A Mini Project Report

On

ANALYSIS OF USED PALM OIL AND NON-USED PALM OIL BIODIESEL

Submitted to

Jawaharlal Nehru Technological University Hyderabad

In partial fulfilment of the requirements for the award of degree of

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

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2021-2022

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**CERTIFICATE**

This is to certify that the mini project report entitled “BIODIESEL” is being submitted by T. SWATHI (19E15A0302) respectively in partial fulfilment for the award of degree of Bachelor of technology In Mechanical Engineering from Bharat Institute of Engineering and Technology, Hyderabad and us a bonafide work carried out by them under the guidance of Mr. Dheeraj Joshi, Professor, Department of Mechanical Engineering, BIET Hyderabad. This result embodied in this report has not been submitted to any other Institute of university for the award of any other Degree.

Mr. DHEERAJ JOSHI Dr. K. SATISH BABU

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EXTERNAL EXAMINER PRINCIPAL

**ACKNOWLEDGEMENT**

This satisfaction that accompanies the successful completion of the task would be put incomplete without the mention of the people who made it possible, whose constant guidance and encouragement crown all the efforts with success.

We avail this opportunity to express our deep sense of gratitude and hearty thanks to Sri. Ch. Venugopal Reddy, Secretary and Correspondent of BIET, for providing congenial atmosphere and encouragement.

We would like to thank Pr. G. Kumaraswamy Rao, Director, Former Director & OS of DRDL Ministry of Defense and Dr. Ch. S Naga Prasad, Principal for having provided all the facilities and support.

We would like to thank Dr. Mithlesh Sharma, Academic I/C, Mr. Pradeep Chavan, Admin I/C, Mechanical Engineering, Mr. Dheeraj Joshi, project coordinator, Class I/C, Mechanical Engineering for their expert guidance and encouragement at various levels of our report.

We are thankful to our guide Dr. Ch. S. Naga Prasad, Professor, Mechanical Engineering for his sustained inspiring guidance and cooperation throughout the process of this report.

His wise counsel and suggestions are valuable.

We express our deep sense of gratitude and thanks to all the Teaching and Non-teaching staff of our college who stood with us during the project and helped us to make it a successful venture.

We place highest regards to our parents, our friends and well wishers who helped in making this report.

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**ABSTRACT**

Biodiesel is the one of the fuel substitute. There are many oils and animal fats are used in biofuel production. One of the way is to produce biodiesel by extraction of palm oil from palm seeds. By the transesterification process, the palm oil with the potassium hydroxide and methanol biodiesel is produced. Important properties of fuel are flash point, fire point, viscosity etc. In this paper studies about the different properties of the fuel which is produced by the fresh palm oil and the used or waste palm oil with the standard values of the respective fuel property values.

Keywords: Biodiesel, Transesterification, pure palm oil, used palm oil, flash point, fire point, viscosity.