

PLASTINDIA FOUNDATION [®] ISO 9001-2008 certified

Report on The Indian Plastics Industry

January 2018 | Edition 2



10th International Plastics Exhibition, Conference & Convention

Feb. 7-12, 2018, Gandhinagar - Ahmedabad, Gujarat, India.

NEXT is HERE!

PRESIDENT'S MESSAGE



I am happy to present this 2nd Edition of the "Report on The Indian Plastics Industry". Plastics Industry Status Report Committee, headed by Mr. Francis Pinto, has taken pains to compile from available dependable sources, statistics relating to Plastics and Polymer Industry. A large number of Plastics Processing Units are in M.S.M.E. and in the unorganized sector. Further, the Plastics industry is a very fast growing sector and various growth drivers are influencing its pace and direction significantly. In such circumstances, the compilation of Industry's statistics and future projections is a very challenging task. The Committee has done its best to provide a very informative report. I am sure this will be useful to the Members of the Plastics Industry. Best Wishes,

Ick Cerescon?

K. K. Seksaria President Plastindia Foundation



CHAIRMAN'S MESSAGE, NATIONAL EXECUTIVE COUNCIL

The Indian Plastics Industry report 2018 is one of the significant attempts by PLASTINDIA FOUNDATION to provide every practising PLASTICS professional an insight into the rapid progress that the industry has taken over the last few years. This report compiled by some of the best minds from the Indian Plastics Industry, headed by Mr. Francis Pinto is truly a valuable document that brings together statistical data from across the board, encapsulating all aspects of the plastics processing, manufacturing and finished goods segment.

On behalf of the entire team of the National Executive Council of PLASTINDIA 2018, I express my gratitude to the Report Committee for working tirelessly to bring this document out in time and coinciding it with PLASTINDIA 2018. This report will be of great relevance and use to all exhibitors and visitors from both India and Overseas, and will give them first hand information on the Indian Plastics Industry.

I would encourage all to study the report in detail, as this could possibly be the blue print that will help shape the growth of the Indian Plastics Industry and also empower our industry with the facts and figures that will boost the progress of Indian Plastics Best Wishes,

Dite

Rajeev Chitalia

Chaírman, N.E.C. PLASTINDIA 2018



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India Overview





India Snapshot

- Population 1.3 Billion
- Largest parliamentary democracy
- Secular state Unity in Diversity
- Independent judiciary
- 23 official languages, business language predominantly English
- Excellent social infrastructure education, healthcare, travel & recreation
- Third largest economy on PPP basis (~USD 8.7 Trillion)

.....land of billion opportunities



Source: World Bank



Demographic Profile

Working Age Population as % of Total Population (Age 15 – 64) India — China — Russia — Brazil — US — EU



- 65.8% of India in the working age group
- Median age 27.6 years

Large potentially productive workforce



Source: World Bank / CIA World Factbook



India among Peers

Country	Area (Million Sq. KM)	Population (Million)	GDP (PPP) Billion USD	GDP Growth % (2016)
🔴 China	9.59	1379	21290	+ 6.7
e Russia	17.09	142	3862	- 0.2
📀 Brazil	8.52	207	3141	- 3.6
South Africa	1.22	56	687	+ 0.3
India	3.29	1281	8701	+ 7.1

India has second highest GDP and highest GDP growth rate among BRICS





Indian Economy

(Figs in %)		2013-14	2014-15	2015-16	2016-17
GDP Growth		4.9	7.2	7.6	7.1
Growth	Agriculture	4.6	-0.1	0.6	4.8
(Constant	Industry	0.7	8.5	10.2	7.0
Prices)	Service	6.9	8.9	9.0	6.9
Inflation	WPI - Average	5.9	6.3	5.6	3.5
Interest Rate	Lending Rate	8.4	10.0–10.2	9.3-9.7	8.9-9.1
Exchange	Re / USD				
Rate	(Annual Avg.)	60.6	62.5	66.3	63.7
Fiscal Deficit	As a % of GDP	4.5	2.4	3.3	3.5



