



TIME TECHNOPLAST LTD.

Bringing Polymers To Life

BSE: 532856 | NSE: TIMETECHNO | ISIN: INE508G01029 | CIN: L27203DD1989PLC003240

Earnings Presentation
Q4 & FY2025

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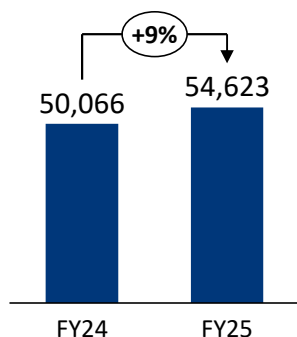
FY25 Financial Highlights



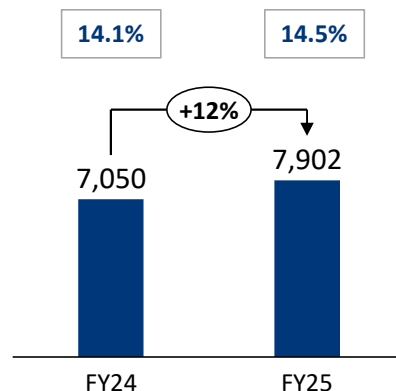
FY25 Financial Snapshot



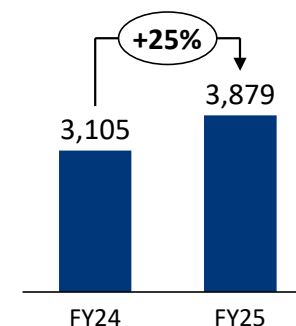
Total Income (₹ Mn)



EBITDA (₹ Mn) and Margin (%)



PAT (₹ Mn)



Particulars	India	Overseas
Volume Growth (13% YoY)	12%	15%
Revenue Growth (9% YoY)	8%	11%
Revenue Contribution	66%	34%
EBITDA Margin	14.6%	14.2%
PAT Margin	6.8%	7.7%
Cash Profit Margin	10.2%	10.6%

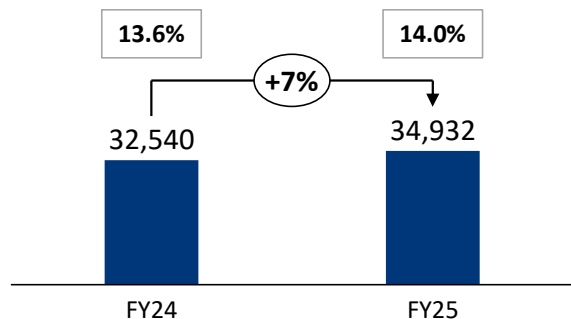
- Value added products grew by 15% in FY25 as compared to FY24, while established products grew by 7%. The company's focus remains to increase the share of value-added products in its revenue and improve margins.
- Total Debt reduced by Rs. 981 Mn in FY25
- Net Cash from Operating Activities in FY25 is Rs. 3,441 Mn

FY25 Segmental Performance (Based on Regulatory Reporting)



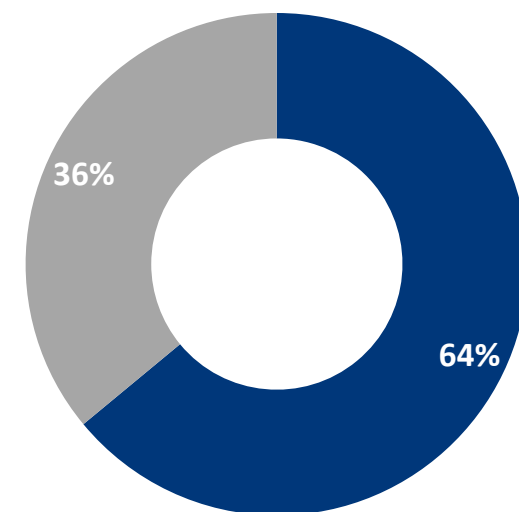
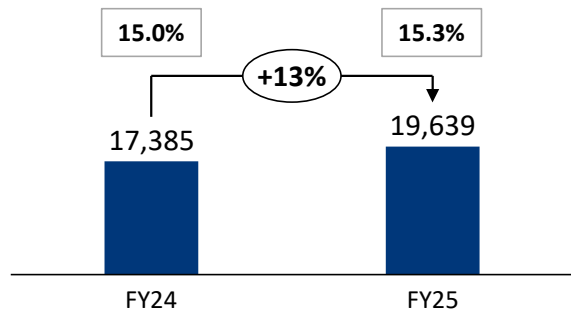
Polymer Products

Revenue (₹ Mn) and EBITDA Margin (%)



Composite Products

Revenue (₹ Mn) and EBITDA Margin (%)



■ Polymer Products ■ Composite Products

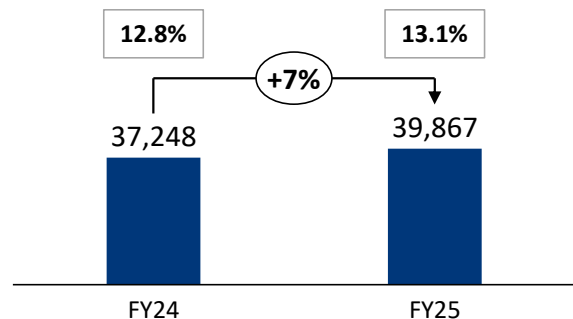
Polymer Products: HM-HDPE plastic Drums/Jerry Cans and Pails, Polyethylene (PE) pipes, Turf & Mattings, Disposable Bins and MOX Films

Composite Products: Intermediate Bulk Containers (IBC), Composite Cylinders (LPG, Oxygen & CNG), Energy storage devices, Auto Products and Steel Drums.

