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आज़ादी का  
अमृत महोत्सव

ENVISIONING A FUTURE READY  
PLASTICS MACHINERY MANUFACTURING

**India@2047**



# Vision

India to be leading supplier & hub of Plastics Machinery sector with **25% world market share**.

To secure the Nation's future by contributing to the growth of renewable energy sector, electric vehicles, improved health care and living conditions through such R&D.

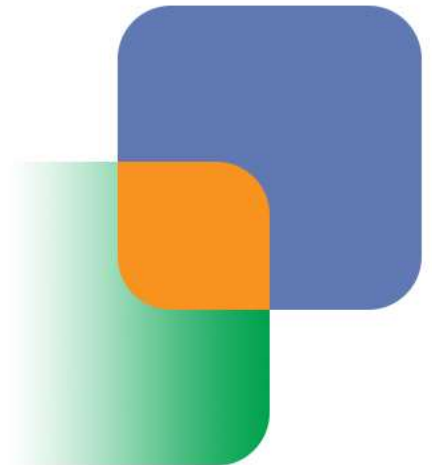
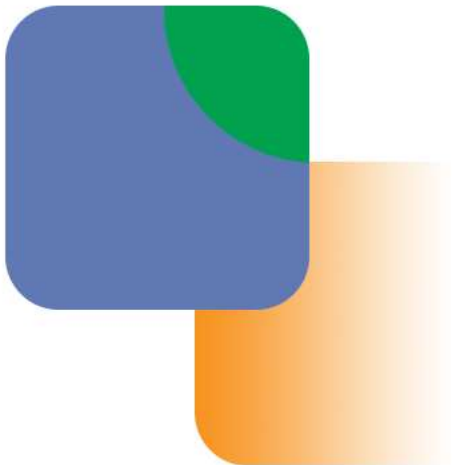
R&D to focus on newer materials, process technologies and application development apart from improvements to existing technology.

# Best Practices / International Benchmark

Attract global shift to India centric

Minimize imports: **Reduce Imports** of Plastics machinery  
from **>40% of India market to <25%**

Attract **foreign investment for manufacturing** of Technology  
parts & advance machineries



# Gaps



## Increase

- Servo and All Electric machine production & Sales – Helps in reducing energy consumption
- Mono Sandwich & Multilayer Machines – helps in consuming waste Plastics
- Plastics Recycling Machinery

- Reduce Dependence on Imports machinery: Indian machinery manufacturers are having capacity and capability to Serve Indian market needs.

- Restrict Secondhand import machines

## New Technologies

- Metal Injection Moulding Machines, High end 4 or more component Injection Moulding Machines
- BOPP, BOPE BOPET Extrusion Lines
- High output & width Multilayer upward and downward extrusion film plants (5, 7, 9 & 11 layers), high output PVC/PE pipe plants
- High end packaging & converting solutions including CI Flexographic printing machines
- Application Solutions (DWC, MDO, Foam Core Pipes etc.)

# Vision 2047

Size (Consumption): Rs. 186,000 Crores by 2047-48, CAGR of 15.0%-18.0%

Turnover (Production): Rs. 174,000 Crores by 2047-48, CAGR of 16.0%-18.0%

Employment: 9.25 Lakhs

## STRATEGY

Design Excellence in Plastic Machineries

Research & Development with Industry-Academia participation.

Industry shall form partnership with Academia to facilitate Skill Development amongst operatives, Engineers and Managers.

Involve institutes in India for technology dissipation to industry

Incentivise R&D. Industry close working with universities for breakthrough tech development

To open an R&D Ministry to focus on innovations, inventions and intellectual property.

Developments in Bio Plastics with International collaborations

# Action Plan for next 10 years with milestones / timelines.



## Scale & skill:

- 3 times production in India
- Collaborate with Institutes for developing & broaden skills required by industry.

## Atmanirbhar:

- Develop infrastructure for Technology intensive manufacturing in India

## R&D Capabilities:

- Increase R&D capabilities of Industry with association of Academic institutes.
- Create culture of Innovation
- Develop strong Intellectual Property to support growth and innovation.

## Technology for future:

- Shift towards energy Efficient Solutions for reduction in energy consumption (Premium efficiency induction motors & Servo motors) for all sectors of Plastic machinery
- Develop sustainable product through sustainable material
- BOPET, BOPP, BOPE Extrusion Lines
- Recycling of materials – Plastics & Metals
- Light weighting of parts and products
- Incorporation of Information Technology for Data Analytics, Industry 4.0 and beyond