

# Karnataka State Council for Science and Technology



**KSCST**  
IISC, Bangalore

A Project Report on

“Effect of additive **Hydrogen Peroxide** on the performance and Emission of a Diesel Engine at B20 Blend”

Presented by

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# **Abstract**

In the nineteenth hundreds, fossil fuels were assumed to be infinite. With constant oil wells being discovered almost every New Year. But as time went by, man learnt that this was not the case and that they were limited. Hence began the search for other sources of power and energy which is still a hot debated topic today as we enter the computer age from the industrial revolution. And the search for an alternative fuel with very little or no changes to existing engineering components is a heated topic all across the globe. This leads to the discovery of extraction of workable fossil fuel substitutes which fit more criterion as one can imagine replacing fossil fuel front gradually. BIO-DIESEL. Today we will be looking at the working of one such bio-diesel extract with an added flavor of hydrogen per oxide as combustion enhancer, studying the performance changes in the engine as well as changes in emission characters over the gradual increase of hydrogen per oxide dosage arriving at the optimum level of this mixture.