FY25 Segmental Performance (Based on Business Categorization)

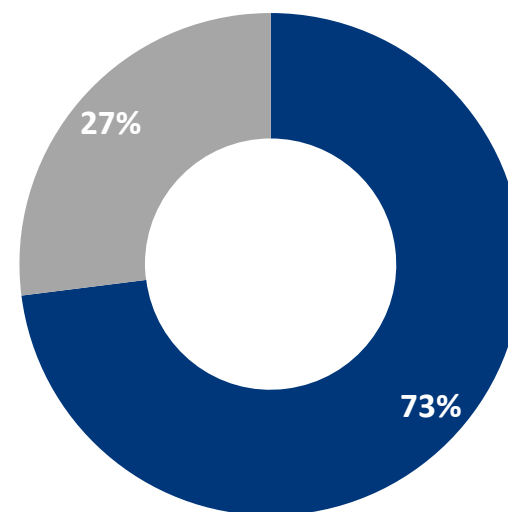
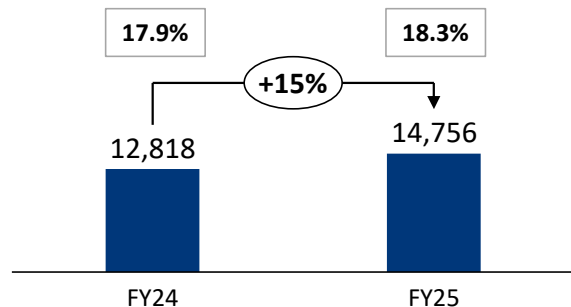
Established Products

Revenue (₹ Mn) and EBITDA Margin (%)



Value Added Products

Revenue (₹ Mn) and EBITDA Margin (%)



Established Products Value Added Products

Established Products: HM-HDPE plastic Drums/Jerry Cans and Pails, Polyethylene (PE) pipes, Turf & Mattings, Disposable Bins, Energy storage devices, Auto Products and Steel Drums.

Value Added Products: Intermediate Bulk Containers (IBC), Composite Cylinders (LPG, Oxygen & CNG) and MOX Films.



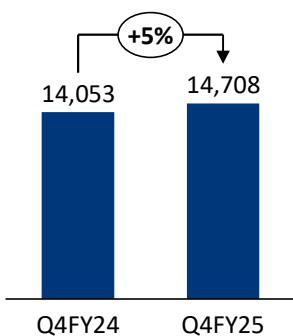
Q4FY25 Financial Highlights



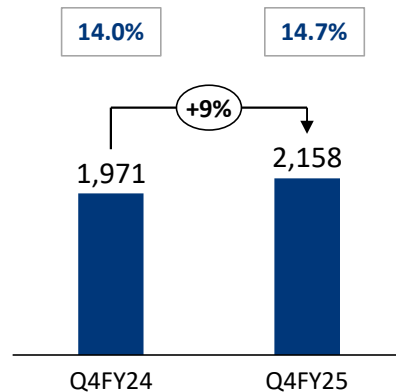
Q4FY25 Financial Snapshot



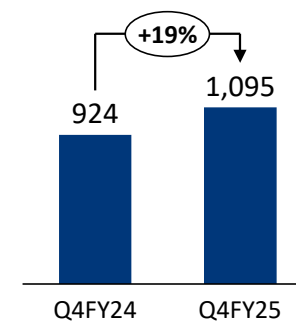
Total Income (₹ Mn)



EBITDA (₹ Mn) and Margin (%)



PAT (₹ Mn)



Particulars	India	Overseas
Volume Growth (11% YoY)	9.0%	15.0%
Revenue Growth (5% YoY)	3.0%	9.0%
Revenue Contribution	69%	31%
EBITDA Margin	14.9%	14.2%
PAT Margin	7.3%	7.7%
Cash Profit Margin	10.4%	10.9%

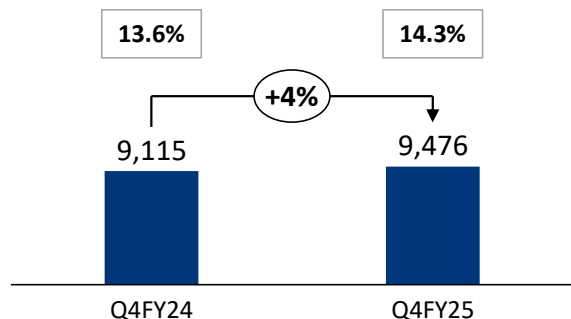
- Value added products grew by 10% in Q4FY25 as compared to Q4FY24, while established products grew by 3%. The company's focus remains to increase the share of value-added products in its revenue and improve margins.

Quarterly Segmental Performance (Based on Regulatory Reporting)



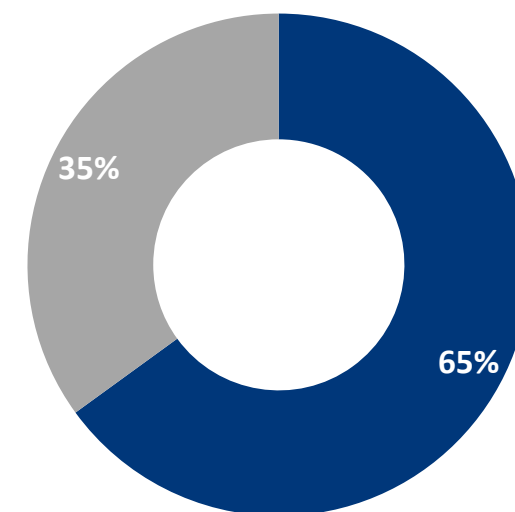
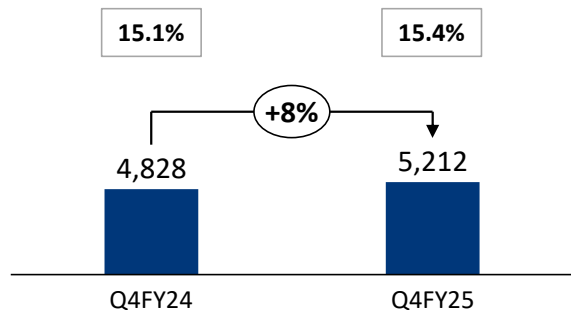
Polymer Products

