

## C – 09

Shallow seismic refraction measurements taken at the Kahagalla landslide were very useful in the immediate understanding of the nature of subsurface condition in terms of bedrock profile. Layering and potential aquifer zones, ect, The survey was planned to carry out at 48 locations spread over the affected area of the landslide. Time measurements were taken at every 5m intervals on the spread. The data obtained were taken for direct interpretation with the help of lithologs of drill holes and visual surface geological observations.

Satisfactory results could be taken at most places except for water logged and cracked areas. Based on the interpretation of seismic results, five seismic velocity zones were deducted with the comparison of lithologs of lithologs of drill logs. Bedrock profile may not be encountered below the depth of 20m because of limited capacity of the instrument. In ground profile, sudden changes in velocities may be indicative of aquifers, boulders and dry soil pockets.