

“FABRICATION AND PERFORMANCE ANALYSIS OF ELECTRO-PNEUMATIC ENGINE FOR TWO WHEELER”



A project report submitted to

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belgaum

In partial fulfillment for the award of degree

**Bachelor of Engineering
In
Mechanical Engineering**

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ABSTRACT

In the present energy scenario the fossil fuel sources are fast depleting and their combustion products are causing global environmental problems. So it is inevitable to shift towards these of renewable energy resources which in turn will reduce pollution levels and save fossil fuels. One possible alternative is hybrid vehicle. Our main idea is to use **air and electrical energy**.

Air powered two wheeler runs on compressed air instead of gasoline. This two wheeler is powered by a compressed engine (i.e. a modified IC Engine which runs by compressed air) along with electric energy powered by batteries. Battery power drawn from the engine could possibly be used to power the compressor or to recharge them. And we can develop the power required to drive the rear wheel by battery energy.

Hybrid vehicle is cheaper and beneficial compared to hydrogen engines, bio-diesel engines. Nevertheless, the compressed air vehicle will contribute in reducing urban air pollution in the long run. This project deals with the fabrication and performance study of compressed air powered vehicles along with electrical energy.