



## **Engineering classification of rock masses in the site of Gharehpiri dam NW of Shiraz, Iran**

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The Ghareh Piri dam located 3 km northwest of Shiraz city and of longitude 52 29 38 and latitude 29 43 50.1, has been planned. It is the site on one of the six tributaries of Khoshk River running through Shiraz. The valley, on which the dam should be constructed, is controlled by a minor dextral fault and is located on the north flank of the Moradi anticline, which belongs to the Simply Folded Zone of the Zagros Mountain Ranges of southern Iran. The dam abutments consist of solid limestone of the Tertiary Asmari- Jahrom Formation. Geological field works including lineaments (joints and faults) evaluation of dam's site has been performed. These investigations together with the study of geotechnical characteristics of rocks after Barton ET Al (NGI) and geotechnical classification of rocks and rock masses (RMR) promise a suitable site for the dam.