

# **Studies on The Influence of Integrated Nutrient Management on Growth and Nutrient Uptake by *Tectona Grandis*.**

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## **ABSTRACT**

The present study involves use of biofertilizer (*AM*, *PSB*, *Azotobacter*) and chemical fertilizer (NPK) alone and in factorial combination to see the effect on growth, biomass and nutrient uptake by *Tectona grandis*. In all the combinations growth, nutrient content was found significantly higher in comparison to un inoculated seedlings but shown variation with treatments. AM + Azotobacter combination was found to be most effective (3.91 times higher the biomass) than other (effective between 28.18- 302.28 %). Azotobacter alone was found least effective (28.18%) in *T. grandis*. P, Cu, Mn, and Zn uptake was found effective while uptake of N, K, Fe, and Mg was found ineffective.

**Key words** : *Arb Mycorrhiza*, *Azotobacter*, Nutrient content and biomass, *PSB*, *Tectona grandis*.