INVESTIGATION OF THE OPTIMUM THICKNESS OF INSULATION FOR PIPEWORK

Project report submitted by

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ABSTRACT

The project deals with the estimation of the Optimum Economic Thickness of Insulation through the formulation of a computer program.

It is divided into two parts:

PART A:

- Theory governing heat transfer through cylindrical pipes and derivation of relevant equations.
- Theory governing the importance of insulation in thermal systems and various types of insulation.
- Theory governing the Optimum Economic Thickness of Insulation and calculations involved in its estimation.

PART B:

- Presentation of the program and a printout of the program.
- The manual of the program.
- Tables giving the optimum thicknesses of insula-

tion and their respective costs for a certain pipe diameter.

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