

INSPIRE TO INNOVATE

International Innovation Competition i2i

2021

INSPIRING AND REVIVING THE
CREATIVE AND INNOVATIVE MIND
IN THE SOUL OF PARTICIPANTS



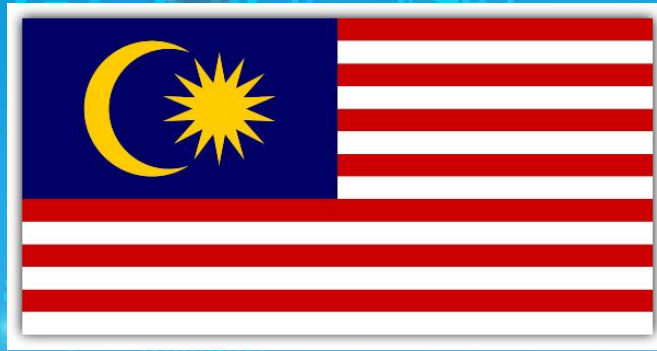
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MALAYSIA - 155



SINGAPORE - 1



BRAZIL - 2



INDONESIA - 4



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GOLD - 76

SILVER - 71

BRONZE - 13



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JUDGES OF I2I 2021

macri

MALAYSIAN
ASSOCIATION
OF CREATIVITY
& INNOVATION

empowering simple ideas



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ORGANIZER SPEECH



**DIRECTOR OF
SEPANG NATIONAL YOUTH HIGH SKILL INSTITUTE, MALAYSIA**



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JUDGE'S SPEECH



MR. HUSSEIN BIN MOHD ARIFF

**CHIEF JUDGE
INSPIRE TO INNOVATE 2021**

PRESIDENT OF
**macri**
empowering simple ideas

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ASSOCIATION
OF CREATIVITY
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BEST AWARD

CATEGORY

PRIMARY SCHOOL



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3RD

MY ASTHMA BUDDY
SJKC LICK HUNG



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AVORANGE FACIAL MASK

SJKT LADANG SILIAU

2ND



SEPANG AVORANGE FACIAL MASK



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EASY WATERPROOF SHOES COVER SJKC CHUKAI, KEMAMAN



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BEST AWARD

CATEGORY

SECONDARY SCHOOL



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3RD

GENERATOR AIR CONDITIONING 4R
(RECYCLE, REUSE, REDUCE & REFORM)

KOLEJ VOKASIONAL SULTAN HJ
AHMAD SHAH



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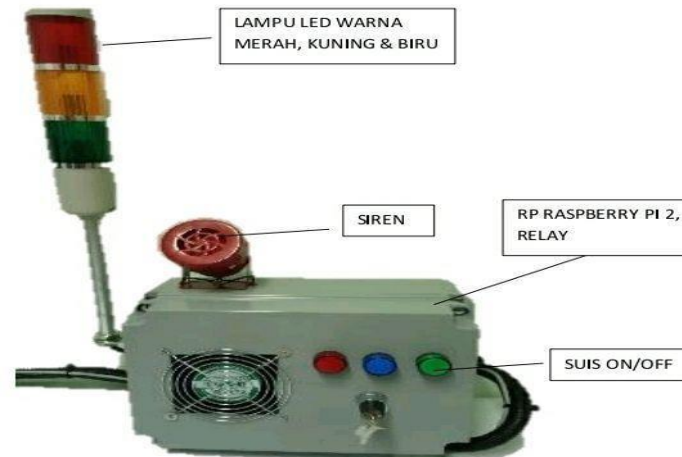
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LIGHTNING ALARM DANGEROUS STRIKE ALERT SYSTEM (LADSA) MRSM TERENDAK, MELAKA

GAMBAR PHOTO LADSA



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INSPIRE TO INNOVATE

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1ST **ECO-FRIENDLY FOAM FOR A GREENER WORLD**

**SM SAINS KEPALA BATAS,
PULAU PINANG**



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KEPALA BATAS SCIENCE SECONDARY SCHOOL
13200, KEPALA BATAS, PULAU PINANG, MALAYSIA

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ECO-FRIENDLY FOAM FOR A GREENER WORLD

Abstract
Latex and eggshell are the main ingredients in making biodegradable foam. Some tests have been done to prove the biodegradability of our foam product. For the natural weathering test, there are formation of cracks and propagation. While for the soil burial test, there are sign of fungus growth on the surface on the foam product. However, there are absolutely no sign of any existence of microbes on the synthetic foam.

Novelty
Have unique characteristics such as high mechanical strength, flexibility, elasticity and low heat build-up.
Help ensure the wellbeing of the environment for future preservation.
Function as a protection from theft, spoilage, breakage.

Problem Statement
Most packaging nowadays, made from synthetic materials (chemical & petroleum based)
Hard to be decompose & take many years to be fully disposed

Objectives
To solve the environmental problem of disposing various synthetic packaging foam which are non degradable and hard to decompose.
Works as a packaging which can be able to used repeatedly.

