

Evolving Growth Sectors

TCI constantly evolves its services portfolio to stay ahead of the curve by embracing innovative technologies and crafting bespoke solutions. Identifying high-growth sectors that have the potential to boost the Indian manufacturing sector, TCI seeks to shape its services to the niche requirements so as to create a dynamic business organization that stands at the forefront of India's rapidly changing economic landscape while creating lasting value for our extended stakeholder community.

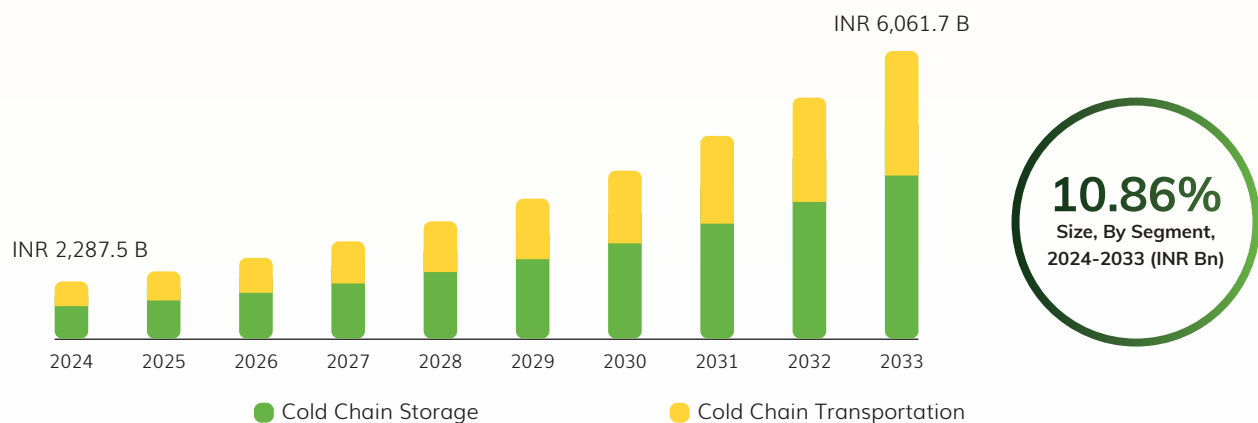
US\$ 1.3 Bn

Market size of B2B Market places by 2025

Cold chain logistics

The growing prominence of organized retail, quick commerce, QSRs, farm-to-fork models and online pharma has sharply increased demand for integrated cold storage infrastructure across India. Acting as vital 'middle mile' links between central hubs and local delivery points like dark stores, cold storage facilities ensure timely, high-quality delivery of perishables. These Grade A warehouses and refrigerated vehicles support temperature-sensitive goods such as dairy, meat, pharmaceuticals and fresh produce. Businesses in Tier I cities like NCR, Mumbai, Bengaluru and Tier II cities like Ahmedabad, Lucknow and Patna increasingly rely on 3PL providers for specialized cold chain logistics.

Indian Cold Chain Market Forecast Size, By Segment, 2024-2033 (INR Bn)



Sources: <https://www.imarcgroup.com/indian-cold-chain-market>



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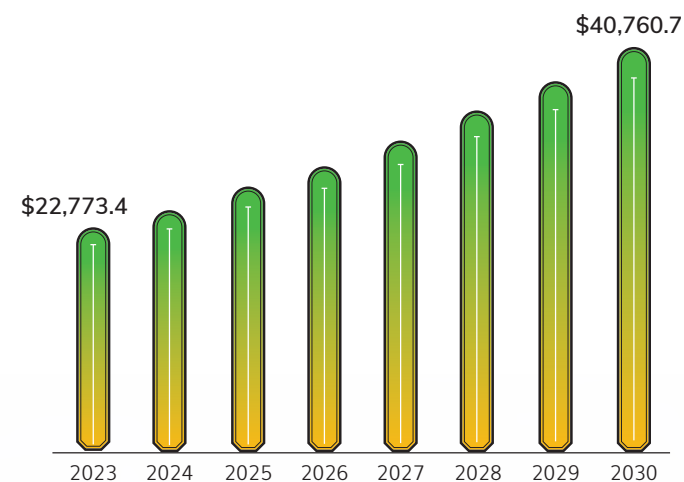


Cosmetics & Beauty Products Industry

India's cosmetics and beauty products industry has experienced a dynamic transformation, driven by rising disposable incomes, digital penetration and a shift in consumer preferences toward self-care and wellness. According to the India Brand Equity Foundation (IBEF), the industry is projected to grow at a CAGR of 25%, reaching \$20 Bn by 2025, with India poised to become one of the top five global markets by revenue. This growth is fueled by increasing demand for specialized products such as organic, herbal and ayurvedic cosmetics, as well as a surge in aspirational consumption patterns among younger demographics.

