China, People's Republic of: Hunan Dongjiang Lake Environmental Protection and Integrated Utilization Project

**Project Name**: Hunan Dongjiang Lake Environmental Protection and Integrated Utilization Project

**Project Number**: 47070-001

**Country**: People's Republic of China

**Project Status**: Closed

**Project Type / Modality of Assistance**: Technical Assistance

**Source of Funding / Amount**:
- TA 8638-PRC: Hunan Dongjiang Lake Environmental Protection and Integrated Utilization Project
  - Technical Assistance Special Fund: US$ 600,000.00
  - Multi-Donor Trust Fund under the Water Financing Partnership Facility: US$ 200,000.00

**Strategic Agendas**:
- Inclusive economic growth

**Drivers of Change**:
- Governance and capacity development
- Knowledge solutions

**Sector / Subsector**:
- Agriculture, natural resources and rural development - Water-based natural resources management

**Gender Equity and Mainstreaming**:
- Some gender elements

**Description**:
The expected impact of the project will be enhanced quality of life and sustainable economic development of Xiang River basin in Hunan Province. The outcome of the project will be improved quality of water resource and environment of Dongjiang Lake. The project will include four outputs: (i) improved pollution control, (ii) established urban rural water supply system, (iii) integrated ecosystem rehabilitation and management, and (iv) strengthened environmental and project management capacity. The project design will assess and incorporate lessons from previous projects and policy-oriented studies on integrated water resources management and environment improvement in the PRC. Major lessons include (i) an integrated approach of structural and nonstructural measures to water resources management; (ii) wide community participation and increased public awareness for environmental improvement; (iii) linking environmental protection with livelihood; and (iv) eco-compensation for maintaining environmental services. The project is expected to scale up and/or demonstrate the following good practices in the PRC: (i) an integrated approach to water resources management by structural and nonstructural measures, (ii) environmental protection linked with livelihood; and (iii) eco-compensation. The project is considered complex as safeguard categorizations for both environment and involuntary resettlement are category A. The Zixing city government (ZCG) will be the executing agency responsible for overall project planning and management. A project management office has also been formed to be responsible for daily preparation and implementation of the project. The implementing agencies may include relevant ZCG bureaus.

**Project Rationale and Linkage to Country/Regional Strategy**:
The proposed project will be implemented in the Dongjiang Lake basin in Zixing City, Chenzhou Municipality, Hunan Province of the People's Republic of China (PRC). The project will introduce an integrated approach to address the current constraints in lake conservation and environmental protection by structural and nonstructural measures. Dongjiang Lake basin has a catchment area of about 4,719 square kilometers. The population of Dongjiang Lake basin is about 604,100, of which the rural population is about 460,500. Dongjiang Lake is a reservoir formed after the construction of Dongjiang Dam in 1986 on the Leishui River, a tributary of Xiang River. Dongjiang Dam is a multipurpose dam for hydropower, flood control, water supply, and irrigation. It has a surface area of 160 square kilometers and a total storage capacity of about 8.12 billion cubic meters. Dongjiang Lake basin has among the highest levels of biodiversity in Hunan Province an integrated approach to address the current constraints in lake conservation and environmental protection by structural and nonstructural measures. Dongjiang Lake protection is the government's priority. It has been selected as one of the five river basins for nationwide pilot-testing of the government's eco-compensation policy framework to which the Asian Development Bank (ADB) has provided continuous support in recent years. Dongjiang Lake is a strategic resource for the entire Hunan Province. In addition to providing water to Chenzhou and Zixing cities, Dongjiang Lake has been designated as a secondary water source for the province's major cities of Changsha, Hengyang, Xiangtan, and Zhuzhou to improve the water security of 13 million populations in these cities in Xiang River basin. The large storage capacity greatly improves flood and drought management for downstream cities and residents. It also helps dilute water pollution in the downstream of Xiang River by releasing water from regular reservoir operations. It is, therefore, the government's priority to protect the water resources of Dongjiang Lake from pollution and to maintain healthy environmental services for social and economic development of the Xiang River basin. Current lake water quality meets the national standards for drinking water source. However, the water quality is at risk due to contamination from untreated wastewater, soil erosion and sedimentation, and eutrophication from nonpoint source pollution such as farming and livestock. The governments have been increasing their investments in lake protection. Protection zones have been established in the Dongjiang Lake basin in accordance with the provincial-approved Dongjiang Lake Basin Water Environmental Protection Regulation. The Dongjiang Lake Basin Water Environmental Protection Plan was developed in 2007 and is currently under revision. External assistance is required to help implement the plan. Opportunities for introducing eco-compensation, formulating wastewater tariff, and improving the lake management regulation and framework will be analyzed and incorporated in the project design. Opportunities for private sector participation in water supply and wastewater treatment will also be explored during project preparation. The project is consistent with the government's goal of building a harmonious and prosperous society through livelihood improvements and regionally balanced and environmentally sustainable growth. It follows new national urbanization plan (2014) with emphasis on rural and urban integration. The project is in line with ADB's country partnership strategy, 2011 2015 for the PRC which focuses on the three pillars of inclusive growth, environmentally sustainable growth, and regional cooperation and integration. It conforms to ADB's Water Operational Plan 2011 2020 to increase coverage and improved services for water supply and sanitation, and to promote integrated water resources management.

