

ENERGY AUDIT OF THERMAL UTILITIES IN A CEMENT PLANT

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ABSTRACT

The energy audit has emerged as one of the most effective procedures for a successful energy management programme. This paper focuses on energy audit of thermal utilities in a cement plant, which has been using data measured from cement plant at Karnataka. A detailed analysis of kiln, grate cooler, Preheater, Precalciner, raw mill, coal mill, gas conditioning tower are done and the possible approaches of heat recovery from some major heat loss sources are discussed and also identify technological opportunities in order to decrease energy consumption of the plant, increase the productivity, and improve the production process

KEYWORDS: Coal Mill, Gas Conditioning Tower, Grate Cooler, Precalciner, Preheater, Raw Mill, Rotary Kiln