India: Global Manufacturing Hub for Chemicals and Petrochemicals



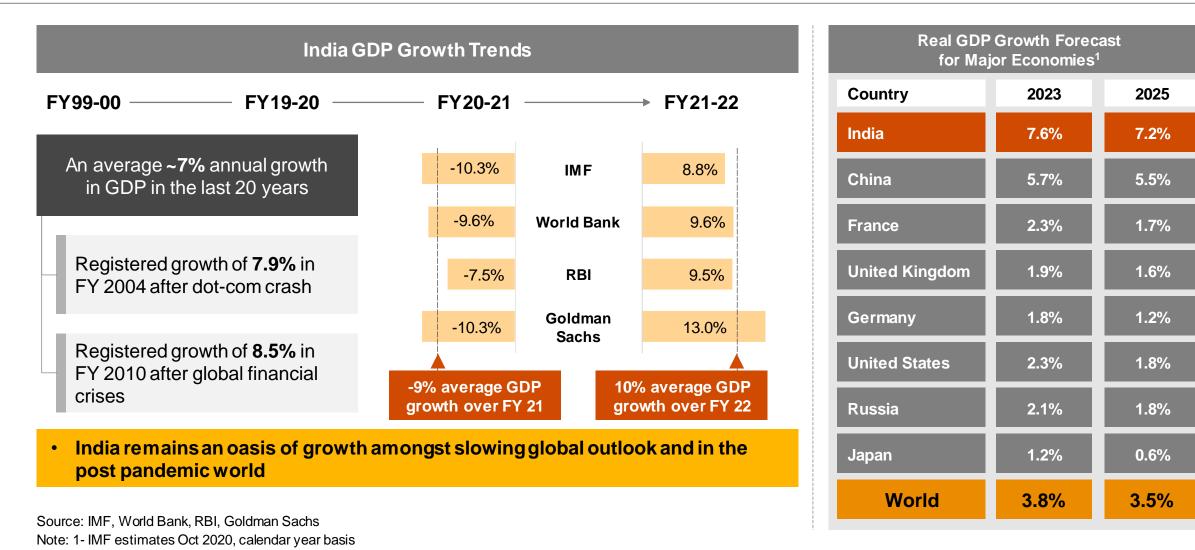
Shri Yogendra Tripathi



रसायन एवं पेट्रो-रसायन विभाग DEPARTMENT OF CHEMICALS & PETRO-CHEMICALS

March 2021

India-one of the fastest growing economies of the world



India: Global Manuf acturing Hub for Chemicals and Petrochemicals

India Chem 2021

India is emerging as an attractive and durable investment destination



FDIs

- 100% FDI automatic route in manufacturing
- USD 473 billion FDI since 2010, 60% of which was since 2015

Ease of Doing Business

- Ease of Doing Business ranking has improved by 79 places since 2014, ranked 63rd in 2019
- Major **labor reforms** have been implemented to improve ease of doing business

Innovation

 Global Innovation Index improved by 9 places since 2018, ranked 48th in 2020

Source: DIPP, Global Innovation Index, Invest India, World Bank, DCPC, CEFIC



Start-up Culture

- 2nd largest startup nation, 20,000+ startups
- Large base of entrepreneurs- ranks 3rd in the number of new firms created

