

 Early Warning System

WB-P506272

Karnataka Water Security and Resilience Program



Quick Facts

Countries	India
Specific Location	Karnataka
Financial Institutions	World Bank (WB)
Status	Proposed
Bank Risk Rating	A
Voting Date	2025-08-01
Borrower	Government of India - Department of Economic Affairs, Ministry of Finance
Sectors	Water and Sanitation
Investment Type(s)	Loan
Investment Amount (USD)	\$ 426.00 million
Project Cost (USD)	\$ 606.00 million



Project Description

According to the Bank's website, the objective of this project is to improve services, and institutional and financial capacities to enhance resilience to water and climate stress in Karnataka.

With this Program, the World Bank can leverage international and national lessons on enhancing water security, climate resilience, and DRM and facilitate convergence between six active water-related operations in Karnataka. The current operations include the Second Dam Rehabilitation and Improvement Project (P170873), National Groundwater Management Improvement (P158119), Rejuvenating Watershed for Agriculture Resilience through Innovative Development (P172187), Karnataka Urban Water Supply Modernization Project Additional Financing (P176107), National Hydrology Project (P152698), and National Cyclone Risk Mitigation Project (P144726). This Program will leverage data and experience, from these projects to inform the design of the proposed interventions.



Early Warning System Project Analysis

The environment and social risk screening revealed that the likely environment and social effects of the program are moderate to substantial. The main environmental risks are: (a) the substantial occupational safety and hazard risks for workers and communities due to numerous (approximate 1,000) work fronts for construction of sewers, lining of SWDs within the densely populated in Bengaluru, and potential traffic disruptions; (b) the residual pollution of SWDs discharging into lakes downstream if broken manholes of underlying sewers are not readily repaired as planned; (c) management of solid wastes in the SWDs to be fully integrated into Bengaluru's overall solid waste management program; (d) minimization of tree-felling; and (e) management of usual construction-related pollution, dust, oil spills, noise, and so on. The social risk rating ranges from moderate to substantial. The key social risks are: (a) potential disruptions to and impacts on livelihoods of communities/vulnerable groups that have, at several locations, encroached upon the existing 'Right of Way' that will be used for upgradation of SWD network; (b) risks of disruption, safety and GBV/SEA-SH risks to communities, particularly in congested urban locations wherein nine STPs are proposed on government lands that have already been identified; (c) risk of disruption to citizens if works are not scheduled, planned and implemented with citizen convenience in mind; and (d) inadequate information dissemination and community awareness in disaster management situations.

The E&S contextual risk, including any risks to sustainability is moderate as BWSSB is already constructing 14 STPs in the expanded area of Bengaluru.⁹ The planned investments under this Program will be undertaken on government land but in congested unplanned locations and could experience implementation challenges. The institutional capacity and complexity risks are moderate although these will be further assessed.



Investment Description

- World Bank (WB)

World Bank Lending: 426.00 MLN



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ACCESS TO INFORMATION

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Bank Documents

- [Concept Program Information Document \(PID\) \(English\)](#)



Other Related Projects

- WB-P152698 National Hydrology Project
- WB-P144726 National Cyclone Risk Mitigation Project-II
- WB-P158119 Atal Bhujal Yojana (Abhy)-National Groundwater Management Improvement
- WB-P170873 Dam Rehabilitation and Improvement Project - 2
- WB-P172187 Rejuvenating Watersheds for Agricultural Resilience through Innovative Development
- WB-P176107 Additional Financing - Karnataka Urban Water Supply Modernization Project