

Project Report: Domestic Decorating Home ornaments Made using Reused Pollutant Materials

1. Introduction

1.1 Background

Home decoration is a significant aspect of interior design, encompassing a range of materials and styles. In the recent years, plastic materials have gained popularity due to their versatility, affordability, and ease of maintenance.

We come up with this idea to reduce the amount of plastics in the environment.

1.2 Objectives

The objective of this project is to explore the use of plastic materials in domestic decorating home ornaments, highlighting their benefits, challenges, and potential for innovation.

2. Literature Review

- Early home decoration relied on natural materials like wood, stone, and ceramics. With the industrial revolution, synthetic materials emerged, changing the landscape of interior design.
- Plastics to gain popularity in the mid-20th century due to their versatility and affordability. Their use in home decoration has since expanded significantly.
- Plastic materials offer many advantages including cost effectiveness, resistance to environmental factors and ease of cleaning.
- Recent innovations in plastics have led to the development of new more sustainable began options

Materials used

- Material Characteristics
 - Types of Plastics:

- Acrylic (PMMA): **Known for its clarity and durability, often used in modern decorative items like lamps and frames.**
- Polycarbonate (PC): **Highly impact-resistant and often used in items that require strength, such as protective covers and structural decorations.**
- PVC (Polyvinyl Chloride): **Flexible and cost-effective, used in a variety of decorative applications including holiday ornaments and flexible wall decals.**

- **Properties:**

- **Durability:** Plastic ornaments are resistant to breakage and wear, making them suitable for high-traffic areas.
- **Flexibility:** Plastics can be molded into various shapes and sizes, allowing for creative and customized designs

Glass

It is durable though not resistant to breaking. Glass bottles have a good design that make them suitable to make ornaments like glass vases

Cost Analysis for additional molding and assembling materials

item	Unit	Cost	Quantity	Total
Glue		5000/=		5000/=
Threads		5000/=		5000/=
Scissors		5000/=		5000/=

Date	activity	Person charge	Cost of activity	purpose
20 /8/2024	Formulating literature review	Luswata Gabriel	Research based	To build more knowledge on the impact of the project
25/8/2024	Research on the number of people affected by high levels of plastic pollution	Kyambadde JUde	Revision based	To know the effect of plastics on the environment
22/9/2024	Formulation of the production process	Sabiti Paul	Revision based	To have procedure to formulate items

22/9/2024	Going to the lab technician	Sabiti Paul	Interactive based	To get need requirements
22/9/2024	Buying purchasable materials	Mulindwa regan	Awareness of price of materials	To obtain purchasable materials
1/10/2024	Formulate home ornaments	Ddumba Elijah	Service research based	To formulate designs of the product

7/10/2024	Researc h on the risk factors of the producti on process	Luswata Gabriel	Safety based	To identiy and mitigate safety challenges
14/10/2024	Researc h about uniquene ss of product	Luswata Gabriel	Research based	To prevent copy right
15/2/2024	Impleme ntation of project	Ddumba Elijah	Interactive based	To test efficiency of product

25/3/2024	Obtaining feedback from sample users and sustainability of project over other products	All group members	Writing skills	To express opinions on project and identify capability for long term and short-term use
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Disciplines Integrated In project

ICT: we shall use the internet to browse for all possible materials we can use to make our decorations

Biology: we shall refer to biology to find out how plastics affect soils

Chemistry: we shall refer to chemistry to find out more nonbiodegradable that can be used in our project

Art and design: to formulate designs for the decorations

Mathematics: to calculate budget for materials

Cross cutting issues

1. Social economical issues

Our project can encourage the buying and selling of recycled plastics which can help elevate people who collect plastics

2. Environmental Awareness

Reduced plastic littering due to the value that is created through the selling of used plastics

3. Citizenship and Patriotism

Keeps the country clean promoting every one right to cleanliness

Skills achieved

1.Critical thinking and problem solving

We predict that our project will use the readily available plastics to make eco friendly recyclable home ornaments which are cost friendly

Through the identification of materials needed

2.Creativity and Innovation

Our project intends on utilizing the littered plastics and other pollutants in the environment to design home ornaments in different shapes and sizes