

**C-18: Factors effecting the reactivation of the Naketiya - Koslanda  
Landslide and a proposal for remedial measures**

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The Naketiya - Koslanda landslide movement was initiated on 19th November 1997 after a heavy rainfall during the preceeding 10 days period. The landslide

destroyed a portion of about 100 m of the Beragala - Koslanda - Wellawaya main road. The rainfall records show peak rainfalls on 7<sup>th</sup> and during the period 16<sup>th</sup> and 17<sup>th</sup> November 1997. The initial flow had caused significant losses to property too. It had destroyed in addition to Beragala - Wellawaya main road, 12 houses, 2 line quarters, about 50 acres of cultivated land and Ambaragalawatta Estate road. After the initial flow the rate of slide movement slowed down but subsequently reactivated on several occasions following moderate rainfall incidents.

The slide originated probably in the colluvium which is underlain by a layer of thick completely to highly weathered gneiss. Originally, the colluvium layer has failed sending a cascade of mud, boulders along with water, over the valley bottom upto the Lemastota Oya. The slope up to date remains unstable and show signs of further expansion into the crown area. The effects on the stability of the slope affected by the changes of the volume of surface runoff, subsurface water flow, pore pressure developments, slope gradient, can be readily visualized within the landslide body.