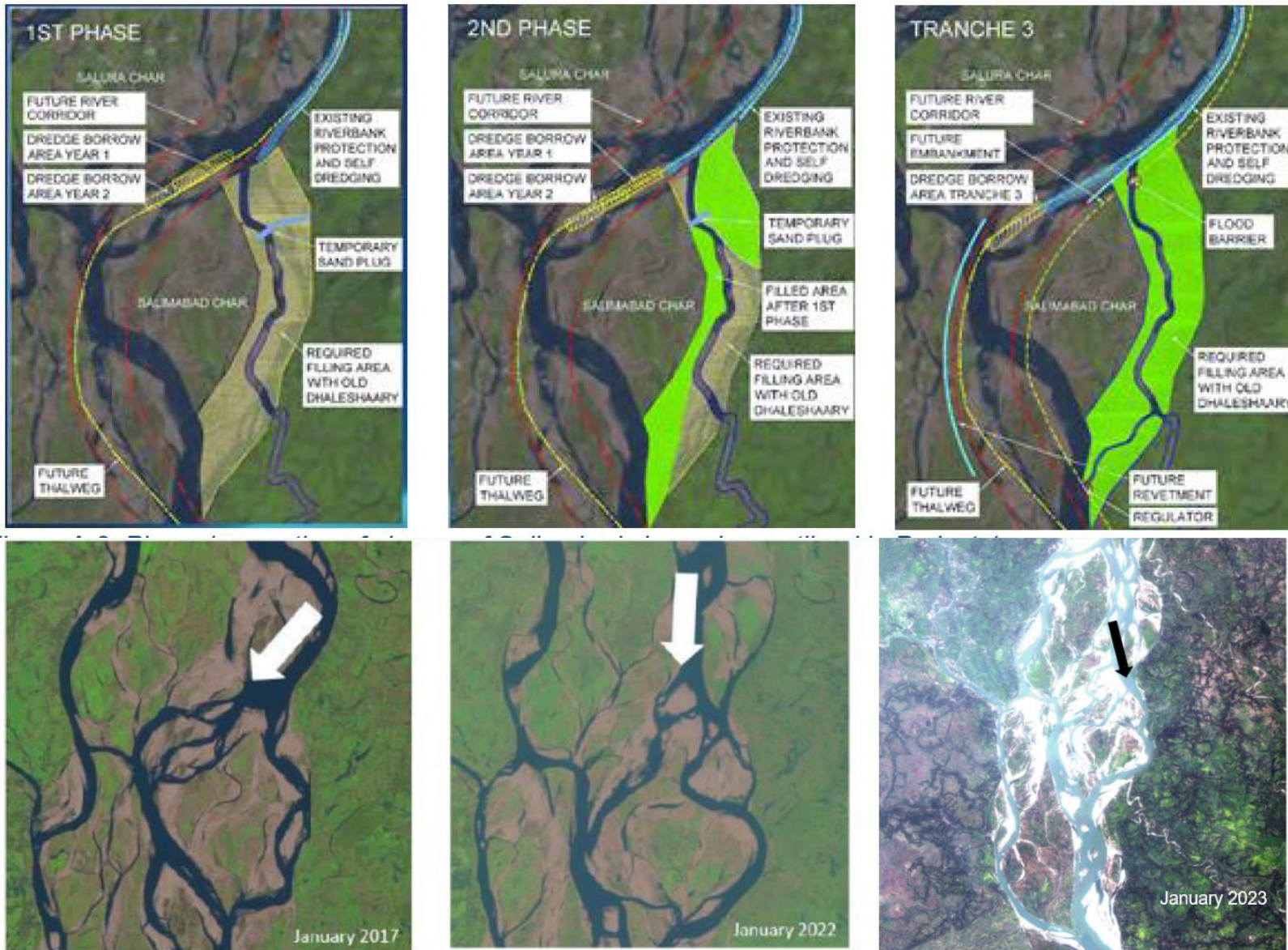
Department of Disaster Management (DDM)

Shafiur Rahman	Project Manager, FRERMIP – P2
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Institutional Strengthening and Project Management Consultant (ISPMC) of the PMO of BWDB

Knut Oberhagemann	Team Leader / River Management Specialist
Douglas White	Construction/Quality Control Engineer
Jesper Mathiesen	River Engineer
Quazi Towfiqul Islam	Community-based Flood Risk Management Specialist
Ruksana Begum	Social Development and Gender Specialist

Appendix 2: Aerial Photographs of the Morphological Change at Salimabad Channel



Appendix 3: Status of Procurement (as of 27 April 2023)

