



Myanmar: Yangon City Water Resilience Project

Project Name	Yangon City Water Resilience Project	
Project Number	52176-001	
Country	Myanmar	
Project Status	Proposed	
Project Type / Modality of Assistance	Loan	
Source of Funding / Amount	Loan: Yangon City Water Resilience Project	
	concessional ordinary capital resources lending / Asian Development Fund	US\$ 180.00 million
Strategic Agendas	Environmentally sustainable growth Inclusive economic growth	
Drivers of Change	Governance and capacity development	
Sector / Subsector	Water and other urban infrastructure and services - Urban policy, institutional and capacity development - Urban water supply	
Gender Equity and Mainstreaming	No gender elements	
Description	<p>The project is aligned with the following impact: Yangon City's urban resilience and liveability enhanced. The project will have the following outcome: Yangon City's security of water supply reinforced. The project's output are (a) Bulk water transmission system constructed. The project will complement YCDC's strategic plan by increasing its supply of raw water from Ngamoeyeik reservoir to Nyaunghapin WTP by one-third from 613.5 MLD to 818 MLD. These interventions will secure and expand existing water services. As the majority of YCDC's customers depend on this supply, it is important to secure this source against system vulnerability and to build deeper operational resilience. The project will finance construction of new facilities to transfer about 818 MLD of water including (i) an intake structure at Ngamoeyeik reservoir; (ii) an on-line pumping station 900 meters downstream of the intake structure; and (iii) a 34 km pipeline of 2.4 m diameter from Ngamoeyeik reservoir to the WTP; and (b) Institutional sustainability strengthened. The project will strengthen institutional sustainability of YCDC to deepen reliability of its water services by supporting establishment of YCDC's subsidiary water authority, WRWSA. It will support YCDC capacity building in critical areas, such as water systems operational management and climate change responsiveness. The project will support YCDC to optimize its operating efficiency by expanding its metered water service, improving its collection efficiency, and improving customer service. Also, as YCDC is considering options for a new tariff strategy, the project will provide targeted support to assist in the enhancement of the self-financing capacity of YCDC.</p>	
Project Rationale and Linkage to Country/Regional Strategy	The project will address urgent water infrastructure needs associated with bulk water supply in Yangon City. It will support the government's strategies to make its cities more livable through the provision of better and more widespread urban water services. As the first of a series of phased interventions, the project will deliver a water-secure future for Yangon City.	
Impact	Yangon City's urban resilience and livability enhanced	
Outcome	Yangon City's security of water supply reinforced	
Outputs	Bulk water transmission system constructed Institutional sustainability strengthened	
Geographical Location	Yangon	
Safeguard Categories		
Environment		B
Involuntary Resettlement		A
Indigenous Peoples		C
Summary of Environmental and Social Aspects		
Environmental Aspects	<p>The project has been classified as category B, requiring an Initial Environmental Examination (IEE). The IEE report has been prepared in accordance with requirements of the ADB SPS (2009) and the Myanmar Environmental Impact Assessment Procedure (2015). The IEE report has been prepared in accordance with requirements of the ADB SPS (2009) and the Myanmar Environmental Impact Assessment Procedure (2015). The IEE concludes that the project will have positive economic, environmental, and health benefits through a secure water pipeline which will deliver bulk water from the reservoir to the WTP with low water loss and improved water quality. During construction, there will be localized temporary direct adverse impacts caused by tunnelling and pipe laying works. These and other impacts will be mitigated and monitored through measures defined in the environmental management plan (EMP). YCDC, supported by the PMC, will supervise the implementation on the EMP. An environmental quality monitoring program has been designed to monitor impacts of noise, air pollution, and to assess changes in water quality during construction. Assuming that mitigation measures and monitoring requirements in the EMP are effectively implemented, the project is not expected to have a significant adverse environmental impact. No significant adverse impact is anticipated during operation phase.</p>	
Involuntary Resettlement	<p>The project has been classified as category A. The project will not involve the acquisition of privately-owned lands, as the pipeline will be constructed using the existing right-of-way (ROW) held by MOC and YCDC. During project preparation, various encroachments were identified along the ROW, and these structures will be affected entirely and some of those will be affected partially. The total number of affected households is estimated to be 216 (with 918 affected persons) of which 142 are vulnerable affected households.</p>	
Indigenous Peoples	<p>The project has been classified as category C. The low number of people from ethnic groups in the project area is considered insignificant, and they are not indigenous to the area. It is found that Mon/Kayin/Shan each represent only 2% of the surveyed population, with Rakine representing less than 1% (2 people). These ethnic households have immigrated to the area from other regions of Myanmar. The ethnic group households are not vulnerable as such. All these households have basic infrastructure facilities. Nonetheless, these ethnic households are considered to be vulnerable and provision for additional assistance has been made in the RP. Any unforeseen impacts on them will be mitigated during the detailed design.</p>	

Stakeholder Communication, Participation, and Consultation

During Project Design

During Project Implementation

Responsible ADB Officer	Baird, Alan
Responsible ADB Department	Southeast Asia Department
Responsible ADB Division	Urban Development and Water Division, SERD
Executing Agencies	Yangon City Development Committee RCDC Building Corner of Maha Bandoola St. & Barr St. Yangon, Union of Myanmar Yangon Region Government Yangon Region Government Office, Yangon Parliament Compound, Gate No. 4, Ahlone Street, Dagon Township, Yangon

Timetable

Concept Clearance	28 Aug 2018
Fact Finding	07 Jan 2020 to 10 Jan 2020
MRM	30 Mar 2020
Approval	-
Last Review Mission	-
Last PDS Update	17 Mar 2020

Project Page	https://www.adb.org/projects/52176-001/main
Request for Information	http://www.adb.org/forms/request-information-form?subject=52176-001
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