

SHUN PLASTIC



AVOID PLASTIC BAGS



**USE PAPER BAGS
TO CONSERVE OUR ENVIRONMENT
FOR FUTURE GENERATIONS**

The Team leaders behind the Project



Introduction To Plastic

Plastic is a term that covers a range of synthetic or semisynthetic polymerization products. The first plastic based on a synthetic polymer was called Bakelite and was created by Leo Hendrik Baekeland in 1907.

The development of plastics has come from the use of natural materials (e.g., chewing gum, shellac) to the use of chemically modified natural materials (e.g., natural rubber, nitrocellulose) and finally to completely manmade molecules (e.g., epoxy, polyvinyl chloride, polyethylene).

Plastics are polymers: long chains of atoms bonded to one another. These chains are made up of many repeating molecular units, or "monomers". The vast majority of plastics are composed of polymers of carbon alone or with oxygen, nitrogen, chlorine or sulfur in the backbone. (Some of commercial interest are silicon based.)

The backbone is that part of the chain on the main "path" linking the multitude of monomer units together. To customize the properties of a plastic, different molecular groups "hang" from the backbone (usually they are "hung" as part of the monomers before linking monomers together to form the polymer chain).

This customization by pendant groups has allowed plastics to become such an indispensable part of twenty first-century life by fine tuning the properties of the polymer.

Problem In Hyderabad-India

1. There are more than 150 factories in Andhra Pradesh which produce polythene bags. More than 150 million plastic bags are thrown away.
2. As a result plastic bags are found easily, they are light, strong, water proof, and easily portable.
3. Plastic bags are being thrown away which is a hazard to the environment.
4. On the survey which we have conducted we found that :-
 - 80% :- Not educated or aware of effects of plastic
 - 10% :- Forced to use plastic
 - 10% :- Aware but not bothered about the effect

Our Solution

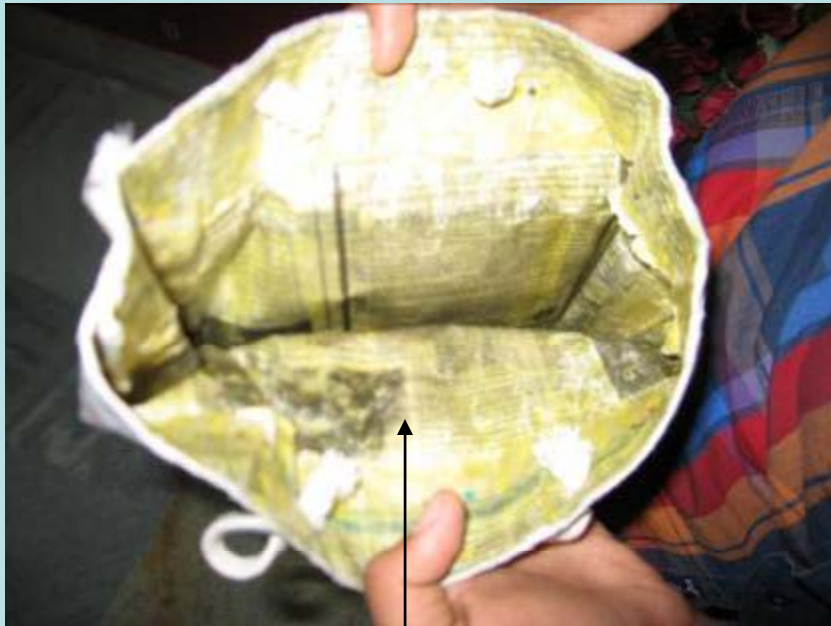
The Solution we have come up with :-

Since the plastic items are being disposed of into garbage sites. We have also collected the waste plastic items and sent them for re-modeling to make items such as chairs tables etc

The paper (used paper, waste paper, newspaper) which was thrown away was recycled in recycling units and were converted into paper bags as paper bags are bio-degradable.

- 3 To make the Paper bags are strong so we have first lined them with rags to make them strong and then we have coated them with bee wax (waste got from honey of bee's) to make them water proof.

Bags Made By Us



Bee Wax



Paper Bag

How We Made The Bags

Items Required -

Recycled Paper, Bee Wax, Refined flour, Thick thread ,Rags and Burner.

Procedure

1. Boil the refined flour and allow it to be a thick paste.
2. Take 2 sheets of paper and paste the rag with the refined flour to one sheet of paper.
3. Now using the burner melt the wax in a cup and using a brush apply the wax to the other sheet of paper and let it dry.
4. Now stick the waxed paper to the rag.
5. Fold the paper into half and model it into any shape you wish

Practical Application

- We have traveled around our city and visited a variety of shops like book stores , clothes shops , footwear shops , shopping centers , food centers etc and have educated them about the harmful effects of plastic and have given samples of our bags and asked them to use only eco-friendly bags.
- We have congratulated the people who are already using paper bags.
- We have educated them on how to dispose plastic.
- An awareness on how to reuse the already existing plastic instead of dumping it in the garbage.
- We have influenced a few people to set up plastic collecting centers like our school where they collect plastic and send them into the right hands.
- We have also guided people to set up paper collecting stations in many colonies.

Results Of Following Our Project

- Paper will not be wasted and it would be recycled which would reduce the requirement for more new paper. This would eventually reduce the cutting of trees.
- The awareness that we brought will eventually stop usage of plastic and people will replace it by eco-friendly bags.
- There would be plastic being used again and again which would eventually stop the making of plastic.
- A lot of energy would be conserved which is being used for making of plastic

Pamphlets we distributed

PLASTIC –A SILENT ASSASIN

- **What is plastic?**

Plastic is a term that covers a range of synthetic or semi –synthetic polymerization products.

- **WHY people use plastic?**

- 1.Cheap
- 2.Easily available
- 3.Water proof
- 4.Light weight

- **What are EFFECTS of Plastic?**

- 1.Harmful effect on soil, water and air.
- 2.Causes cancer in people
- 3.Depletes the ozone layer
- 4.Releases hydrogen cyanide when burnt

- **How to PREVENT or to reduce harmful effects?**

- 1.Use bio-degradable material
2. Never burn plastic
- 3.Ban use of polymer bags in malls, shops, homes etc..

- **Slogan: *Start using cloth / Jute / Paper bag***
Stop using Plastic bags

Thanking You

Project By

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