

## ANALYSIS OF MECHANICAL PROPERTIES OF RANDOMLY ORIENTED TAMARIND FIBRE COMPOSITE MATERIAL

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### **ABSTRACT**

*The intension of the project is to develop fully green biodegradable complex laminates using natural fibers from Tamarind, A leguminous tree which belongs to the FABACEAE / FABACEAE INDIGENOUS family. It is aimed to prepare the laminates, using Tamarind (*Tamarindus indica*) fiber as Strengthener and PVA as the matrix material. Mechanical properties like tensile, flexural strengths are evaluated as per ASTM standards. It is aimed to find the potential of natural fibre complex and promote their production on commercial basis. The whole work aims to develop complex material for improved performance, resulting in the endurance of environment for future generations.*

**KEYWORDS:** *Mechanical Compounds, Tamarind Fibre, Composite Material*