Early Warning System

ADB-54398-002

Restoration of Waterbodies for Sustainable Water Management in Dhaka Watershed

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Quick Facts

Countries	Bangladesh
Specific Location	Dhaka Division
Financial Institutions	Asian Development Bank (ADB)
Status	Active
Bank Risk Rating	U
Voting Date	2020-12-11
Borrower	Government of Bangladesh
Sectors	Water and Sanitation
Investment Type(s)	Fund
Investment Amount (USD)	$ 0.50 million

Project Description

According to the bank's website, "The transaction technical assistance (TA) facility will support for sustainable water management of the megacity Dhaka city by focusing on restoration of severely degraded waterbodies in Dhaka watershed through capacity building support under two projects: (i) ongoing project: Dhaka Water Supply Network Improvement Project and (ii) ensuing project: Piloting of Online Continuous Effluent Monitoring System for Surface Water Quality Improvement in Dhaka Watershed (for approval in 2021). The TA facility will deliver following three key outputs:

Output 1. Support hydrogeological study of Upper and Lower Dupi Tila aquifers with comprehensive plan for aquifer recharge. The TA will support the ongoing project through completion of hydrogeological study to assess the storage capacity of the aquifers, groundwater reserves, and recovery status. The following activities will be conducted: (i) assess the storage capacity of aquifers, threats of pollution from endogenous and exogenous process, and analyze groundwater reserve and recovery status, and (ii) explore suitable location and techniques for aquifer recharge and prepare a comprehensive plan for artificial aquifer recharge. As surface waterbodies contribute to aquifer recharge, water quality monitoring and restoration measures supported by ensuing project will directly contribute to the outcome of ongoing project.

Output 2. Prepare comprehensive water quality monitoring plan for restoration of waterbodies in Dhaka watershed. The TA will support the ensuing project through preparation of comprehensive water quality monitoring plan including measures for restoration of waterbodies in Dhaka watershed. The following activities will be conducted: (i) assess supply augmentation potentials of available surface waterbodies that are partially or entirely within Dhaka City by detailed mapping, (ii) prepare a list of waterbodies with restoration potential focusing on all season storage enhancement, groundwater recharge, and enhanced ecosystem services to be supported under the project, (iii) pollution mapping including pollution levels of waterbodies, quality of receiving influents, and sources for both surface water and groundwater, (iv) identify and evaluate suitable restoration measures including technical and nature-based solutions for pollution prevention and reduction, and flow augmentation, and (v) develop a mechanism for online water quality monitoring. The results will support in preparation of the ensuing project particularly on ensuring adherence to ADB's due diligence requirements.

Output 3. Review policies and institutional framework to support restoration of degraded waterbodies. Considering both surface water quality and groundwater supply augmentation, the TA will help identify the gaps and suggest policy measures in Dhaka watershed. Artificial aquifer recharge through various measures will be reviewed that can help the ensuing project in exploring design options to facilitate the restoration of surface waterbodies. The policy analysis would bridge the capability gaps, apply best practices, and foster innovative solutions for restoration of waterbodies with a focus on sustainable water supply challenges in the urban water sector which will be utilized in the design of the ensuing project."

Investment Description

- Asian Development Bank (ADB)

Contact Information

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The Accountability Mechanism is an independent complaint mechanism and fact-finding body for people who believe they are likely to be, or have been, adversely affected by an Asian Development Bank-financed project. If you submit a complaint to the Accountability Mechanism, they may investigate to assess whether the Asian Development Bank is following its own policies and procedures for preventing harm to people or the environment. You can learn more about the Accountability Mechanism and how to file a complaint at: http://www.adb.org/site/accountability-mechanism/main .

Bank Documents

- Project Disclosure PDF [Original Source]
- Technical Assistance Report