

Bangladesh: Dhaka Environmentally Sustainable Water Supply Project

Project Name	Dhaka Environmentally Sustainable Water Supply Project	
Project Number	42173-013	
Country	Bangladesh	
Project Status	Approved	
Project Type / Modality of Assistance	Loan	
Source of Funding / Amount	Loan 3051-BAN: Dhaka Environmentally Sustainable Water Supply Project	
Amount	Asian Development Fund	US\$ 250.00 million
	Loan 8292-BAN: Dhaka Environmentally Sustainable Water Supply Project	
	Agence Francaise de Developpement	US\$ 64.00 million
	Loan: Dhaka Environmentally Sustainable Water Supply Project	
	European Investment Bank	US\$ 136.00 million
Strategic Agendas	Environmentally sustainable growth Inclusive economic growth	
Drivers of Change	Governance and capacity development Partnerships	
Sector / Subsector	Water and other urban infrastructure and services - Urban water supply	
Gender Equity and Mainstreaming	Effective gender mainstreaming	
Description	The project will provide more reliable and improved security of water supply in Dhaka k new surface water supply scheme for supply augmentation, which includes the develop intake at Meghna River, a raw water transmission pipeline, a water treatment plant (W with capacity of 500 million liters per day (MLD), a treated water transmission pipeline water supply network, and distribution reinforcements. The project will also include distimprovements to reduce nonrevenue water (NRW); and will improve the quality of water including support to low-income communities.	oment of a water TP) at Gandharbpur to the existing tribution network
Project Rationale and Linkage to Country/Regional Strategy	Water security. The government has set a target of providing safe water coverage and throughout the country by 2015. However, achieving and sustaining this target remains challenge, with population growth in urban areas much higher than the national average Supply and Sewerage Authority (DWASA) provides water supply to about 90% of the pomillion in its service areas of about 400 square kilometers (km2), but is unable to provi and quantity of water to its beneficiaries despite continual efforts for improvements. It service areas to about 500 km2 by 2020 and 600 km2 by 2035, with a projected popula million. This requires significant capital investments to increase the level of supply, whiterm water security. Environmental sustainability. DWASA has been relying heavily on groundwater as a socuply, but current abstraction is beyond sustainable yields. Groundwater resources are the water table is falling by 2 3 meters per year, which makes the lifetime of deep tube 40 60 deep tube wells becoming inoperable each year. Groundwater extraction needs to 1,900 MLD in 2012 to 1,360 MLD by 2020 and 1,260 MLD by 2025, when the overall su increased to cater to the growing population in larger service areas. The main existing water is also being polluted rapidly. Out of the total 2,400 MLD currently provided by D provided by the Saidabad WTP, which abstracts surface water from the nearby Sitalakh water quality is deteriorating, particularly in terms of high ammonia concentration durity owing to uncontrolled industrial effluent discharges into the river. The ammonia concentration durity owing to uncontrolled industrial effluent discharges into the river. The ammonia concentration durity owing to uncontrolled industrial effluent discharges into the river. The ammonia concentration durity owing to uncontrolled industrial effluent discharges into the river. The ammonia concentration durity owing to uncontrolled industrial effluent discharges into the river. The ammonia concentration durity acceptable level putting the sustainable	s a major ge. Dhaka Water opulation of 10.7 de sufficient quality plans to expand its ation of about 29 ille ensuring long- urce of water e depleting, and e wells shorter, with to be reduced from pply needs to be source of surface WASA, 450 MLD is tya River. The river ng the dry season attration is treat to an tes it essential for term development

Project Outcome		
Description of Outcome More reliable and improved security of water supply in Dhaka.		
Progress Toward Outcome	Procurement of civil works for design-build contract of intake, pipeline and water treatment plant ongoing.	
Implementation Progress		
Description of Project Outputs	 New surface water supply system developed. Distribution network strengthened. Project management and administration adequately supported. 	
Status of Implementation Progress (Outputs, Activities, and Issues)	Procurement of civil works for design-build contract of intake, pipeline and water treatment plant ongoing. Recruitment of consultants ongoing.	
Geographical Location		
Safeguard Categories		
Environment	В	
Involuntary Resettlement	А	
Indigenous Peoples	С	

