


Research Abstract

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Current Research Abstract		
<p>Landslides and roadside slope failures are one of the major geotechnical fields of research and probably the most frequent disaster types in Nepal. The current data indicate that more than 300 people lose their lives in landslides and flash floods every year, and hundreds of million rupees of annual economic loss, particularly in the form of roadway infrastructural damage and vehicular traffic closure is born by the nation. Owing to financial crunches and lack of infrastructure development fund, however, there are insignificant practices of landslide prevention in Nepal. In addition, there are no indications that the government will take any concrete steps soon to deal with landslides and related disasters in the country.</p> <p>For a long time, the landslide problems have been addressed geologically, but it is the engineers that face tremendous problems due to landslides and slope failures such as in dam construction, roadway railway construction, mountain land development, etc. There are various approaches to deal with landslide behaviors and problems, but in engineering field, the soil mechanics addresses the primary issues such as displacement, stability, prevention, and so on. When it comes to understanding landslide displacement behavior and preventing the landslide, it is all important to understand the failure mechanism, which is best explained by soil strength and soil mineralogy. So, the current topics of my research involve landslide stability, residual strength, landslide creep in residual state, clay mineralogy and its influence in soil strength, landslide hazard mapping, etc., mainly focusing on the landslides along the major national highway group leading to Kathmandu in Nepal. Similar research is also based in Shikoku area of Japan, mainly for the purpose of comparing landslides of Nepal with similar types in Japan.</p>		