Pakistan: Trimmu and Panjnad Barrages Improvement Project

Project Name	Trimmu and Panjnad Barrages Improvement Project	
Project Number	47235-001	
Country	Pakistan	
Project Status	Active	
Project Type / Modality of Assistance	Loan	
Source of Funding / Amount	Loan 3159-PAK: Trimmu and Panjnad Barrages Improvement Project	
	Ordinary capital resources	US\$ 50.00 million
	Loan 3160-PAK: Trimmu and Panjnad Barrages Improvement Project	
	concessional ordinary capital resources lending / Asian Development Fund	US\$ 100.00 million
Strategic Agendas	Environmentally sustainable growth Inclusive economic growth	
Drivers of Change	Governance and capacity development Knowledge solutions	
Sector / Subsector	Agriculture, natural resources and rural development - Irrigation - Rural flo	od protection
Gender Equity and Mainstreaming	Effective gender mainstreaming	
Description	1Trimmu and Panjnad Barrages Project (TPBP) will rehabilitate and upgrade the barrages on the Chenab River, which supply irrigation water to 1.74 million ha thr The project will (i) rehabilitate and upgrade the two barrages, and (ii) build institu flood risk management. Trimmu barrage is located downstream of the confluence Chenab rivers. Its flood passing capacity (FPC) is reduced from originally 18,265 c second (m3s-1) to 12,743 m3s-1. The project will enhance the FPC to 23,220 m3s located downstream of confluence point of Sutlej and Chenab rivers. The project w barrage's FPC originally, from 19,822 m3s-1 to 24,495 m3s-1.	ough six main canals. tional capacity in of Jhelum and ubic meters per -1. Panjnad barrage is
Project Rationale and Linkage to Country/Regional Strategy	Irrigated agriculture in Punjab (i) accounts for 28% of Punjab's gross domestic pro employs 54% of the labor force; (iii) produces 90% of Punjab's agricultural output; than 90% of the water resources. Punjab's agricultural GDP is 66% of the national Irrigated agriculture is crucial to generating higher incomes and attaining Punjab's growth rate (3% in 2011-2012). The Punjab Irrigation Department (PID) is respons maintenance (O&M), and management of the irrigation system that covers 8.4 mi PID's infrastructure has an estimated replacement value of \$20 billion. The irrigation infrastructure in Punjab has seriously deteriorated due to aging (mu old) and deferred maintenance. The estimated cost of the deferred maintenance of system is about \$2 billion; the estimated cost to upgrade the system to modern st billion. The barrages structural deterioration and increasing water leakage throug serious risks and unreliable irrigation service delivery to the tail ends of the canals adapted unreliable and inadequate canal water by developing private tubewells. I declining groundwater depth and saltwater intrusion in the downstream canal are degradation, low productivity and high production cost. The Country Partnership Strategy (2009-2013) prioritizes improving the irrigation agriculture sector evaluation (2006) for Pakistan emphasizes improving water reso The water sector roadmap identifies improving the infrastructure, institutions and production to drive sustainable agricultural growth. The Medium-Term Developme (2007-2012; extended to 2015) estimates an investment requirement of over \$10 irrigation sector and allocates PKR9.0 billion (\$95 million equivalent) for new irrigat is working with ADB, World Bank and Japan International Cooperation Agency (JIC/ improvement of irrigated agriculture.	and (iv) uses more agricultural GDP. stargeted 6%_7% ible for operation and llion hectares. The ch is nearly 100 years of the irrigation tandards is \$3.5 h the gates pose s. Farmers have ncreasing pumping, as are causing land infrastructure. ADB's pources and irrigation. agricultural ent Framework 0 million per year for ation projects. The PID

