

2019

ACADEMIC INTELLECTUAL
INTERNATIONAL INVENTION,
INNOVATION & DESIGN BOOK

Published by : Student Affairs Department,
Universiti Teknologi MARA Kedah,
P.O. Box 187, 08400 Merbok, Kedah, Malaysia.

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ISBN : 978-967-0314-71-6

Printed by : Perpustakaan Sultan Badlishah,
Universiti Teknologi MARA Kedah,
P.O Box 187, 08400 Merbok, Kedah, Malaysia.

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INVENTION

CATEGORY

ECO BOARD

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The ECO board is an innovative alternative to the use of existing natural timber boards by applying green technology towards creating a sustainable environment. The ECO boards are constructed from a combination of sugar cane waste and fruit skins. There are 3 main steps; the preparation of fine seals, the formation of slabs & drying and surface coating using processed fruit skins. The objectives of inventing ECO Board are to reduce the amount of solid waste that goes to the environment, promote recycling the things that can be found around us and reduce school's expenses by self-producing teaching aids using green technology approaches. The novelty of this product is eco-friendly product, non-toxic and safe for everyone, first to combine sugarcane waste and fruit skin in soft board, colour produced naturally by fruit skin, easy to carry around due to its light weight and economically viable to produce. The advantages of this product are tool that is light and easy to carry, ecofriendly product that use non- chemical substances, use natural waste material and very low in costs, rugged and not easily broken and easy to use. Besides that, the durability test between ECO board and commercial soft board were conducted using weights where a ballast is dropped on both surfaces with equal force. ECO board proved to be more durable between the two. Our product has big potential to commercialise as it is low cost, easy to use and can be sold anywhere, especially school, office and anyone for the purpose of posting information.

Keywords: Eco board, sustainable environment board, sugar cane waste, fruit skins



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ISBN 978-967-0314-71-6



9 789670 314716