VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM - 590016

A Project Report On

"NON CONVENTIONAL AIR COOLER"

(Sponsered by: KSCST, Ref No. 35S0809)

in partial fulfillment of requirements for the award of degree of Bachelor of Engineering in Mechanical Engineering of Visvesvaraya Technological University, Belgaum.

Submitted by

SACHIN PEDNEKAR	(2MM08ME039)
BABASAHEB MALI	(2MM08ME005)
PRASHANT GURUBASANNAVAR	(2MM08ME033)
SHRIKANT TEGGI.	(2MM08ME048)

Under the Guidance of

Prof. ANAND MATTIKALLI.

DEPARMENT OF MECHANICAL ENGINEERING

Maratha Mandal's Engineering College,

R.S.No: 104, Halbhavi, Opp. Siddhaganga Oil Mills,
P.O New Vantamuri, via-Kakti,
Belgaum-591113.

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ABSTRACT

The mechanical load of the current air cooler is the main cause of consuming high energy. This cause prompted us to search for new ways to improve the solar air-cooler in terms of energy efficiency, life, maintenance, and dependence on utility power. As a result, we designed, constructed, and tested a new automated solar powered air cooler that considerably improves on existing designs on all the above-mentioned areas. Test results from the modified cooler based on the new design show that it delivered air with noticeably higher humidity and lower temperature than the standard design