■ Agriculture ■ Industry ■ Services





Outlook – Indian Plastics Industry

Year	GDP Growth	Polymer Consumption Growth	Import Duty
1990-1995	5.0%	12.9%	50%+
1995-2000	6.5%	14.6%	40%
2000-2004	5.9%	5.8%	45%-15%
2005-2012	8.7%	10.9%	12.5%-5%
2012-2017 12 th plan	7.2%	10.6%	7.5%-5%
2017-2022 13 th plan	8%	10.4%	5%-0%

GDP Growth Strong Relation to Petrochemical Growth



Source: PLASTINDIA FOUNDATION



Growth Drivers for India - Key Indicators

- Economic Advantage
 - 10th largest economy globally; 3rd largest by PPP
 - Indian equity market is 4th biggest in Asia
- Demographic Advantage
 - Emergence of middle class : rising household income
 - Growing consumer market : booming retail sector
 - Large workforce : highly skilled and educated
 - Large English speaking population
- Urbanisation
 - 31% -2010 to 35% -2020





- Higher productivity to help India sustain over 8% GDP growth
- Growth sectors: Agriculture, Healthcare, Solar Energy, Consumer Durables, Packaging Sector and Defence
- Automobile production to increase due to domestic and export market
- New joint ventures and increased R&D spending
- "Make in India" initiative to attract investments
- Infrastructure (Rail, Road & Ports) investment government aim to attain global standards







India's International Trade

India Trade (USD Billon)





India – The Vibrant Economy

Source: Ministry of Commerce & Industry, Government of India





India's Trade Basket







Polymer Manufacturing Capacity



Existing/Future – Manufacturing Capacity - Major players (Thermoplastics)

COMPANY	LDPE	LLDPE	HDPE	РР	PVC	PS/EPS	PET	Others	2016-17	% SHARE	2019-20	% SHARE	(Fi
Reliance Industries	205	445	500	2700	725		970		5545	39.36	6545	41.46	
Indian Oil Corp		225	475	600					1300	9.23	2000	12.67	
Haldia Petrochemicals		210	500	390					1100	7.81	1100	6.97	
GAIL (India)		350	570						920	6.53	920	5.83	
HPCL Mittal Energy				440					440	3.12	440	2.79	
IVL Dhunseri Petrochem							480		480	3.41	480	3.04	
Supreme Petrochem						340			340	2.41	340	2.15	
Finolex Industries					270				270	1.92	270	1.71	
Chemplast Sanmar					290				290	2.06	290	1.84	
LG Polymers India						130			130	0.92	130	0.82	
Ineos Styrolution						105		80	185	1.31	185	1.17	
ONGC PetroAdditions Ltd		360	700	340					1400	9.94	1400	8.87	
Mangalore Refinery & Petrochemicals Ltd				440					440	3.12	440	2.79	
Bhramaputra Cracker & Polymer Ltd		110	110	60					280	1.99	280	1.77	
DCW					90				90	0.64	90	0.57	
DCM Shriram					60				60	0.43	60	0.38	
Gujarat State Fertilizers Ltd								12	12	0.09	12	0.08	
Bhansali Engineering Polymers								60	60	0.43	60	0.38	
Others						24	622	100	746	5.30	746	4.73	
TOTAL	205	1700	2855	4970	1435	599	2072	252	14088		15788		

New capacity addition by 2019/20 : 1700 KTA



Source : PLASTINDIA FOUNDATION

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Plant locations of major players



Polymer	2016-17	2019-20
PS/EPS	599	599
LDPE	205	605
LLDPE	1700	2300
HDPE	2855	2855
РР	4970	5670
PET	2072	2072
PVC	1435	1435
Others	252	252
Total	14088	15788

(Figs in KTA)







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India – Polymer Consumption



Polymer Processing Industry Overview



Virgin Polymer consumption in 16-17	15500 KT
India Per Capita Consumption (Virgin Polymer)	12 kg
No of Processing units	~40,000
No of processing Machines	~141,000
Processing Capacity	41200 KT
Processing Capacity CARG	11% last 5 years
No. of plastics machinery manufacturing units	~500
Investment in Machinery	~USD 5 Bn
Investment required for next 5 years	~USD 4.37 Bn (Projected)





