

COMPLETE ORGANIC WASTE HANDLING THROUGH BIOPORI AND STACKED BUCKET SYSTEMS

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ABSTRACT

Based on the situation analysis, several problems were found in the Pedukuhan Nayan, Maguwoharjo, Depok, Sleman areas related to the presence of organic waste that has not been managed properly, in the case of organic waste that has the potential to be used into useful products and has economic value. Therefore, it is necessary to carry out a waste management socialization movement to motivate and train the community to be skilled in managing organic waste thoroughly at the household level through the following objectives: 1) Overcoming waterlogging in the rainy season by creating Biopore Absorption Holes (LRB) to increase water absorption into the soil while making compost; 2) Overcoming the problem of organic waste by training and assisting in making solid and liquid organic fertilizer using a stacked bucket system. Activities are carried out by providing materials and, at the same time, practicing directly making compost using the Biopori Absorption Hole and handling household waste to make solid and liquid fertilizer using a stacked bucket system. Instruction and training will be held on October 8, 2023, and then monitoring will be carried out every 2 weeks for 2 months until the fertilizer is ready. The activity was attended by 45 participants, consisting of mothers and fathers from Nayan RW 24 residents. In general, participants were very interested and showed high enthusiasm for the material and direct practice carried out. This is also supported by customer satisfaction surveys with good ratings from participants. The training activity for making pompos fertilizer using Biopori Absorption Holes and using a stacked bucket system has shown quite significant results, and the community has applied it by managing their respective household waste by making fertilizer using a stacked bucket system and making Biopori Absorption Holes. Based on laboratory results tested at Chem-mix Pratama Yogyakarta, it is known that the compost produced from PkM Regional Development activities using the stacked bucket system contains the nutrients N, P, and K, which are important for plants, and meets SNI standards and Minister of Agriculture Regulation number 261/KTPS/SR.310/M/4/2019 concerning Minimum Technical Requirements for Organic Fertilizers, Biological Fertilizers, and Soil Improvers

Kata Kunci: *organic fertilizer, biopore, stacked bucket, Nayan*