Management consulting firms and think tanks have highlighted the strategic evolution of the sector. Grand View Research reports that the Indian cosmetics market generated \$22.7 Bn in 2023 and is expected to reach \$40.7 Bn by 2030, growing at a CAGR of 8.7% from 2024 onward. Meanwhile, Statista notes that India now ranks fourth globally in revenue generation from the beauty and personal care (BPC) market, with the industry becoming an essential part of daily life rather than being reserved for special occasions. This shift is also reflected in the rise of D2C (direct-to-consumer) beauty brands and the increasing influence of social media and influencer marketing in shaping consumer choices.

India cosmetics market, 2018-2030 (US\$M)



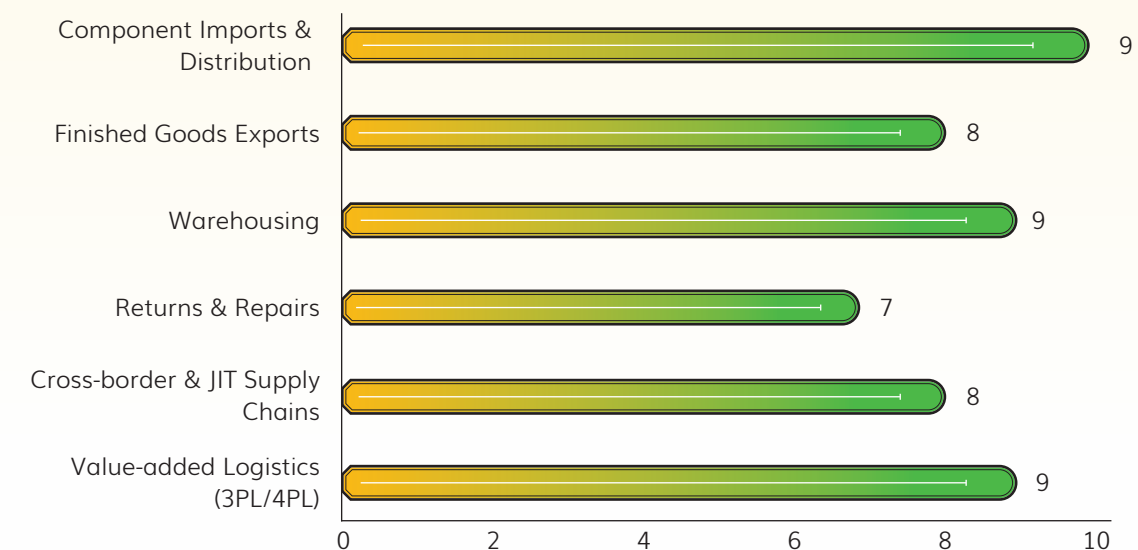
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Electronics & Component Manufacturing

The Government of India, through its National Policy for Electronics (NPE) 2019, has identified the electronics industry as a strategic growth sector. Driven by initiatives like smart cities and rural electrification, domestic demand for products such as smartphones, solar panels, batteries and telecom equipment continues to rise. India, already the world's second-largest mobile phone manufacturer, aims to grow its electronics manufacturing sector to US\$300 Bn by 2026, including ICT hardware, consumer electronics and components. To meet the electronics export target of US\$120 Bn by 2026, the country must strengthen logistics infrastructure with integrated multimodal hubs.