A. Goods Packages

Revised Package No.	Description of Procurement Package as per DPP	Estimated price in DPP Mil. BDT	Contract price (Mil. BDT)	Current Status/estimated timeline
G-01	Geotextile bag supply for upstream Chauhali (15.50km)	1804.228	1513.971	Completed, awarded
G-02	Geotextile bag supply for Enayetpur (7km) & Benotia (3.50km)	1060.911	969.41206	Completed, awarded
G-03	Geotextile bag supply for Harirampur Extension (4km)	540.585	441.369	Completed, awarded
G-04	Geotextile bag supply for Adaptation Works of completed works under JMREMP & FRERMIP Tranche-1 Project	756.083	572.23057	Completed, awarded
G-05	Geotextile bag supply for Adaptation Works of FRERMIP Project- 2	621.763		Draft bidding documents submitted by PMO to ADB on 27 April 2023; for ADB's review
G-06	PMO-BWDB Office Equipment	5.98		Package was tendered but no bidders found responsive, requiring re-tender
G-07	Survey Equipments	20.00		Cannot be completed as per govt. restriction
G-08	PMU-DDM Office Equipment	0.45		MoU signed with DDM, package expected to be awarded in May 2023

B. Works Packages

Package No.	Description of Procurement Package as per DPP	Estimated price (DPP) Mil. BDT	Contract price (Mil. BDT)	Current status/estimated timeline
W-01	Underwater riverbank protection with geotextile bags at Benotia- 3.50 km	265.960	210.1	Completed; awarded; mobilization started
W-02	Underwater riverbank protection with geotextile bags at Enayetpur- 7.00 km	379.281	314.4	Completed; awarded; mobilization started
W-03	Underwater riverbank protection with geotextile bags at Upstream Chauhali- 7.50 km	453.508	359.7	Completed; awarded; mobilization started
W-04	Underwater riverbank protection at Upstream Chauhali- 8.00 km with geotextile bags, including 1.00 km of dredging on the underwater slope	779.303	624.1	Completed; awarded; mobilization started
W-05	Underwater riverbank protection with geotextile bags extension at Harirampur- 4.00 km	379.605	220.18	Completed; awarded; mobilization started
W-06	Adaptation Works for riverbank protection with geotextile bags of completed works under JMREMP & FRERMIP	540.979		Work order issued by PMO on 27 April 2023

	Tranche-1 Project			
W-07	Adaptation Works for riverbank protection with geotextile bags of FRERMIP Project-2	435.780		To be started after implementation of W-01 to W-05 Contract by November
W-08	Pilot Land Recovery/ Jamuna River dredging and Salimabad channel choking	1624.659		Cannot be done due to current morphological situation
W-09	Emergency works	350.965		Tenders received on 4 April 2023; evaluation is ongoing
W-10	Shajadpur embankment construction from chainage km 21.300 to km 29.200 = 7.90 km. and construction of 2nos. regulators along the embankment.	520.725		Tender preparation ongoing by PMO.
W-11	Maintenance works for 21.30 km. Tranche-1 Embankment.	85.302		Tenders received on 4 April 2023; evaluation is ongoing
W-12	Benotia riverbank temporary wave protection- 3.50 km	80.130		To be deleted due to delays in required pre-work activities.
W-13	Enayetpur riverbank temporary wave protection- 7.00 km	113.72		
W-14	Upstream Chauhali temporary wave protection- 15.50 km.	81.3		
W-15	Harirampur temporary wave protection- 4.00 km. 29pprox..	91.7		
W-16	Construction of O&M sheds for Kojjuri embankment (7 sheds)	10.0		Bidding document preparation ongoing by PMO.
W-17	Offtake structure– Ghior Khal	1047.952		To be deleted due to morphological change.
W-18	Fish Sanctuaries	182.981		To be deleted due to delays in required pre-work activities.

C. Consulting Services Packages

Package No.	Description of Procurement Item as per DPP	Estimated price (DPP) Mil. BDT	Contract price (Mil. BDT)	Current status/estimated timeline
C-01	Institutional Strengthening and Project Management Consultant (ISPMC)	1276.724	1276.380	Completed; awarded; contract signed in August 2022.
C-02	Community-based flood risk management (CbFRM) support	250.00		MoU signed with DDM, will be procured by DDM. TOR under review by ADB.
C-03	Community capacity development support for participatory O&M	37.529		TOR under review by ADB.
C-04	Livelihood development support	59.690		ToR preparation ongoing. Finalization after contract of C10.
C-05	River survey (including bathymetric, ADCP and float tracking) and multi beam echosounder survey and bathymetric survey of the distributaries	149.177	144.1	Completed; awarded; Contract signed in November 2022
C-06	Management information system (MIS) development	67.310		ToR preparation ongoing.

