



सत्यमेव जयते

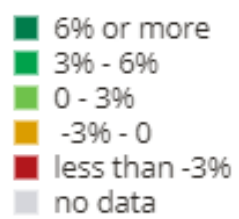
रसायन एवं पेट्रो-रसायन विभाग

DEPARTMENT OF

CHEMICALS & PETRO-CHEMICALS

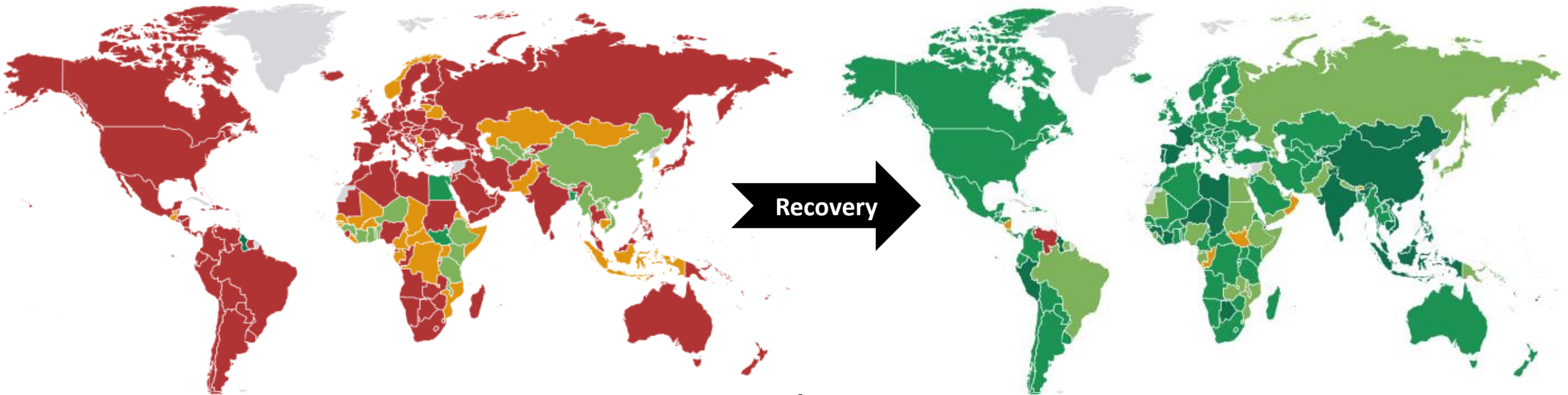
Chemicals and Petrochemicals in India

Impact of nCovid19 on Global Economy



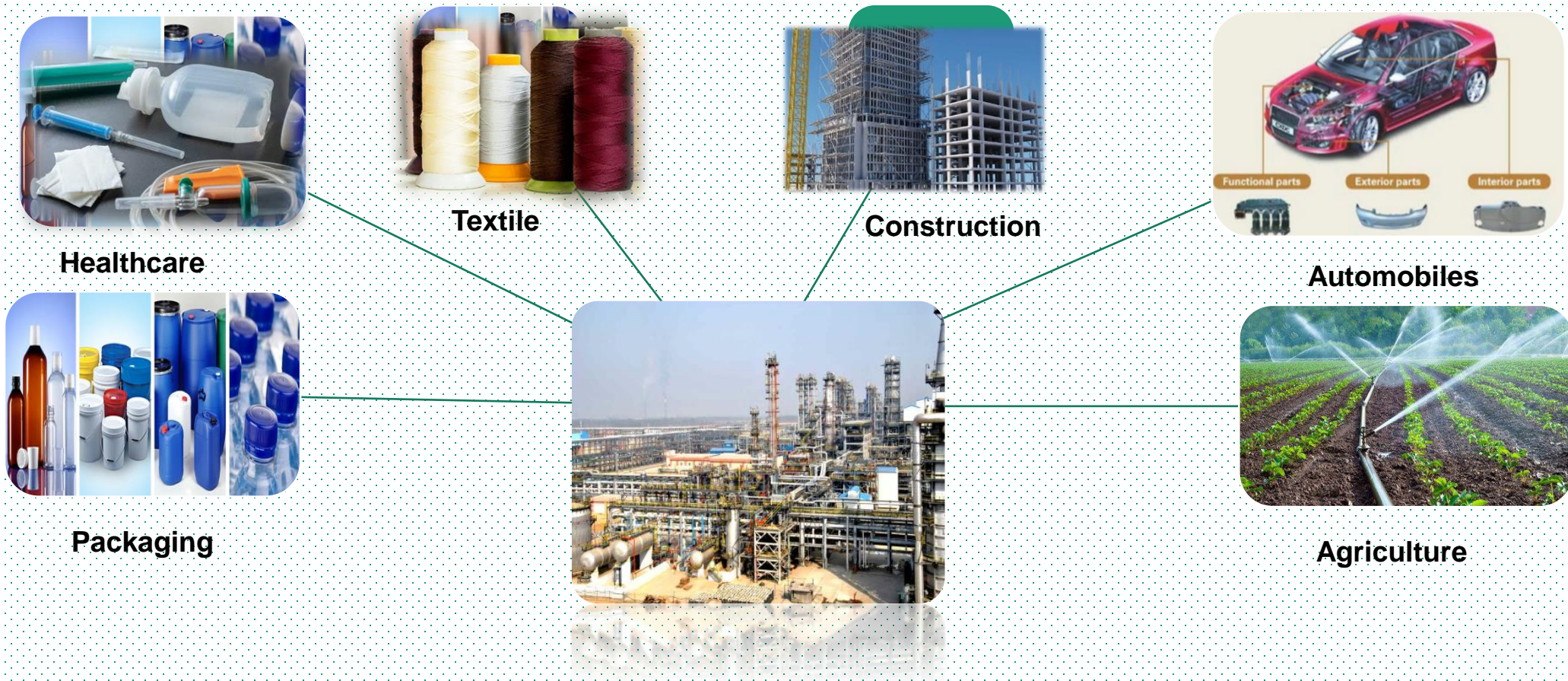
2020

2021



| Real GDP growth (Annual percent change) | India | China | S. Korea | UAE | Japan | United States | United Kingdom | Germany | France |
|--|-------|-------|----------|------|-------|---------------|----------------|---------|--------|
| 2020 | -10.3 | 1.9 | -1.9 | -6.6 | -5.3 | -4.3 | -9.8 | -6 | -9.8 |
| 2021 | 8.8 | 8.2 | 2.9 | 1.3 | 2.3 | 3.1 | 5.9 | 4.2 | 6 |

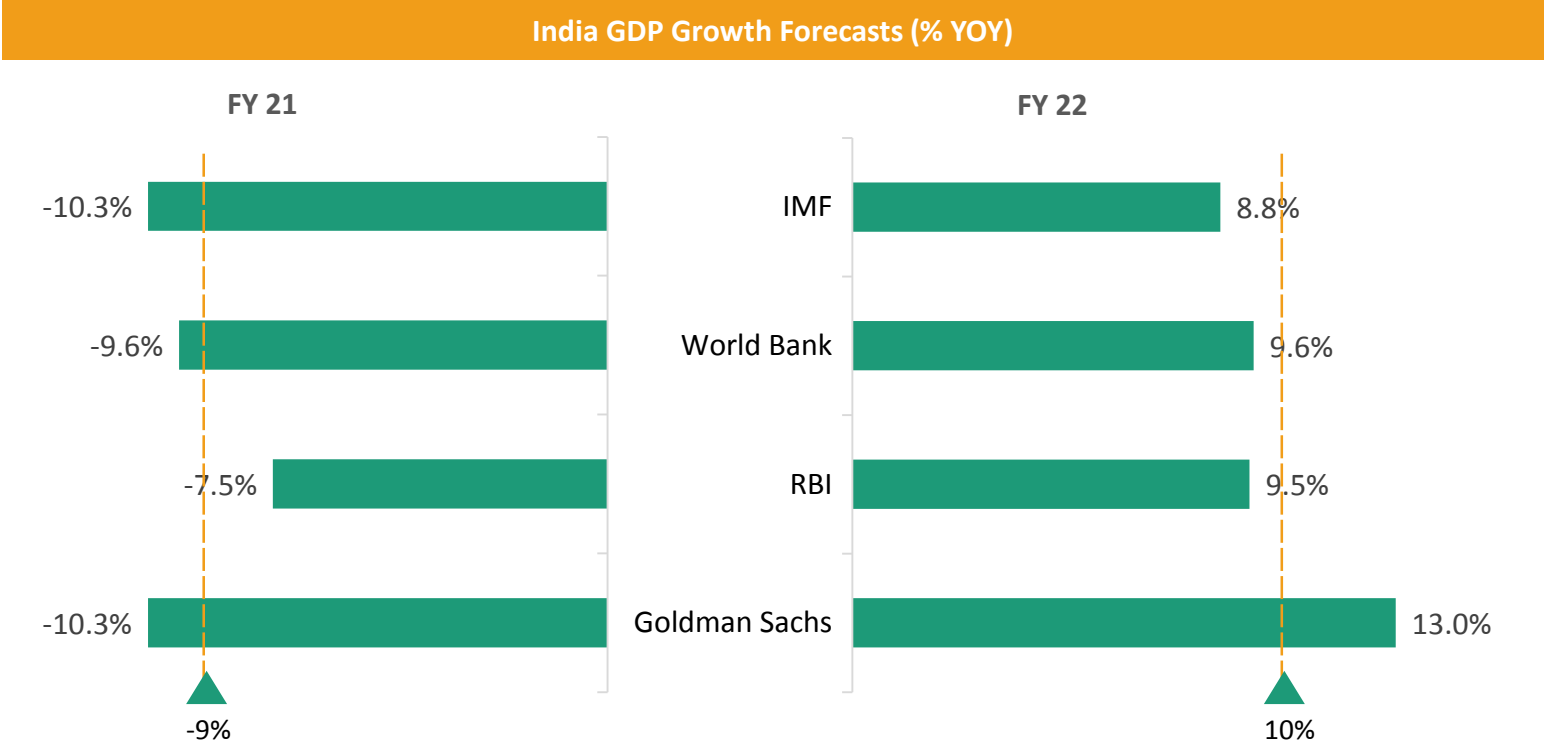
Importance of Chemicals & Petrochemicals



