

## **Relationship between tree height and diameter at breast height for a 16-Year old stand of *Hopea Kerangasensis* in Sarawak**

### **ABSTRACT**

Information on tree height and diameter at breast height (DBH) are important for estimating growth in the future. A study was undertaken to develop a relationship model between height and DBH of *Hopea kerangasensis* which was planted in an experimental plot of UPM Bintulu Campus, Sarawak. The relationship between tree height and DBH can be depicted in a form of power function model,  $H=75.519 \text{ DBH}^{1.009}$ , with more than 91% of the variation in tree height can be explained by DBH. Validation process also showed that there was no differences between modeling and validation data (p value=0.563), meaning that the model is valid.

**Keyword:** Height; Diameter at breast height; Regression; Modeling; Validation