Package No.	Description of Procurement Item as per DPP	Estimated price (DPP) Mil. BDT	Contract price (Mil. BDT)	Current status/estimated timeline
C-07	Environment management and risk mitigation programs	25.4		ToR under review by ADB.
C-08	Erosion prediction	38.1		Negotiations completed; ready for award.
C-09	Geotechnical investigations	11.733		Package to be deleted.
C-10	Resettlement solution through NGO	44.450		Revised TOR under review by ADB.
C-11	Model study for Salimabad channel closure	40.640		Package to be deleted.
C-12	Offtake physical modelling	52.705		
C-13	Topographic Surveys	14.669		ToR under preparation by PMO.
C-14	Monitoring of pilot works (grout mattresses installed in Tranche 1)	24.765		Package to be deleted.
C-15	Environment/ biodiversity and social baseline impact monitoring and fisheries study	80.772		ToR under review by ADB.
C-16	Socio-economic study of the char people	53.848		ToR under preparation by PMO.
C-17	External monitoring of social safeguards (national)	10.795		PMO to advertise.
C-18	External monitoring of environmental safeguards (national)	10.795		
C-19	External monitoring of procurement activities (national)	10.795		
C-20	External monitoring of Financial Management (international)	10.00		
C-21	Procurement specialist (national)	7.00		
C-22	Resettlement specialist (national)	6.00		PMO to advertise.
C-23	Gender specialist	4.50		
C-24	Environmental specialist	4.50		

Appendix 4: Status of PMO/SMO Staffing Assignments to the Project

Position	No. of Staff	Responsibility	Type of engagement/ % of time for Project-2	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)	2	1. Design, Quality Control, River Training and compliances of Loan covenants & DMF	Full time	--	Vacant; only 1 position in DPP
		2. Procurement, Planning, Monitoring and Environmental & Social safeguards	Full time	--	
Executive Engineer (or equivalent rank)	4	1. Procurement, contract management	Full time	Md. Sultan Mahmud	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	M. Nazmul Islam	
		4. Quality Control, planning, adaptation, monitoring	Full time		
Subdivisional Engineer	2	1. Procurement, contract management, Resettlement & GAP	Full time	--	1 in DPP; was filled but got promoted; currently vacant
		2. Quality Control, adaptation, maintenance, Environment	Full time		
Assistant Engineer	2	1. Procurement, contract management, project management and administrative activities	Full time	K. M. Saki Ingil	Filled; fulltime
		2. Monitoring, asset management and O&M system	Full time	Rashidul Mamur Rafid	Filled; fulltime
Assistant Director	1	Land Acquisition, Resettlement	Full time	Monirul Islam	Filled; fulltime
Revenue Surveyor	1	Land Acquisition, Resettlement	Full time	--	Not in DPP
Systems Analyst	1	MIS, Inventory, Database, Project Website	Full time	--	Not in DPP
Programmer	1	MIS, Asset Management	Full time	--	Not in DPP
Assistant Programmer	1	Inventory, Database	Full time	--	Not in DPP
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
Accounts Officer	1	Support Deputy Director	Full time	--	Not in DPP
Senior Accountants Assistants	3	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
Data entry operator	1	Riverbank protection & Embankment asset management system	Full time	--	Not in DPP
Driver	4		Outsourced	--	Not filled but included in the new package
Guard	2		Outsourced	--	
MLSS	4		Outsourced	--	
Cleaner	2		Outsourced	--	
Sub-total	34				
Kaitola SMO (Deputation from Board)					

Position	No. of Staff	Responsibility	Type of engagement/ % of time for Project-2	Name	Status
Executive Engineer	1	Head of the SMO in Kaitola and nominated 'Project Manager' / 'Engineer'	Full time	Md. Mahbubur Rahman	Part time; works as per direction of PD
Subdivisional Engineer	2	Exclusively implement FRERMIP works at the subprojects	Full time	Md. Shaheen Reza	Only 1 in DPP; fulltime
Assistant Engineer	1	Daily construction supervision at the subproject sites	Full time	--	Not in DPP
Sub Assistant Engineers	3	Daily construction supervision at the subproject sites	Full time	Shahinur Mr. Al Amin	Only 2 in DPP; fulltime
Senior Accounts assistant	1	Assist SMO in daily accounting activities	Full time	--	Vacant
Data entry operator	1	Update asset management system	Full time	--	Vacant (Computer Analyst in DPP)
Revenue surveyor	1	Quantity check of contractors' invoices	Full time	--	vacant
Work assistant	6	Daily construction supervision	Full time	Abdul Jalil	3 in DPP; 1 filled
Driver	1		Outsourcing	--	Not filled but included in the new package
Guard	1		Outsourcing	--	
MLSS	2		Outsourcing	--	
Cleaner	1		Outsourcing	--	
Sub-total	21				
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; part-time
Subdivisional Engineer	2	Implementation of FRERMIP works at the subprojects	Part-time / 60%	Imdadul Haque	1 in DPP; filled
Assistant Engineer	1	Daily construction supervision at the subproject sites	Part-time / 60%	--	Position not in DPP
Sub Assistant Engineers	3	Daily construction supervision at the subproject sites	Part-time / 80%	Mofijul Islam Mojnu Md. Sayedur Rahman	Only 2 in DPP; 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	6	Daily construction supervision	Part-time / 80%	Mosharraf Hossain Sumon Mia	2 in DPP; filled
Driver	1		Outsourcing	--	Not filled but included in the new package
Guard	1		Outsourcing	--	
MLSS	2		Outsourcing	--	
Sub-total	20				
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
Assistant Engineer	1	Daily construction supervision at the subproject sites	Part-time / 70%	--	Not in DPP
Sub Assistant Engineers	2	Daily construction supervision at the subproject sites	Part-time / 80%	Shahinur Rahman, Md. Moniruzzaman	Filled