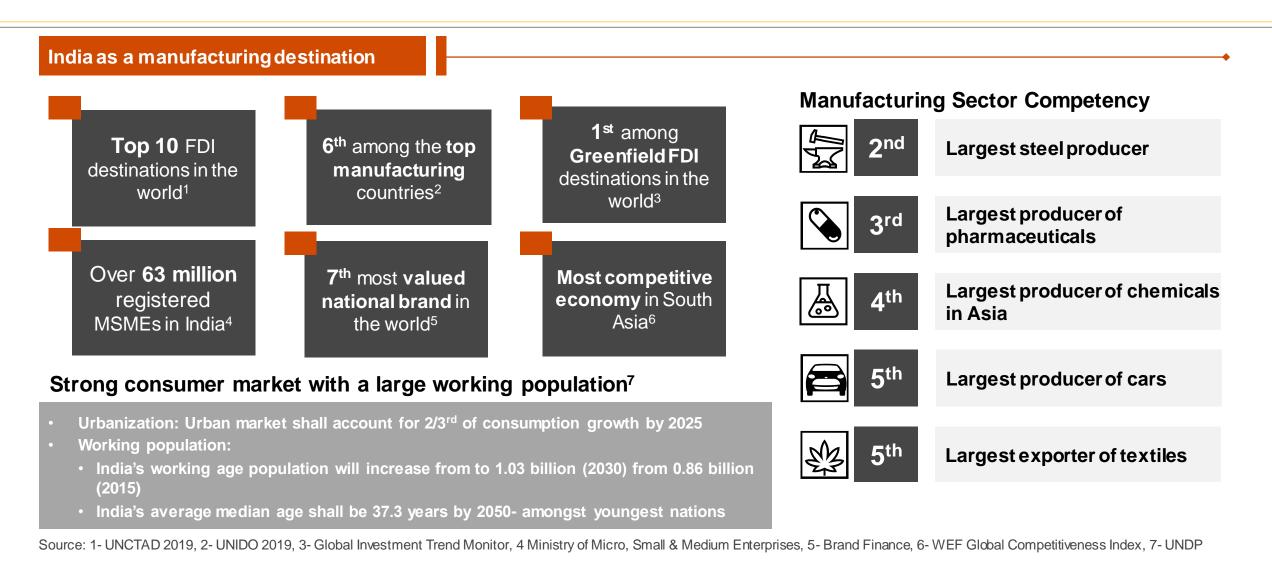
Infrastructure & Logistics

- **USD 1.4 trillion** infrastructure project pipeline to be completed by 2025
- World Bank's Logistics Performance Index has improved by 10 places since 2014, ranked 44th in 2018

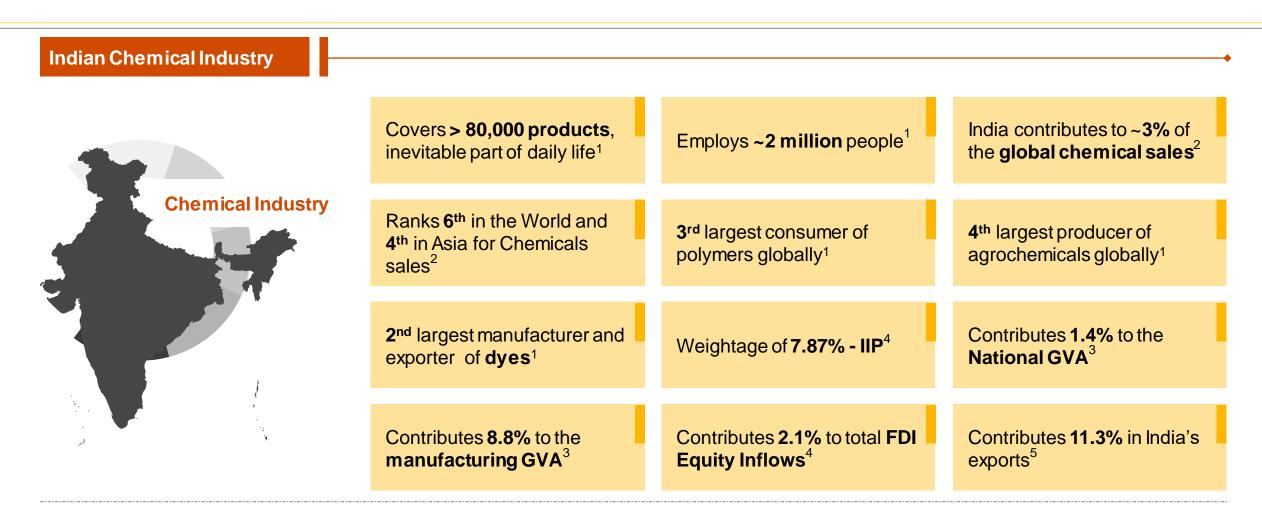
Corporate Income Tax

- Aggressive corporate tax cuts and removal of dividend distribution tax
- 22% for existing companies and 15% for new manufacturing companies