Revenue (₹ Mn) and EBITDA Margin (%)



Composite Products

Revenue (₹ Mn) and EBITDA Margin (%)



■ Polymer Products ■ Composite Products

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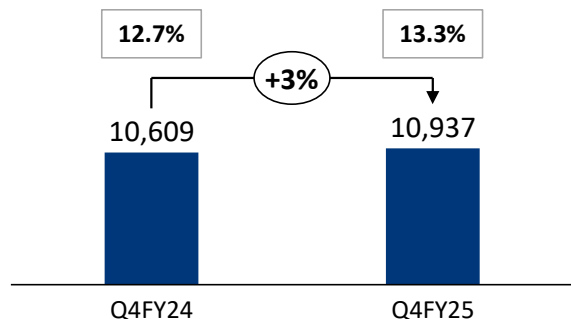
Composite Products: Intermediate Bulk Containers (IBC), Composite Cylinders (LPG, Oxygen & CNG), Energy storage devices, Auto Products and Steel Drums.

Quarterly Segmental Performance (Based on Business Categorization)



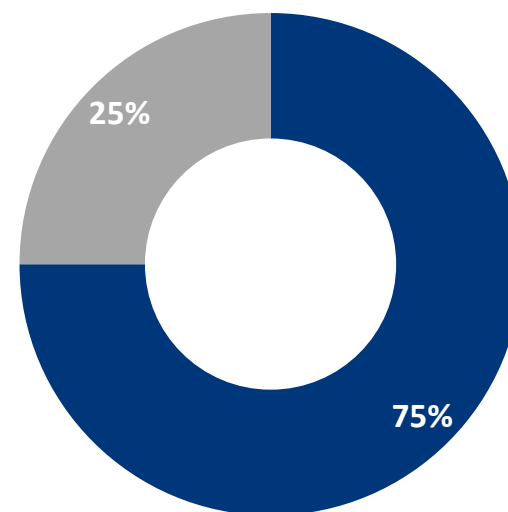
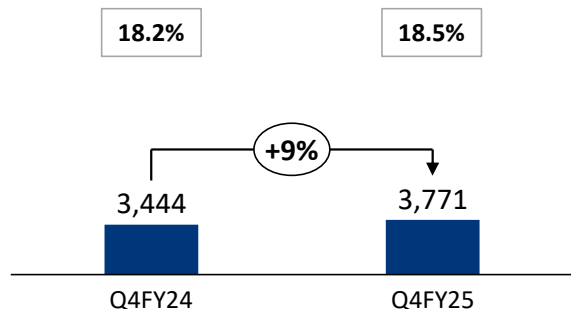
Established Products

Revenue (₹ Mn) and EBITDA Margin (%)



Value Added Products

Revenue (₹ Mn) and EBITDA Margin (%)



Established Products Value Added Products

Established Products: HM-HDPE plastic Drums/Jerry Cans and Pails, Polyethylene (PE) pipes, Turf & Mattings, Disposable Bins, Energy storage devices, Auto Products and Steel Drums.

Value Added Products: Intermediate Bulk Containers (IBC), Composite Cylinders (LPG, Oxygen & CNG) and MOX Films.

Key Highlights



₹ 3,441 Mn

Cash Generated from
Operating Activities – FY25



₹ 981 Mn

Total Debt reduced by – FY25



₹ 1,954 Mn

Total CAPEX – FY25



28%

Composite Cylinders growth
(CNG) – FY25



66:34

Share of Business (India v/s
Overseas) – FY25



18.1%

Return on Capital Employed –
FY25. FY24 – 16.4%



₹ 4,450 Mn

Confirm Tender received for
Supply of Packaging Products



₹ 1,850 Mn

Strong order book- Composite
Cylinders (CNG Cascades)



₹ 1,750 Mn

Strong order book- PE Pipes

1. Dividend:

The Board of Directors has recommended a dividend of 250%, i.e., ₹2.50 per equity share of face value ₹1 each (previous year: ₹2.00 per share), for the financial year ended March 31, 2025. The recommendation is subject to the approval of the Members at the ensuing Annual General Meeting. The Company intends to maintain its dividend payout ratio.

2. Focus on Improving ROCE:

We had earlier targeted the FY25 Return on Capital Employed (ROCE) at 18%, which has been successfully achieved with an actual ROCE of 18.1%. Building on this momentum, we are now targeting a ROCE of 20% for FY26. This will be driven by our continued focus on cost reduction through automation, re-engineering of machinery and moulds, and optimization of the working capital cycle—initiatives strategically aimed at enhancing net earnings and overall capital efficiency.

3. Sale of Non-Core Assets:

Company had identified non-core assets for disposal with an estimated realization value of Rs. 125 Crores (approx.) which has now reduced to Rs. 51 Crores being balance amount already realized.

4. Qualified Institutional Placement (QIP):

Necessary approval including Board & Shareholders for raising of funds by issue of equity shares through Qualified Institutions Placement (QIP) has been obtained for an amount not exceeding ₹1,000 Crores which is valid till November 27, 2025.

5. Amalgamation of NED Energy Ltd. & Power Build Batteries Private Ltd:

The Scheme of Amalgamation involving NED Energy Limited (Transferor), a subsidiary of the Company, with Power Build Batteries Private Limited (Transferee), a wholly owned step-down subsidiary, has been approved by the Hon'ble Regional Director, South-East Region, Hyderabad, Ministry of Corporate Affairs. The approval was granted vide confirmation order dated May 3, 2025, under Section 233 of the Companies Act, 2013. The Appointed Date for the implementation of the Scheme is April 1, 2024. This will benefit in a. Better efficiency; b. Effective utilization of resources; c. Improved profitability and scale of operations and margins. d. Savings in the operational cost.

