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Landslide hazards and development of global early warning

Hilly terrain road networking throughout the world is associated with the serious problem of frequently occurring roadside landslides. The reason could be the negligence of nature friendly scientific and engineering aspects. Inconvenience consequents upon the landslides are leading to life and financial losses. Recently developed four lane road network in Aravalli is most prestigious infrastructure development activity of India. This paper is intended to explore dimensions to understand and overcome the problem of landslides. Hill slope geometry, stability analysis and finite elemental analysis help us to understand the disastrous failure of the hills, remedial measures and its suitability analysis. For development of early warning system, data were collected from hill by putting variables and constant parameters; slope stability analysis and segmentations analysis of rock mass in the hill cut face was done by using satellite data analyzed with geographic information systems software. Rock mass data, rock samples and soil samples were collected for the determination of geo-mechanical properties and slope stability analysis was carried out using licensed software GALENA. Finally computer simulation was done with the use of finite elemental analysis by generating computer models of the hill faces which are likely to fail. Complete data profile was generated and measures for controlling the landslides for selected sensitive hills.

Biography

Govind Singh Bhardwaj is contributing the society by his nature-friendly, geo-friendly and geo-social approaches for problem solving and constructive purposes in applied and basic research in his field. His creative and innovative ideas and inputs of expertise are certainly a landmark contribution towards safe guarding the mother earth and society, using different tools available in the field of geo-science, engineering geology, and geo-technology, GIS & Remote sensing and environmental conservation. He has put forward a new concept of the geo-social development and it has been appreciated by the international gathering during the international workshop organized in the field. He has given his technical delivery with the objectivity for betterment, improvement, optimization of infrastructural developmental activities in sustainable way, by his efforts i.e. geo-electrical resistivity survey, a number of successful water supply bore wells have been located in different areas of the Rajasthan state during drought periods. He has exposure of slope stability analysis software Galena, FEA, MAT LAB, FLAGY list, FLAC 3D, GIS software TNT mips and Arc GIS, Rock ware, DIPS etc. He is working on development of earthquake and landslides early warning system for issuing global and local warnings online. His YouTube channel "Geo-explore- Unearth the Earth mine" is dedicated for educating the society, he uploaded and published videos and is of good standing channel and can be accessed at link https://www.youtube.com/channel/UCebwD_gXVVJzCG9ABeIGNaw. He is recipient of several awards of national and international repute.

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