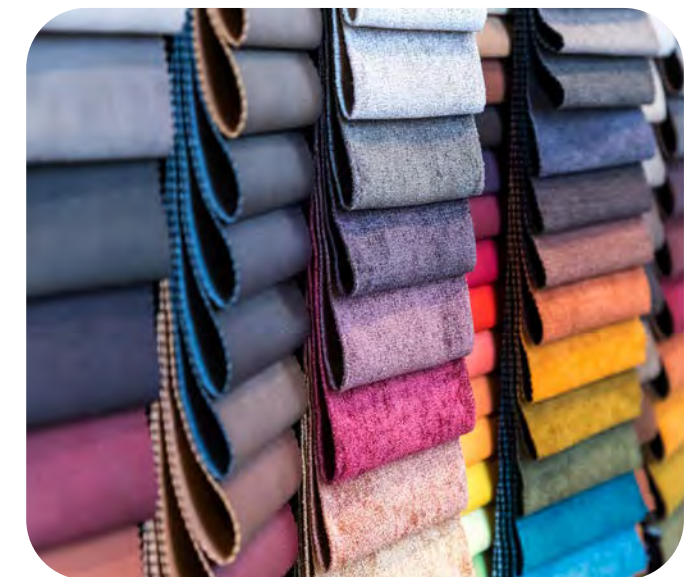
Growth Areas in Electronics Manufacturing-Linked Logistics (2025)



Sources: *Electronic components and materials, Investindia*
MeitY Annual Report 2024-25

Textiles

In light of growingly complex e-commerce delivery demands and export promotion initiatives by the government, the logistics requirements for the textile sector are being redefined. Currently claiming a 3.9% share in the global trade of textiles and apparels, India's overall export of textiles & apparel (incl. handicrafts) registered a growth of 7% during April-October in FY 2024-25 (US\$ 21,358 Mn) compared to same period of FY 2023-24 (US\$ 20,007 Mn). Determined to strike the export target of US\$ 100 Bn by 2030, the GoI needs to weave an equally capable web of logistics support services to handle various tasks such as maintaining the fabric quality, protection against detrimental environmental conditions, timely delivery for both B2B and B2C clientele segments and optimum inventory management across online and offline platforms.



Renewable Energy

India's clean energy transformation is rapidly reshaping logistics demand across the country. With over 180 GW of installed renewable capacity as of March 2025 and targets like 500 GW non-fossil capacity by 2030, the renewable energy sector is creating vast opportunities for specialized logistics services. From transporting solar panels and wind turbine blades to managing cold chains for hydrogen and battery systems, logistics players are becoming central to India's green infrastructure buildout.



Green Energy Transition

Renewables

Wind energy

Solar energy

Hydro & Tidal energy

Geothermal

E-fuels

Green Hydrogen

E-Methanol

E-Ammonia

Bio-fuels

Bio-Ethanol

Bio-Diesel

Bio-Methanol

SAF

Biogas



Sustainable Infrastructure Ecosystem and Industrial Solutions

Renewables	Production infra and equipment	Panel assembly Module and cell mfg. Power cables and grid equipment Distributed energy Integrated PV Turbines and condensers	Metal Scrap	Steel Aluminum Copper
	Storage	Panel assembly Module and cell mfg. Power cables and		
Green Materials	Building Bio-materials	Green Steel Green Cement Green Aluminium Green Plastic	Recyclable Plastic	PET Polypropylene Polyethylene
	Bio-chemicals	Bio-formaldehydes Bio-resins Bio-PLA		
Green Hydrogen	Electrolyzer mfg.	Alkaline electrolyte PEM/SOE Fuel Cells Plates and exchangers Desalination plants	Electronic Equipment	E-waste recycling Battery recycling
	Storage	Underground H2 Type 4 cylinders Desalination plants Pipelines and compressors		
Green Hydrogen	Electrolyzer mfg.	Alkaline electrolyte PEM/SOE Fuel Cells Plates and exchangers Desalination plants	Construction Materials	Concrete recycling Ash reuse Slag recovery
	Storage	Underground H2 Type 4 cylinders Desalination plants Pipelines and compressors		
Other Fuels	Infra solutions	Underground H ₂ , Type 4 cylinders Desalination plants Pipelines and compressors	Regenerative Agriculture rials	Organic farming Carbon sequestration
Plant and Equipment	Support ecosystem	Sustainable Mining Bio-refineries HVAC & Energy-efficient systems Green logistics Shipping double-tanks E-fuels bunkering		
			Waste Aggregation & Valorization	Bio-waste Waste-to-materials Waste-to-chemicals

