

**FACTORS INFLUENCING YIELD PERFORMANCE IN RUBBER  
PLANTATION: CASE STUDY AT KLPK LADANG BUKIT NGUAN**

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## ABSTRACT

### **FACTORS INFLUENCING YIELD PERFORMANCE IN RUBBER PLANTATION: CASE STUDY AT KLPK LADANG BUKIT NGUAN**

*(Hevea brasiliensis)* actually grow in the wild before it become as a commercial and it naturally grow in the Amazon forest, Brazil. The rubber industry is beginning since year 1877 and the first rubber tree was planted in Malaysia at Kuala Kangsar, Perak with the origin of the rubber seed is from Brazil which collected on 1876. Nowadays, the performance of rubber yield become major concern in rubber plantation industry. The productivity of rubber not be consistent and decrease. The estate company do not achieve their yield target because it get affected through some factors in the rubber plantation industry. The objective of this study to identify the significant differences between factors and yield performance in rubber plantation. This study located at KLPK Ladang Bukit Nguan, Kuala Nerang, Kedah. The data officially collected from KLPK Ladang Bukit Nguan and analyzed by using Independent T-test and One-way ANOVA in the Statistical Package for the Social Sciences (SPSS). In this study, the result showed that all the factors are significant difference that give effect on the yield performance in the rubber plantation. The clone factor is most significant difference on the yield performance in the rubber plantation. The highest yield is clone RRIM901, 293.58 kg/ha while the lowest yield is clone KT3935, 71.55 kg/ha. The management of rubber plantation industry always need to supervise their tapper when working in the estate and making the right decision on choosing the rubber clone plant in the estate. The management also need to standardize the rate of salary among the tapper to ensure the company achieve the high performance on the rubber yield in the rubber plantation sector.

Keywords: *Hevea brasiliensis*, tapper, clone, salary and yield performance.