



India: Madhya Pradesh Irrigation Efficiency Investment Program

Project Name	Madhya Pradesh Irrigation Efficiency Investment Program		
Project Number	45371-001		
Country / Economy	India		
Project Status	Closed		
Project Type / Modality of Assistance	Technical Assistance		
Source of Funding / Amount	TA 9051-IND: Madhya Pradesh Irrigation Efficiency Investment Program		
	Technical Assistance Special Fund	US\$ 1.00 million	
Strategic Agendas	Environmentally sustainable growth Inclusive economic growth		
Drivers of Change	Gender Equity and Mainstreaming Governance and capacity development		
Sector / Subsector	Agriculture, natural resources and rural development / Agricultural production - Irrigation Energy / Renewable energy generation - solar		
Gender	Some gender elements		
Description	The Madhya Pradesh Irrigation Efficiency Investment Program will achieve high irrigation efficiency and water productivity in two large irrigation schemes in Madhya Pradesh, India. The investment program will develop 125,000 hectares (ha) of new, highly efficient irrigation networks and productive command area under the Kundaliya Irrigation Project (KIP) in Rajgargh and Shejahpur districts. It will also modernize and expand the existing Sanjay Sarovar Irrigation Project (SSIP) in Seoni and Balaghat districts. Water savings will allow irrigation expansion for increased food security or reallocation to other sectors.		
Project Rationale and Linkage to Country/Regional Strategy	Water plays a critical role in India's food security and welfare of the rural poor as 84% of all water withdrawals are dedicated to agriculture and 42% of all agriculture land is irrigated. India benefits from only 4% of the world's renewable fresh water but has 16% of the world's population. With intense urbanization and industrialization, the need for water from the non-agriculture sector is fast increasing and water shortage is becoming an area of major concern for industries. At the same time, population growth and change in dietary habits requires agriculture production to continue to grow. By 2050, annual water availability per capita is expected to drop from 1,530 cubic meters (m3) to 1,140 m3, indicating severe water stress. The current irrigation water use efficiency of 38% points towards the need for serious performance improvement in this sector. The productivity of irrigation water is further hampered by low crop yields and cultivation of low value crops. Therefore, most of India's utilized water not only supports activities with low economic value but it is also inefficiently used. In the meantime, water shortages are constraining power production and the development of high value industries that are required to fuel the country's economic growth. About 29% of India's power is generated from hydropower and 65% from thermal power, which requires plentiful water. These problems will worsen in the future with the projected impacts of population growth, economic growth, and climate change. The Government of India is well aware of the situation. Both the National Water Mission and the Twelfth Five-Year Plan have acknowledged the necessity to improve water use efficiency in irrigation and have set a target to improve current level by 20% by 2018. In 2014, ADB funded the Scoping Study for a National Water Use Efficiency Improvement Program. The study identified the following three main causes for low water use efficiency: (i) inadequate irrigation and drainage infrastructure due to faulty designs and lack of maintenance; (ii) inadequate management, operation and maintenance of the irrigation systems; and (iii) inadequate capacity building and training services. The study highlights the need to modernize the design and management of major and medium irrigation (MMI) schemes to reduce system inefficiencies and substantially improve water delivery services to farmers. It proposed a framework for assessing and improving water use efficiency on MMI. Under a subsequent regional technical assistance, the framework was pilot tested on a number of MMI within South Asia; it developed a comprehensive modernization strategy for existing irrigation systems and recommended a tailored investment plan for SSIP.		
Impact			
Project Outcome			
Description of Outcome			
Progress Toward Outcome			
Implementation Progress			
Description of Project Outputs			
Status of Implementation Progress (Outputs, Activities, and Issues)			
Geographical Location		Madhya Pradesh	
Summary of Environmental and Social Aspects			
Environmental Aspects			
Involuntary Resettlement			
Indigenous Peoples			
Stakeholder Communication, Participation, and Consultation			
During Project Design	Consultation with MPWRD and Farmers		
During Project Implementation	Consultations with MPWRD, private sector and Farmers has allowed better understanding of technical and social requirements and expectation, scheme preliminary design, system management and sustainability arrangements for the KIP. The project will package farmers support services into Design Build Operate Contract with 10 years maximum operation and maintenance period.		

Business Opportunities	
Consulting Services	A total of 54 person-months of consulting services will be provided, of which 25 person-months will be individually recruited international consultants and 29 person-months of national consultants will be recruited through a firm.
Procurement	Not applicable
Responsible ADB Officer	Cauchois, Arnaud M.
Responsible ADB Department	South Asia Department
Responsible ADB Division	Environment, Natural Resources & Agriculture Division, SARD
Executing Agencies	Water Resources Department Madhya Pradesh Water Resources Department Namada Bhawan, Tulsi Nagar Bhopal (M.P.) - 462003
Timetable	
Concept Clearance	-
Fact Finding	-
MRM	-
Approval	15 Dec 2015
Last Review Mission	-
Last PDS Update	27 Mar 2018

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Milestones					
Approval	Signing Date	Effectivity Date	Closing		
			Original	Revised	Actual
15 Dec 2015	08 Feb 2016	08 Feb 2016	31 Dec 2017	30 Jun 2019	24 Sep 2019

Financing Plan/TA Utilization							Cumulative Disbursements	
ADB	Cofinancing	Counterpart				Total	Date	Amount
		Gov	Beneficiaries	Project Sponsor	Others			
1,000,000.00	0.00	0.00	0.00	0.00	0.00	1,000,000.00	17 Jun 2022	928,444.84

Project Page	https://www.adb.org/projects/45371-001/main
Request for Information	http://www.adb.org/forms/request-information-form?subject=45371-001
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