Manufacturing is a major growth sector for Indian economy



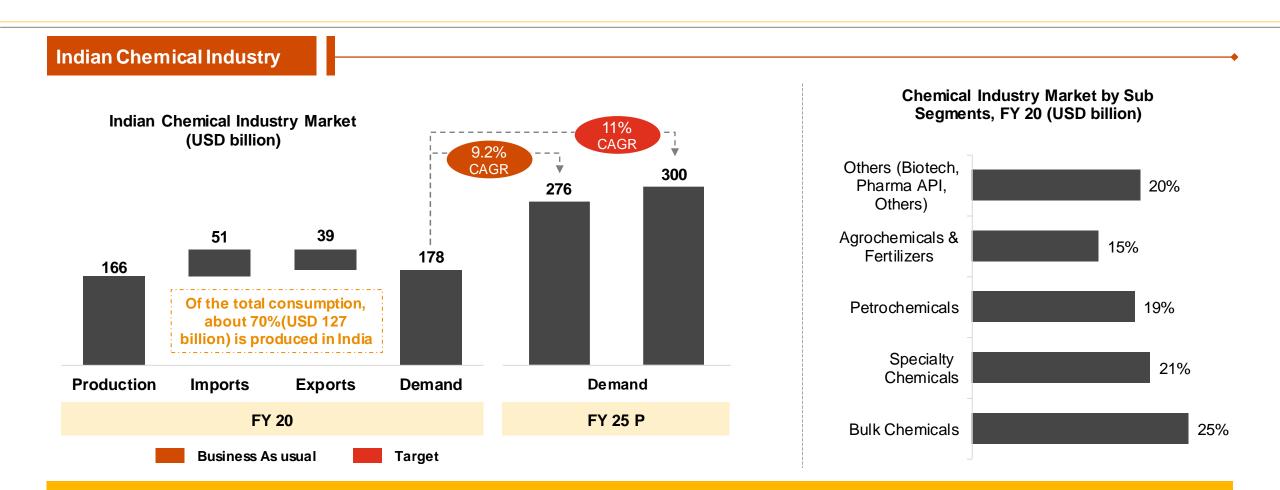
Chemicals industry contributes 8.8% to the manufacturing GVA



Source: 1-DCPC, 2-CEFIC 2020 Facts & Figures, 3- Ministry of Stats and Programme Implementation (At Current Prices, for FY 19), 4- Department for Promotion of Industry and Internal Trade, 5- Ministry of Commerce & Industry, Pw C Analysis

Note: 2- Excludes Pharmaceutical industry

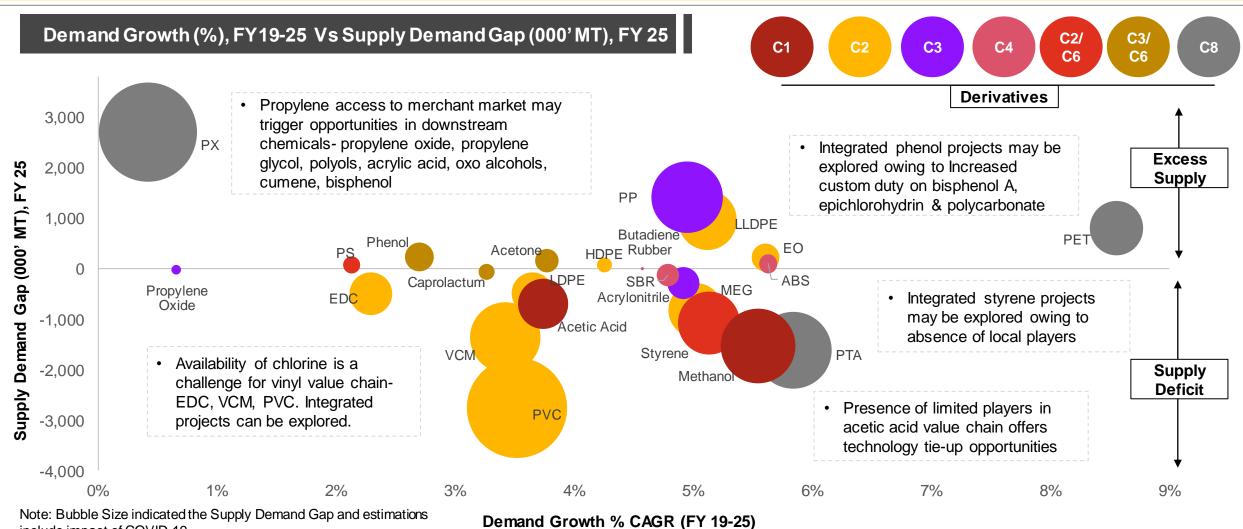
Indian Chemical Industry is poised to reach USD 300 billion by FY 25