Summary of Environmental and Social Aspects

Environmental Aspects

The project is category B for environment. Two initial environmental examinations (IEEs) with environmental management plans (EMPs), one for DNI and one for the new WTP with associated works, were prepared as part of the feasibility study in accordance with ADB s Safeguards Policy Statement (SPS, 2009) and government laws. The documents were disclosed on ADB s website and relevant information disclosed to project communities. The IEEs including EMPs will be updated and submitted to ADB for review and approval during detailed design. The IEEs concluded that no significant adverse environmental impacts are anticipated and any impacts will be mitigated through measures outlined in the EMPs. DWASA developed a sewerage master plan with two wastewater management projects, which will offset the incremental water supply caused by the project. The IEEs represent a single, unified document to ensure compliance with the rules and guidelines of ADB, AFD, EIB, and the government, and will be implemented as a single process regardless of the funding source. Consultant support will ensure that the PMU will have adequate capacity to manage environmental impacts. Environmental reporting to ADB will be done on a semi-annual basis. Consultation and public participation will continue throughout project implementation and any environmental grievances will be handled in accordance with the grievance redress mechanism developed for the project.

Involuntary Resettlement

The project is category A for involuntary resettlement. For works related to output 1, a total of 192.4 acres of private land will be acquired and an additional 118.3 acres of government land will be needed to construct the intake facilities and a total 34.5 kilometers of raw and treated water transmission mains. The proposed WTP will use DWASA land. The land was acquired by DWASA in 1985 from the local land owners and currently is still under cultivation. A total of 3,451 households will be affected due to land acquisition and resettlement activities. 1,390 households will experience significant impacts in their livelihood either by physically being displaced or by losing more than 10% of their economic assets. In addition, about 1,600 agricultural laborers may lose their income temporarily. A draft resettlement plan was prepared to mitigate the land acquisition and resettlement impacts. Eight public consultations and numbers of small focus group discussions (FGDs) have been undertaken with the affected peoples on the purposes and benefits of the project s activities and the possible impacts to their livelihood and daily activities. Meaningful consultations will continue with communities throughout implementation. Qualified and reputed NGOs experienced with land acquisition and resettlement activities will be recruited to support DWASA to assist finalization and implementation of the resettlement plan, and to conduct community development, livelihood and income restoration program for severely affected and vulnerable households. An external monitoring agency will be recruited by DWASA to monitor and evaluate the implementation of the resettlement plan. A separate resettlement plan was prepared for output 2, to mitigate temporary impacts that may occur to the road side vendors and hawkers during the construction. No land acquisition will be required for this activity. A separate NGO and MSC will be recruited to support DWASA in updating and implementing the resettlement plan.

Indigenous Peoples

The project is category C for indigenous peoples as the social impact assessment confirmed no ethnic minorities in the project sites.

Stakeholder Communication, Participation, and Consultation

During Project Design

The project will improve access to water supply for the low-income communities, and ensure participation of the poor and women in consultation, planning for resettlement work, site selection of community connection points, community awareness raising, hygiene education, and formation of community-based organizations (CBOs). A gender action plan (GAP) and consultation and participation plan have been prepared.

CBOs will be established and/or strengthened in low-income communities to enhance regularization of existing illegal connections and the introduction of new ones. Nongovernment organizations (NGOs) will be engaged to facilitate the participation of communities, including women and the poor.

During Project Implementation

The role of NGOs in the implementation and monitoring of the resettlement plan and the GAP has been incorporated. This includes awareness raising and community mobilization activities in low-income communities.

NGOs will be engaged to assist the smooth implementation of resettlement plans and the GAP, including organizing CBOs, providing training, disseminating information, and raising awareness to strengthen the participation of the public including the poor and women.

Business Opportunities

Consulting Services

Consulting services will be engaged using ADB's Guidelines on the Use of Consultants (2013, as amended from time to time).

