



20 PROJECT PROFILES ON PLASTIC PRODUCTS



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ANNEXURE

- I **MACHINERY & EQUIPMENT SUPPLIERS**
- II **RAW MATERIAL SUPPLIERS**

P R E F A C E

The economic reforms initiated in 1991 laid the foundation for achieving higher economic growth. Consequently, Indian Polymer Industry has emerged as one of the fastest growing sectors in the last decade. Products made from plastics are widely used in Packaging, Agriculture, Automobiles, Teletronics, Roads and Building, Medical Applications etc. because of its functionality, cheaper and economical, aesthetics appeal, inert to Chemicals, light in weight etc. Products manufactured are much cheaper to other materials therefore, these are affordable to common man. These are widely used for various domestic and industrial applications. New Polymers have been developed, from them different products were produced to meet the growing demand from various sectors which required high tech products and with specified quality and specifications. Continuous innovation has led to use of plastics which has helped to improve quality of life through Internet, Globalization increased speed of communication, electronic entertainment, Nano technology, Space technology, faster means of transport, advanced surgical equipments etc. With the use of plastic in bulk quantity, the life style is changing at a much faster rate.

The present per capita consumption of plastic in our country is around 4 kg., which is very less, as compared to Global average consumption of 24 kgs. It is expected that India would be ranked third just behind USA and China consuming around 125 lakhs Tons of Plastics by 2010. Thus the Plastic industry has very good future and great opportunities to do business in the newer products apart from the traditional items.

The major suppliers of LDPE/HDPE/HMDPE & PP are RIL, GAIL, Haldia etc. The present installed capacity for various polymers is around 45.00 lakhs Tons, which is likely to increase to 67.00 lakhs Tons by 2010 and 85.00 lakh Tons by 2015. However, the demand at present is around 70.00 lakh tons, which will be increased to 125.00 lakh tons by 2010 and 220 lakh tons by 2015. In our country around 15 companies supply various polymers. There are around 25,000 polymer processing units all over the country with around 75% in the extrusion sector; 18% in Injection Moulding; 5% in Blow Moulding and

rest in Rotomoulding etc. The industry provide employment to 30 lakhs persons directly and indirectly.

With the change in the material substitution, changing in the consumption pattern, plastic have very good potential for the future

PLASTICULTRE:

The major growth sector is in

- Agriculture
- Green house
- Mulching
- Nursery Bags
- PE & PVC Pipes.

Plastics in Agriculture



PACKAGING:

Around 30% of horticulture products are wasted every year due to inadequate storage and transport infrastructure. Processed food consisting of semi processed and ready to eat/packed food industry is estimated to be close to Rs. 4000 crores.

Plastics in Packaging



The major growth in the sectors are-

- Material Substitution
- Conservation of natural resources
- Large Agriculture output

CONSUMER DURABLES

Growth in the sector is mainly driven by

- Medical Appliances
- Electrical Appliances & electronic goods
- Furniture Industry
- Booming Automobile Industry

Plastics in medical Appliances



Plastics in Automobile & Aerospace



INFRASTRUCTURE

The Government of India has laid greater emphasis on infrastructure development and many fast track projects are envisaged.

Huge investment being done in some of the projects are -

- Telecom (Additional Basic lines)
- Power (Power generator & transmission Capacity)
- Road (National Quadrangle)
- Ports (Additional Cargo handling facility)

Plastics in Buildings & Roads



PLASTIC FOR THE 21ST CENTURY

The usage of Plastic have been in all sectors during the last few years. We drive cars with plastic product, we wear eyeglasses with plastic lenses, we sip water from plastic bottles, connect/talk with friends/family by cell phones, entertain our self with electronic media etc. Plastic is now entering in conductive plastics, which means plastic can be made of conduct electric current. New efforts and development is going to use conducting polymers as diverse as paper thin Television, and Sensor for Chemical Weapon Detectors. The new development could propel the production of light weight, durable, roll up computer monitors. If they could be made cheaper enough, they can even become our daily news paper.

The consumption of plastic is likely to grow 5 to 6 times between 2000 to 2030 which means tremendous opportunities for new entrepreneurs for setting up industry and providing lot of job opportunities thereby enhancing living standard in the country.

Entrepreneurs can think of Blow Moulded Bottles upto 1 ltr. capacity for packaging of various Pharmaceuticals/ cosmetic products. Similarly they can think of Blow Moulded Container from 5 ltr. to 220 litr. cap. for packing of oils, chemicals, powder etc.

With the help of heavy duty Injection Moulding Machines, items like Buckets, Chairs/Stools, Luggage, Moulded Crates, Dust Bin etc. could be manufactured. Nay, Electronic Components, Air tight containers, Automobile, Electrical Household components, etc. can also be manufactured by smaller type of Injection Moulding Machine.

With the help of Extruder Machine, single/two/three/five layer films, stretch/cling films, laminated sheets, cast film. woven fabric/sacks etc. can be thought of. Similarly, HDPE/LDPE/PVC pipes of smaller diametric to large diameter could be manufactured by Plastic Extrusion Machinery. Other Products like Box strapping, Monofilament Yarn, Profile, Sheets etc. can also be manufactured by Extrusion Machine. Based on various Polymers available in the market, hundreds of plastic product could be manufactured which have demand all over the country.

MSME-DI, Ahmedabad prepared 20 Project Profiles on Plastic Items, which could be started by new entrepreneurs anywhere in the Country.