

# **DESIGN AND INNOVATION OF THE BEACH CLEANER**

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## **ABSTRACT**

The beach is the most popular tourist destination, with both residents and visitors from other countries flocking to it. However, the beach is also a problematic location due to the dumping of waste everywhere, which reduces the tourist attractiveness. So I suggest a method that involves cleaning the beach with a Beach Cleaner powered by human energy. This chore of clearing debris from the beach may be greatly aided by the use of a Beach Cleaner. The Beach Cleaner is made of steel, and using the belt V, as well as the hook that will carry the trash, will move in rhythm with the movement of the pushed tyre, thanks to a gear system mounted on the connecting route on the front tyre. Finally, this Beach Cleaner may assist boost beach prioritisation while also increasing the environmental friendliness of a beach.

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# CHAPTER ONE

## INTRODUCTION

### 1.1 Background of Study

The beach is the highest tourist attraction that is often visited by tourists whether locals or foreigners. However, the beach is also a problematic place that is the dumping of garbage everywhere by irresponsible human beings so it will cause pollute the beach also from that it can also cause pollute the beach water too [10]. This impact will make swimmers sick and hurts coastal economies. Illnesses associated with polluted beach water include stomach flu, skin rashes, pinkeye, and respiratory infections. If trash is dumped on the beach and enters the beach water, the oxygen in the water may be diminished. As a result of the shortage of oxygen, marine life suffers. Seals, dolphins, penguins, sharks, whales, and herring might all perish. Bottles and other plastics, especially bags, have the potential to smother or strangle aquatic life [10]. As a result, we must clean the beach because it is the source of the problem that might lead to beach pollution.

### 1.2 Problem Statement

Beach pollution is caused by waste scattered on the beach which throwing away by a irresponsible human, which it detracts from the beach's natural attractiveness. To minimize this problem, I propose a one suggestion which can help us clean the beach which that involves using human energy to clean the beach with a Beach Cleaner. Beach Cleaner is a convenience that may be used to clean the dirty beach using this facility which running by human energy.