

Increasing the productivity of organic waste processing for the Ngudi Makmur waste bank group, Sumber Hamlet, Balecat, Gamping, Sleman

by Achmad Arifin, Satoto Endar Nayono, Elviana, Beni Tri Sasongko, Virda Hersy Lutviana Saputri

ABSTRACT

The Ngudi Makmur Waste Bank Group in Sumber Village, Gamping District, Sleman Regency is a group of community members who care about processing waste produced by local villagers. The problems faced by this group are the main problems in the field of processing organic waste which still causes air pollution because it is simply thrown in the fields and management in sorting waste is still not good. The solution sought by the service team is in the form of assistance and practice in processing organic waste using an aerobic composting process which includes technological product assets, organic waste chopping machines and compost sieving machines, assistance with machine operation and maintenance. Before composting assistance is carried out, partners are provided with assistance and waste sorting practices. The objectives of this activity are: 1) Providing knowledge and skills in processing organic waste using an effective aerobic composting process to increase waste processing productivity. 2) Provide knowledge and skills about the waste sorting process according to its characteristics and recycling opportunities to increase waste processing productivity.

The output is in the form of assets: 1 unit of organic waste chopping machine and 1 unit of compost sifting machine, operators who have the skills to operate the machine, and skills to sort waste, skills to make compost aerobically, 1 article in the service journal with ISSN (Jurnal JPKM) , 1 news in online media, cooperation/IA manuscript. The activity stages are: (1) collaboration stage, (2) design and construction stage, (3) implementation stage, (4) activity evaluation stage, and (5) mentoring stage. The implementation of this program supports the achievement of Yogyakarta State University's IKU, namely: (1) IKU 2: Students gain experience outside campus; (2) IKU 3: Lecturers carry out activities outside campus; and (3) IKU 5: The results of lecturers' work are used by the community.

Kata Kunci: *Organic waste, waste bank group, aerobic composting, organic waste shredding machine, compost sifting machine*