**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

---

### Summary of Environmental and Social Aspects

Environmental Aspects

Involuntary Resettlement

Indigenous Peoples

Stakeholder Communication, Participation, and Consultation

**During Project Design**

The main stakeholders of the project are the provincial and local governments, design institutes, and rural households, including rural households in reservoir protection zone. The project will develop ways to engage (i) with farmers and stakeholders to improve environmental and ecological farming in the reservoir protection area, and (ii) with households to assess their needs for and provide them with nonfarm capacities and skills to cope with rapidly changing and urbanizing social and economic environments.

**During Project Implementation**

Stakeholder communication, participation, and consultation will continue during project implementation.

### Business Opportunities

**Consulting Services**

It is expected that 15 person-months (pm) of international and 47 pm of national consultants are required. The consultants will support the executing and implementing agencies in completing the project feasibility studies and safeguard documents to a standard consistent with the requirements of ADB and the government. All consulting services will be engaged in accordance with ADB’s Guidelines on the Use of Consultants (2013, as amended from time to time). The consulting service contract was concluded in July 2014 and consultants were fielded in early August 2014.

**Procurement**

All ADB-financed procurement for the project will be conducted in accordance with ADB’s Procurement Guidelines (2013, as amended from time to time).

### Responsible ADB Officer

Zhou Yaozhou

### Responsible ADB Department

East Asia Department

### Responsible ADB Division

Environment, Natural Resources & Agriculture Division, EARD

### Executing Agencies

Zixing City Government

No. 219 Jinming Road, Zixing City, Chenzhou Municipality, Hunan Province 423400 PRC

### Timetable

<table>
<thead>
<tr>
<th>Milestones</th>
<th>Approval</th>
<th>Signing Date</th>
<th>Effectivity Date</th>
<th>Closing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>04 Apr 2014</td>
<td>07 May 2014</td>
<td>07 May 2014</td>
<td>31 Dec 2015</td>
</tr>
</tbody>
</table>

### Financing Plan/TA Utilization

<table>
<thead>
<tr>
<th>ADB</th>
<th>Cofinancing</th>
<th>Counterpart</th>
<th>Total</th>
<th>Cumulative Disbursements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gov</td>
<td>600,000.00</td>
<td>200,000.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>Beneficiaries</td>
<td>200,000.00</td>
<td>Project Sponsor</td>
<td>0.00</td>
<td>Others</td>
</tr>
</tbody>
</table>

---

**TA 8638-PRC**

**Project Page**

https://www.adb.org/projects/47070-001/main

**Request for Information**

http://www.adb.org/forms/request-information-form?subject=47070-001

**Date Generated**

22 January 2020

---

**ADB**

provides the information contained in this project data sheet (PDS) solely as a resource for its users without any form of assurance. Whilst ADB tries to provide high quality content, the information are provided "as is" without warranty of any kind, either
express or implied, including without limitation warranties of merchantability, fitness for a particular purpose, and non-infringement. ADB specifically does not make any warranties or representations as to the accuracy or completeness of any such information.