

EMPOWERMENT OF KARANG TARUNA FOR TRADITIONAL MARKET WASTE TREATMENT BY IMPLEMENTATION OF FINE COMPOSTING TECHNOLOGY USING CRUSHER MACHINE

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ABSTRACT

Considering the field observation results that conducted around Pasar Pengkol in Boyolali District, this community service activity aimed to solve the main identified environmental and community problem. Waste materials from this traditional market are dominated by vegetables and fruits. Those materials are very potential to be used as one of main raw materials to produce high quality organic fertilizer, that badly needed by local farmers for recent years. Crusher machine is major equipment that should be available to produce organic fertilizer. Based on those reasons, a crusher machine will be designed and fabricated in this program, and for the next stage a transfer of technology regarding fine composting technique will be trained to the local Karang Taruna members.

This program implemented using explanation-discussion method, followed by demonstration and exercise-practical experience method. 25 local Karang Taruna members actively participated in those activities that were run in between July 4th until September 5th 2010 in Kampong Kebon Luwak, Ringin Larik, Musuk, Boyolali.

As the results, a new and well condition crusher machine having 1500x1000x1500 mm dimensions, 18 steel blades, powered by 8 HP diesel engines with 250 kg/h production capacity is available nearby Pasar Pengkol and ready to be operated by the local Karang Taruna members. 25 local Karang Taruna members who actively participated in those activities able to produce organic fertilizer using fine composting technique.