



# CLIMATE RISK MANAGEMENT (CRM)

To address the threats posed by climate change, UNDP has developed and piloted sector-specific climate risk management initiative in six districts located in the three ecological regions of Nepal.

## BACKGROUND

Nepal is one of the most disaster-affected countries in the world and among the top ten countries that are most affected by climate-related hazards. As such, Climate Risk Management (CRM) is a challenge that requires a multi-faceted approach to be successful, protecting both the lives and livelihoods of the people impacted by climate change induced disaster.

## UNDP'S ROLE

The UNDP Comprehensive Disaster Risk Management Programme (CDRMP) works closely with the Ministry of Home Affairs, Department of Hydrology and Meteorology, Department of Soil Conservation and Watershed Management, Department of Water Induced Disaster Prevention, Nepal Academy of Science and Technology, and District and Village Development Committees to provide communities with tools to reduce the effect of climate change induced disasters. Undertaking an Integrated Climate Risk

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▲ **Tsho-Rolpa Glacial Lake, one of the potentially dangerous lake for GLOF:**  
Effective Climate risk management is key to managing disasters and adapting to climate change. (Photo: UNDP)



▲ *Climate change has a major impact on natural resources such as water. Fewer water sources require communities, particularly the women and girls, to travel further distances to collect the necessary water. (Photo: UNDP)*



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Resilient nations.*

**Comprehensive  
Disaster Risk Management  
Programme (CDRMP)  
UNDP Nepal**

Assessment and developing climate risk assessment methodology, supporting community-based CRM initiatives, undertaking the initiatives for Glacial Lake Outburst Flood (GLOF) Risk Reduction, and strengthening community-based Early Warning Systems (EWS) linked to District and National Emergency Operating Centres (EOCs) are fundamental aspects of CRM initiatives by UNDP.

## ACTION TAKEN

UNDP has developed integrated watershed management plan in particular focus of climate risks based on detail risk assessments in selected watershed of Nepal's three regions: mountain, hill, and terai. The assessments identify past disaster events, socio-economic baselines, and prepare hazards ranking and mapping, which are used to develop integrated CRM plans in close coordination with GoN line agencies. While all plans aim to strengthen the CRM capacities of schools, local government agencies, and community members, UNDP helps tailor aspects such as small mitigation measures for soil conservation and water induced disaster such as river training and bio-engineering initiatives, which are unique to a community's topographical characteristics and individual community needs.

## FUTURE OUTLOOK

Healthy watersheds provide valuable services to society and such societies tend to be disaster resilient if the upstream and downstream linkages could be well understood and managed for disaster risk management. Activities in the upstream have direct linkages with the downstream communities in regard to landslides, floods, and drought. UNDP collaborates with national and local government, academic institutions and private sector inputs for climate risk management initiatives. By linking community members to District and National EOCs, EWS bring together a range of stakeholders better prepared to respond to hydro-meteorological induced disasters. In partnership with the Department of Hydrology and Meteorology, UNDP also aims to develop the early warning systems for various sectors such as climate induced disasters to disseminate pertinent information to local communities.



▲ *Vulnerable communities taking action to mitigate soil erosion by planting Broom Grass and Cardomon in Sorung Khola, Dolakha and this will also improve their livelihood. (Photo: UNDP)*



▲ *Community involvement especially women is crucial for managing disasters and adapting to climate change. (Photo: UNDP)*

### **For more Information, Please contact:**

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