

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM- 590 010**



**PROJECT REPORT ON
“PRODUCTION OF ETHANOL FROM BEETROOTS”**

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**BACHELOR OF ENGINEERING
IN
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ABSTRACT

At present there is a huge demand for the biofuels , homogeneous gasoline and diesel substitute made from crops like Beetroots, corn, soybean and sugar cane. It will make us less dependent on the fossil fuel produced in Middle East. The best of all is to cutdown the carbon dioxide emission and carbon monoxide emission which are harmful to environment and mankind. Beetroots are considered to be one of the good source for the production of ethanol. As the content of sugar is high in beetroots it is suitable for fermentation to alcohol.

Fermentation was carried out after assessing the contents of monosaccharides and disaccharides from the beetroots. Ethanol fermentation is the biological process by which sugars such as glucose, fructose and sucrose are converted into cellular energy and thereby producing ethanol and carbon dioxide as metabolic waste products. Percentage of alcohol was assessed by gas chromatography.