

# EVALUATION OF THERMO – MECHANICAL (DMA-TGA) ANALYSIS OF TAMERIND POWDER REINFORCED STRACH

A PROJECT REPORT

*Submitted by*

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*In partial fulfilment for the award of the degree*

*Of*

BACHELOR OF ENGINEERING

*In*

MECHANICAL ENGINEERING



T.J.S. ENGINEERING COLLEGE, PERUVOYAL

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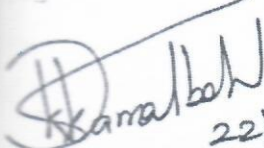
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BONAFIDE CERTIFICATE

Certified that this project report " EVALUTION OF THERMO-MECHANICAL [DMA-TGA] ANALYSIS OF TAMERIND POWDER REINFORCED STARCH" is the bonafide work of SADU.VENKATESH(112818114037),AMASA.NANDAKUMAR(1124301).R.PAVANK JNAR(112818114303),P.VIJAYKUMAR(112818114048)", who carried out the project work under mysupervision.

  
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## ABSTRACT


In defense industry, Dynamic mechanical analysis-Thermogravimetric analysis is common scenario occurs often. The materials used for making vests, automobile covering parts, aerospace parts affected due to impact of projectile. These materials should possess good impact strength and energy absorption for its damage resistance and providing safety for the industry.

Usually cork filler used for its well-known impact strength. Tamarind seed powder tends to improve its property with respect to cost. Thus, it is important to calculate its impact strength and energy absorption factor of reinforced composites.

In this thesis, tamarind seed powder is for its good resistance to impact and the dma-tga is carried out with lead projectile for studying its behavior, impact strength and energy absorption.

From the results, it is sufficient to conclude that usage of 20 % Tamarind seed powder composite behavior with impact of projectile.



  
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