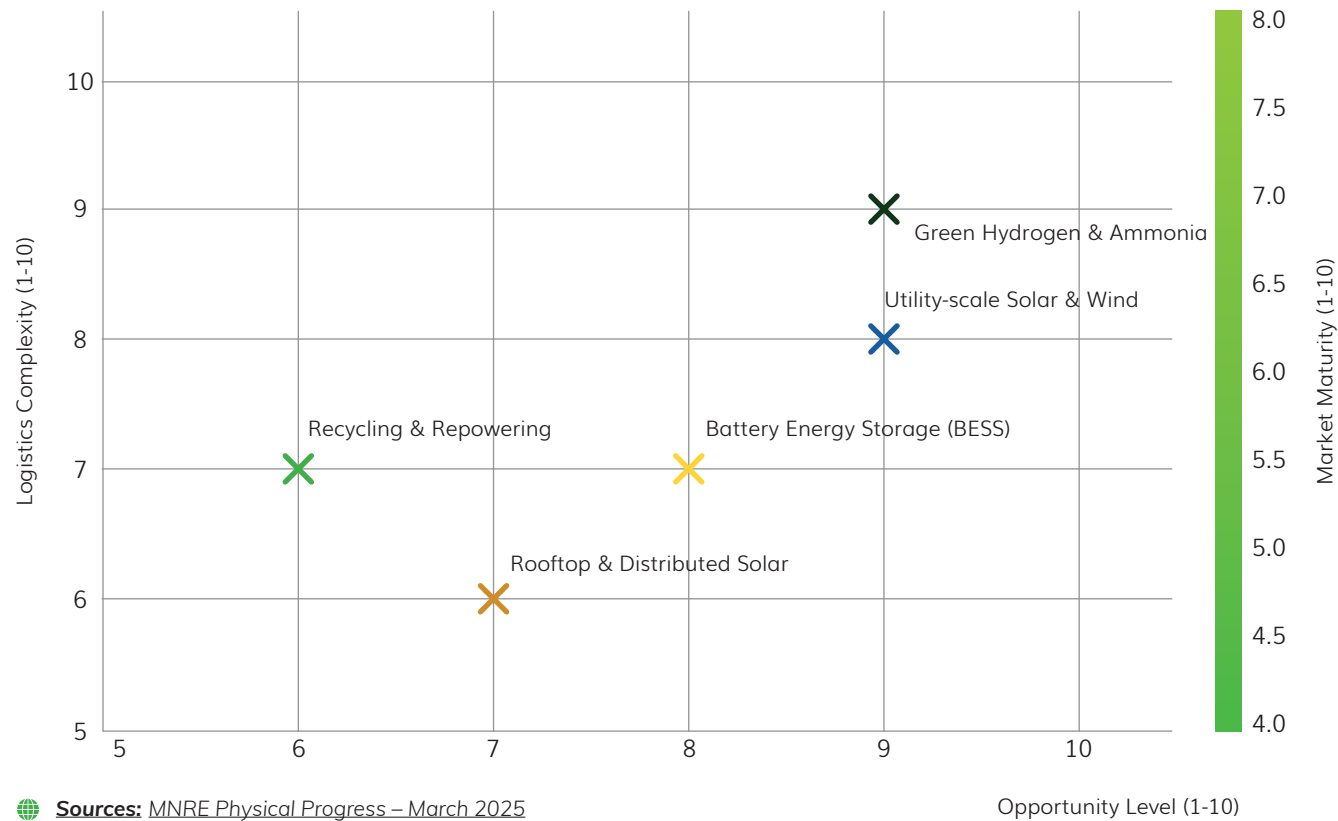
Goods and services for end-users

Sustainable fashion and textiles | Green buildings and infrastructure Green automobiles (Electric vehicles, buses, etc.) | Alternative foods (Bio-proteins, Cultured meat, etc.)

Sustainable finance | Value chain traceability | CCUS ecosystem

Green Growth Accelerators Market Landcape and Pockets of Opportunities

Renewable Energy Logistics: Opportunity vs Complexity vs Maturity (2025)



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Chemicals

India's chemical logistics sector is witnessing robust growth, driven by rising domestic manufacturing, exports and complex supply chain needs. Being valued at US\$ 8.57 Bn in 2024, the market is projected to reach US\$ 12.62 Bn by 2033 at a 4.04% CAGR.

