AN INVESTIGATION ON THE PERFORMANCE OF A DIRECT INJECTION DIESEL ENGINE USING ESTERIFIED OILS (BIODIESELS) AS FUEL

A THESIS

Submitted to

THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA, VADODARA

In fulfillment of the requirements for the award of degree of

DOCTOR OF PHILOSOPHY

in

MECHANICAL ENGINEERING

by

H. K. AMARNATH

Research Guide PROF. (DR.) P. PRABHAKARAN



DEPARTMENT OF MECHANICAL ENGINEERING
FACULTY OF TECHNOLOGY AND ENGINEERING
THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA
VADODARA 390 002

April 2012