UTILIZATION OF OIL PALM WASTE FOR THE PRODUCTION OF BLOCKBOARD AND COMPOST AND THEIR ENVIRONMENTAL IMPACT: A REVIEW

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DECLARATION

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In Malaysia, palm oil industry is the most important commodity of this country and become the world's second-largest producer after Indonesia. *Elaeis guneensis* Jacq is one of the most productive oil palm in the world, which can produced 20 to 45 tons of fresh fruit bunch (FFB) in one hectare after 3 years planting (Singh, 2010). With this amount, it’s produced high amounts of high value waste that can be utilized. One of the alternatives is the production of “block board” to reconcile the future demand of the low end furniture from the oil palm trunk. While in agricultural sector, it has proven that the oil palm frond have high potential to be composted to replace the peat moss as the humus amended with the soilless medium of the cauliflower crop. Therefore, in this review paper, we will discuss about the environmental impact when utilized the oil palm waste.

Malaysia mempunyai banyak sumber buangan daripada kelapa sawit yang mempunyai nilai yang sangat tinggi. *Elaeis guneensis jack* adalah variati tanaman kelapa sawit yang paling produktif yang mana mempunyai 20 hingga 25 ton dalam masa 1 hektar selepas 3 tahun daripada tarikh tanaman (singh, 2010). Keadaan ini akan membuatkan penghasilan hasil buangan yang boleh diguna pakai semula. Salah satu alternatif ialah penghasilan perabut daripada batang sawit dalam bidang industry. Selain itu di dalam bidang pertanian, pelepah sawit dipercayai boleh menggantikan tanah gambut sebagai humus untuk dicampurkan dengan sabut kelapa sebagai medium untuk fertigasi. Rumusan ini juga dibuat untuk mengetahui impak penggunaan bahan buang kelapa sawit kepada persekitaran.