Total Polymer Consumption : 2016-17

(Thermoplastic + Thermoset)



Consumption 15500KT (2016/17) 20000KT (2019/20):- 9% CARG



Source : PLASTINDIA FOUNDATION



Polymer Consumption : 2016-17



Engineering Polymers, 638

Others, 143

BOPET, 475

PET (BM), 800

PS/EPS, 375

Thermosets



Consumption : 14550 KT (2016/17)



Consumption : 950 KT (2016/17) → 1090 KT (2019/20):- 4.5% CARG

Source : PLASTINDIA FOUNDATION

Engineering Plastics Consumption 2016-17





Source : PLASTINDIA FOUNDATION

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High End Engg. Polymers Production

		CAPACITY	
MANUFACTURER	PLASTICS	(TPA)	MAJOR APPLICATIONS
	Polyether Sulfone		
Solvay Specialties	(PES)	2000	Chip Trays, Electricals, Membranes
(Panoli)	Polyether Ether		Stock Shapes, E&E, Cables, Gen.
	Ketone (PEEK)	1000	Engineering, Oil & Gas
Solvay/Rallis	Polyether Ketone		
(Ankleshwar)	Ketone (PEKK)	110	CF Composites for Aerospace
	Polyether Ketone		
	(PEK)	100	Stock shape, Cable, Gen. Engineering
Charda Chamicala			
	Polyether Ketone		Electronics, Oil Fields, Gen.
(Ankleshwar)	Ketone (PEKK)	50	Engineering, 3D Printing
	PolyBenzimidazole		Blends with PEK, Fire Resistant Fiber,
	(ABPBI)	25	Membranes for High Temp Fuel Cells



Note: Mainly for export; local consumption only 10-15% of capacity





Sector wise Polymer Consumption



PE Sector wise Consumption – 2016-17



PE : Demand – 4600KT (2016/17) – 5900KT (2019/20) : ~9% CARG



Source : PLASTINDIA FOUNDATION

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PP Sector wise Consumption – 2016-17





PP : Demand – 4400KT (2016/17) – 6380KT (2019/20) : ~13% CARG



Source : PLASTINDIA FOUNDATION

PVC Sector wise Consumption – 2016-17



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PET Sector wise Consumption – 2016-17



PET : Demand – 1275KT (2016/17) – 1650KT (2019/20) : ~9% CARG

Source : PLASTINDIA FOUNDATION

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Masterbatch

Masterbatch – Current Scenario

Masterbatch	Demand (KT)			
	2016-17	2019-20		
White/Black/Colour/Additive	360	605		
Filler Masterbatch	762	1035		
Total	1122	1640		

Masterbatch manufacturing units in India – about 250nos

Source : PLASTINDIA FOUNDATION

Masterbatch – Growth drivers

- Performance masterbatches; cling, anti-bacterial, anti-static, anti-fog, foaming agents, etc.
- Packaging sector
- Infrastructure
- Raffia
- Plasticulture
- Automotive and Appliance

Imports / Exports

Polymer Imports

Source : PLASTINDIA FOUNDATION
Import of Finished Goods 2016-2017





Source : PLASTINDIA FOUNDATION

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Finished Plastics Goods Imports

- Moulded & Extruded goods
- LED Luminaires
- Shapes & Profiles
- Writing instruments
- Floor coverings
- PVC fabricated goods
- PVC leather cloth
- Ropes/Twines/Yarn/Bristles
- Fish nets/Fishing line
- Pipes/Fittings
- Sheets & film

- Laminates
- Poly-lined jute goods
- Moulded & Soft luggage items
- Lenses
- **GRP/FRP** products
- Electrical Accessories
- Bangles/Imitation jewelry
- Optical goods
- Solar PV Modules
- Cine X-Ray films
- Toys/Dolls/Games

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Exports – Product wise 2016-2017



