



Pakistan: Barani Integrated Water Resources Sector Project (formerly Community Storage and Irrigated Agriculture Development Sector Project)

Project Name	Barani Integrated Water Resources Sector Project (formerly Community Storage and Irrigated Agriculture Development Sector Project)
Project Number	39364-013
Country / Economy	Pakistan
Project Status	Closed
Project Type / Modality of Assistance	Loan
Source of Funding / Amount	<div><div>Loan 2411-PAK: Barani Integrated Water Resources Sector Project (formerly Community Storage and Irrigated Agriculture Development Sector Project)</div><div>Ordinary capital resourcesUS\$ 55.00 million</div><div>Loan 2412-PAK: Barani Integrated Water Resources Sector Project (formerly Community Storage and Irrigated Agriculture Development Sector Project)</div><div>Asian Development FundUS\$ 20.00 million</div></div>
Strategic Agendas	Environmentally sustainable growth Inclusive economic growth
Drivers of Change	Gender Equity and Mainstreaming
Sector / Subsector	Agriculture, natural resources and rural development / Agricultural policy, institutional and capacity development - Irrigation - Rural water supply services
Gender	Gender equity
Description	The expected impact of the proposed project is improve household income and health in the districts of Attock, Rawalpindi, Jehlum and Chakwal in the barani areas of Punjab province. These four districts were selected due to their high percentage of rainfed agriculture compared to other districts in the barani areas and their high potential for water storage development. The project's outcome is to increase crops and livestock productivity and households' access to domestic water supply. This will be obtained from the conversion of 11,500 hectares (ha) of rainfed agricultural land into irrigated land and the improvement of irrigation on 10,000 ha in existing systems. Two representatives' subprojects ("core subprojects") were selected to assess the Project's feasibility with regards to technical, social, financial and economic aspects as well as to social and environmental safeguards. The selection of core subprojects was based on size of investment, type of proposed dam, representative geographic and social conditions, severity of environmental and resettlement impacts.
Project Rationale and Linkage to Country/Regional Strategy	As of today, less than 10% of total crop output is produced from the Barani cultivated land of Punjab and North West Frontier provinces. This low productivity that affects 18.6% and 49% of the Punjab and NWFP total cultivated area respectively is further constraining an already low national agricultural growth and is forcing Barani residents to migrate or live in poverty. Yet significant gains in agriculture and livestock productivity and related economic growth can be obtained through water resources development for which little investment support has been made available to date. With suitable topography and rainfall, the best potential option appears to be the development of water storage through the construction of small to medium dams. Previous experiences show however that small to medium dam development in Barani areas needs to be developed through an integrated approach to ensure the full development of the potential economic benefits. As such, the provision of the infrastructure will need to be demand driven and accompanied with the development of community managed irrigation schemes, on farm water management support, irrigated agriculture and market linkages development support, watershed conservation to prevent fast sedimentation and targeted support to ensure the full development of stored water uses for drinking and other purposes.
Impact	Improved household income and health in the districts of Attock, Rawalpindi, Jehlum, and Chakwal in the barani aeras of Punjab province.

Project Outcome	
Description of Outcome	To increase crops and livestock productivity and households' access to domestic water supply by converting 11,500 hectares of rain-fed agricultural land into irrigated land and improving irrigation on 10,000 hectares in existing system.
Progress Toward Outcome	
Implementation Progress	
Description of Project Outputs	1. Increased sustainable water storage capacity 2. Sustainable and profitable command areas and domestic water supply developed 3. Enhanced dam planning, management, and implementation capacity
Status of Implementation Progress (Outputs, Activities, and Issues)	
Geographical Location	
Safeguard Categories	
Environment	A
Involuntary Resettlement	A
Indigenous Peoples	C
Summary of Environmental and Social Aspects	

Environmental Aspects
Involuntary Resettlement
Indigenous Peoples
Stakeholder Communication, Participation, and Consultation
During Project Design
During Project Implementation

