

FABRICATION OF SOLAR AIR COOLER

A Project report submitted

In partial fulfillment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING

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Tamaram, Makavarapalem, Narsipatnam, Visakhapatnam.

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CERTIFICATE

This is to certify that project work is entitled “**FABRICATION OF SOLAR AIR COOLER** “ is a bonafied record done by **B.VINODH KUMAR(15811A0311),B.SAI KALYAN(15811A0314),G.SAI KUKMAR(15811A0346),G.SAMUEL CHRISTOPHER(15811A0337)** students of final year **B.Tech** in the Department of **Mechanical Engineering**, Avanti Institute of Engineering and Technology, Visakhapatnam. This work was done for the fulfillment of the requirements of the award of **Bachelor of Technology** during the year 2018-2019.

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PROJECT GUIDE

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HEAD OF THE DEPARTMENT

M. L. L. 31/4/19

EXTERNAL EXAMINER

ABSTRACT

Mechanical Engineering without production and manufacturing is meaningless. Production and manufacturing process deals with conversion of raw materials inputs to finished products as per required dimensions, specification and efficiently using recent technology. The new developments and requirements inspired us to think of new improvements in air conditioning Engineering field.

In our project, solar power is captured and stored in a battery. This power is used to run the air cooler whenever required. Solar energy means the radiation energy that reaches the earth from the sun. It provides daylight makes the earth hot and is the source of energy for plants to grow. Solar electric systems are suitable for plenty of sun and are ideal when there is no main electricity.

Solar electricity is the technology of converting sunlight directly in to electricity. It is based on photo-voltaic or solar modules, which are very reliable and do not require any fuel. Our objective is to design and develop a solar electric system namely "FABRICATION OF SOLAR AIR COOLER"