**Project Name**: Jiangxi Xinyu Kongmu River Watershed Flood Control and Environmental Improvement Project

**Project Number**: 48055-002

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

**Project Status**: Active

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

### Source of Funding / Amount

<table>
<thead>
<tr>
<th>Source of Funding / Amount</th>
<th>Loan 3485-PRC: Jiangxi Xinyu Kongmu River Watershed Flood Control and Environmental Improvement Project</th>
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</thead>
<tbody>
<tr>
<td>Ordinary capital resources</td>
<td>US$ 150.00 million</td>
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</table>

### 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
- Urban flood protection
- Rural flood protection
- Water-based natural resources management
- Water and other urban infrastructure and services
- Urban sanitation
- Urban solid waste management

### Gender Equity and Mainstreaming

- Effective gender mainstreaming

### Description

The project will demonstrate harmonization of development and flood and environmental management in the river basin that is a manageable size for project level intervention, using an integrated river basin model. One demonstration will be an introduction of innovative storm water management systems. Urban development increases storm water runoff by cutting trees and covering grounds with concrete or asphalt. Innovative storm water management systems reduce peak storm water runoff by promoting storm water infiltration into soil and increasing storm water retention. The demonstration and the river basin model can be replicated in other many similar-sized river basins. Potential climate change impact assessment and sensitivity analysis of flood control structures' capacities will be conducted based on climate change modeling. The use of sensitivity analysis to examine potential climate change impacts and risks of flood control structures can be also replicated to other projects. The project will help XCG review Xinyu City Master Plan for 2008–2030 and revisit city's infrastructure planning, which will be another ADB's value addition.

The project is consistent with (i) a decision of the Third Plenary Session of the 18th Central Committee of the Communist Party of China held in Beijing in November 2013, which supports construction of eco-civilization and establishment of a system to protect ecological environment; (ii) ADB's recommendations for preparation of the Thirteenth Five-Year Plan of the People’s Republic of China (PRC), 2016–2020, which supports or seems to support improvement of water security; (iii) ADB's strategy 2020 and the midterm review of the strategy that prioritize natural resource management; , and (iv) ADB's Water Operational Plan, 2011–2020 which prioritizes integrated water resources management and efficiency and productivity in the delivery of water services.

ADB has been supporting projects on flood, waterlogging, and environmental management in the PRC and other countries. Lessons learned from those projects, such as international best practices for flood and waterlogging management, and nonstructural measures for flood and environmental management will be reflected in the project design.

### Project Rationale and Linkage to Country/Regional Strategy

Xinyu City is located in Jiangxi Province, 135 kilometer (km) southwest of Nanchang Municipality, the provincial capital. The total area of Xinyu is 3,178 square kilometers (km²), and the total population is 1.16 million. Xinyu is a new industrial city with fast urbanization. Kongmu River is a 49.5 km river which flows in Xinyu including the main city center into Yuanhe River. Yuanhe River is a tributary of Ganjiang River which flows into Yangtze River through Poyang Lake. All Kongmu River watersheds of 597 km² are in Xinyu. Kongmu River is a source of water supply for Xinyu. The river includes a wetland park which is a major recreational asset.

Various locations along Kongmu River experience floods every year due to low flood control capacity of Kongmu River and low flood retention capacity in the upper watershed. Temperatures and precipitation in Xinyu are increasing due to climate change and flood events appear to be occurring more frequently. Ongoing development in the upper watershed will increase storm water runoff and cause waterlogging in the area if storm water management is not conducted, and will increase frequency and severity of floods along Kongmu River.

Water quality in Kongmu River is class III. However, wastewater and solid waste increased by population growth accompanied by the ongoing development in the upper watershed will result in water quality deterioration in the developed area and Kongmu River, if wastewater and solid waste management is not conducted. In addition, basic amenities for increasing population such as a water supply facility are inadequate in the area.

The anticipated more frequent and severer flooding and waterlogging along Kongmu River, anticipated deterioration of water quality in the Kongmu River basin, and inadequate basic amenities for increasing population will deteriorate living and working environment and will adversely impact economic activities and life quality in Xinyu.

### Impact

Quality of the living environment in Xinyu City improved (Xinyu City Master Plan, 2008–2030)
Project Outcome

Description of Outcome
Flood and environmental management in the upper Kongmu River watershed improved

Progress Toward Outcome
The delay in project implementation was due to the delay in recruiting the design institute, which carries out a detailed engineering design. The project management office has now mobilized the design institute, as well as the project management consultants, and procurement agent.

The PMO, with the help of the design institute, project management consultants (fielded in March 2018), and procurement agent will finalize the preliminary designs and complete the detailed engineering designs of subprojects.

Implementation Progress

Description of Project Outputs
Integrated rural and urban flood management infrastructure constructed
Solid waste and wastewater management systems improved
Flood and environmental risk management capacity enhanced

Status of Implementation Progress (Outputs, Activities, and Issues)
Implementation ongoing
Implementation ongoing
Implementation ongoing
Implementation ongoing
Implementation ongoing
Implementation ongoing.
Implementation ongoing.
Implementation ongoing.
Implementation ongoing.
Implementation ongoing.

Geographical Location
Xinyu

Safeguard Categories

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<tbody>
<tr>
<td>Involuntary Resettlement</td>
<td>A</td>
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<tr>
<td>Indigenous Peoples</td>
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</table>

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
All ADB-financed consultants will be hired following ADB’s Guidelines on the Use of Consultants (2013, as amended from time to time).

Procurement
All ADB-financed procurement will be conducted following ADB’s Procurement Guidelines (2015, as amended from time to time).

Responsible ADB Officer
Osti, Rabindra P.

Responsible ADB Department
East Asia Department

Responsible ADB Division
Environment, Natural Resources & Agriculture Division, EARD

Executing Agencies
Xinyu City Government
124519972@QQ.COM
No. 1388, Yanjiang Road, Xinyu City
Jiangxi Province, PRC

Timetable

Concept Clearance
15 Jul 2015

Fact Finding
17 Aug 2016 to 22 Aug 2016

MRM
06 Oct 2016

Approval
06 Dec 2016

Last Review Mission
-

Last PDS Update
27 Sep 2019

Loan 3485-PRC

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<th>Effectivity Date</th>
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<td>02 Mar 2017</td>
<td>09 May 2017</td>
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Financing Plan
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