

## **A New Development of Natural Fibre as an Oil Absorbent Pad**

**Ismila Che Ishak**

Senior Lecturer, Institute Marine Engineering Technology, Universiti Kuala Lumpur of Malaysian Lumut, Perak, Malaysia

**Nurul Sila Muhammad Sukri**

Institute Marine Engineering Technology, Universiti Kuala Lumpur of Malaysian Lumut, Perak, Malaysia

**Nurfatin Asma Mohamad Noor**

Institute Marine Engineering Technology, Universiti Kuala Lumpur of Malaysian Lumut, Perak, Malaysia

**Nur Narisya Irwayu Mohmad Marsi**

Institute Marine Engineering Technology, Universiti Kuala Lumpur of Malaysian Lumut, Perak, Malaysia

**Muhammad Abdul Munaim Mohd Idrus**

Institute Marine Engineering Technology, Universiti Kuala Lumpur of Malaysian Lumut, Perak, Malaysia

**Asmalina Mohamed Saat**

Institute Marine Engineering Technology, Universiti Kuala Lumpur of Malaysian Lumut, Perak, Malaysia

### **Abstract:**

Oil pollution in our oceans is one of the biggest environmental problems the world is facing today. When oil spills occur, they don't just harm marine life but also affect people's health, damage the fishing and tourism industries, and hurt the economy. Most current clean-up methods rely on synthetic material which is costly. This research aims to create a new kind of oil absorbent pad made from natural fibers like kapok and corn husks. These materials are not only biodegradable and affordable, but they're also surprisingly effective. Each oil absorbent pad is made with 16% kapok and 16% corn husks, offering a simple yet sustainable solution for small-scale oil spill cleanups at Tier 1. By using natural fibers it is hoped to reduce the impact of oil pollution, protect marine ecosystems, safeguard human health, and ease the economic burden caused by these environmental disasters.

### **Keywords:**

Oil spill, oil absorbent pad, natural materials, marine pollution, Tier 1.