

## **INTRODUCTION**

The purpose of this proposal is to address the issue regarding plastic waste and its negative impact on the environment. The proposal outlines the solution to reuse plastic waste (more preferably Plastic bottles that are made up of polyethylene terephthalate such as regular water bottles and soft drink bottles) to create garments i.e T-shirts, jackets, pajamas..etc which will help reduce amount of plastic waste that ends up contaminating landfills and oceans.

## **PROBLEM STATEMENT**

The amount of plastic waste generated by humans is a major environmental problem and the main reason of Ocean and land pollution. Plastic waste takes many decades to decompose and can cause harm to marine and land animals and ecosystem. Plastic pollution cause harm to Marine life because they mistakenly ingest it, toxic chemicals in plastic leach into environment contaminating soil water and food resources, lead to significant economic cost such as lost tourism, damage ecosystem, reduce biodiversity and contribute to climate change by releasing greenhouse gases.

## **PROPOSED SOLUTION**

The proposed solution is to reuse plastic waste to create garments. In order to do so,

- Used plastic bottles should be collected. For the collection of used Plastic bottles we can setup recycle bins in different areas of the city and counsel people to throw their used Plastic in it. (It will also reduce plastic pollution)
- Then these bottles are shredded into small fragments by the help of machine.
- These small pieces then thoroughly washed and dried.
- After that they are melted down into pellets and spun into flexible fibers (yarn) which can be knitted or woven to create fabrics.
- These fabrics can be used to make a wide variety of clothes including t-shirts, jackets and even dresses the use of recycled plastic in garment production will help reduce the amount of Plastic waste that ends up in landfills and oceans and will also help reduce the amount of textile waste generated by the fashion industry.

## **IMPLEMENTATION PLANE**

To implement this solution we will need to invest in the necessary equipment and technology to crush and melt down plastic bottles and spun them into fibers. We will also need to work with textile manufacturers to develop fabrics that are made from recycled plastic. Once the fabrics are produced we can work with fashion designers and garment manufacturers to create a line of garments made from recycled plastic. we will also need to develop a marketing plan to promote the use of recycled plastic garments and educate consumers on the environmental benefits of this solution.

## **BENEFITS**

The benefits of this solution are numerous by reusing plastic waste to create garments we will help reduce the amount of plastic waste that ends up in landfills and oceans and we will also help reduce the

amount of textile waste generated by the fashion industry. The use of recycled plastic in garment production will also help reduce the carbon footprint of the fashion industry as it requires less energy and resources to produce recycled plastic fibers than it does to produce traditional fabrics additionally the use of recycled plastic garments will help raise awareness about the importance of environmental sustainability and encourage consumers to make more eco-friendly choices.

## **CONCLUSION**

The reuse of plastic waste to create garments is a sustainable solution to the environmental problem of plastic waste and its cost friendly as well as eco-friendly. The proposed solution will help reduce amount of plastic waste that ends up in landfills and oceans and will also help reduce amount of textile waste generated by the fashion industry