



Alkaline Treatment Effect on Mechanical Properties *Tectona grandis* wood species

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Abstract : This present work is concerned with effect of alkaline treatment on the mechanical properties of *Tectona grandis* wood species. Mass loss, Tensile strength, compression strength, elongation and hardness were measured at different alkaline (NaOH) concentrations (5%, 10%, and 15%). The result shows that variation in mechanical properties with alkali treatment on *Tectona grandis* wood species at different concentrations. Optimum mechanical properties were obtained at 10% of alkaline treatment is discussed with its structure critically.

Keywords: *Tectona grandis* wood species, alkaline treatment, mechanical properties.

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