

## عنوان مقاله:

Petrogenetic Importance of Chromite Chemistry in Ophiolites, Mafic-Ultramafic Complexes NW, Pakistan & Ranomena Ultramafic Complex NE, Madagascar: A review

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## خلاصه مقاله:

The margin of Indian Plate is limited to Suture Zones at North, North-West and East, those Suture Zones have marked distinctively by Ophiolites and Mafic-Ultramafic complexes in Pakistan. The order of the Ophiolites and Mafic-Ultramafic Complexes from South to North as (a) Bela, (b) Zhob-Muslimbagh, (c) Waziristan, (d) Dargai, (e) Shangla-Mingora, (f) Jijal Complex, (f) Sapat Complex and (g) Chilas Complex. These Ophiolites and Mafic-Ultramafic Complexes are entirely characterized by segregated, lenticular or disseminated Chromite associations. The present study is a critical extensive review of previous works about Chromite Chemistry and their petrogenetic indications. In particular, the Chromite Chemistry played an important role to interpreted the tectonic setup of particular mafic-ultramafic Complex, Ophiolites in Pakistan and Ranomena Ultramafic Complex NE, Madagascar. The Ophiolites and Mafic-Ultramafic complexes in Pakistan classified based on chromium number (Chromium No:  $>60$  Class I, Class-II  $15-60$  &  $<60$  III). The Chilas Complex i-e Chromite. No  $<60$  is related to rifting origin, the Sapat and Jijal Complex Chromite. No  $>60$  formed in Island Arc tectonic setting while others formed in Complex origin particularly Supra-Subduction Zone (SSZ) environment. The Mafic-Ultramafic Complexes of Pakistan has been correlated with Ranomena Ultramafic Complex North-East Madagascar and interpreted that the Bela, Muslimbagh-Zhobe, Waziristan, Dargai and Shangla-Mingora Ophiolites NW, Pakistan and Ranomena Ultramafic Complex NE, Madagascar originated .at Supra Subduction Zone tectonic setting

## کلمات کلیدی:

Petrogenetic Importance; tectonic Setting; Chromite; Ophiolites; Mafic-Ultramafic Complexes; Supra Subduction Zone (SSZ); Ranomena Complex

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