

REVIEW ON QUALITY IMPROVEMENT IN STEEL PLANT

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ABSTRACT:

In research paper, the potential to use waste energies from the steel production at B.S.P., Bhilai in ChattisGarh region is investigated. The B.S.P is a leading producer of high strength steel, such as slab, bloom, billets, wire, ingots, other steel products every year. The study is based on energy balances in the different production lines. The energy balance is investigated with applying three-dimensional mathematical model at different energy flows.

The work concludes that there is a great potential for increasing the use of waste energy at steel plant. Today, there are many ways of these flows of energy which are pure losses that are cooled away or burnt.

The research paper finds that the total heat input for the steel production in one year is approximately 38640 MW & output 37128MW from energy calculations it can be shown that the upper theoretical limit when converting the energy into high quality energy such as electricity is produced.