

FABRICATION OF AIR BRAKING SYSTEM USING ENGINES EXHAUST GAS

**A PROJECT REPORT SUBMITTED
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF THE
DEGREE OF**

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

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CERTIFICATE

This project is to certify that report is entitled
"FABRICATION OF AIR BRAKING SYSTEM USING NENGINES
EXHAUST GAS"

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ABSTRACT

In this braking system, exhaust gas from the IC engines is used to operate air brake in the automobiles. Airbrake is most used braking system in vehicles. In the proposed model, instead of air brake, exhaust gas is used to operate the brake lever. Exhaust gas from engine is stored in a specially designed pneumatic tank. This exhaust gas pressure is used to operate the pneumatic cylinder and brake lever. Filters are used to remove the impurities from the exhaust gas, and then it is allowed to store in the tank. Pressure relief valve is used achieve specific pressure in tank and helps to avoid damage in tank as well as in engine.

Two stroke petrol engine is used in the proposed exhaust gas braking system. Petrol engine is chosen because it produces less impurity in exhaust than diesel engines. This study can also be extended for diesel engines also with suitable design.

KEY WORDS: Petrol Engine, 2 Stroke, Air Brake, Exhaust Gas.