Methodology
Crushed eggshells → Mix the rubber latex with eggshell powder → Add several ingredients → Baked in oven at high temperature → Pour into the mould

Tests
Natural Weathering Test → Soil Burial Test

Results

References
1) K. Rajakumar, V. Sarasvathy, A. Thamarai Chelvan, R. Chitra, C.T. Vijayakumar, (2009). Natural Weathering Studies of Polypropylene. J. Polym Environ (2009) 17:191-202.
2) Andrea Kaech, (2013). An Introduction to Electron Microscopy Instrumentation, Imaging and Preparation
3) Abbas Yehia, (2004). Polymer-Plastic Technology and Engineering - November 2004, (1-10)

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KEMENTERIAN PENDIDIKAN MALAYSIA
UNIVERSITI SAINS MALAYSIA

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BEST AWARD

CATEGORY

HIGH EDUCATION INSTITUTE



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ECOGREEN HUMUS SOIL MACHINE

INSTITUT LATIHAN PERINDUSTRIAN (ILP)

BKT KATIL MELAKA



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WASQOF ORGANIC DEHUMIDIFIER
IKTBN ALOR GAJAH



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1ST

KIT ADAPTOR UNTUK TANGAN YANG TIDAK
MAMPU DIGENGAM (A-CLIPS)
PUSAT LATIHAN TEKNOLOGI TINGGI
(ADTEC) JERANTUT



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CATEGORY

GOVERNMENT / PRIVATE AGENCY



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EZ LAMP
INSTITUT LATIHAN PERINDUSTRIAN
(ILP) KOTA KINABALU

Ez Lamp



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FLOOD DETECTOR DEVICE
INSTITUT KEMAHIRAN MARA (IKM)
KOTA KINABALU



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“AVOID THE RISK OF ELECTRIC SHOCK”

UNIT KAWALAN SENJARA

AVOID ELECTRIC SHOCK

FLOOD DETECTOR DEVICE

INNOVATION

Early stage safety to consumers during floods

SHAHIN BIN JULMIPLI
Lecturer in Electrical Engineering

MOHD ARIFFEN BIN AMIRUL
Lecturer in Electrical Engineering

SABARUDDIN BIN SARI PUDDIN
Lecturer in Electrical Engineering

SKILLS FOR EXCELLENCE
GROWING INNOVATION FOSTERING ENTREPRENEURSHIP

f t i y @myIKMKK

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AEDS BIOBASED FUEL (ABBF)
MAJLIS PERBANDARAN SEPANG (MPS)



SEPANG INNOVATION TRENDSETTER (SIT)
EN KUZAINI BIN HAMIDON



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BEST AWARD

CATEGORY

OPEN CATEGORY



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3RD

DRESS ME FANCY

SK BUKIT TUNGGAL / SK BUKIT TUMBUH /
SK BUKIT WAN



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LEXSSA

PEJABAT PENDIDIKAN DAERAH (PPD) KOTA KINABALU



WRPC
Writing and Publishing Committee



**Inovasi
KIT LEXSSA**

Manual Pengguna

Kata Semangat Semak

4 buah Buku

Carta Suku Kata

CD Lagu

Roda Suku Kata

Set Kit LEXSSA

Carta Abjad LEXSSA

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1ST

KIT PEMBELAJARAN 4IR
BAHAGIAN PENDIDIKAN MENENGAH,
IBU PEJABAT MARA



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INSPIRE TO INNOVATE

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BEST VIDEO
AWARD



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EZYLET TEMPLATE

KOLEJ VOKASIONAL DATO' LELA MAHARAJA



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REDMI NOTE 8 PRO
AI QUAD CAMERA

METADOLOGI EZYLET TEMPLATE

Penggunaan pembantu belajar penting dalam pengisian latihan, jadi kita mendedahkan untuk menghasilkan EZYLET TEMPLATE dengan idea bahawa pembantu ini merupakan satu alat berkesan bagi para pelajar dalam menghasilkan writing.

KELEBIHAN EZYLET TEMPLATE

- Ezylet template ialah dokumen terus besenar dengan ukuran seperti standard pembantu di pasaran.
- Ezylet template ini berkehadapan Reka-bina berbilang jenis, bahan lecah dan mudah digunakan.
- Memudahkan pengisian parikan sebelum pengisian akhir.
- Mengalirnya penggunaan aturan penama yang berkesan.
- Memenuhi keperluan pengguna dalam bidang kejuruteraan.

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WASQOF ORGANIC DEHUMIDIFIER
INSTITUT KEMAHIRAN TINGGI BELIA NEGARA
(IKTBN) ALOR GAJAH



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MOTORCYCLE ENGINE SERVICE STAND INSTITUT KEMAHIRAN BELIA NEGARA (IKBN) JITRA

1ST



Therefore, its easier to carry out motorcycle engine service
and improving work efficiency.



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BEST OF THE BEST



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**KIT ADAPTOR UNTUK TANGAN
YANG TIDAK MAMPU DIGENGGAM
(A-CLIPS)**

**PUSAT LATIHAN TEKNOLOGI
TINGGI (ADTEC) JERANTUT**



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