6. Type-III Hydrogen Composite Cylinder for Drone Applications:

We are pleased to announce that the Company has received an **APPROVAL** from the Nodal Agency, Petroleum and Explosives Safety Organization (PESO) for the manufacture and supply of **HIGH-PRESSURE TYPE-3 FULLY WRAPPED FIBRE REINFORCED COMPOSITE CYLINDERS** (6.8 Litres). These **HIGH-PRESSURE CYLINDERS WILL FIND USAGE FOR STORING HYDROGEN TO POWER FUEL CELL DRIVEN UNMANNED AERIAL VEHICLES AND DRONE APPLICATIONS**. This is a significant milestone making Time Technoplast Ltd. – the **FIRST COMPANY IN INDIA** to receive such an Approval for Manufacture of Type-3 Fully Wrapped Fibre Reinforced Composite Cylinders for Hydrogen Powered Fuel Cell, Unmanned Aerial Vehicles (UAV'S) & Drones.

7. Global Recognition for Type IV Composite Cylinder for Hydrogen applications:

The Company has received approval from Bureau Veritas Services SAS, France for manufacturing of 150-litre Fully Wrapped Fibre Reinforced Type IV Composite Cylinder for Hydrogen applications. This marks a key milestone in advancing the "Make in India" initiative in clean energy solutions. The Company is now the only one in India with approvals from both PESO and an international body for this product. It paves the way for manufacturing and supplying hydrogen cylinders to domestic and global markets.

8. Consolidation of Products and Manufacturing Units:

The Company has made a strategic decision to consolidate its products and manufacturing units. This includes Brownfield expansion and adding New Units, which will better align with evolving market demands while optimizing operational costs.

9. Green Energy- Conversion of Electricity Units consumed to Solar Power:

The Company has committed to transform 75% of its electricity consumption to green energy within the next two years by tie up with solar power generating Companies. This transition will not only result in cost savings but also contribute to a significant reduction in carbon emissions. As part of its dedication to sustainability, the Company is actively participating in global efforts to reduce carbon emissions.

10. Launch of E-Rickshaw Batteries by Power Build Batteries Private Ltd:

Our subsidiary i.e. Power Build Batteries Private Limited has developed a low cost, high-performance E-Rickshaw battery in the brand name of “**e-START with SELENIUM**”. With advanced lead-acid technology and enhanced with selenium, these batteries offer superior performance, safety and efficiency. The growing demand for e-rickshaws is supported by eco-friendly policies. Our battery solution meets OEM standards and ensures reliable power output and quick recharge, contributing to the expansion of clean mobility in India.

11. New Sustainability-Focused Subsidiary: Time Ecotech:

The Company has incorporated Time Ecotech Private Limited (TEPL), a wholly owned subsidiary in India, focused on recycling and reprocessing industrial plastic packaging. In Phase I, a greenfield facility will be set up in Gujarat, launching a nationwide green recycling initiative. The long-term plan in a period of 3-4 years involves an investment of approx. ₹120 crores in fully automated recycling plants across key Indian regions (West, North, South, East) with the capacity to process up to 60,000 MT of plastic annually. This initiative underscores Time Technoplast's commitment to building a greener and sustainable future, supporting India's circular economy goals.

12. Incorporation of Elan Steel Containers (FZC) – Step-Down Subsidiary in UAE:

As part of its international expansion, Time Technoplast has set up a new step-down subsidiary, Elan Steel Containers (FZC), in the Sharjah Airport Free Zone, UAE. This marks the Group's entry into steel drum manufacturing in the Middle East and complements its existing polymer packaging business. The facility, built with cutting-edge automation and quality controls, will help meet rising regional demand and strengthen the Group's position as a complete packaging solutions provider.



Company Overview



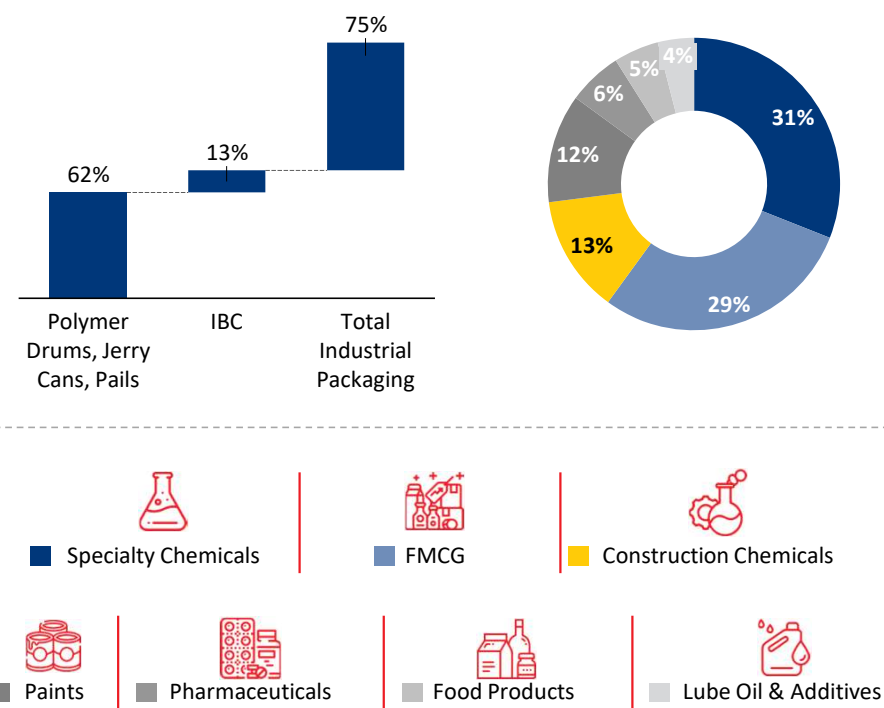
Time Technoplast at a Glance



Business Mix (FY25 Total Revenue : Rs. 5,462 Cr.)

