

Department : **Mechanical**

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Group No: **6**

Guided By

PROF. S.S. PATEL

SMT. S. R. PATEL ENGINEERING COLLEGE, UNJHA

Project Title

EXPERIMENTAL INVESTIGATION FOR IMPROVING POWER OF FOUR STROKE SINGLE CYLINDER DIESEL ENGINE WITH TURBOCHARGER

Abstract:

Now a day, many vehicles operated by diesel engine so requiring performance of diesel engine is better. There are many ways to increasing the performance of diesel engine but, mostly using turbocharger for improving performance of diesel engine. So most of engines now days are employed with turbocharger. We are known that the power outputs of an engine increases with the increase in amount of air or mixture in the cylinder here turbocharger plays an important role in increasing the amount or air. So, Turbochargers are used in automotive industry for improving power of engine without the need to increase its cylinder capacity. The emphasis today is to provide a feasible engineering solution to manufacturing economics and "Greener" road vehicles. It is because of these reasons that turbochargers are now becoming more and more popular in automobile applications. The main objective of this project is to determine increase in performance of 4-stroke single cylinder diesel engine by using turbocharger. For that first performance analysis of power and efficiency of diesel engine is done without turbocharger and then with turbocharger. From this project the learning of performance of 4-stroke diesel engine with turbocharger and importance of turbocharger in 4-stroke diesel engine is expected.

Prepared By:

Sr. No.	Student Name	Enrollment No
1	DARSHAN R. MODI	140783119009
2	JAY S. PATEL	140783119017
3	DARSHAN V. PATEL	140783119035
4	VISHAL K. PATEL	140783119040