Project Outcome

Description of Outcome	Safe Trimmu and Panjnad barrages deliver reliable irrigation water supplies to their canals.
Progress Toward Outcome	
Implementation Progress	
Description of Project Outputs	 Rehabilitated and upgraded Trimmu barrage Rehabilitated and upgraded Panjnad barrage. Improved capacities of the communities and PID.
Status of Implementation Progress (Outputs, Activities, and Issues)	Consultancy contract for construction supervision awarded on 30 September 2015. Civil works contract for the rehabilitation and upgrading of Trimmu barrage awarded on 23 December 2015. PBER for ICB/02 submitted by PMO on 3 March 2016. Review of the PBER is ongoing.
Geographical Location	Punjab

Safeguard Categories

Environment	В
Involuntary Resettlement	А
Indigenous Peoples	С

Summary of Environmental and Social Aspects

Environmental Aspects	The environment impacts are site-specific, mostly reversible and mitigation measures can be designed more readily. However, due diligence during fact-finding mision will further confirm the categorization.
Involuntary Resettlement	A total of 75 households including 28 kiosks will be affected and 250 m of rural road will be relocated. However, due diligence during fact-finding mision will further confirm the categorization.
Indigenous Peoples	Indigenous Peoples are not identified in the project area; therefore, no impacts are expected.
Stakeholder Communicat	ion, Participation, and Consultation
During Project Design	The main stakeholders are project displaced persons, local community, Punjab irrigation department and other concerned departments, and local NGOs. The stakeholders were consulted at design stage during preparation of feasibility study.
During Project Implementation	Stakeholders will be participated through i) community consultations; ii) project awareness campaigns; iii) grievance redress committees; iv) project displaced person committee; and v) engage locals in the project related jobs, preference will be given to the displaced persons particularly the vulnerable people.

Business Opportunities

Consulting Services	Advance contracting is requested and retroactive financing up to \$1.5 million is considered.
Procurement	Advance contracting is requested and retroactive financing up to \$6.0 million is considered.

Responsible Staff

Responsible ADB Officer	Sato, Noriko
Responsible ADB Department	Central and West Asia Department
Responsible ADB Division	Environment, Natural Resources & Agriculture Division, CWRD
Executing Agencies	Punjab Irrigation Department c/o Superintending Engineer Link Canal Circle, Canal Bank Mughalpur, Lahore, Pakistan

Timetable

Concept Clearance	25 Nov 2013
Fact Finding	02 Dec 2013 to 02 Dec 2013
MRM	18 Jun 2014

Approval	22 Sep 2014
Last Review Mission	-
Last PDS Update	30 Mar 2017

Loan 3159-PAK

Milestones							
Approval	Approval Cigning Data Effectivity Data			Closing			
Approval	Signing Date	Effectivity Date	Original	Revised	Actual		
22 Sep 2014	05 Dec 2014	21 Jan 2015	31 Mar 2021	-	-		

Financing Plan		Loan Utilization			
	Total (Amount in US\$ million)	Date	ADB	Others	Net Percentage
Project Cost	73.00	Cumulative Contract Awards			
ADB	50.00	22 Sep 2014	45.79	0.00	92%
Counterpart	23.00	Cumulative Disbursements			
Cofinancing	0.00	22 Sep 2014	12.03	0.00	24%

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Milestones							
Approval	Signing Data	Effectivity Date	Closing				
Approval	Signing Date	Effectivity Date	Original	Revised	Actual		
22 Sep 2014	05 Dec 2014	21 Jan 2015	31 Mar 2021	-	-		

Financing Plan		Loan Utilization			'n
Total (Amount in US\$ million)		Date	ADB	Others	Net Percentage
Project Cost	100.00	Cumulative Contract Awards			
ADB	100.00	22 Sep 2014	41.18	0.00	46%
Counterpart	0.00	Cumulative Disbursements			
Cofinancing	0.00	22 Sep 2014	13.06	0.00	14%

Project Page	https://www.adb.org/projects/47235-001/main
Request for Information	http://www.adb.org/forms/request-information-form?subject=47235-001
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