

 Early Warning System

WB-P512715

Resilience, Early Action, and Disaster Readiness for Khyber
Pakhtunkhwa



Quick Facts

Countries	Pakistan
Specific Location	Province of Khyber Pakhtunkhwa
Financial Institutions	World Bank (WB)
Status	Proposed
Bank Risk Rating	A
Voting Date	2026-10-30
Borrower	Government of Pakistan - Province of Khyber Pakhtunkhwa; and others
Sectors	Climate and Environment, Infrastructure
Investment Type(s)	Loan
Investment Amount (USD)	\$ 250.00 million
Project Cost (USD)	\$ 265.00 million



Project Description

According to the Bank's website, the objective of this project is to improve flood resilience in selected areas of Khyber Pakhtunkhwa.

This project aims to improve flood resilience in selected areas of Khyber Pakhtunkhwa through structural and non-structural measures and enhanced institutional capacity for disaster risk management and emergency response.

Component 1 - Improving Infrastructure and Planning for Resilience: The component implemented by the provincial Irrigation Department will include construction and rehabilitation of flood protection infrastructure, such as embankments, spurs, revetments, retaining walls, flood carrier channels, gabion works, and check dams, complemented by nature-based solutions such as slope stabilization using afforestation/reforestation, terracing, and riverbank restoration. An infrastructure investment plan will also be developed, containing a framework of phased short-, medium-, and long-term investments and informing related future feasibility studies and design work.

Component 2 - Establishing Flood Early Warning System: The project will also establish and operationalize a province-wide integrated Flood Early Warning System through collaboration between the Provincial Disaster Management Authority (PDMA) and Irrigation Department, by linking hydrometeorological observations, forecasting and modeling, decision support systems, and standardized alert dissemination to enable timely and coordinated preparedness and response to climate-exacerbated flood events.

Component 3 - Strengthening Institutional and Community Preparedness: This project will enhance the capacity of provincial institutions and local communities in Khyber Pakhtunkhwa to prepare for and respond to climate-induced multi-hazard disasters, with a particular focus on floods. PDMA and Rescue 1122 will be strengthened through upgraded facilities, improved risk analysis and planning, equipment, specialized training, communication and dispatch systems, and expanded rescue stations. Community-level resilience will be facilitated through improved early-warning dissemination and community-based disaster risk management.

Component 4: Project Management

Component 5: Contingent Emergency Response



Early Warning System Project Analysis

The overall Environmental and Social (E&S) of the project is assessed as **Substantial**. These are associated with the project's flood risk management investments across KP, including flood protection civil works, NBSs, and the provision of FEWS. Environmental risks include localized hydro-morphological impacts on environmental flows and downstream areas, erosion and sedimentation, construction-related nuisances such as air and noise pollution and waste management, risks from improper handling of fuels and chemicals, and occupational and community health and safety concerns linked to works in or near waterways and in glacial lake outburst flood prone areas. Social risks may be heightened where interventions occur in conflict and disaster-affected areas and may include land acquisition and encroachment issues that could result in physical or economic displacement, livelihood impacts, and social tensions. Additional risks stem from local socioeconomic conditions and intradistrict disparities, particularly in newly merged areas, which could lead to unequal distribution of benefits and perceptions of inequity.



Investment Description

- World Bank (WB)

Total Project Cost: US\$ 265.00 million

IDA Credit: US\$ 250.00 million



Contact Information

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ACCESS TO INFORMATION

To submit an information request for project information, you will have to create an account to access the Access to Information request form. You can learn more about this process at: <https://www.worldbank.org/en/access-to-information/request-submission>

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Bank Documents

- [Appraisal Environmental and Social Review Summary \(ESRS\) - Resilience Early Action and Disaster Read](#)
- [Appraisal Project Information Document \(PID\)](#)
- [Concept Environmental and Social Review Summary \(ESRS\) - Khyber Pakhtunkhwa Flood Resilience Project](#)
- [Concept Project Information Document \(PID\)](#)
- [Environmental and Social Commitment Plan \(ESCP\) - Resilience Early Action and Disaster Readiness for](#)
- [Stakeholder Engagement Plan \(SEP\) - Resilience Early Action and Disaster Readiness for Khyber Pakhtu](#)