



ADB Role in Pakistan Inclusive Disaster Risk Reduction - High-tech and Community Approaches Recent Practices on "Geo-Hazards Risks Management"

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Presenters
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All Community members and FERRP Project staff who Truly Contributed for the Success



Asian Development Bank 

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Projects Description

Flood Emergency Reconstruction and Resilience Project (FERRP)


Loan **\$218.04 million**, and TA of **\$2 million**, implemented **2015-2018**.
The outcome was the **restoration and reconstruction of critical public and social infrastructure to establish multi-hazard resilience standards and DRM strengthening.**

National Disaster Risk Management Fund (NDRMF)

ADB supported the establishment of NDRMF as a non-banking financial intermediary with a corporate structure. Initial investment of **\$200 million** followed by COVID support under **EAL worth \$100 million** also administering **grants value \$ 10 million.**

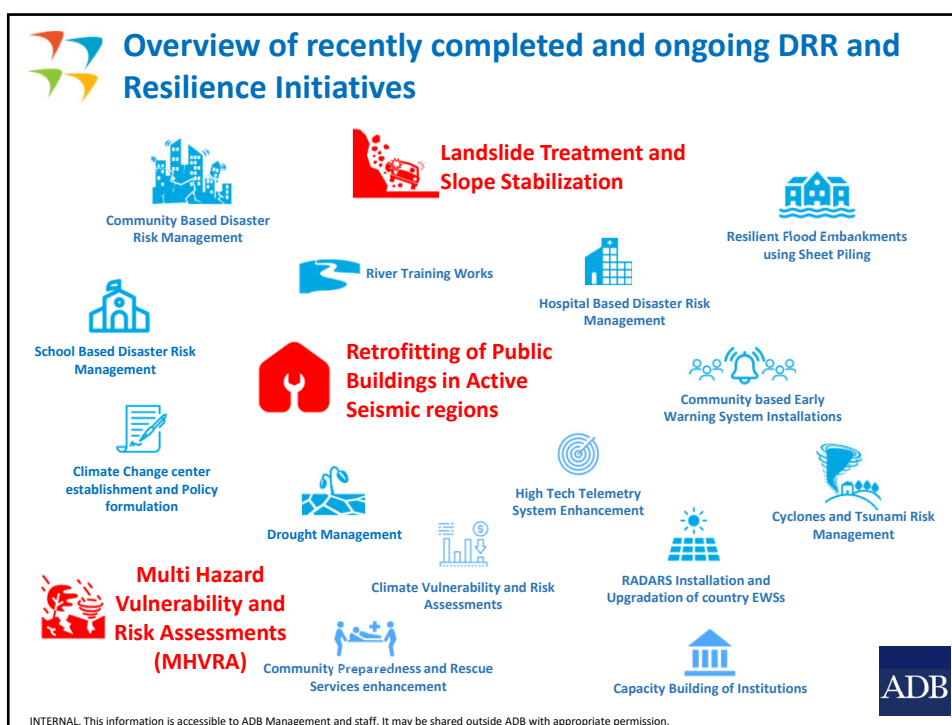
Fund is financing **(70-100% financing)** for a range of structural and non-structural interventions to be carried out by International and/or National Non-Governmental organizations as well as Public Sector Entities.

Fund is responsible for awarding, managing, and guiding investments that shall reduce risk and vulnerabilities that are associated with **climate change and natural hazards** - Primarily focusing **critical level disaster planning, preparedness, DRF, pre-disaster mitigation, and early warning systems.**



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Landslide Treatment and Slope Stabilization (SS)

Key Features

- 1,160 ha of active and potential landslides were treated using bioengineering and social engineering measures
- Plants and seedlings were procured from 24 community and private nurseries, of which 15 nurseries (63%) were owned by women's
- The focus of the landslide treatment and slope stabilization remained along the main roads rehabilitated and repaired under the FERRP project
- Species that are resilient to local climatic conditions were introduced
- Local communities participation/engagement highly appreciated – locals started replicating the cost-effective solutions for SS to control erosion of private land
- Based on the success, Govt is adopting SS component with bioengineering measures as an integral design option of all future road subprojects in hilly areas.

