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The strategy for improving quality of organic fertilizer in integrated waste disposal sites Diponegoro University towards commercial fertilizer

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Diponegoro University was one of universities in Indonesia that was able to manage their waste independently by establishing the integrated waste treatment facility. The amount of organic waste was generated about 5.06 m³/day. Organic waste was dominated by leaf litter with C/N high ratio that caused composting process ran slow and made low quality compost. The composting process was affected by nutrient balance defined as the C/N ratio. The addition of animal manure (sheep and cattle) was used to adjust the C/N ratio and generated high-quality compost. The nutrient content of compost was easily absorbed by plant and applied directly to the soil. Composting was done aerobically for 21 days by using organic waste from Integrated Waste Disposal Sites Diponegoro University. C/N ratio was set between 20–30. Best quality of compost was produced from a mixture of solid waste and cow feces with C/N ratio might be 20. The temperature of the compost increased reach 39 °C on the 8th day. Mature compost achieved at day 14 were identified from parameter NH₄ ⁺–N 0,01 g/kg, NH₄ ⁺–N 0,15, and electric conductivity was 0.79 ds/m. Concentration of C-Organic was 48.24%, total N was 0.246%, P as P₂O₅ was 0.02%, and K as K₂ O was 0.54%. pH mature compost was 7.21. The results of this study showed that the mature compost was reached in just 14 days. Only C-Organic did not meet the quality standards of organic fertilizer in regulation minister of agriculture No. 70/SR.140/10/2011.

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Electrical fire occurs due to various causes such as short circuit, overcurrent, poor contact, and tacking. In addition, when a fire from poor contact progresses, the coating of wire is damaged inducing secondary short circuit or ground, which could lead to complex electrical accidents. Therefore, in this study, to investigate the overload mechanism of an electrical fire due to the poor contact of the screw-type connector of a circuit breaker, the temperature characteristics, surface, and composition of the poor contact wire of the circuit breaker were analyzed depending on series arc, and the possibility as a method for electrical fire prevention was examined.

Keywords: Electric Fire; Heating Characteristics; Poor Contact; Series Arc

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The purpose of this study was to examine whether students' mathematics achievement could be improved through the development of metacognitive awareness when students were exposed to a holistic learning environment. Such environment refers to learning environment which has four interrelated characteristics, namely learner-centered, knowledge-centered, assessment-centered, and community centered. This study employed a survey design involving 333 middle school students from ten secondary schools in one of the states in Malaysia who have been selected by using multistage stratified random sampling procedures. Data were collected through self-reported questionnaire and analysed by using Structural Equation Modelling (SEM) technique. Results indicated that the provision of holistic learning environment was related to the development of metacognitive awareness which consequently led to higher students' mathematic achievement. Educational implications based on these results were discussed.

Keywords: Holistic Learning Environment; Students Achievement

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