• Demographic Dividends, Low per capita consumption, increasing export demand and enabling government initiatives are the key growth drivers for the chemicals industry

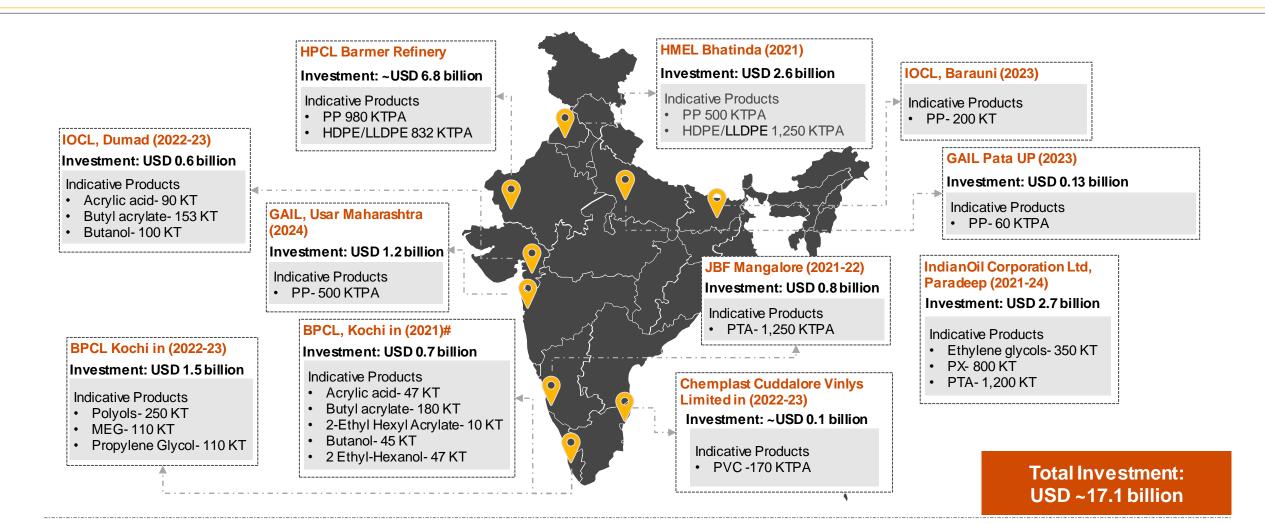
Source: MOSPI, DCPC, Industry Sources, PwC Analysis

Supply demand gap provides attractive business opportunities in 2025



include impact of COVID-19 Source: DCPC, Industry Sources, PwC Analysis & Research India: Global Manuf acturing Hub for Chemicals and Petrochemicals India Chem 2021