73%	(Rs. 3,987 Cr.) Established Products	27%	(Rs. 1,475 Cr.) Value-Added Products
62%	Industrial Packaging (Rs. 3,398 Cr.) Polymer Drums, Jerry Cans, Pails	13%	Industrial Packaging - Intermediate Bulk Container (IBC) (Rs. 698 Cr.)
7%	Infrastructure (Rs. 377 Cr.) Polyethylene (PE) Pipes, Energy storage devices	11%	Composite Products (LPG, CNG & Oxygen) (Rs. 622 Cr.)
4%	Technical & Lifestyle (Rs. 212 Cr.) Turf & Matting, Disposable Bins, Auto Products	3%	MOX Film (Techpaulin) (Rs. 155 Cr.)

Industrial Packaging Sales by User Industry



- Strong presence in Asia & MENA regions
- 14+ recognized brands with over 900 institutional customers globally
- Well established in-house R&D team of over 30 people combined experience of 450+ years

...with over three decades of leadership position



Pre IPO (prior to 2007)

Post IPO (from 2007)

1992 - 2000

- Incorporated Pvt. Ltd. Co.
- Production facilities in western region



- Launched Lifestyle products



- Expanded in North and South India

2001 - 2006

- Launched Automotive related Products



- Production facilities in East India
- Ventured in Thailand
- Acquisition of TPL Plastech Ltd. formerly known as Tainwala Polycontainers Ltd.

2007 - 2010

- Got listed on NSE & BSE
- Entered into battery business by way of acquisition of NED Energy Ltd.
- JV with Mauser for manufacturing steel drums
- Green field manufacturing set up in Sharjah (UAE)
- Additions in products base such as Plastic Fuel Tanks, IBC and Disposal Bins



2011 - 2020

- Green field manufacturing set up overseas - Bahrain, Indonesia, Vietnam, Egypt, Malaysia and USA
- Acquisition in Industrial Packaging Segment – Thailand, Taiwan and Saudi Arabia
- Started HDPE and Cable Ducts pipe manufacturing
- Acquisition of company for technology of Composite Cylinders, consolidation with existing operations and Launch of LPG cylinders
- Started MOX films business



2020 onwards

- Expanded in USA with 3rd Greenfield unit
- 1st and only company in India to receive PESO approval for manufacturing of Type-IV CNG cylinders for Cascade and on-board applications.



- Expanded composite cylinder portfolio with launch of Type-III Cylinders for breathing air and medical oxygen.
- 1st company in India to receive PESO approval for manufacturing of High-Pressure Type-IV Composite Cylinders for Hydrogen.

LEADING THROUGH INNOVATION AND TECHNOLOGY

Leading Global Industrial packaging company

First to launch Type-IV Composite Cylinder for LPG, CNG (CNG cascade and on-board application), and Hydrogen in India. **2nd Largest** Composite Cylinder manufacturer worldwide.

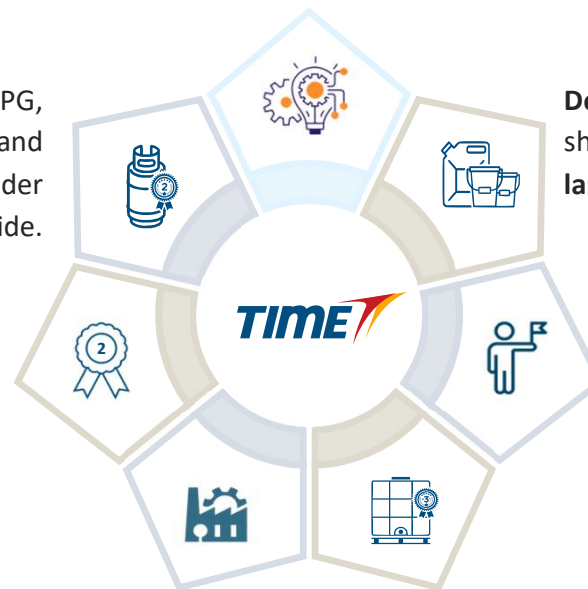
Dominant market position with over 55% market share in domestic Industrial packaging. **World's largest manufacturer** of large size plastic drums

2nd largest MOX film manufacturer in India

Market leader in 9 out of 11 countries it operates in

Major Player in manufacturing of HDPE pipes in India

First to launch Intermediate Bulk Container (IBC) in India and **3rd Largest** IBC manufacturer worldwide.



...with diversified product portfolio



Innovative Polymer Products

Industrial Packaging

Drums & Containers



Jerry Cans



Conipack Pails



Infrastructure

HDPE Pipes



Energy Storage Devices



Auto Components



Value Added Products

Industrial Packaging - Composite IBCs



Composite Products (LPG, CNG and Oxygen)



MOX Films



Hi-Tech Products

DEF (Urea) Tanks



Composite Air Tank



Hydraulic Oil Tank



and more...

