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Micro-zonation of landslide hazards: A case study of Aizawl city and Lengpui airport road section, Mizoram, India, using geo-informatics

Mizoram has highly undulating terrain with steep slopes and deep valleys in its topographical set-up. As the terrain is of rugged nature composed of several unconsolidated sedimentary formations, it is prone to frequent slope failures causing massive landslides thereby disruption to traffic, damage to property and loss of lives occurred at many sections in and around Aizawl city. An attempt has been made in this study to identify the areas of slope failure causing high magnitude landslides between Aizawl city and Lengpui airport by numerical rating scheme of Landslide Hazard Evaluation Factors (LHEF) with the help of the advanced tools of ArcGIS software. Five zones of landslide hazards such as very high, high, moderate, low and very low have been identified along this road section.

Biography

Rahul Verma has his Doctoral Degree in Petrology and Geochemistry. His current focus is in structure, tectonics and slope stability. He has worked in Himalayan terrain for his Master's Dissertation in Structural Geology. He has completed two projects sponsored by government of India in the field of Landslide Causative Factors and Hazard Zonation. He is currently handling a BIUST sponsored project on Slope Stability in Mupane Gold Mine, Botswana. He has published 36 papers/chapters and has authored two books on Geology. Currently, he is affiliated to Department of Mining and Geological Engineering in Botswana International University of Science and Technology.

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