

A
Project Report
On
Technology Development for the Dry Granulation of Steelmaking Slag

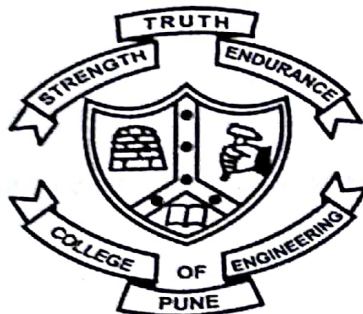
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Master of Technology
(Materials Engineering)

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ABSTRACT

Slag generated during the steelmaking process contains some amount of metal, which needs to be recovered and recycled. In most of the cases, the molten slag, after pouring from the steel making vessel, is allowed to cool down and solidify rather slowly. Post cooling, the big lumps of slag are broken into smaller particles by mechanical means to enable magnetic separation of metallic. Conventionally, slag is granulated / atomized by means of water jet or water/air combine. A novel approach for granulation was adopted where the granulation was successfully achieved by the use of centrifugal forces. Such a technology offers great advantage by way of avoiding usage of water or air.