Position	No. of Staff	Responsibility	Type of engagement/ % of time for Project-2	Name	Status
Senior Accounts assistant	1	Assist SMO in daily accounting activities	Part-time / 70%	--	Vacant
Data entry operator	1	Update asset management system	Part-time / 70%	--	Vacant
Revenue surveyor	1	Quantity check of contractors' invoices	Part-time / 70%	--	Not in DPP
Work assistant	6	Daily construction supervision	Part-time / 80%	Lal Chad Mia, Md Iqbal Hossen	2 in DPP; filled
Driver	1		Outsourcing	--	Not filled but included in the new package
Guard	1		Outsourcing	--	
MLSS	2		Outsourcing	--	
Sub-total	18				

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.

Source: Bangladesh Water Development Board.

Appendix 5: Revised PMO and SMO Staffing Requirements

Position	No. of Staff	Responsibility	Type of engagement/ % of time for Project-2	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	--	Vacant; 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. Sultan Mahmud	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	M. Nazmul Islam	
		4. Quality Control, planning, adaptation, monitoring	Full time		
Subdivisional Engineer	1	1. Procurement, contract management, Resettlement & GAP	Full time	--	1 in DPP; was filled but got promoted; currently vacant
		2. Quality Control, adaptation, maintenance, Environment	Full time		
Assistant Engineer	2	1. Procurement, contract management, project management and administrative activities	Full time	K. M. Saki Ingil	Filled; fulltime
		2. Monitoring, asset management and O&M system	Full time	Rashidul Mamur Rafid	Filled; fulltime
Assistant Director	1	Land Acquisition, Resettlement	Full time	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	--	Not filled but included in the new package
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	Part time; works as per direction of PD
Subdivisional Engineer	1	Exclusively implement FRERMIP works at the subprojects	Full time	Md. Shaheen Reza	Only 1 in DPP; fulltime
Sub Assistant Engineers	2	Daily construction supervision at the subproject sites	Full time	Shahinur Mr. Al Amin	Only 2 in DPP; fulltime
Senior Accounts assistant	1	Assist SMO in daily accounting activities	Full time	--	Vacant
Data entry	1	Update asset management system	Full time	--	Vacant

Position	No. of Staff	Responsibility	Type of engagement/ % of time for Project-2	Name	Status
operator					(Computer Analyst in DPP)
Revenue surveyor	1	Quantity check of contractors' invoices	Full time	--	vacant
Work assistant	3	Daily construction supervision	Full time	Abdul Jalil	3 in DPP; 1 filled
Driver	1		Outsourcing	--	Not filled but included in the new package
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; part-time
Subdivisional Engineer	1	Implementation of FRERMIP works at the subprojects	Part-time / 60%	Imdadul Haque	1 in DPP; filled
Sub Assistant Engineers	2	Daily construction supervision at the subproject sites	Part-time / 80%	Mofijul Islam Mojnu Md. Sayedur Rahman	Only 2 in DPP; 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	2 in DPP; filled
Driver	1		Outsourcing	--	Not filled but included in the new package
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	Filled
Senior Accounts assistant	1	Assist SMO in daily accounting activities	Part-time / 70%	--	Vacant
Data entry operator	1	Update asset management system	Part-time / 70%	--	Vacant
Work assistant	2	Daily construction supervision	Part-time / 80%	Lal Chad Mia, Md Iqbal Hossen	2 in DPP; filled
Driver	1		Outsourcing	--	Not filled but included in the new package
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.

Source: Bangladesh Water Development Board.

Appendix 6: 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 ¹⁰ 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 accountants Assistant. Tangail SMO has the required Senior Accounts Assistant. ToR has been concurred by ADB. Consultant will be engaged after necessary procedure of consultancy service procurement.	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 Accountants Assistant. 1 Account Assistant will be assigned to Koitola SMO upon approval of the higher authority of BWDB. To be rechecked during MTR.
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	Pending.	It is essential, ADB is requested to arrange training.
Internal audit	Ensure the project is included in the audit plan of the BWDB internal audit function.	By Loan effectiveness	BWDB	PMO may request audit directorate to include this project in their audit plan.	The payment system in BWDB has their internal pre-checking procedure in different tiers before payment. Additional internal audit is not essential.
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. Address audit observations in a timely manner.	Within 2 months after Loan effectiveness. Annually throughout project implementation. Continuous throughout the project.	BWDB	FAPAD audits all of the foreign aided projects in each financial year. No need to include it specifically.	FAPAD will submit APFS to ADB annually. Audit observation will be addressed in timely manner.