- Focus on Innovative & Tech oriented polymer products and have several firsts to our credit-
- 1st to launch PE drums to replace steel
- 1st to launch Tubular Gel Batteries
- 1st to launch Anti-Spray Rain Flaps
- 1st Plastic Fuel tanks in CVs
- 1st to launch IBC
- 1st to launch Composite Gas cylinders
- 1st to receive approval for Composite cylinders for Hydrogen

...with wide geographical presence



Manufacturing Presence in **11 Countries** to meet local demand | **20 Manufacturing** locations in India



WE are where OUR CUSTOMERS are.... Focus on high growth manufacturing geographies

...with global marquee clients

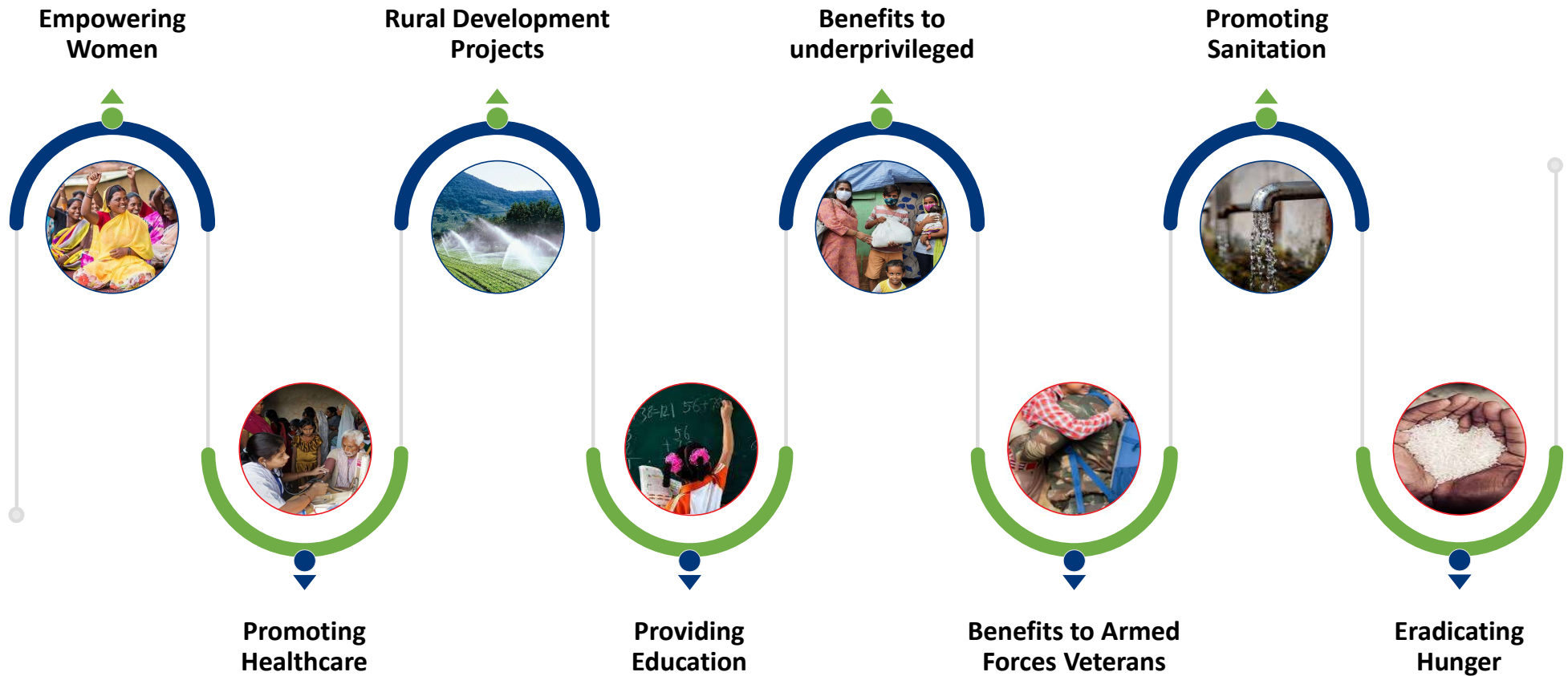
TIME

10% Reduction in Carbon Footprint from FY23



...with contribution for better society and a better tomorrow





Appendix



Consolidated Income Statement



Particulars (₹ Mn)	Q4FY25	Q4FY24	Y-o-Y	FY25	FY24	Y-o-Y
Total Income	14,708	14,053	5%	54,623	50,066	9%
Total Expenses	12,551	12,082		46,721	43,016	
EBITDA	2,157	1,971	9%	7,902	7,050	12%
EBITDA Margin (%)	14.7%	14.0%		14.5%	14.1%	
Finance Cost (Net)	220	246		915	1,014	
Depreciation	440	395		1,697	1,726	
PBT	1,497	1,330	13%	5,290	4,310	23%
Tax	379	387		1,346	1,151	
PAT before Minority Interest	1,118	943		3,944	3,159	
Minority Interest	23	19		65	54	
PAT after Minority Interest	1,095	924	19%	3,879	3,105	25%
PAT Margins (%)	7.4%	6.6%		7.1%	6.2%	
EPS (₹)	4.83	4.08		17.1	13.71	

Product Segment Wise Value and Volume Numbers



Particulars	Value			Volume			
	FY25	FY24	YoY Growth	Unit	FY25	FY24	YoY Growth
	(₹ Mn)	(₹ Mn)	%				%
TURNOVER							
<u>Established Products</u>							
Packaging (Excl. IBC Business), Lifestyle , Auto , Batteries Business etc.	37,036	34,734	6.6%	M.T.	326,203	291,203	12.0%
PE Pipes	2,831	2,514	12.6%	M.T.	26,373	22,422	17.6%
Sub - Total	39,867	37,248	7.0%		352,576	313,625	12.4%
<u>VALUE ADDED PRODUCTS</u>							
IBC (Including Inner Containers)	6,976	6,226	12.0%	Nos.	931,128	801,128	16.2%
Composite Products							
- LPG Cylinders	2,262	2,101	7.6%	Nos.	1,132,975	1,063,475	6.5%
- CNG Cascades	3,954	3,081	28.3%	Nos.	505	394	28.2%
MOX Film	1,564	1,410	10.9%	M.T.	6,614	5,894	12.2%
Sub - Total	14,756	12,818	15.1%				16.7%
Total	54,623	50,066	9.1%				13.3%