Handling hazardous and sensitive materials requires specialized logistics—temperature-controlled transport, spill-proof warehousing and strict regulatory compliance. The integration of IoT, RFID and blockchain is enhancing traceability and safety. With India ranked sixth globally in chemical output, efficient multimodal infrastructure and tech-enabled logistics are essential. Sustainability, skilled manpower and 3PL collaboration are also critical for cost efficiency and resilience.

As the sector keeps evolving, chemical logistics will play a vital role in supporting India's industrial and export ambitions through safe, scalable and future-ready supply chain solutions.

Sources: India Chemical Logistics Market, Imarc

Sources: Indian Chemical Distribution Market, Market Research Future

US\$ 12.62 Bn
 Projected Indian Market Size by 2033



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E-commerce and Q-commerce

The rapid growth of e-commerce and Q-commerce is reshaping India's logistics landscape, pushing the industry toward faster, smarter and more localized fulfillment. With market sizes projected at US\$ 137.21 Bn and US\$ 5 Bn respectively in 2025, both sectors are driving a shift toward hyper-efficient supply chains.

Increased smartphone usage and rising consumer expectations have led to the emergence of micro-fulfillment centers near urban hubs, enabling faster deliveries and reduced costs. Q-commerce, in particular, is accelerating innovations in AI-led personalization, automated warehousing and expansion beyond groceries.

To keep pace, logistics providers are investing in smarter inventory systems, real-time tracking and agile last-mile networks—transforming logistics into a core enabler of India's digital economy.

67% Q-Commerce

21.5% E-Commerce
 Projected (CAGR) 2025-2030



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Batteries

As the world shifts toward cleaner energy, batteries are becoming central to innovations in electric mobility and renewable energy storage. This rising demand has made battery logistics a highly specialized and regulated field. From lithium-ion to nickel-based chemistries, each battery type requires strict safety protocols, temperature control and compliant packaging.

India's growing role in EV manufacturing and clean energy solutions adds urgency to building efficient first- and last-mile logistics for batteries. Battery swapping is gaining traction, with 64% of mobility players considering adoption, according to a [Capgemini report titled The Battery Revolution](#). Reverse logistics is equally vital—recovering spent batteries for recycling valuable materials like lithium, cobalt and nickel.

The path to a sustainable battery supply chain also depends on visibility, traceability and responsible sourcing. With supply stability a key barrier, technologies like blockchain and AI are being explored to ensure data integrity and support circular economy models. Logistics providers will play a critical role in enabling this transformation with expertise, infrastructure and a sustainability-first approach.



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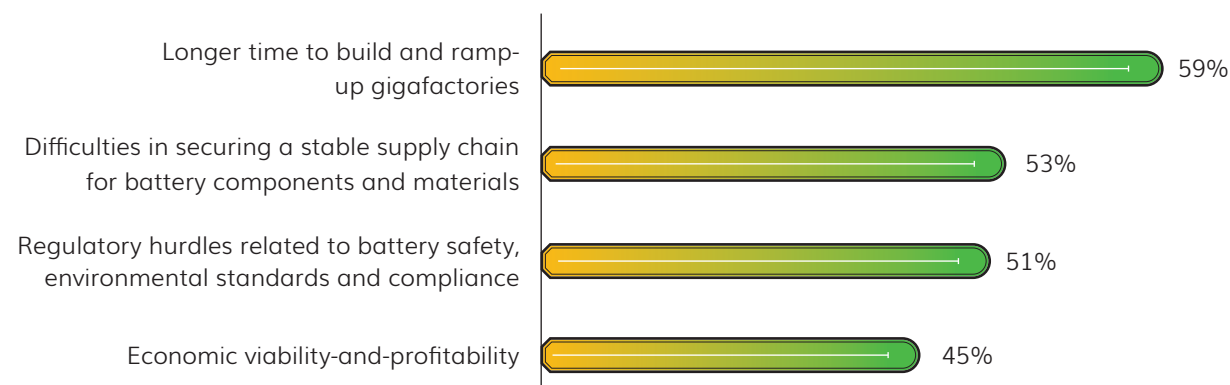


Logistics Focus®



Sustainable Charge:
Battery Logistics & Circularity
June 2025

Major challenges to battery manufacturers



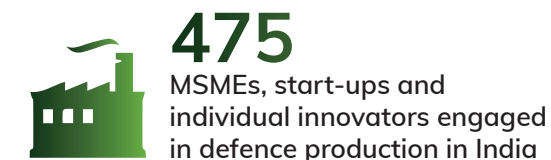
*Percentages show the proportion of executives who rate the specified challenge as a major hurdle.