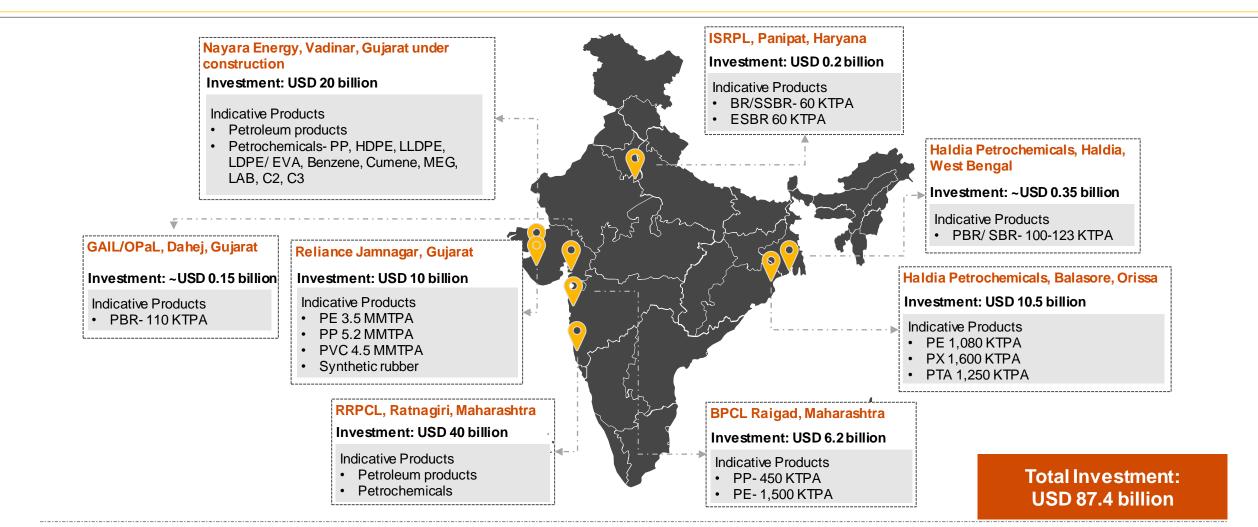
Major petrochemical projects under implementation



Source: CPMA, Industry Sources

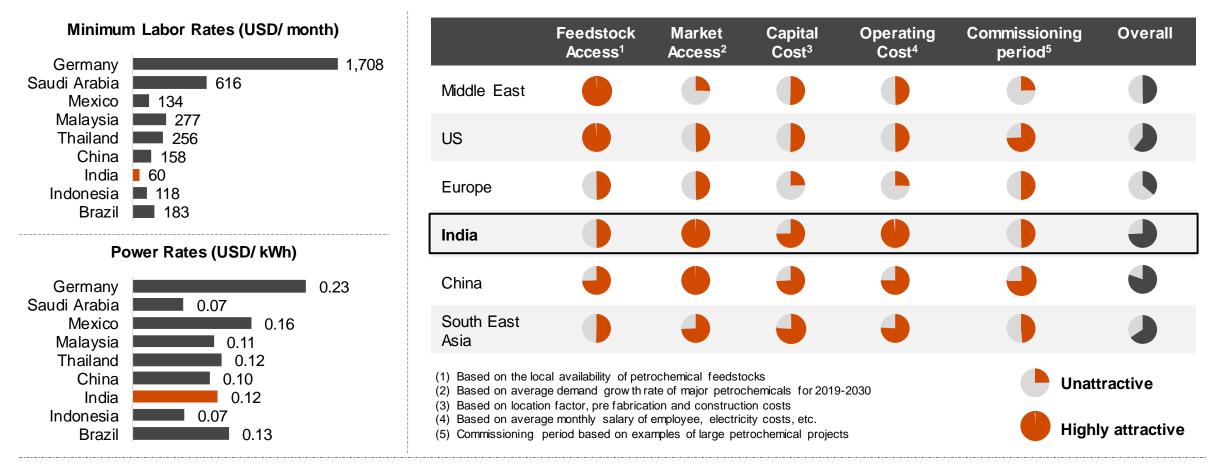
Note: #- the complex is mechanically completed and is under commissioning India: Global Manufacturing Hub for Chemicals and Petrochemicals India Chem 2021

Major petrochemical projects under consideration



Source: CPMA, Industry Sources

Competitiveness of India w.r.t. global petrochemicals hub



Source: Data on minimum monthly wages was collected from various sources including: India (Nagaland - Dept of Labour, Delhi - Govt of NCT of Delhi State Govt), Asean Briefing, Nov 2019 (Indonesia, Central Java, DKI Jakarta), Vietnam Briefing, Nov 2019 (Vietnam, Region IV, Region I), Reuters, Dec 2019 (Mexico, Non-border, Border Zone), MOHRSS, Jun 2018 (China, Liaoning, Shanghai), Bangkok Post, Dec 2019 (Thailand, Yala, Chon Buri and Phuket), Bloomberg, Jan 2020 (Brazil, National), Asean Briefing, Feb 2020 (Malaysia, National), US Dept. of Labor, Wage Indicator Foundation, World Bank, GlobalPetrolPrices Data on electricity charges was sourced from GlobalPetrolPrices.com as accessed on 20 Feb, 2021

