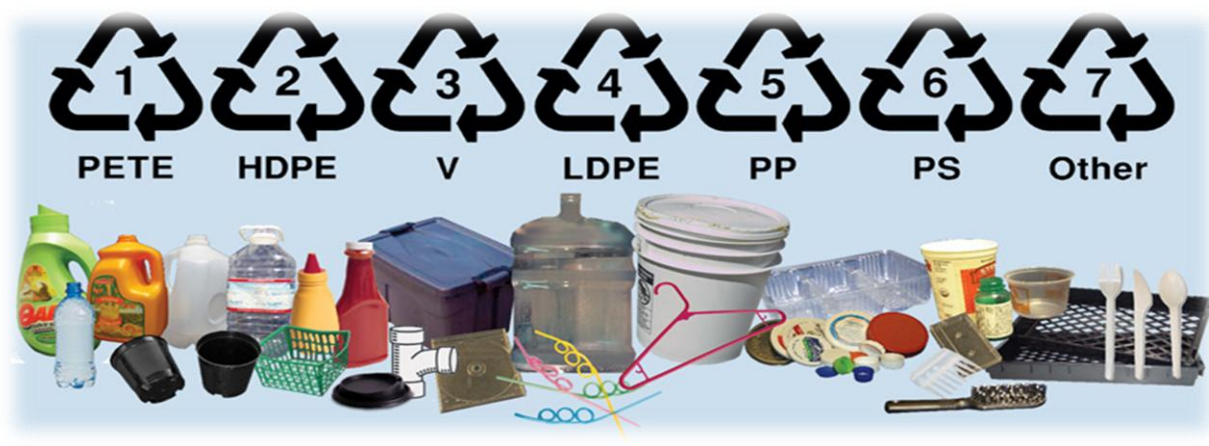


Plastic recycling



About plastic: Plastic is a general name given to various polymers used for making moulded products and product packaging. All India Plastic Manufacturers' Association estimates that the plastic consumption will increase to 20 million tonnes a year in 2020 from current consumption of 10.7 million tonnes per year.

About plastic recycling: For the plastic recycling to be useful, it is important to know which polymers can be re-cycled and which cannot be re-cycled as easily. There are broadly two kinds of polymers; Thermo-sets and Thermoplastics.

Thermoplastics can be heated, melted, and moulded as many times as needed, and examples of thermoplastics are; Polyethylene, Polypropylene, PVC, Teflon and Nylon.

Whereas, thermo-sets cannot be re-moulded, after being heat moulded, initially. However, by crushing the objects into a fine powder form it can be used as fillers in reinforced thermo-sets. Examples of thermo-sets are; Epoxy resins used for casting and encapsulations, Urea formaldehyde used for electrical fittings, handles & control knobs, adhesive, etc.

Market for re-cycled plastics		
Polymer	Re-cycled form	User industry
PET	Washed flakes	Polyester fibre manufacturers, Fabric manufacturers, PET bottle manufacturers.
HDPE	Washed flakes/ Powder form/ original form of the product	Pens, Detergent and Oil containers, Toys, Plastic bags, etc.
PVC	Washed flakes/ Powder form	Building panels, flooring, speed bumps, etc.
PP	Washed flakes/ Powder form	Brooms, Automobile battery cases, dust bins, etc.

Budget: A 300 KG per hour, PET recycling plant can be established within Rs. 50 Lakhs with around Rs. 30 Lakhs for plant and machinery. The capital requirement is however exclusive of land.

Report coverage

1. Market analysis – (info on Potential user industries, market size, growth factors, etc.)
2. Competitive landscape (Info on: Number of players, pricing, capacity, etc.; on current market players in the target location)
3. Technical know-how on segregation and processing. (Through industry experts)
4. Location analysis (with a view to source raw material and to reach market)
5. Raw material sourcing from various locations, waste collecting services, costs, etc.
6. Approvals and Regulatory requirements
7. Machinery required / Quotes from suppliers
8. Advice on initial viable scale of business
9. Capital requirements, profitability
10. Profitability projections for the coming years

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