¹⁰ 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)
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	It is included in every QPRs.	PFS will be prepared.
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	Pending	ADB's disbursement systems (CPD & LFIS) will be used timely to reconcile project accounts and ADB disbursement records on a quarterly basis.
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	Pending	All accounts will be computerize including receipts and payments under the ADB loan and automate financial reporting to the extent possible. Currently, all records are kept in MS Excel format separately.
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. The supporting documentation is to be filed properly at the PMO to support ADB's SOE reviews and annual project audits.	Monthly	BWDB and DDM	The documents are being filed regularly.	

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 7: Status of Design and Monitoring Framework

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)	No change; on track to meet target
	b. About 0.5 million people protected from inundation damages (2020 baseline = 0) (0.1 million people) ^c (OP 2.1, 3.2)	No change; on track to meet target
	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)	Substantially possible with longer-term wave protection delayed.
	d. 8,000 ha of char land recovered from the river for development (2020 baseline = 0) (OP 2.1, 3.2, 5.1.1)	6,000 ha no longer possible due to morphological changes of Salimabad channel.
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)	No change; on track to meet target
	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)	1.7 km do not depend on land acquisition and are currently achievable
	1c. 2 regulators and other hydraulic structures (i.e., fish passes) installed (2020 baseline = 0) (4) ^c	Possible to split in 2 packages as 1 regulator does not dependent on the land acquisition process
	1d. 1 channel closure with “building with nature” approach ^f (2020 baseline = 0) (OP 1.2)	Will not be achieved as channel closure is not technically feasible further to the recent morphological changes in the vicinity
	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)	No change; on track to meet target
	1f. 14 community groups ^g established and livelihood training program conducted (50% women participants) (2020 baseline = 0) (6) ^c (OP 2.3, 2.5)	No change; on track to meet target
	1g. 12 fish sanctuaries established (2020 baseline = 0)	Will not be achieved by June 2024 but could be achieved with government funds in 2025
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)	Completed in 2019.
	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)	No change; on track to meet target.
	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)	No change; on track to meet target; planned for early 2024.

Results Chain	Performance Indicators with Targets and Baselines	Status
	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)	Only background information can be collected and outline prepared.
	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)	Only outline can be prepared.
	2f. Project website updated (2020 baseline = website developed under Project 1)	No change; on track to meet target
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)	No change; on track to meet target
	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).	No change; on track to meet target
	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)	No change; on track to meet target

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 = multitranché 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

^l 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 (Appendix 6).

Source: Asian Development Bank.

Appendix 8: Policy Framework Road Map

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,	Done 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	During Tranche-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	During Tranche-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	Done 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	Done 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	Needs base set-up approved on 3 Nov 2014; ongoing
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, and with 	BWDB	Entire MFF period; ongoing

Key Issues and Actions	Objectives	Responsibilities	Timeframe
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	During Tranches 1 and 2; 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	During Tranches 1 and 2; 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	Done; MOU for T2 was signed 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	1st roundtable organized on 20 Feb 23
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	During Tranche-1; continuing under Tranche 2
B-9. Establish community participation systems for community-level flood disaster risk management and routine operation and maintenance of flood and riverbank protection infrastructure, and strengthen capacity of community organizations	<ul style="list-style-type: none"> ▪ Develop community-level mechanisms for self-dependent flood and riverbank erosion risk management and sustainable infrastructure management, through encouraging ownership of beneficiaries. 	BWDB, DDM	Entire MFF period; continuing under Tranche 2

Key Issues and Actions	Objectives	Responsibilities	Timeframe
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	During Tranche 1; ongoing; on track
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	During Tranche-1; update to be done under Tranche 2 in Q3 2023
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	During Tranches 1 and 2; on track to be updated in Tranche 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 9: 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.	Partially 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.	Partially complied due to issue on missing staff.
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;	Currently being complied with.
(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 ADBs 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	Currently being complied with. (CPTU website)

Description	Remarks/Issues
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.	
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: (a) the Department of Environment, under the Ministry of Environment and Forest, has granted final approval of the EIA; and (b) BWDB has incorporated the relevant provisions from the EMP into the Works contract.	Currently being complied with.
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.	Currently being complied with.
Counterpart Support 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.	Currently being complied with.
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.	Not yet required.
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.	Not yet required.
Selection of Subproject areas 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.	Complied with.
Environment 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.	Currently being complied with.
Land Acquisition and Involuntary Resettlement 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	Currently being complied with.

