



Draft Design and Monitoring Framework

Project Number: 40086

October 2008

Proposed Loan

**Republic of Uzbekistan: Water Resources
Management Sector Project**

A design and monitoring framework is an active document, progressively updated and revised as necessary, particularly following any changes in project design and implementation. In accordance with ADB's public communications policy (2005), it is disclosed before appraisal of the project or program. This draft framework may change during processing of the project or program, and the revised version will be disclosed as an appendix to the report and recommendation of the President.

Asian Development Bank

DESIGN AND MONITORING FRAMEWORK

Design Summary	Performance Targets/Indicators	Data Sources/Reporting Mechanisms	Assumptions and Risks
<p>Impact</p> <p>Sustained and increased agriculture production and productivity</p>	<p>Cropping intensity increases by 5% from present levels</p> <p>Crop yields increase by 5% from present levels</p>	<p>Provincial and district statistics.</p> <p>Project performance monitoring and reports by PMO.</p> <p>ADB review missions</p>	<p>Assumptions</p> <p>Improvements in infrastructure and water management continue beyond the project life of the</p> <p>Risk</p> <p>No adverse policy changes in relation to quotas, prices and marketing</p> <p>Commodity price shocks</p>
<p>Outcome</p> <p>Irrigation systems fully functional and operated in an efficient manner</p>	<p>Area irrigated in the subprojects does not fall below the average of the last 3 years</p> <p>Water conveyance losses reduced by 10%</p> <p>20% improvement in energy efficiency</p>	<p>Provincial and district statistics.</p> <p>Project performance monitoring and reports by PMO</p> <p>ADB review missions</p>	<p>Assumptions</p> <p>Rehabilitated infrastructure maintained to operate at capacity</p> <p>Improvements in water management can be expanded beyond the project sites</p>
<p>Outputs</p> <p>1. Rehabilitation and Upgrading of Irrigation and Drainage Infrastructure</p> <p>1.1 Rehabilitation and upgrading of pump stations</p> <p>1.2 Rehabilitation and upgrading of inter-farm canals and structures (drainage and irrigation)</p>	<p>6-8 pump stations rehabilitated^a</p> <p>55,000 hectares of land improved through irrigation and drainage rehabilitation</p> <p>150 km of inter-farm canals rehabilitated^b</p> <p>320 control and measurement structures installed.</p>	<p>Project performance monitoring and reports by PMO</p> <p>Project performance monitoring and reports by PMO</p> <p>Annual reports of the State Hydro Geological Monitoring Expedition</p>	<p>Assumptions</p> <p>Work completed and sufficient funds available to maintain rehabilitated pumps</p> <p>Risks</p> <p>Delays in the disbursement of the Amelioration Fund for drainage rehabilitation works.</p>

Design Summary	Performance Targets/Indicators	Data Sources/Reporting Mechanisms	Assumptions and Risks
Activities with Milestones		Inputs	
<p>1. Rehabilitation and Upgrading of Irrigation Infrastructure^c</p> <p>1.1. Prepare feasibility study reports for each selected non-core subproject (by Quarter 3 Year 2)</p> <p>1.2. Prepare detailed engineering designs for each selected subproject (by Quarter 2 Year 3)</p> <p>1.3. Prepare environmental assessments for each selected subproject according to the environment assessment and review procedures (by Quarter 3 Year 2)</p> <p>1.4 Prepare resettlement plans (if the ADB resettlement policy is triggered)</p> <p>1.5 Prepare bidding documents and contracts (by Year 3)</p> <p>1.6 Supervision construction of subproject (by Quarter 3 Year 5)</p> <p>1.7 Operate and maintain works and equipment of the subproject (throughout project implementation)</p> <p>1.8 Evaluate impact of the subproject (Year 3, Year 6)</p>		<ul style="list-style-type: none"> • ADB OCR \$85 million • ADB ADF \$15 million • Government \$25 million 	
2. Improved Water Resources Management			
2.1. Improved inter-farm water management			
<p>2.1.1 Assess institutions and agencies for water resources, inter-farm irrigation and drainage management in Fergana Valley (by Quarter 2 Year 2)</p> <p>2.1.2 Assess management procedures for water resources, inter-farm irrigation and drainage management in Fergana Valley (by Quarter 3 Year 2)</p> <p>2.1.3 Develop options and plan for improved institutional framework and management procedures for water resources, inter-farm irrigation and drainage management in Fergana Valley (from Quarter 2 Year 2 to Quarter 2 Year 3)</p> <p>2.1.4 Develop and implement a capacity building program for water resources, inter-farm irrigation and drainage management in Fergana Valley (from Quarter 2 Year 3 to Quarter 2 Year 5)</p>			
2.2. Improved on-farm water management			
<p>2.2.1 Mobilize and conduct training of WUAs within subprojects (from Year 1 to Year 4)</p> <p>2.2.2 Improved measurement capability in all on-farm systems of subprojects (by Year 4)</p> <p>2.2.3 Develop O&M and water management plans for integrated and coordinated operation of inter-farm and on-farm infrastructure for each subproject (from Year 2 to Year 6)</p>			
3. Effective Project Management			
<p>3.1. Establish project management office in Tashkent and 2 project implementation units (one in Zarafshan and one in Fergana) (by first quarter Year 1)</p> <p>3.2 Contract implementation consulting package support (by mid Year 1)</p> <p>3.3 Develop a results based monitoring (RBM) system (by mid Year 1)</p> <p>3.4 Implement Gender Action Plan (year 1 to 5)</p> <p>3.5 Oversee and Monitor Safeguards Activities (from Year 1 to Year 5)</p> <p>3.6 Strengthen project management capacity (technical, financial, implementation) for annual work planning and the successful implementation and monitoring and evaluation according to RBM principles (continuous)</p>			

^a As this is a sector project, the exact number of physical infrastructure investments is not known. The quantities referred to in this DMF are indicative numbers based on the core subproject.

^b See footnote a.

^c Will be on a rolling basis according to the phasing of subproject selection, preparation and implementation.

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