Total Exports From India 2016-2017 : USD 7.6Bn



Source : PLASTINDIA FOUNDATION



Region wise Exports – 2016-2017



Exports of plastic raw materials and processed goods : USD 7.6Bn



Source : PLASTINDIA FOUNDATION

Plastics Raw Material Exports - 2016-17



Total Exports of Polymers during 2016-17: 1362 KT



Source : PLASTINDIA FOUNDATION

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Plastics Recycling





Plastics

Recycling

Iti-utility Product



Plastics Recycling / Recovery

- Number of Organised Recycling Units : 3500+
- Number of Unorganised Recycling Units : 4000+
- Manpower Direct : 600,000+
- Manpower Indirect (includes waste pickers) : 10,00,000+
- Quantum of Plastics Recycled : 5.5MMT





Plastics Recycling / Recovery

Basis:

- Almost 100% rigid plastics waste are recycled
- ~95% PET bottle waste is recycled
- Recycling of imported plastics scrap continued
- In-house plastics scrap utilized in production process not included
- Feedstock recycling (Pyrolysis) and energy recovery through co-processing in cement kiln gained acceptance. ~100 KT in 2016-17 which is projected to go up to 1500 KT 2019-20
- Use of plastics waste in bitumen road construction made mandatory



Plastics Recycling Clusters

- Dhoraji, Gujarat
- Daman
- Vapi, Gujarat
- Dharavi & Bhandup, Mumbai
- Indore, Madhya Pradesh
- Delhi, NCR
- Malegaon & Solapur, Maharashtra



Source : ICPE

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Plastics Recycling / Recovery Option

Pictorial Representation of ISO 15270: 2008 / IS 14534:2016







Rotomoulding – Market Snapshot

- Installed Capacity : 250KTA
- Market size : 235KTA
- Organised Sector Players : 250, Plus many more in unorganised sector
- Percentage growth in 2016-17 around 5%
- Polymers used PE, EVA, PP, PVC, XLPE
- Share of PE 80%
- Overhead tank : Loft tank ratio : 85:15
- ~80% of tanks demand is for < 2000liters



World's largest rotomoulded water tank market





Machinery Manufacturing Industry



Plastics Machinery Manufacturing Industry – Present Scenario

- No. of plastic machinery manufacturing units : ~200
- Domestic market : ~USD 508Million in 2016-17
- Machines installed till Mar 2017 : 141,000
- Installed processing capacity : 41.2MMT
- Employment : 1.2Million (direct + indirect)
- Growth in machinery CARG 2017-18 onwards : 11.1%





Machinery Additions – Up to March 2017





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Installed capacity being ~ double the quantity processed!

(Excludes mortality)



Source : PLASTINDIA FOUNDATION

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PLASTINDIA FOUNDATION Plastics Machinery Demand & Growth Projections

Description	2016-17	2017-18	2018-19	2019-20
IMM	5,300	5,725	6,200	6,675
Extrusion	1,625	1,700	1,775	1,875
ВММ	770	970	1,180	1,425
Total	7,695	8,395	9,155	9,975



Projection for 2017-18 : 7.2%; IMM : 8.0%, Extrusion : 4.8%, BMM : 4.9%



Source : PLASTINDIA FOUNDATION

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Injection Moulding Machinery Capacity Addition

-	Sales	Sales	Sales	Sales
Ionnage Range	2016-17	2017-18 Est.	2018-19 Est.	2019-20 Est.
Linto 110 T	2 200	2 2 2 5	2 475	2 650
	2,200	2,323	2,475	2,050
125-200 T	1,775	1,925	2,075	2,225
220-275 T	400	450	500	520
350 - 450 T	525	575	625	700
500-910 T	340	380	450	500
> 910 T	60	70	75	80
Total	5,300	5,725	6,200	6,675

Projection for 2017-18 : 8%CAGR



Source : PLASTINDIA FOUNDATION

Plastics Machinery : Growing share of Imports

Total Machines Added (2016-17 to 2019-20) : 7.1% CARG





Source : PLASTINDIA FOUNDATION

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Indian technology competes Globally