Consolidated Balance Sheet



Particulars (₹ Mn)	FY25	FY24
Equity & Liabilities		
Shareholder's Funds		
Share Capital	227	227
Other Equity	28,694	25,301
Total Shareholder's Fund	28,921	25,528
Minority Interest	700	635
Non-Current Liabilities		
Long-Term Borrowings	1,471	1,654
Lease Liabilities	745	739
Deferred Tax Liabilities (Net)	1,331	1,127
Total Non-Current Liabilities	3,547	3,520
Current Liabilities		
Short-Term Borrowings	4,994	5,792
Trade Payables	4,511	4,439
Other Financial Liabilities	116	115
Other Current Liabilities	476	457
Short-Term Provisions	182	167
Current Tax Liabilities	540	487
Total Current Liabilities	10,819	11,457
TOTAL - EQUITY AND LIABILITIES	43,988	41,140

Particulars (₹ Mn)	FY25	FY24
ASSETS		
Non-Current Assets		
Fixed Assets		
Property, Plant & Equipment	12,825	12,866
Capital Work-in-Progress	794	412
Right-to-Use Assets	900	815
Intangible Assets	2	2
Others Financial Assets/Long Term Loans & Advances	468	400
Total Non-Current Assets	14,989	14,495
Current Assets		
Inventories	11,483	10,503
Trade Receivables	11,623	10,821
Cash and Cash Equivalents & Bank Balance	1,779	1,535
Other Current Assets	3,598	2,883
Total Current Assets	28,483	25,742
Assets Classified As Held For Sale*	516	903
TOTAL - ASSETS	43,988	41,140

*In accordance with Ind AS 105 for Non-current Assets Held for Sale and Discontinued Operations, the management has identified a classified certain assets as held for sale

Consolidated Cashflow



Particulars (₹ Mn)	FY25	FY24
Net cash flow from operating activities	4,305	4,062
Profit before tax & extraordinary items	5,290	4,310
Depreciation	1,697	1,726
Interest	915	1,014
Others	62	(83)
Working Capital Changes	(2,450)	(1,984)
Tax Payment	(1,209)	(920)
Net cash used in Investing Activities	(1,466)	(1,870)
Purchase of fixed assets	(1,958)	(1,808)
Others	492	(62)
Net cash used in financing activities	(2,487)	(1,973)
Net proceeds from borrowings	(981)	(656)
Increase in Share Capital Including Premium	-	97
Repayment of lease liability	(121)	(105)
Dividend paid & tax on dividend	(470)	(295)
Interest paid	(915)	(1,014)
Net increase/(decrease) in cash & cash equivalents	352	219
Cash & cash equivalents as at (opening balance)	912	693
Cash & cash equivalents as at (closing balance)	1,264	912



IBCs growing faster
Time Technoplast
is the largest and
major player in
most countries it
operates in



**Polymer and
Composite products**
to gain share from
metals



**Recycling efforts to
encourage
sustainability**



**Chemical production
shifting from China
to other Asian
countries**



Market Potential



Industrial Packaging Industry – Market & Development



Market

- The global market for industrial packaging is estimated to reach \$123.2 Bn by 2032, at a CAGR of over 5.9% owing to increasing trends in end-use industries such as automotive, food & beverages, chemical, construction and oil & lubricant.

Drivers

- Shift from metal to polymer packaging due to technical and operational advantages and lower costs.
- A clear trend towards IBC is visible, which is correlated with a growing demand for reconditioning solutions mainly in developed regions.
- Given the presence of strong domestic demand for specialty chemicals, low cost of production and availability of skilled labour, large foreign players are increasingly looking at India as an alternative investment destination due to implementation of strict environmental norms in China.

Emerging Packaging Scenario

- Multinational companies looking east for lower cost of production.
- Bringing in Good Manufacturing practices and improved handling systems.
- Improvement in transportation and handling facilities.
- Bulk transportation reducing logistic and shipping costs

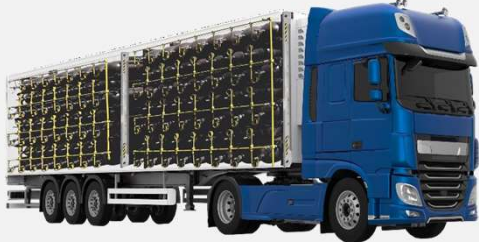
Packaging Product (Market Size)	Asia (Mn Units)			Global (Mn Units)		
	India	Rest of Asia	Total	Asia	RoW	Total
Steel Drum	11 (41%)	131 (87%)	142 (80%)	142 (80%)	127 (81%)	269 (81%)
Polymer Drums	16 (59%)	19 (13%)	35 (20%)	35 (20%)	30 (19%)	65 (19%)
Total	27 (100%)	150 (100%)	177 (100%)	177 (100%)	157 (100%)	334 (100%)
IBCs	1 (28.5%)	2.5 (71.5%)	3.5 (100%)	3.5 (19%)	15.0 (81%)	18.5 (100%)

Time Tech Customer Segment- Industrial Packaging

Segment	% Business	Expected Growth in FY25
Speciality Chemicals	31%	11% - 13%
FMCG	29%	11% - 13%
Construction Chemicals	13%	6% - 8%
Paints & Inks	12%	6% - 8%
Pharmaceuticals	6%	8% - 10%
Lube Oils & Additives	4%	6% - 8%
Others	5%	5% - 7%



We are at inflection point
Shifting from Tech based products to High-Tech products with focus on Composites



Type IV CNG Cylinder Cascades
Lighter – Carries 220% More Gas

- Composite is a material of future replacing metals in high performance applications