Sources: Capgemini Research Institute, Future of batteries survey, September-October 2024, N=338 battery executives

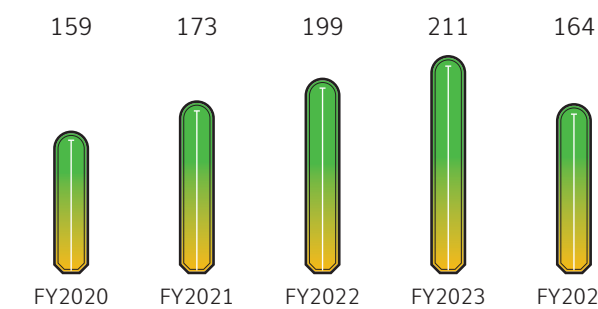
Defense Manufacturing

India's defense manufacturing sector is undergoing a paradigm shift, driven by policy reforms, increased capital outlay and a strong push for indigenization under the Atmanirbhar Bharat initiative. With a defense budget allocation of ₹ 6.21 Trillion in FY 2024–25 and exports reaching a record ₹ 210,083 Mn, the sector is poised to reach a market size of US\$ 50 Bn in the coming years. The establishment of Defense Industrial Corridors, liberalized FDI norms and the growing participation of private players have further accelerated this momentum. For logistics and supply chain service providers like TCI, this evolving landscape presents a significant opportunity to support the sector's complex and high-value movement requirements.

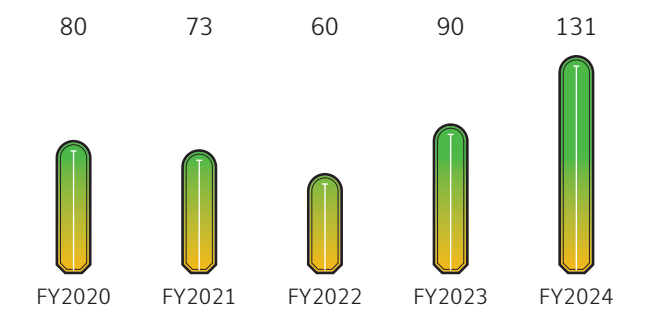
Strengthening ecosystem for MSMEs in defence production



Value of private companies in defence production (INR Bn)



Value of defence exports from private companies (INR Bn)



The recent success of Operation Sindoor has further underscored the strategic importance of agile and secure logistics. The operation demonstrated India's growing reliance on indigenous defense technologies and the need for rapid deployment, real-time coordination and resilient supply chains.

₹ 621 Bn

Defence budget in the FY 2024-25,
13.04% of the total Union Budget

US\$21.74 Mn

Total FDI for defence industries since April 2000

4th

Highest military expenditure globally in 2023

As India scales up its defense production and prepares for future contingencies, TCI is well-positioned to offer specialized logistics solutions—ranging from secure transport and warehousing to last-mile delivery and digital tracking. With our pan-India multimodal network and technology-driven operations, we aim to play a pivotal role in supporting India's defense modernization and contributing to national strategic autonomy.

While India's defense manufacturing sector presents significant growth opportunities, it also carries notable risks. These include policy and regulatory uncertainties, geopolitical tensions that may disrupt supply chains and infrastructure limitations in remote or strategic areas. Additionally, logistics providers must navigate stringent compliance and cybersecurity requirements, while managing potential volatility in global component sourcing. For companies like TCI, success in this space will depend on building resilient, tech-enabled logistics networks that can adapt to the sector's evolving demands.

[Investment Opportunities in Defence Manufacturing - Invest India](#)

[KPMG - Strengthening the defence value chain: How are MSMEs contributing?](#)

[PIB Research Unit - Operation SINDOOR: The Rise of Atmanirbhar Innovation in National Security](#)