- Compounding Lines
- Tape Lines and looms
- Multilayer Film plants
- Lamination Plants
- Pipe / Drip extrusion lines
- Injection Moulding Machines

- Blow moulding Machines
- Rotomoulding Machines
- Thermoforming Machines
- Thermosetting Presses
- Compression Presses
- Sheet lines
- Auxiliary equipment
- Machinery is produced to current technologies of energy efficiency, high productivity and through-put.
- Leading Global brands from Europe, USA, Japan, China and Taiwan have manufacturing presence in India, through Joint ventures or fully owned subsidiaries
- Machineries are produced with automation adaptabilities and Industry 4.0 capability
- Indian manufacturers export to 50 countries across the globe, to developing and developed nations.
- Exports stand at USD 150 million and growing at 12%





Opportunities by 2020.....





- Project investment to the tune of USD 12 Bn
- IM, Pipe, Raffia, Films are Growth Drivers

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Auxiliary Equipment





Auxiliary Equipment Industry 2016-2017

Auxiliary Equipment's in Plastics Industry

(No. of Units)

Product	Units
Chilling plant	6000
Mould temp. Controller	1200
Drying System	
- Hot Air Dryer	4500
- Dehumidified Air Dryer	800
Raw Material Conveying System	
- Hopper Loader	9000
- Central Conveying System	150
Volumetric/Gravimetric Blending System	800
Conveyor Belt with Coumting System	600
Granulator	4000
Robot	250
Hot Runners	900



Auxiliary equipment share :10-15% of machinery business



Source : PLASTINDIA FOUNDATION

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Indian Plastics Tooling Industry

Comprising :

In-house Tool Rooms (Captive) - Mostly with Automotive OEM's & Tier 1 Suppliers.

Commercial Tool Rooms (Manufacturers of Plastics Moulds) - 480 nos.

They cater to Automotive, Consumer Durables, Plastics Products such as Houseware, Furniture, Packaging, Electrical & Electronics.

Total Market Size : USD 977 Mn

USD 223 Mn is Captive USD 569 Mn is Commercial USD 185 Mn is Imports





Indian Plastics Tooling Industry

Industry Vertical	USD Mn
Automotive	318
Plastics Products for Market	315
Consumer Applications	142
Electricals	69
Packaging	63
Electronics	46
General Engineering	5
Others	19
Total	977





Industry Growth Drivers

Segment	Current Industry Size USD Billion	Last 5 Year CAGR	Next 5 Year CAGR
Auto OEMs	73	6%	9%
Automotive Components	40	7%	11%
Plastics Processing	20	9%	12%
Electrical Equipments	21	6%	8%
Consumer Durables & Electronics	15	10%	14%
Packaging	5	10%	11%

Key Drivers :

- Expected GDP Projection: 8%
- Indigenization of components by Major OEMs from sectors like Automobile & Consumer Electronics Increasing trust on development capability of domestic CTRs
- Make in India Initiative
- Availability of competent Skilled people, though in lesser numbers
- Growing trend towards shorter production runs and customized products



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Polymer Growth Opportunities





Demand Growth Drivers – Packaging

Growth Drivers

- Food / Processed food
- FMCG items
- Packaged and fast food industry
- Single serve packs/Power packs
- Textiles and Toys



Applications

- Multilayer films
- BOPP Films
- Shrink and Stretch wraps
- Thin wall molding
- Thermoforming
- Blow molded containers



Retail revolution setting pace for growth in packaging



Source : PLASTINDIA FOUNDATION

Demand Growth Drivers – Infrastructure

Growth Drivers

- Building and construction
- Public utilities services
- Mega highway projects
- Rural electrification projects
- Mega irrigation projects
- Smart cities / AMRUTH Cities



- Pipes (gas, water supply, sewerage, OFD, plumbing)
- Storage tanks
- Profiles
- Geotextiles, Geomembrane
- Wire and Cable



The 12th plan envisages investment of ~USD 43 bn for water management;



USD 92 bn for irrigation sector; USD 220 bn for power generation Source : PLASTINDIA FOUNDATION



