EFFECT OF NATURAL DISASTERS ON CONDITION OF MOTOR ROADS
IN NORTH VIETNAM

Natural calamities cause destruction of highways and artificial structures that they accommodate, thus, inflicting a substantial damage onto the national economy. The authors describe various natural phenomena and geological processes typical for North Vietnam. The reasons for and the characteristics of each type of disasters are also provided in the article. The authors have generated a set of actions aimed at prevention or mitigation of damages, and they are enlisted in the article. The authors make their conclusions in respect of the future areas of research and the monitoring of interaction between the road surface, the transport infrastructure and the environment.

Attainment of the aforementioned objective involves road surface monitoring to be accompanied by specific researches and compilation of maps of the areas exposed to frequent natural calamities. Timely notification of upcoming natural calamities and provision of effective recommendations are needed for the population to get prepared for the adverse events in advance. Besides, restriction of earth works in the areas exposed to natural disasters is necessary. Road building projects must incorporate environmental protection, organizational, technology and design-related actions aimed at the improvement of operating parameters of road beds of highways and at prevention of any further negative consequences in the course of operation of highways. Intensive wood planting and restriction of mining operations in specific areas are to be implemented.

Key words: road and transport infrastructure, natural calamities, earthquake, landslides, collapses and inrushes, sudden floods.

References


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