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Chapter 5

**REVIEW ON RELATIONSHIP BETWEEN
VOLCANIC AND PLUTONIC ROCKS
OF NEOPROTEROZOIC MALANI IGNEOUS
SUITE: FIELD, PETROGRAPHICAL,
GEOCHEMICAL AND TECTONIC PROXIES**

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ABSTRACT

The geodynamic history of Northwestern Indian shield is very interesting because many geological events have occurred at different times. The Neoproterozoic Malani Igneous Suite (MIS) is the product of mantle plume/hotspot tectonism in NW Indian shield. MIS (age ~780-750 Ma) is one of the largest felsic igneous province covering 55,000 Km² area and 3-7 Km thickness and is characterized by being rich in rare metals, rare earth and radioactive mineral deposits. These rocks are well exposed in Tusham (Haryana), Jhunjhunu, Siwana, Jalor, Barmer, Pali, Jaisalmer (Rajasthan) and also Kirana hill, Nagar Parkar (Pakistan). Normally, they

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