China, People's Republic of: Chongqing Longxi River Basin Integrated Flood and Environmental Risk Management Project

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<thead>
<tr>
<th>Project Name</th>
<th>Chongqing Longxi River Basin Integrated Flood and Environmental Risk Management Project</th>
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<tbody>
<tr>
<td>Project Number</td>
<td>51005-002</td>
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<tr>
<td>Country</td>
<td>China, People's Republic of</td>
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<tr>
<td>Project Status</td>
<td>Active</td>
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<tr>
<td>Project Type / Modality of Assistance</td>
<td>Loan</td>
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<tr>
<td>Source of Funding / Amount</td>
<td>Lean 3704-PRC: Chongqing Longxi River Basin Integrated Flood and Environmental Risk Management Project, US$ 150.00 million</td>
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**Strategic Agendas**
- Environmentally sustainable growth
- Inclusive economic growth

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

**Sector / Subsector**
- Agriculture, natural resources and rural development - Rural flood protection - Water-based natural resources management
- Water and other urban infrastructure and services - Urban flood protection - Urban sanitation - Urban solid waste management

**Gender Equity and Mainstreaming**
- Effective gender mainstreaming

**Description**
The impact will be improved quality of the living environment in Chongqing Municipality. The outcome will be improved flood and environmental risk management in the project districts and counties. The outputs will be: (i) flood management system constructed; (ii) water pollution control system constructed; (iii) ecological conservation measures improved; and (iv) flood and environmental risk management capacity enhanced.

**Project Rationale and Linkage to Country/Regional Strategy**
The rapid urban growth in the People's Republic of China (PRC) is creating pressures for cities to expand their services in rural areas. The PRC is now prioritizing the developments of lower-tier cities, in which the aim is to create conditions necessary to enhance the livelihoods, attract investments, and accommodate growing population. While doing so, PRC needs to take into account the flood and environmental risk, which has long been a major hurdle to the development. The Yangtze River basin that shares 42% of national Gross Domestic Product (GDP), accounts over $0.3 trillion direct economic damage due to recurring floods since 1980, which is 75% of the total flood damage in the PRC. Over the same period, there has been a 73% increase in river water pollution levels due to the discharge of sewage and industrial waste, which account 42% and 45% of national discharges respectively. Increasing pollution loads from both point and non-point pollution sources, and recurring floods exacerbated by climate change impose threats to sustainable water resources management in the PRC. The PRC has made inclusive and environmentally sustainable growth a top priority in its Thirteenth Five-Year Plan. The Yangtze River Economic Belt (YREB) initiative, being supported by the Asian Development Bank (ADB) is the most recent national initiative to follow a green path, with the strictest environmental protection and water resources management measures.

The Chongqing Municipality suffers from different types of floods annually and was hardest hit in 2007, 2010, 2013, 2014 and 2016. Longxi River watershed, a first class Yangtze River’s sub-basin in CM, experienced fatal floods in 2016 resulting in $13 million direct economic damage. The areas along the Longxi River particularly Liangqing District (LD), Dianjiang County (DC), and Changshou District (CD), which are part of five functional zones (targeted for urbanization) and represent the model Longxi River economic belt initiative (LREB - a sub-basin version of YREB) of the CM, were hardest hit. The flood formed several belts of floating rubbish in the area, which exacerbated flooding and water pollution. The water quality in Longxi River is lower than class III national standards resulting from both point and non-point pollution. The water quality in the Changshou Lake in Longxi River, has been deteriorated along with eutrophication due to untreated waste disposal. Sediment yield due to soil erosion has resulted in reduced river conveyance, exacerbated flooding, reservoir shrinkage, and water contamination by heavy-metals. The climate change impact will likely to change the floods in the area with return period of 50 year into 10 year towards 2050. The Chongqing Municipal Government (CMG) has formulated the long-term Longxi River Ecological and Restoration Implementation Plan 2030, as well as five-year plan (2016-2020) aligned with the 13th five-year national plan (2016-2020) and is making efforts on FERM. The CMG is seeking supports from ADB to help address these challenges. The project aims at demonstrating integrated and nexus approach in project planning in the Longxi River basin for inextricably intertwined FERM by applying both structural and nonstructural measures and considering rural-urban integration, upstream downstream linkages, and mainstreaming FERM covering the areas in LD, DC and CD. The project will help CM formulate a comprehensive FERM plan in Longxi River, and contribute to the flood footprint accountability system in the YREB. The project is consistent with (i) Thirteenth Five-Year Plan of the PRC, 2016-2020; (ii) ADB’s Country Partnership Strategy for the PRC, 2016-2020; (iii) ADB’s strategy 2020 and the midterm review of the strategy; and (iv) ADB’s Water Operational Plan, 2011-2020.

**Impact**
Environmental protection, rehabilitation, and management of the Yangtze River improved

**Project Outcome**

**Description of Outcome**
Flood and environmental risk in the Longxi River watershed mitigated

**Progress Toward Outcome**
Preparatory activities for the commencement of procurement ongoing

**Implementation Progress**

**Description of Project Outputs**
1. Flood risk management infrastructure constructed
2. Wastewater management and pollution control infrastructure developed
3. Ecological conservation facilities improved
4. FERM capacity enhanced
Preparatory activities for the commencement of procurement ongoing

Preparatory activities for the commencement of procurement ongoing

Preparatory activities for the commencement of procurement ongoing

Participation of local communities to be ensured.

Geographical Location

Nation-wide, Chongqing

Evaluations

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

Responsible ADB Officer

Xueliang Cai

Responsible ADB Department

East Asia Department

Responsible ADB Division

Environment, Natural Resources & Agriculture Division, EARD

Executing Agencies

Chongqing Municipal Finance Bureau
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Chongqing Municipal Government
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Yubei District, Chongqing, PRC 401121

Timetable

Concept Clearance 24 Jul 2017
Fact Finding 12 Mar 2018 to 16 Mar 2018
MRM 18 Jun 2018
Approval 17 Sep 2018
Last Review Mission -
Last PDS Update 17 Sep 2019

Loan 3704-PRC

Milestones

Approval 17 Sep 2018
Signing Date 20 Nov 2018
Effectivity Date 11 Feb 2019
Closing 30 Jun 2024

Financial Plan

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<tr>
<th>Financing Plan</th>
<th>Loan Utilization</th>
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<tr>
<td>Total (Amount in US$ million)</td>
<td>Date</td>
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<tr>
<td>Project Cost</td>
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<td>ADB</td>
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<tr>
<td>Counterpart</td>
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Project Page https://www.adb.org/projects/51005-002/main

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