

VISVESVARAYA TECHNOLOGICAL UNIVERSITY



BELGAUM - 590014

“Conversion of Biogas into Methanol and application of Methanol in IC Engine”
(Funded by KSCST, Bangalore)

A project report submitted to Visvesvaraya Technological University in partial fulfillment of the requirement for the award of degree of Bachelor of Engineering in Mechanical Engineering.

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ABSTRACT

Petroleum products have always been the preferred transportation fuels because they offer the best combination of energy content, performance, availability, ease of handling and price. However, the recent increase in the price of oil has prompted the industry to look at alternatives. Our project team members have decided to make complete use of Non-renewable Energy source as an Alternative fuel.

Hence we have chosen the project of Conversion of bio-gas into a portable liquid fuel Methanol to be used as an alternative to petroleum product and its application in IC engines. Conversion process involves Nucleophilic substitution reaction of Bromine with methane gas to yield methanol. Then to modify the IC engine, to use methanol as an alternative to petrol.