Factors promoting India's manufacturing competitiveness

Key Investor Expectations	Factors Promoting India's Manufacturing Competitiveness			
日本 Good Governance	 Politically stable with good political and trade relations with leading markets 	Development Council and Advisory Forum- Redressal of Public Grievances & Challenges		
山 四四 Infrastructure	 Development of 5 industrial corridors for integrated industrial development Commitment of USD 1.5 trillion as part of NIP 	 3,382 industrial parks spread across 0.475 million hectare land Development of PCPIRs 		
िक्तु Robust िक्तु Investment Policy	 Make in India: USD 357 billion in FDI till FY 20 since launch in FY 14 100% FDI permitted through Automatic Route 	 PLI scheme for total 12 sectors – attractive incentives and cash back benefits 		
Strong Regulatory	 Industrial licensing has been abolished for most sub- sectors except in hazardous chemicals 	 Corporate tax rate: 22% for existing companies and 15% for new manufacturing companies 		
Quality Labor at Competitive Cost	 Sector-specific Skills Development programme supported by NSDC schemes Competitive labor wages 60-258 USD/ month 	 Standardized wages, bonus, trainings, social security benefits for workers 		
Robust Domestic demand	 The large and aspirational Indian middle class provides a readily available market India to become 3rd largest consumer market by FY 25 	 25 cities in India are among the world's top 100 fastest growing cities 		

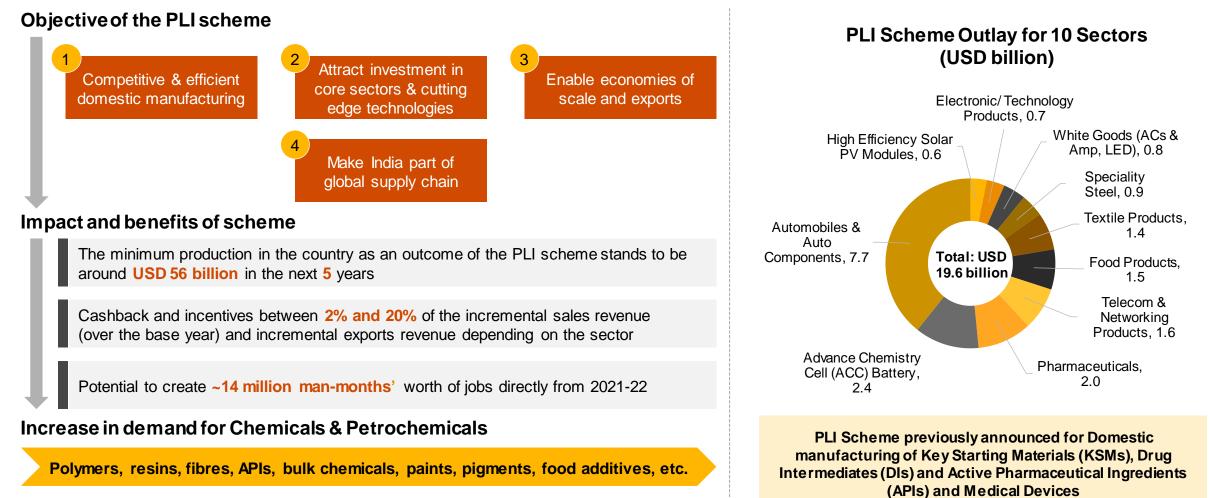
Source: PwC Worldwide Tax Summaries Corporate Taxes 2018/19, MOSPI, Centre for Economics and Business Research, UK, Department of Economic Affairs, Invest India, Note: NIP-National Infrastructure Pipeline, FTA- Free Trade Agreement, PTA- Preferential Trade Agreement, FDI- Foreign Direct Investment, NSDC- National Skill Development Corporation

