

***Design Build Of Temperature Control System In Rubber Exfiltration Process
RSS (Ribbed Smoked Sheet) Based Microcontroller in PTPN XII Kebun
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ABSTRACT

Rubber plant (*Hevea brasiliensis*) is an important plantation plant in both the economic context of the society and the source of non-oil foreign exchange producers for the state. In 2015 the area of rubber plantation Indonesia 3,621,102 hectares, with a total production of 3,145,398 tonnes. Indonesia is the largest rubber producer in the world, although it is currently ranked second after Thailand and Malaysia. The process of drying and preserving rubber (sheet) is done by the fuming means to dry the sheet, giving a distinctive color of chocolate and inhibit the growth of fungi on the surface of rubber sheets. This is due to smoke containing an antiseptic substance that can prevent the growth of mycoorganisms. The process of rubber fuming at PTPN XII of Kebun Renteng Jember is still done conventionally, therefore it is necessary that the equipment can help the worker in the process of fuming the rubber by using a component Mikrontroler proportional method in order to Rubber fumoration process is more optimal. In this study resulted in a study state of 0,037-2.3% with a set point of day 1:43 °c, Day 2:48 °c, Day 3:53 °c, Day 4:58 °c, Day 5:58 ° C.

Key Word: Rubber, Conventional, Control