

Albitite occurrences in rocks of Delhi Supergroup around southern parts of Haryana: its implications on search of REE and thorium mineralisation

Shambhu Nath Bhagat*

Geological Survey of India, State Unit Telangana, Hyderabad 560 068,
India

Here we report the occurrences of new albitite zone/rocks and rare earth elements–thorium (REE–Th) mineralisation in albitite from central and southern parts of Haryana. The albitite has been characterised by petrography, mineral chemistry and petrochemistry analysis. The albitite mainly comprises albite feldspar (Ab ~ 99%) with sphene, Fe-oxides, rutile, apatite, calcite and zircon. The albitite in the study area is enriched in Light REE, depleted in Heavy REE and contains about 40–60 ppm Th. The albitisation and its associated ore mineralisation indicate an iron oxide apatite type of deposit in the area.

Keywords: Albitite, EPMA, IOA deposit, Na-metasomatism, REE–Th mineralisation.