

Mineralogical studies in Razdar ultramafic – mafic complex (South of Kerman province)

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Abstract: Razdar ultramafic–mafic complex is located in south of Kerman province and contains ultramafic (dunite with chromitite, lherzolite, wehrlite, websterite and olivine websterite) and mafic (gabbro) rocks. The most important minerals in this complex are olivine, chromspinel, orthopyroxene, clinopyroxene, plagioclase and amphibole. Mineralogical studies indicate that chemical composition of these minerals from lower to upper parts of Razdar complex has distinctive variation. That is, with variation of rocks from ultramafic to mafic, Mg-contents in ferromagnesian minerals decrease and the minerals become more mafic. Comparison of chemical composition of major minerals in Razdar with other ultramafic association in the world reveals that ultramafic part of Razdar complex likely belongs to upper mantle that has been emplaced in present position by major faults.

Keywords: *Ultramafic rocks, Chromitite.*