[Visual Show of Landslide Treatment and Slope Stabilization.mp4](#)

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Multi Hazard Vulnerability and Risk Assessment – EQ Chapter Only

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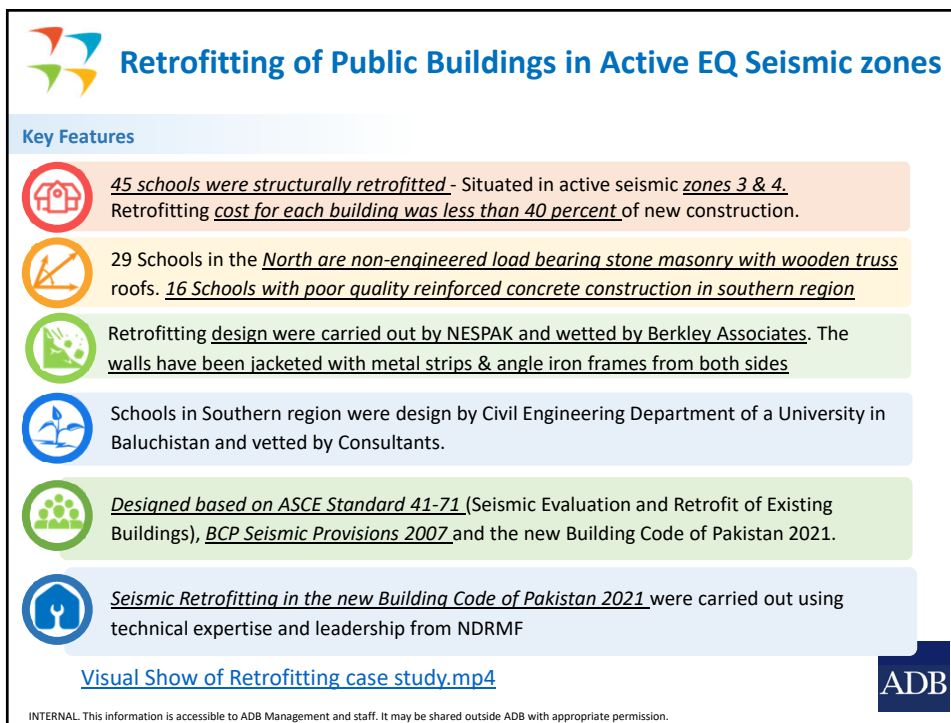
ATLASES OF PUNJAB PROVINCE

Multi Hazard, Vulnerability Risk Assessments

VIEW ALL ATLASES







MHVRA
DISTRICT MUTAN
PUNJAB-PAKISTAN
PROVINCIAL DISASTER MANAGEMENT AUTHORITY
GOVERNMENT OF THE PUNJAB

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Retrofitting of Public Buildings in Active EQ Seismic zones

Key Features

-  **45 schools were structurally retrofitted** - Situated in active seismic zones 3 & 4. Retrofitting cost for each building was less than 40 percent of new construction.
-  29 Schools in the North are non-engineered load bearing stone masonry with wooden truss roofs. 16 Schools with poor quality reinforced concrete construction in southern region
-  Retrofitting design were carried out by NESPAK and vetted by Berkley Associates. The walls have been jacketed with metal strips & angle iron frames from both sides
-  Schools in Southern region were design by Civil Engineering Department of a University in Baluchistan and vetted by Consultants.
-  Designed based on ASCE Standard 41-71 (Seismic Evaluation and Retrofit of Existing Buildings), BCP Seismic Provisions 2007 and the new Building Code of Pakistan 2021.
-  Seismic Retrofitting in the new Building Code of Pakistan 2021 were carried out using technical expertise and leadership from NDRMF

[Visual Show of Retrofitting case study.mp4](#)

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Gender Mainstreaming in DRR and Resilience

NDRMF A Unique Opportunity for Gender Mainstreaming

Approach


- **First National Fund for Disaster Risk Management** with gender policies including HR, Anti-Harassment and Diversity, Equal Opportunity, and Affirmative Action.

Governance

- Social/gender unit established **20% fund staff** are women.
- Fund subproject selection criteria includes **gender responsiveness**.
- **Gender experts** involved in the technical selection team.
- A vehicle for **donors' coordination**.

Operations

- **Community-based** disaster risk management
- Gender-inclusive retrofitting of social infrastructure
- **Gender-sensitive capacity building** of FIP staff and communities
- Sex-disaggregated data of **socio-economic vulnerabilities**



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Gender Mainstreaming in DRR and Resilience

Flood Emergency Reconstruction and Resilience Project : Key Gender Features


Women involved as **“Change Agents”** in the **“Build Back Better”**. Plants for land stabilization were procured from women-owned nurseries – **63% of the nurseries were owned by women**.


Women earned substantial amount of PKR 23.275 million by selling the plants/seedlings to the Forest Department.

Women for the **first time hired as “watch wardens”** for the treated slides and were paid stipends.

MHVRA reports of 20 vulnerable districts included sex-disaggregated data and separate chapter on **‘Gender-based Exposure Vulnerability Assessment’**.

<https://www.adb.org/news/videos/pakistani-women-plant-millions-trees-rebuild-climate-resilient-roads>





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