

Rating quantitative and mapping of landslides in Ouenza quarry, Algeria

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The exploitation of iron ore deposit of Ouenza runs into serious difficulties related to landslides. Among the most important events of sliding, we have those of the Zerga site including lands located above the ore body “north” of Zerga. The overall area of the landslide is 40,000 m². Land instabilities are also manifested in other mine workings, thereby destroying the natural and economic resources. Thus, issues of prevention are needed to secure the quarry staff and preserve the resources and assets. Our goal is to determine the stability parameters of the quarry to allow the extraction of ore in good working conditions. This allows us to have a topographic map that puts us in the problem and gives us valuable information to guide us in our work to avoid the slip.

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