Description	Remarks/Issues
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.	
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: (a) compensation and other entitlements have been provided to affected people in accordance with the relevant RP; and	Currently being complied with.
(b) a comprehensive income and livelihood restoration program has been established in accordance with the relevant RP.	Currently being complied with.
Indigenous Peoples 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.	Currently being complied with.
Human and Financial Resources to Implement Safeguards Requirements 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.	Currently being complied with.
Safeguards Related Provisions in Bidding Documents and Works Contracts 18. The Borrower shall ensure, or cause BWDB to ensure, that all bidding documents and contracts for Works contain provisions that require contractors to: (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;	Currently being complied with.
(b) make available a budget for all such environmental and social measures;	Currently being complied with.
(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;	Not yet required.
(d) adequately record the condition of roads, agricultural land and other infrastructure prior to starting to transport materials and construction; and	Currently being complied with.
(e) fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition upon the completion of construction.	Not yet required.
Safeguards Monitoring and Reporting 19. The Borrower shall, or cause BWDB to, do the following: (a) submit semi-annual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission;	Currently being complied with.
(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;	Not yet required.
(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)	Delayed but activities ongoing.

Description	Remarks/Issues
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	
(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.	Not yet required.
<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; (e) 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, to the employees of contractors engaged under the Project and to members of the local communities surrounding the Project area, particularly women.</p>	Currently being complied with.
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 apart from 2 QPRs being late.
<p>Gender and Development</p> <p>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.</p>	Currently being complied with.
<p>Quality Assurance</p> <p>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.</p>	Currently being complied with.
<p>Panel of Experts</p> <p>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.</p>	Currently not required.
<p>Inter-agency Coordination</p> <p>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</p>	Currently being complied with.

Description	Remarks/Issues
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.	
<p>Operation and Maintenance of Project Facilities</p> <p>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.</p>	Not yet required.
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.
<p>Road Map and Policy and Institutional Reforms</p> <p>29. 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.</p>	Currently being complied with.
<p>Policy Dialogue and Coordination with Development Partners</p> <p>30. 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 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.</p>	Currently being complied with.
<p>Financial Matters</p> <p>31. 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.</p>	Partly complied with, some delays and activities ongoing
<p>Governance and Anticorruption</p> <p>32. The Borrower and BWDB shall (a) comply with ADB's 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.</p>	Currently being complied with.
33. 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.	Not yet due.
Section 4.03. The Recipient shall enable 'DB'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 10: PMO's Presentation



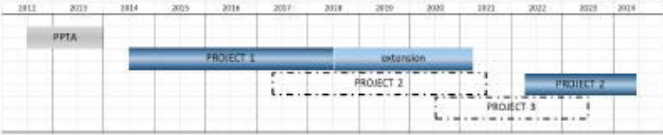
Government of People's Republic of Bangladesh
Bangladesh Water Development Board

Flood and Riverbank Erosion Risk Management
Investment Program (Project-2)

ADB

1

MFF Timeline



Delays during 10-year program (June 2014 to June 2024):

- Corona pandemic (2020 to 2021)
- Project-2 approval (preparation in 2017, loan fact finding July 2020, DPP approved and loan effective in early 2022)
- Only two construction seasons left

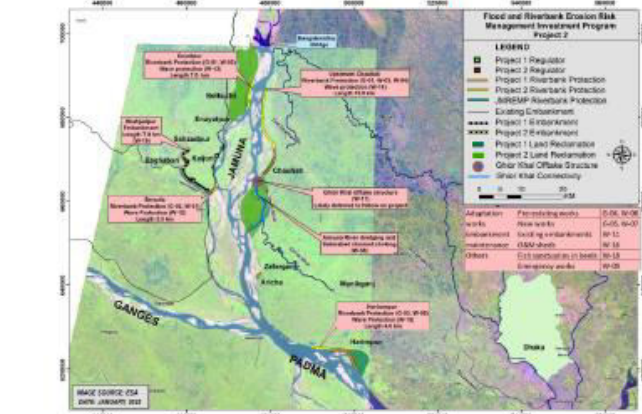
2

FRERMIP (Project 2) Brief

- DPP Approval : 25 January 2022
- Loan Effective: 18 April 2022
- Total Project Cost: 212.8 million USD; ADB Loan 157 million, GoN grant 17.89 million
- Loan Closing: 26 June 2024
- Components: River bank protection, embankment, regulator, CbRFM, etc.