Policy initiatives acting as "Game Changers" for Indian Chemical Industry

Local Manufacturing, Exports & Innovation	Skilled Man Power & Labor Laws	Industrial Infrastructure	Governance and Clearances	Availability of Feedstock	Regulations and Quality Standards
Revised custom duties on chemicals & petrochemicals, (Budget 2021-22)	Sector-specific Skills Development Programme (NSDC Scheme)	Scheme for Setting up Plastic Parks (funding up to 50% of cost of project*)	Reduced paper work & faster clearance for project proposals, IP applications, port jobs	Reduction in Basic Custom Duty on naphtha (Budget 2021-22)	BIS Standards for imported & locally produced chemicals & petrochemicals
Public procurement policy for a total 28 Chemicals and Petrochemicals	New Codes on Wages, Occupational Safety, Health &	National Infrastructure Pipeline (NIP)- Proposed PCPIR	Development Council and Advisory Forum for redressal of public grievances & challenges Better Trade Intelligence (New 8 digit HS Codes)	New addition- Barmer Petrochemical Cluster	
Export Promotion Schemes and FTAs	Working Conditions, Social Security, Industrial Relations	Projects (Odisha & Gujarat) Scheme for Setting up Mega Textile Parks			-
Global Intellectual Property Treaties	Compensation on				
Centers of Excellence and National Awards	Accidents	Note: NIP- National Infrastr IP- Intellectual Property, *C		dian Standards, NSDC- National S	kill Development Corporation,

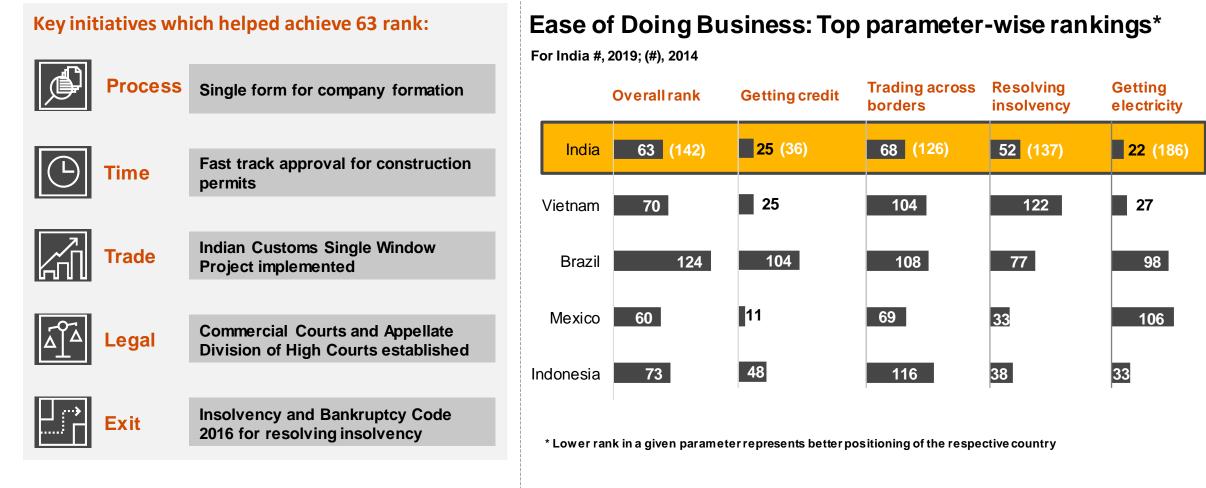
Source: DCPC, Ministry of Labor & Employment, Union Budget 2021-22, Industry Sources, WIPO, Chemexcil, PwC Analysis Note: NIP- National Infrastructure Pipeline, BIS- Bureau of Indian Standards, NSDC- National Skill Development Corporation, IP- Intellectual Property, FTA- Free Trade Agreement, *Scheme criteria

Production Linked Incentive Scheme for manufacturing sector



Source: Government of India, PwC Analysis

India's Ease of Doing Business ranking



Source: World Bank, Industry Sources, PwC Analysis

It is the right time to invest in INDIA

Vision of Department of Chemicals and Petrochemicals

To seize the opportunity to establish India as a leading chemicals & petrochemicals manufacturing hub,

- with a thrust on reduction in import dependency
- by attracting investments for manufacturing quality products
- using cutting-edge technologies
- in specified clusters
- with focus on sustainability
- ...contribute to manufacturing sector of USD 5 Trillion Indian Economy