A

Project

Report on

STUDY OF ANTICORROSIVE AND THERMAL PROPERTIES OF WATER BASED NANO FLUIDS

A project report submitted in partial fulfilment of requirements for the award of the degree of

Bachelor of Technology

In

MECHANICAL ENGINEERING

SUBMITTED BY

K.SVN GOPAL SATHWIK	**(19815A0332)**
K.HEMA VENKAT KUMAR	**(19815A0324)**
K.NARASIMHA NAIDU	**(19815A0333)**
CH.NAGA DURGA PRASAD	**(19815A0307)**

Under the Guidance of

M.V.D.K.RAJU M.E

Assistant professor

DEPARTMENT OF MECHANICAL ENGINEERING

AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

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AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

CERTIFICATE

This is to certify that project report is entitled "STUDY OF ANTICORROSIVE AND THERMAL PROPERTIES OF WATER BASED NANOFLUIDS"was carried out by . **K.SVN GOPAL SATHWIK (19815A0332),K.HEMA VENKAT KUMAR (19815A0324), K.NARASIMHA NAIDU (19815A0333), CH.NAGA DURGA PRASAD (19815A0307)**in partial fulfilment of requirements for the award of the degree of bachelor of technology in **"MECHANICAL ENGINEERING"** by Jawaharlal Nehru Technological university, Kakinada During the year 2019-2022.

M.V.D.K. Raju

PROJECT GUIDE

M. V. D.K.RAJUM.E

ASST PROFESSOR DEPT OF ME

HEAD OF THE DEPARTMENT

V.HARI KIRANM.TECH,(Ph.D)

HEAD OF THE DEPT OF ME

EXTERNAL EXAMINER

ABSTRACT

This article summarizes research in developing a stable dispersion (Nano-fluids) that can be used in solar equipment and automobiles using functionalized Carbon Nano-Tubes. Nanofluids prepared with Ethylene Glycol and water-base fluids . Base fluids were dispersed with surfactant-assisted multi walled carbon nanotubes (MWCNTs). The oxidized MWCNTs in the weight fraction of 0.25 per cent to check the galvanic corrosion and pitting corrosion.

Keywords: Thermal Heat Transfer Fluids, corrosion, CNT, Nano-fluids, Automotive Applications