

# **Utilisation of low grade iron ore, iron ore fines, slimes and tailings by physical beneficiation to minimize the waste generation**

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## **Abstract**

Iron ores are valuable natural resources being finite and non-renewable. They constitute the vital raw materials for iron and steel industries and are a major resource for national development. The country is not endowed with high grade requisite iron ore resources. It is, therefore, imperative to achieve the best use of available iron ore resources through scientific methods of mining, beneficiation and economic utilisation. Utilisation of low-grade iron ore containing 45-58% Fe resources is the crucial point to reduce the waste generation in present scenario. Similarly lot of slimes/tailings was generated from iron ore washing plant which should be utilized for recovery of iron values by application advance technologies.