Management, design, and supervision consultants will be engaged for the Gandharbpur WTP and related works (from intake to injection point and distribution reinforcements) and management and supervision consultants will be engaged for DNI in zone 6. An estimated 591 person-months (all national) of NGOs will be provided to (i) assist the implementation of the resettlement plans, (ii) undertake awareness campaign programs on water conservation and hygiene education in zone 6, and (iii) supporting improved access to low income communities in zone 6. Three teams of NGOs will be recruited to support resettlement implementation in different project areas. Consulting firms and NGOs will be engaged using the quality- and cost-based selection (QCBS) method. Out of two consultancy packages and three NGO packages, a standard quality:cost ratio of 80:20 will be used for one consultancy package and two NGO packages, while the ratio of 90:10 will be used for one large management, design, and supervision consultancy package and large NGO package, both relating to construction of intake, WTP, and raw water transmission line.

Procurement

All procurement of goods and civil works will follow ADB's Procurement Guidelines (2013, as amended from time to time). National competitive bidding will follow the government's Public Procurement Act, 2006 and Public Procurement Rules, 2008, with modifications and/or clarifications agreed between the government and ADB, as set out in the procurement plan. Since Asian Development Fund resources and cofinancing resources will be used to jointly finance an individual procurement package, universal procurement will apply to the jointly financed package only. ADB member country procurement eligibility restrictions will apply to other procurement packages financed solely by ADB.

Responsible ADB Officer	Norio Saito
Responsible ADB Department	South Asia Department
Responsible ADB Division	Urban Development and Water Division, SARD
Executing Agencies	Dhaka Water Supply and Sewerage AuthoritySegun Bagicha Dhaka Bangladesh

Timetable	
Concept Clearance	21 Feb 2012
Fact Finding	19 Jun 2013 to 01 Jul 2013
MRM	06 Aug 2013
Approval	22 Oct 2013
Last Review Mission	-
Last PDS Update	24 Mar 2015

Loan

	Financing Plan		Loan Utilization		
	Total (Amount in US\$ million)	Date	ADB	Others	Net Percentage
Project Cost	136.00	Cumulative Contract Awards			
ADB	0.00	-	0.00	0.00	%
Counterpart	0.00	Cumulative Disbursements			
Cofinancing	136.00	-	0.00	0.00	%

Loan 3051-BAN

Milestones					
Approval	Signing Date	Effectivity Date		Closing	
Арргочаг	Signing Date	Ellectivity Date	Original	Revised	Actual
22 Oct 2013	24 Apr 2014	23 Feb 2015	30 Jun 2020	-	-

Financing Plan			Loan l	Utilizatio	n
	Total (Amount in US\$ million)	Date	ADB	Others	Net Percentage
Project Cost	474.90	Cumulative Contract Awards			
ADB	250.00	22 Oct 2013	33.93	0.00	15%
Counterpart	224.90	Cumulative Disbursements			
Cofinancing	0.00	22 Oct 2013	4.85	0.00	2%

Loan 8292-BAN

Milestones						
Anneoval	Annual Single Bate Fffe at		Closing			
Approval	Signing Date	Effectivity Date	Original	Revised	Actual	
17 Oct 2013	29 Jan 2015	-	30 Nov 2020	-	-	

Financing Plan		Loan Utilization			
	Total (Amount in US\$ million)	Date	ADB	Others	Net Percentage
Project Cost	64.00	Cumulative Contract Awards			
ADB	0.00	17 Oct 2013	0.00	0.00	0%
Counterpart	0.00	Cumulative Disbursements			
Cofinancing	64.00	17 Oct 2013	0.00	0.00	0%

Project Page	http://www.adb.org/projects/42173-013/main	
Request for Information	http://www.adb.org/forms/request-information-form?subject=42173-013	
Date Generated	22 August 2015	

ADB provides the information contained in this project data sheet (PDS) solely as a resource for its users without any form of assurance. Whilst ADB tries to provide high quality content, the information are provided "as is" without warranty of any kind, either express or implied, including without limitation warranties of merchantability, fitness for a particular purpose, and non-infringement. ADB specifically does not make any warranties or representations as to the accuracy or completeness of any such information.