

## **REHABILITATION AND MODERNIZATION OF SOIL EROSION CONTROL WORKS IN IZVORU BERHECIULUI CATCHMENT**

**Cristian TOTOLEA<sup>1</sup>, Claudia BAHRIM<sup>2</sup>, Daniel BUCUR<sup>1</sup>**

e-mail: totleacristian@yahoo.com

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### **Abstract**

The research on the technical efficiency of the soil erosion control works applied on the lands in the areas affected by erosion serves to assess the quality of the design, execution and operation of the works, to improve their maintenance and to improve the solutions adopted for future development. The area and the intensity of the manifestation of the soil degradation processes encountered in the studied area determine damages by diminishing the agricultural surface and crop losses. The analysis carried out in the territory highlights the fact that on these lands it is necessary to intervene urgently in order to diminish within acceptable limits the manifestations of the degradation processes. In order to increase the effectiveness of the soil erosion control works, it is considered necessary to repair and modernize the existing works - received and taken over by the National Agency for Land Improvements Bacau - over time as well as their completion with new ones. The negative impact in case of non-performance of the proposed works consists in maintaining the current system of practicing an empirical agrotechnics on a random structure of agricultural crops with negative effects on the economy of the area, soil conservation, environmental protection and life quality.

**Key words:** slope lands, torrential rains, soil erosion control, crop yields, environment quality