3

Project Map



Legend:

- Project 1 Regulator
- Project 2 Regulator
- Project 1 Riverbank Protection
- Project 2 Riverbank Protection
- MBRMP Riverbank Protection
- Existing Embankment
- Project 1 Embankment
- Project 2 Embankment
- Project 1 Land Reclamation
- Project 2 Land Reclamation
- Other Key Offtake Structure
- Other Key Connectivity

4

CA and Disbursement

- Contract Awarded: ADB Loan part-47.64 million USD, GoN part-10.01 million USD
- Contract award target for next 6 month: ADB- 6 million, GoN part -1 million
- Disbursed: ADB-16.93 million, GoN- 1.02 million
- Disbursement target for next 6 month: ADB 19 million, GoN-2.15 million USD

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Status of the Procurement (Goods)

Package No.	Description of Procurement Package as per DPP	Estimated price (DPP) Mil. BDT	Contract price (Mil. BDT)	Current Status/estimated timeline
G-01	Geotextile bag supply for upstream Chauhali (15.50km)	1804.228	1513.971	LC under process at ADB Start delivery after 2 months of LC confirmation
G-02	Geotextile bag supply for Enayetpur (7km) & Benotia (3.50km)	1060.911	969.41206	LC opened Start delivery at site 28 Feb
G-03	Geotextile bag supply for Harirumpur Extension (4km)	540.585	441.369	LC under process at ADB Start delivery after 30 days of LC confirmation
G-04	Geotextile bag supply for Adaptation Works of completed works under JMREMP & FRERMIP Tranche-1 Project	756.083	572.23057	LC under process at ADB Start delivery after 30 days of LC confirmation
G-05	Geotextile bag supply for Adaptation Works of FRERMIP Project- 2	621.763		Bidding document preparation at final stage
G-06	PMO-BWDB Office Equipment	5.98		IFT advertised, Deadline 9 March
G-07	Survey Equipment	20.00		Cannot be completed as per govt. restriction
G-08	PMU-DDM Office Equipment	0.45		MoU signed with DDM, contract by 30 March

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Status of the Procurement (Works)

Package No.	Description of Procurement Package as per DPP	Estimated price (DPP) Mil. BDT	Contract price (Mil. BDT)	Current status/estimated timeline
W-01	Underwater riverbank protection with geotextile bags at Benotia- 3.50 km	265.960	210.1	Mobilization started Work will be started when geobag from G-02 is delivered
W-02	Underwater riverbank protection with geotextile bags at Enayetpur- 7.00 km	379.281	314.4	Mobilization started Work will be started when geobag from G-02 is delivered
W-03	Underwater riverbank protection with geotextile bags at Upstream Chauhali- 7.50 km	453.508	359.7	Mobilization started Work will be started when geobag from G-01 is delivered
W-04	Underwater riverbank protection at Upstream Chauhali- 8.00 km with geotextile bags, including 1.00 km of dredging on the underwater slope	779.303	624.1	Mobilization started Work will be started when geobag from G-01 is delivered
W-05	Underwater riverbank protection with geotextile bags extension at Harirumpur- 4.00 km	379.605	220.18	Mobilization started Work will be started when geobag from G-03 is delivered

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Status of the Procurement (Works)

Package No.	Description of Procurement Package as per DPP	Estimated price (DPP) Mil. BDT	Contract price (Mil. BDT)	Current status/estimated timeline
W-06	Adaptation Works for riverbank protection with geotextile bags of completed works under JMREMP & FRERMIP Tranche-1 Project	540.979		IFT advertised, Deadline 6 March
W-07	Adaptation Works for riverbank protection with geotextile bags of FRERMIP Project-2	435.780		Will be done after implementation of W1-W5 Contract by November
W-08	Pilot Land Recovery/ Jamuna River Dredging and Salimabad channel choking	1624.859		Cannot be done due to current morphological situation
W-09	Emergency works	350.965		Tender preparation ongoing IFT by 28 February
W-10	Shajadpur embankment construction from chainage km 21.300 to km 29.200 = 7.90 km. and construction of 2nos. regulators along the embankment.	520.725		Tender preparation ongoing. Procurement will be done parallel to land acquisition

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Status of the Procurement (Works)

Package No.	Description of Procurement Package as per DPP	Estimated price (DPP) Mil. BDT	Contract price (Mil. BDT)	Current status/estimated timeline
W-11	Maintenance works for 21.30 km. Tranche-1 Embankment.	85.302		Bidding document preparation ongoing. Mobilization in April 23
W-12	Benotia riverbank temporary wave protection- 3.50 km	80.13		May not be possible to implement. Decision may be made in mid term review session
W-13	Enayetpur riverbank temporary wave protection 2.00 km	113.72		Done
W-14	Upstream Chaubal temporary wave protection 15.50 km	81		Done
W-15	Nandampur temporary wave protection- 4.00 km approx	91		Done
W-16	Construction of O&M sheds for Kojuri embankment (7 sheds)	10.0		Bidding document preparation ongoing. Mobilization in April 23

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Status of the Procurement (Works)

Package No.	Description of Procurement Package as per DPP	Estimated price (DPP) Mil. BDT	Contract price (Mil. BDT)	Current status/estimated timeline
W-17	1 phase structure- Ghosh Bari	1047.952		Cannot be done due to current morphological situation
W-18	Fish Sanctuaries	182.981		Will be done after getting results from C-07

