

## ABSTRACT

**IVAN NUR FAJRI**, this research is entitled "**The Effect of Giving Chicken Manure and POC FERINSA on the Growth and Yield of White Radish Plants (*Raphanus Sativus L.*)**" Advisor I. Nanik Lutfiyah, S.Si., M.Si. supervisor II Dwi Wulandari, S.P., M.P.

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This research was carried out from February to April 2023 at Candikuning II Village, Baturiti District, Tabanan Regency, Bali Province. This research aims to determine the effect of giving POC FERINSA and chicken manure on the growth and yield of white radish plants. The method used was a factorial randomized block design (RAK) with two factors, factor 1 chicken manure with 4 levels, namely: A<sub>0</sub> (control), A<sub>1</sub> (7.5 tonnes/ha), A<sub>2</sub> (11.25 tonnes/ha), A<sub>3</sub> (15 tons/ha) and factor 2 POC FERINSA with 4 levels, namely: F<sub>0</sub> (Control), F<sub>1</sub> (50 ml/liter of water), F<sub>2</sub> (150 ml/liter of water), F<sub>3</sub> (250 ml/liter of water) repeated 3 time. The parameters observed were plant length, number of leaves, tuber length, tuber diameter and tuber weight.

The observational data were analyzed using analysis of variance (ANOVA = 5%) and continued using the honest significant difference (BNJ) test. The results of the research showed that the application of chicken manure and POC FERINSA had a significant effect on the growth and yield of white radish plants. The A<sub>3</sub>F<sub>3</sub> treatment (giving chicken manure 15 tonnes/ha + POC FERINSA 250 ml/liter of water) gave the best results in terms of plant height, number of leaves, tuber length, tuber diameter and tuber weight. In conclusion, administering POC FERINSA and chicken manure can increase the growth and yield of white radish plants.

Key words: White radish plants, chicken manure, POC FERINSA

