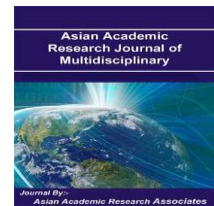




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## CLASSIFICATION OF TLANGNUAM LANDSLIDE, AIZAWL, MIZORAM

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### Abstract

Landslide is the most frequently occurring natural hazards in Mizoram during the monsoon and post monsoon season (June to September), concerning along the highways and inhabited areas. The ragged topography, immature geology, and very steep slope with high rainfall are the main triggering factor in the region.

The „Tlangnuam“ road section lies in the southern parts of the state capital Aizawl. This section is situated along the Kulikawn-Mual Veng road. Based on Bureau of Indian Standards (BIS) 14496 (Part 2): 1998; different parameters are assigned a rating value (score) for the present area. Lithology, structure, slope morphology, hydrological condition, land use/cover, rainfall and seismicity are the main thematic layers for Landslide Hazard Evaluation Factors (LHEF) which has finally been adding the total LHEF score for each factor.

A LHZ map on meso- scale of the present study area depicts spatial distribution of parameters to aware relatively unsafe area for future development. According to the classification of TEHD, any section having between  $5.0 \leq TEHD \leq 6.5$  falls in the category III “Moderate Hazard Zone” (MHZ). Since, the „TEHD“ calculated for the „Tlangnuam“ section scores 6.20 and accordingly the section falls in “Moderate Hazard Zone”.

For prevention and remediation of the section of the area—removal of the driving section, or material deposition in the barking, supporting structures such as anchors and piles, buttressing the toe, construction of retaining walls along the waning slope, filling and grouting of weaker zones are suggested.

**Key words: LHEF; TEHD, LHZ, BIS, Slope, Discontinuity**

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