

Early Warning System

WB-P175911

Sudan Flood Resilience and Water Resources Management Project

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Quick Facts

Countries	Sudan
Financial Institutions	World Bank (WB)
Status	Proposed
Bank Risk Rating	U
Borrower	Government of Sudan
Sectors	Climate and Environment, Water and Sanitation
Investment Type(s)	Advisory Services
Project Cost (USD)	$ 3.00 million

Project Description

According to bank provided information, the proposed project objective is to strengthen the capacity for flood forecasting and early warning and improve the operation and maintenance of small water harvesting and flood management structures.

The proposed project will support activities organized into three components:

1. Component 1: Enhancing forecasting and Early Warning (USD 1.40 million). This component aims to enhance the reliability of Flood Early Warning Systems (FEWS) for selected flood prone areas to ensure sufficient lead time for preparation and evacuation of people and to mitigate the loss of life and damage to assets, livestock, and others, caused by flood disasters. The FEWS framework will include enhancements in hydro-meteorological monitoring system, flood risk mapping and strengthening dissemination of flood forecasts. The proposed project will strengthen the capacity for flood early warning in selected pilot area with the intention to replicate the established model to other parts of the country in the future. In addition to the enhancement of accuracy of FEWS, the project will also improve the dissemination mechanism of early warning alerts. This component intends to strengthen GoS efforts to shift towards proactive flood risk management. The project will finance the following activities: (i) strengthening of hydro-meteorological monitoring network; (ii) rehabilitation and expansion of FEWS in selected areas; and (iii) development of community-based hydro-meteorological monitoring mechanism.
2. Component 2: Improving the Maintenance of Small-scale Water Storage Structures (USD 0.90million). This component will support the Water Harvesting Directorate of MoIWR in their endeavor to reduce the failure risk of small dams and water harvesting structures (haffirs) and asset management procedures for other flood management structures, such as retarding basins and river embankments. Special attention will be paid to the management of haffirs as an entry point for the MoIWR and local government to enhance the asset management procedures for other larger-scale infrastructures. Activities under this component aim to address community level adaptive capacities to mitigate the risk of floods and effectively harness flood waters in haffirs for productive livelihood activities. This component will finance: (i) baseline survey and update the inventory of small dams and haffirs that will include the key dimensions and development of failure risk index; (ii) development of guidelines, standard operating procedure (SOP), and emergency operation plan (EOP) for haffirs, small dams and flood management structures; (iii) minor rehabilitation of damaged haffirs; and (iv) Piloting of community-based management structures to ensure sustainability. The target site of pilot small scale rehabilitation and establishment of community-based management structures will be determined on the basis of small dam inventory prepared through the project. Community-based management system will ensure active participation of women in decision-making and management of water services. Building on the lessons learned through the piloting, the manuals and guidelines will be rolled out to broader areas, and related training will be conducted in collaboration with pertinent stakeholders such as the Civil Defense.
3. Component 3: Institutional Capacity Building and Project Management (USD 0.70 million). This component includes various technical assistance activities, designed to: (i) support preparation and supervision of all structural and non-structural investments planned under the project, including the rehabilitation of Nile FEWS, development of pilot FEWS (Component 1), and pilot rehabilitation of haffirs (Component 2); (ii) strengthen GoS's capacity to prioritize and plan future investments related to flood management and water resources management; (iii) develop and implement capacity building activities including training, procurement of workstations and related goods, etc.; and (iv) project management support including technical assistance and incremental operating costs on project management, technical, fiduciary, monitoring and evaluation, communications and safeguards expertise.

Investment Description

- World Bank (WB)

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Bank Documents

- Project Information Document (PID) - Sudan Flood Resilience and Water Resources Management Project - [Original Source]