Business Opportunities	
Consulting Services	<p>The project will provide 605 person-months (p/m) of national consultants and 52 p/m of international consultants through both consulting firms and individual consultants. All consulting services will be recruited in accordance with ADB's Guidelines on the Use of Consultants by Asian Development Bank and Its Borrowers (2007, as amended from time to time).</p> <p>The project will provide 569 p/m of national project implementation consultants (8 long term consultants) for the PMU. This includes the Project Director, the head of M&E, the Water Supply and Sanitation coordinator, the livestock advisor and 4 technical managers for on-farm water management, farming system, watershed conservation, finance and 5 p/m of unallocated national consultants. They will be recruited as individual consultants.</p> <p>The project will also provide technical advisory services comprising 52 p/m of international consultants and 36 p/m of national consultants. This includes the panel of experts which comprise senior international experts in dam design and construction, engineering geology, and hydrology and also a pool of local and international specialists on economic analysis, water management, irrigation operation, environment assessments, resettlement, 5 p/m of unallocated international technical assistance. For these advisory services, a firm will be recruited through the quality- and cost-based selection (QCBS) using a full technical proposal method.</p> <p>Social mobilization expertise and services (estimated at 72 p/m of social mobilizer manager and 864 p/m of field social mobilizers) to the project will be provided from a qualified local NGO to be recruited through the QCBS method using full technical proposal.</p> <p>The training and mentoring services on participatory extension services (Farmers Field School) will be provided to the project by Commonwealth Assistance Bureau International (CABI) using single source selection.</p> <p>There will also be consulting services required to produce (i) improved dam operation procedures; (ii) dam safety and sediment monitoring unit establishment; and (iii) the sub-project feasibility studies, the Environment Impact Assessment (EIA) studies, detail designs and the construction supervision. The TORs for the feasibility studies, detail design and construction supervision will be developed by SDO with support from individual consultant recruited through advance contracting and TORs for other service will be developed by the PMU once the project has started. For these services, consulting firms will be recruited through the QCBS method. The feasibility study, the EIA, the detailed designs and the work supervision will be packaged under one single contract per sub-project to accelerate the project implementation. Similarly, if the selected firms perform on their first contract, their services will be extended to the next subproject through contract extension process as long as the firm performs.</p>
Procurement	<p>Equipment, materials, goods, and services for ADB-financed contracts will be procured following ADB's Procurement Guidelines (2007, as amended from time to time). Civil works contracts will be split between (i) dam and associated construction works, and (ii) command area development level works. For each subproject, the procurement of civil works worth \$10 million or less should be awarded to suitable pre-qualified contractors following the National Competitive Bidding (NCB) procedures acceptable to ADB as national contracting capacity exists to successfully undertake these works. Civil works contracts costing more than \$10 million will be awarded under International Competitive Bidding (ICB) from suitable pre-qualified contractors. All works contracts related to the first output will be handled by the Small Dams Organisation on behalf of the PMU. ADB will review at least the first 3 NCB contracts awarded. The procurement of equipment and materials worth less than \$100,000 will be done through the shopping mode.</p>

Responsible ADB Officer	Tambunan, Binsar P.
Responsible ADB Department	Central and West Asia Department
Responsible ADB Division	Energy Division, CWRD
Executing Agencies	Irrigation Department of the Government of Punjab Mr. Muhammad Ubaid Ullah Rundhawa Rawal Dam Colony, Islamabad

Timetable	
Concept Clearance	10 May 2007
Fact Finding	01 Jul 2007 to 08 Jul 2007
MRM	23 Aug 2007
Approval	03 Mar 2008
Last Review Mission	-
PDS Creation Date	24 Feb 2006
Last PDS Update	30 Jan 2009

Loan 2411-PAK

Milestones					
Approval	Signing Date	Effectivity Date	Closing		
			Original	Revised	Actual
03 Mar 2008	-	-	31 Dec 2014	-	03 Mar 2009

Financing Plan			Loan Utilization			
	Total (Amount in US\$ million)		Date	ADB	Others	Net Percentage
Project Cost	84.50		Cumulative Contract Awards			
ADB	55.00		17 Jun 2022	0.00	0.00	0%
Counterpart	29.50		Cumulative Disbursements			
Cofinancing	0.00		17 Jun 2022	0.00	0.00	0%

Loan 2412-PAK

Milestones					
Approval	Signing Date	Effectivity Date	Closing		
			Original	Revised	Actual
03 Mar 2008	-	-	31 Dec 2014	-	03 Mar 2009

Financing Plan			Loan Utilization			
	Total (Amount in US\$ million)		Date	ADB	Others	Net Percentage
Project Cost	20.00		Cumulative Contract Awards			
ADB	20.00		17 Jun 2022	0.00	0.00	0%
Counterpart	0.00		Cumulative Disbursements			
Cofinancing	0.00		17 Jun 2022	0.00	0.00	0%

Project Page	https://www.adb.org/projects/39364-013/main
Request for Information	http://www.adb.org/forms/request-information-form?subject=39364-013
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