

Project title: A Draft Guideline on Safety and Mitigation Measures for Buildings and Infrastructures in Landslide-Affected Areas

Abstract:

The ground movement during the landslide can diminish the foundation of buildings and infrastructure. This destabilization compromises the stability of the whole structure, causing cracks in buildings, failure of the foundation, and in extreme cases, collapse of the structure. Landslides can also damage various infrastructures, such as transmission line towers, telecommunication networks, sewage systems, and water supply. Ground movement often blocks the roads and highways and disturbs the transportation route. The cost of repair and reconstruction of the damaged structure and infrastructure has a significant economic impact. In addition to the immediate physical damage caused by landslides, the economic consequences can be far-reaching. The cost of repairing and reconstructing damaged structures and infrastructure can be substantial, putting a strain on local governments and communities. Furthermore, the disruption of transportation routes can have a ripple effect on the economy, hindering the movement of goods and services and causing delays and inefficiencies. The economic impact of landslides goes beyond the immediate aftermath, as it can take years for affected areas to fully recover and regain their economic stability. As such, it is crucial for governments and communities to invest in preventative measures. This draft will contain guidelines specific to landslide-prone areas for the safety and mitigation of buildings and infrastructure.

Objectives: Development of BIS guideline on Safety and Mitigation Measures for Buildings and Infrastructures in Landslide-Affected Areas.