Demand Growth Drivers – Agriculture

Growth Drivers

- Higher Yield thro' better water management
- Advanced agricultural technology
- Government spending
- Retailers:- farmers joint initiatives
- Distribution channel / Refrigerated storage

Applications

- Greenhouse films
- Low tunnels
- Micro irrigation:- Drip/Sprinkler
- Mulch films
- Crates, Pallets



Bringing about the 2nd green revolution



Demand Growth Drivers-Consumer Durables

Growth Drivers

- Healthy economic growth
- Higher per capita income
- Greater disposable income



Applications

- Appliances:- Washing machines, Refrigerators, TV's, Mobile Phones, Computers
- Household:- furniture & toys
- Office, Restaurant & Stadia Furniture
- Luggage
- Houseware







Demand Growth Drivers – Healthcare

Growth Drivers

- India as a medical tourism destination
- Growing health awareness





Applications

- Heart valves, hearing aids, spectacles, prosthetics, etc.
- Packaging of medicines, devices etc.
- Disposable products:- Syringes, IV sets, blood bags, diapers, bed covers, pillow covers, gowns, masks, gloves etc.







Other Growth Areas

Rigid Packaging



Automotive



3D Printing

Industrial Components









Top Product 10%

✓ Exports:- USD 30 Bn

65.58

Solar PV – High growth opportunity





• National target of 100GW of installation by 2022 and also proactive policies from states like Gujarat are the key drivers for the growth of the solar sector.

- Rooftop Solar PV is also becoming increasingly popular. India expected to reach 40GW in Rooftop solar by 2022.
- Govt. strongly Implementing the Standards for Solar - Increasing awareness
- India has attracted foreign investments to develop solar energy plants



LED : Outlook & initiatives under Make in India



- Market growing ~35% YoY
- Current Imports:- 60%
- Government aggressively driving projects/specifications & implementing standards.
- Under UJALA & ESSL schemes Govt. plans to replace by 2019
 - No. of LED bulbs:- 770Mn
 - No . Of street lights:- 9Mn
- Make not only for India but also for export: Export incentive 2%
- Rationalised 'Duty Structure' for Domestic Manufacturers
- Bulk requirements for Railways, Airport authority, Highways & other large usage projects

Growth Drivers

- ✓ LED Bulbs (Retrofits)
- \checkmark Tube lights
- Street Lamps



Plastic Parks – Existing & Proposed

Plastic Parks	Area (Acres)
Sanand, Gujarat	140
Dahej, Gujarat	100
Narasapura, Karnataka	100
Auraiya, Uttar Pradesh	225
Tamot, Madhya Pradesh	150
Siju village, Odisha	120
Barjora, West Bengal	496
Ibrahimpatnam, Telangana	500
Kannur, Kerala	TBC
Tinsukia, Assam	600
Chennai, Tamil Nadu	300
Panipat, Harayana	TBC




Conclusion



Achievements of India Plastic Processing Industry

- Growth of machinery industry Installed capacity CARG of 11.1% (2016/17 to 2019/20)
- Polymer consumption projected to reach 20MMT by 2020
- Global companies investing in India
- Low import duty on polymer raw materials
- Proposed Government Policies to help growth of plastic industry
 - Technology Upgradation Fund Scheme
 - Plastic Parks
 - MSME & Skill Development





India.....Happening

- Established democracy & stable democratic government with favorable economic policies.
- Young population; median age of 24 years
- Setting up of SEZs to overcome bottlenecks of infrastructure and create business friendly policies
- Large pool of scientific and technically trained manpower
- India, the largest market in South Asia. Robust domestic demand
- Rising income levels and changing lifestyles driving demand for plastics

Together We Prosper!





Summary

- Indian economic fundamentals are robust and continuing amidst uncertainty in global economy
- Huge growth opportunities in India for plastics due to lower per capita consumption as compared to world average
- Flexible packaging industry poised for strong growth, insulated from the current economic scenario due to huge & diversified consumer base
- Planned Infrastructure projects are driving growth in India and these are ably supported by the current and upcoming domestic capacities







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