- Tectonic shift

- Harnessing new growth opportunities in existing business
 - Launching new products with huge business potential
 - Aspire to be largest Composite product company in the country
 - New product launches will help improve margins and reduce working capital
 - We draw strength from the launch of LPG Composite Cylinders and maintaining market leadership in 10 years




Type IV CNG Cylinder – Metal Free

CNG Cylinder : Overall Market Potential



Huge revenue potential given India's low penetration of CNG fuel stations and CNG vehicles

	Total Estimated Business (Rs. Cr.)	Business in No. of Years	Estimated Market Per Year (Rs. Cr.)	Conversion %	Total Estimated Business (Type-IV) per year (Rs. Cr.)
CNG Cascades	11,453	8	1,432	50%	716
MRUs	1,320	4	330	50%	165
Compressed Bio Gas	6,000	3	2,000	20%	400
Gas Generators for Telecom Towers	4,800	4	1,200	20%	240
CNG for Intracity Buses	5,304	4	1,326	50%	663
Total Estimated value of Business	28,877		6,288		~2,200

Focus on buses; Commercial vehicles and passenger cars, estimated to have equal or more potential Business from commercial vehicles and passenger cars not factored

Type-III Composite Cylinder for Breathing Air / Medical OXYGEN

- Successfully developed Fully Wrapped Carbon Fibre Reinforced (Type-III) Composite Cylinder for Breathing Air/ Medical Oxygen; 1st locally manufactured cylinder to get approval from PESO in India.
- **Application as Self-Contained Breathing Apparatus (SCBA) by-**
 - Fire Fighters,
 - Divers (SCUBA)
 - Mountain climbers at high altitudes
 - Hospitals
 - Portable home oxygen bottles
 - Emergency use in ambulances

Numerous advantages over Type-I metal cylinders



Explosion Proof



60% lighter in weight than
Type-I metal cylinders



No Rusting and
No Corrosion



Long service life



Type-III Composite Cylinders form a part of High-Tech Composite Products and are classified under Value-added products.



Hydrogen Type III Composite Cylinder

**Fly Longer,
Higher & Faster**

~50% Lighter
Than Battery variant*

3 Times More Flying Hours*
In single fueling

5 minute
Refueling time* Vs 3 hour charging
time for battery variant

5000+ hours for Fuel cell system
500-1000 charge cycles for battery* variants

Approved by **PESO** in November 2024 for Type-III cylinder for the **FIRST TIME IN INDIA.**

Drone Application – Advantages of Hydrogen V/s Lithium-Ion Batteries

Longer Flight Duration

Hydrogen fuel cells can provide a higher energy density compared to lithium-ion batteries, allowing drones to fly for longer periods without recharging/refuelling.

Lighter Weight for Energy Storage

Hydrogen systems generally offer better energy-to-weight ratios, which can be crucial for drones where weight significantly impacts performance.

Faster Refuelling

Refuelling a hydrogen cylinder takes a few minutes, whereas recharging lithium-ion batteries may take hours.

Higher Altitude Performance

Hydrogen-powered drones perform better at higher altitudes due to less dependency on air density for cooling compared to battery systems.

Eco-Friendly

Hydrogen fuel cells produce water as a byproduct, offering a more environmentally friendly solution compared to lithium-ion batteries, which may involve rare earth materials and hazardous chemicals.

Key Takeaways

Long Flight Missions

Hydrogen variants are ideal for long-duration missions, such as surveying or mapping.

Cost Considerations

Initial costs for hydrogen systems can be higher, but operational costs may decrease over time due to longer life cycles and reduced refuelling times.

Weight Efficiency

Hydrogen systems reduce the drone's weight, improving flight efficiency.

Environmental Advantage

Hydrogen systems are more sustainable in the long term.



More distance, less weight and cost efficient

~1.6 Mn E-Rickshaws In India
*As of 31.03.2025

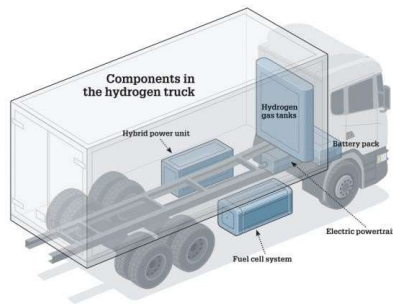
4 Batteries in each E-Rickshaw
*Each Battery costs ~10K INR

~6,400 Cr Market Size
*As of 31.03.2025

0.4 Mn New E-Rickshaws are added every year in India

This is a product of our subsidiary company **POWER BUILD BATTERIES PRIVATE LIMITED.**

Hydrogen Cylinder for Fuel Cells



- Type-IV Carbon wrapped cylinders
- Light weight (90% weight reduction) - provides better fuel economy and better payload
- Reliable and safe
- Applications – Hydrogen Cars, power generation (Towers)

Composite Fire Extinguisher



- Made with HDPE inner liner
- Light Weight, Carbon Neutral and 100% recyclable
- Higher Strength with winding
- Maintenance Free & Corrosion Free
- Long shelf life

E-Rickshaw Battery



- Made with Lead-Selenium Alloy
- High Cycle Life – Provides up to 450 cycles
- Extended Battery Life – Reduced water loss
- Enhanced Efficiency & Cost Savings – Delivers extra mileage

Shareholders	As of 31 st Mar 2025	As of 31 st Dec 2024
Promoters	51.62%	51.56%
Domestic Institutional Investors	12.99%	13.20%
- Tata Mutual Fund - Tata Small Cap Fund		
- HDFC Trustee Company Ltd. A/c HDFC Balanced Advantage Fund		
- HSBC Small Cap Fund		
Foreign Institutional Investors	8.07%	7.65%
- Foreign Portfolio Investors Category I & II		
Public	27.32%	27.60%

Company:



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Thank You