

## **Sustainable Mountain Development**

### **Project benefiting mountain environments and communities?**

There are 2 (two) main projects related to the development which are Early Warning, EW, including flash flood & landslide evacuation map and Upstream Watershed Management, UWM.

For the EW, 548 and 140 villages in the highland and uptown communities with high priority are completely installed at the end of Yr. 2007 and 2008, respectively, 232 villages are installing presently and 1,450 villages are planned to complete at the end of Yr. 2012.

For the UWM, the main component is to construct Check dams in order mainly to increase the moisture and to decrease erosions from risky areas. The project is classified into two types which are the first type (small, non-permanent, more than 80,000 in the upstream zone and responsibilities of the Royal Forest Department & Department of National Parks, Wildlife and Plant Conservation) and the second type (larger, permanent, applied to the mid- and downstream zone responsibility of the Department of Water Resources). Now, 271 (two hundred seventy-one) and 178 (one hundred seventy-eight) Check dams, especially the second type, are completed in Yr. 2008 and 2009, orderly.

### **Progress made in implementing nation plans, strategies or policies related to mountain?**

The national plans, strategies and policies are completed and mainly composed of 4 (four) fields which are Improvement & Rehabilitation of upstream area, Flood Mitigation, Drought Releasing and Water Quality Improvement. According to the sustainable mountain development and especially the DWR, 435 and 705 projects such as conservation of water resources by participatory processes and construction of small & medium scale reservoirs, weirs, and Check dams are applied in Yr. 2008 and 2009, respectively.

### **Compensation mechanism for environmental services and goods provided by mountain areas?**

According to the DWR mandates, increasingly in soil moisture & tiny water resources which effect to flash flood and decreasingly erosions which effects to landslide in the mountain area are major compensations for environmental services and goods provided by mountain area. Nevertheless, the terms of protection, conservation and/or rehabilitation of the vulnerable natural resources and environment by DWR networks (the River Basin Committees both national and river basin levels and the Guru of the EW projects who are knowingly and willingness to participate) should be noted as a minor mechanisms as well.

### **In-country coordination and collaboration mechanism for mountain development?**

Ministry of Interior (Department of Disaster Prevention and Mitigation), Ministry of Agricultural and Cooperation (Land Development Department) and Ministry of Natural resources and environment (the Royal Forest Department & Department of National Parks, Wildlife and Plant Conservation and Department of Water Resources) are main coordination and collaboration mechanisms for sustainable mountain development.