

Recovery of Chromite Value from Chromite Ore Beneficiation Plant Tailings by Selective Flocculation

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Abstract

Good amount of chromite tailings are being generated from the chrome ore beneficiation plant, which causes the problems of storage of tailings and peripheral environment pollution. To reduce the generation of tailings recovery of chromite value is one of the best solutions using advanced physical beneficiation process. Selective flocculation is one of the beneficiation processes which act as pre concentration step to recover the ultra-fines chromite value present in the tailings. In the present study, an effort has been made to enrich the chromite value by selective flocculation and study the effect of different operating parameters. It was possible to enrich chromite value from around 19% to 26% with 65% recovery.