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Status of the Procurement (Services)

Package No.	Description of Procurement Item as per DPP	Estimated price (DPP) Mil. BDT	Contract price (Mil. BDT)	Current status/estimated timeline
C-01	Institutional Strengthening and Project Management Consultant (ISPMC)	1276.724	1276.380	Contract signed in August 2022
C-02	Community-based flood risk management (CbFRM) support	250.00		MoU signed with DDM, will be procured by DDM. Revision regarding quality cost ratio is needed
C-03	Community capacity development support for participatory O&M	37.529		ToR at ADB for review
C-04	Livelihood development support	59.690		ToR preparation ongoing. Finalization after contract of C10
C-05	River survey (including bathymetric, ADCP and float tracking) and multi beam echosounder survey and bathymetric survey of the distributaries	149.177	144.1	Contract signed in November 2022. Progress to date: 30%
C-06	Management information system (MIS) development	67.310		ToR preparation ongoing, will be sent to ADB by 28 February

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Status of the Procurement (Services)

Package No.	Description of Procurement Item as per DPP	Estimated price (DPP) Mil. BDT	Contract price (Mil. BDT)	Current status/estimated timeline
C-07	Environment management and risk mitigation programs	25.4		ToR at ADB for review
C-08	Erosion prediction	38.1		RFP issued, deadline 22 February, 2023. Submission 2: 5 March
C-09	Geotechnical investigation	11.73		May not be needed, can be needed in mid term review session
C-10	Resettlement solution through NGO	44.450		Evaluation Report by 27 February
C-11	Model study for Salimbari channel closure	40.648		Not needed for morphological change
C-12	Offtake physical modelling	52.208		Done
C-13	Topographic Surveys	14.669		ToR 5 th March
C-14	Monitoring of pilot works (grout mattresses installed in Tranche 1)	24.788		May be done by ISPMC, this package can be deleted
C-15	Environment/ biodiversity and social baseline impact monitoring and fisheries study	80.772		ToR at ADB for review
C-16	Socio-economic study of the char people	53.848		ToR will be sent to ADB by 15 March

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Status of the Procurement (Services)				
Package No.	Description of Procurement Item as per DPP	Estimated price (DPP) Mil. BDT	Contract price (Mil. BDT)	Current Status
C-17	External monitoring of social safeguards (national)	10.795		REOI advertisement by 24 February
C-18	External monitoring of environmental safeguards (national)	10.795		Ditto
C-19	External monitoring of procurement activities (national)	10.795		Ditto
C-20	External monitoring of Financial Management (international)	10.00		Ditto
C-21	Procurement specialist (national)	7.00		Contract negotiation will be held this week Mobilization 28 February
C-22	Resettlement specialist (national)	6.00		REOI advertisement by 24 February
C-23	Gender specialist	4.50		Ditto
C-24	Environmental specialist	4.50		Ditto

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Probable un-utilized fund			
Category	Reason	Savings	
		(m USD)	(cr BDT (1USD=110 BDT))
Geobag supply	Lower cost procurement	4.3	47.3
Underwater riverbank protection works*	Lower cost procurement	7.4	81.4
Wave protection works*	Not likely to be implemented	5.6	61.2
Salimabad pilot and offtake structure*	Scale-down due to limited project time and recent morphology	23.1	254.1
Other works and goods*	Lower cost procurement or limited scope required	2.1	23.0
Consultancy and non-consultancy packages	Lower cost	4.2	46.7
Total savings		46.7	513.70
Contingencies		27.1	298.1
Total available funds		73.8	811.8

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Way forward
<ul style="list-style-type: none"> • Site adjustment required The work was planned in early 2020 (three flood seasons have changed the river substantially in places • Project savings allow to build more riverbank protection works with focus on the approved sub-project areas

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Proposal for extension of work
<ul style="list-style-type: none"> • <i>2.90 km at upstream of W-04 package.</i> The technical committee formed by BWDB having members from BWDB design, planning, field, IWM and CEGIS recommended for this RTW work in February 2022. Beside this, another 5.1 km is also vulnerable in between aforementioned 2.90 km and W-4 package. So, total 8 km new work needed (can be finalized by project technical committee). Immediately, precautionary emergency work of 3 km will be taken under emergency package (W-09) in this area. • BWDB conducted a complete study for Investigation of Morphological Process at Downstream of Bangabandhu (Jamuna) Bridge & Erosion Control along Left Bank of Jamuna River at Manikganj District through contacting Institute of Water Modelling (IWM). The study was conducted during March 2022 to January 2023. The study recommended for 3 interventions at left bank of Jamuna and Padma river <ul style="list-style-type: none"> • 2 km of revetment at Char near Bachamara (near Salimabad) • 10 km of revetment at d/s of Paturia to Gopinathpur (near Harirumpur), • 1.5 km of revetment at Near Jafarganj

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