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TITLE OF INVENTION	EVALUATION OF THRUST FORCE AND TORQUE IN DRILLING OF NATURAL FIBER PARTICLE REINFORCED POLYMER
FIELD OF INVENTION	COMPUTER SCIENCE
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Patent Search

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Abstract:

In this work, a new composite plate with natural Abaca, Mudar and Hemp reinforced polymer composite material by using bio epoxy resin was manufactured and series of drilling operation by changing three input factors namely speed, feed rate and depth of cut. During each operation, the output responses namely thrust force were measured. The responses were analyzed using Taguchi method to examine the relation between the input factors and output responses, and also to know the influencing factors on the responses. The data was also analyzed using fuzzy rule model for prediction of responses for a range of input factors. The results showed that factors chosen have significant effect on the responses. The fuzzy model data in comparison with the experimental values shows only a marginal error and hence the was highly satisfactory.

Complete Specification

- Abaca and Hemp (hybrid) particle fibre reinforced composite
- Mudar and Abaca (hybrid) particle fibre reinforced composite
- Mudar and Hemp (hybrid) particle fibre reinforced composite.

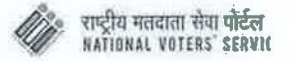
Preparation of Composite Cylindrical ROD

A mold of 60 mm length and 40 mm diameter was created using GI sheet mold. An OHP Sheet was taken and a releasing agent was applied over it and fitted with the side of

the mold and allowed to dry. A glass beaker and a glass rod or a stirrer were taken and * cleaned well with running water and subsequently with warm water. Then, calculated quantity of bio epoxy resin and hardner was added and the mixture was stirred for nearly 10-15 min. Stirring was done to create a homogeneous mixture of resin and accelerator molecules. Subsequently, calculated quantity of fibres was added and the stirring process was continued. Then, the mixture was poured into the mold and rammmed mildly for uniform settlement. The mold was allowed to solidify for nearly 24 h.

Taruchi Quality Loss Function

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