PRFORMANCE ANALYSIS OF 100 TR SOLAR AIR CONDITIONING SYSTEMS

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M Tech Dissertation

Submitted in

Partial fulfillment of the requirements

For the degree of

MASTERS OF TECHNOLOGY

In

Thermal Engineering

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May 2018

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ABSTRACT

Energy sector is one of the important areas in the economic development of any country. Meeting the growing energy demands at acceptable costs in various sectors like industries, commercial, transport, etc., is the challenge to the energy planner.

The electricity requirements of the world including India are increasing at alarming rate and the power demand has been running ahead of supply. It is also now widely recognized that the fossil fuels (coal, petroleum and natural gas) and other conventional resources, presently used for generation of electrical energy, may not be either sufficient or suitable to keep pace with ever increasing demand of the electrical energy of the world.

The other non-conventional sources methods of power generation may be such as solar cells, fuel cells, thermoelectric generator, thermionic converter, solar power generation, geothermal energy generation, tidal power generation etc.

The present work is an account of Energy and Exergy analysis of a Vapor Absorption Chiller using Scheffler dish of "MUNI SEVA ASHARAM GORAJ (VADODARA)".

A Chapter 1 introduces the energy, and Exergy analysis and solar energy while Chapter 2 presents the review of Energy and Exergy Analysis. Chapter 3 defined problem definition and objectives, chapter 4 defined as the materials and methodology, chapter 5 defined as the calculation, observation and discussion and chapter 6 defined the conclusion and summery.