- **Chemicals & Petrochemicals Sector :**
 - Raw material provider
 - Performance enhancer
 - Growth Enabler
- **Growing at a rate of 1.3-1.5 times of GDP**

India is estimated to surpass the major economies growing at the highest rate post pandemic

GDP Growth Forecast



- India remains an oasis of growth amongst slowing global outlook and post pandemic world
- India is projected to be the fastest growing economy surpassing China in FY 2022

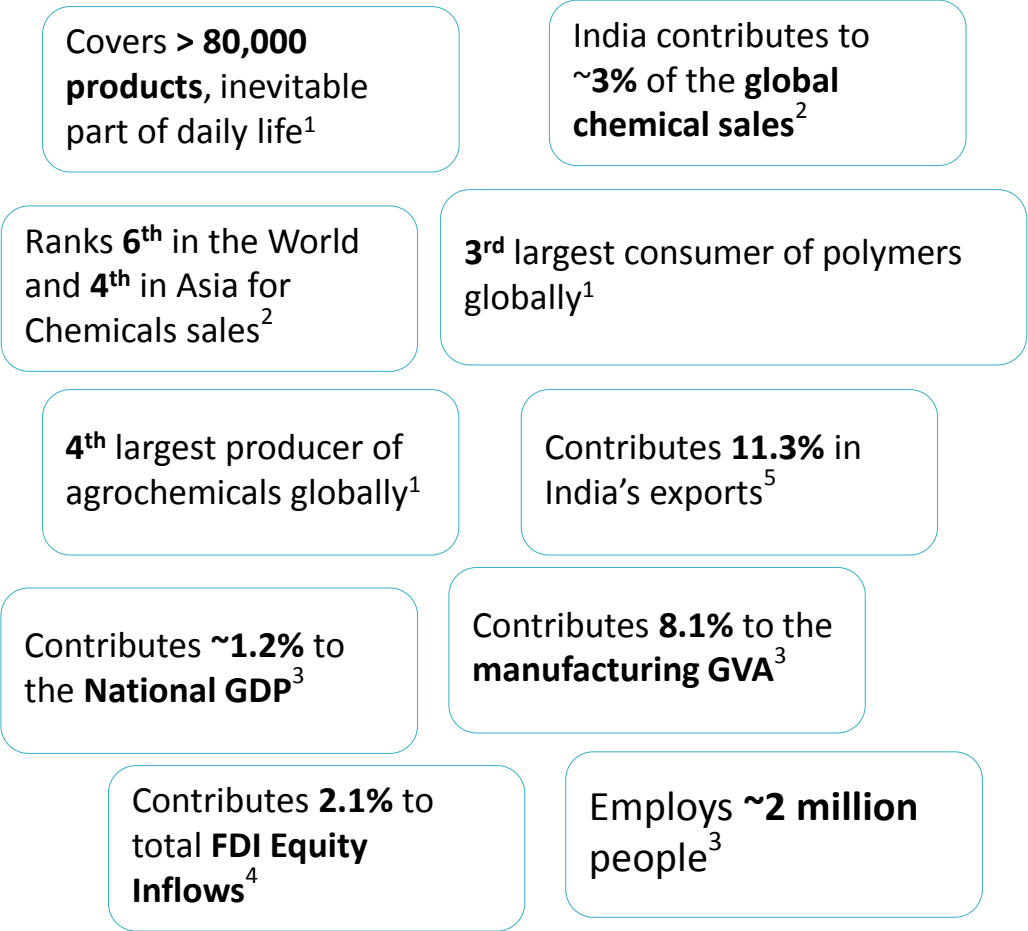
Note: 1- IMF October 2020 estimates

Source: IMF, World Bank, RBI, Goldman Sachs

| 2022 GDP Growth Forecast for Major Economies ¹ | |
|---|------|
| India | 8.8% |
| China | 8.2% |
| France | 6.0% |
| United Kingdom | 5.9% |
| Germany | 4.2% |
| United States | 3.1% |
| Russia | 2.8% |
| Japan | 2.3% |
| World | 5.2% |

Chemical & Petrochemical Industry's shares and contributions in Indian Economy

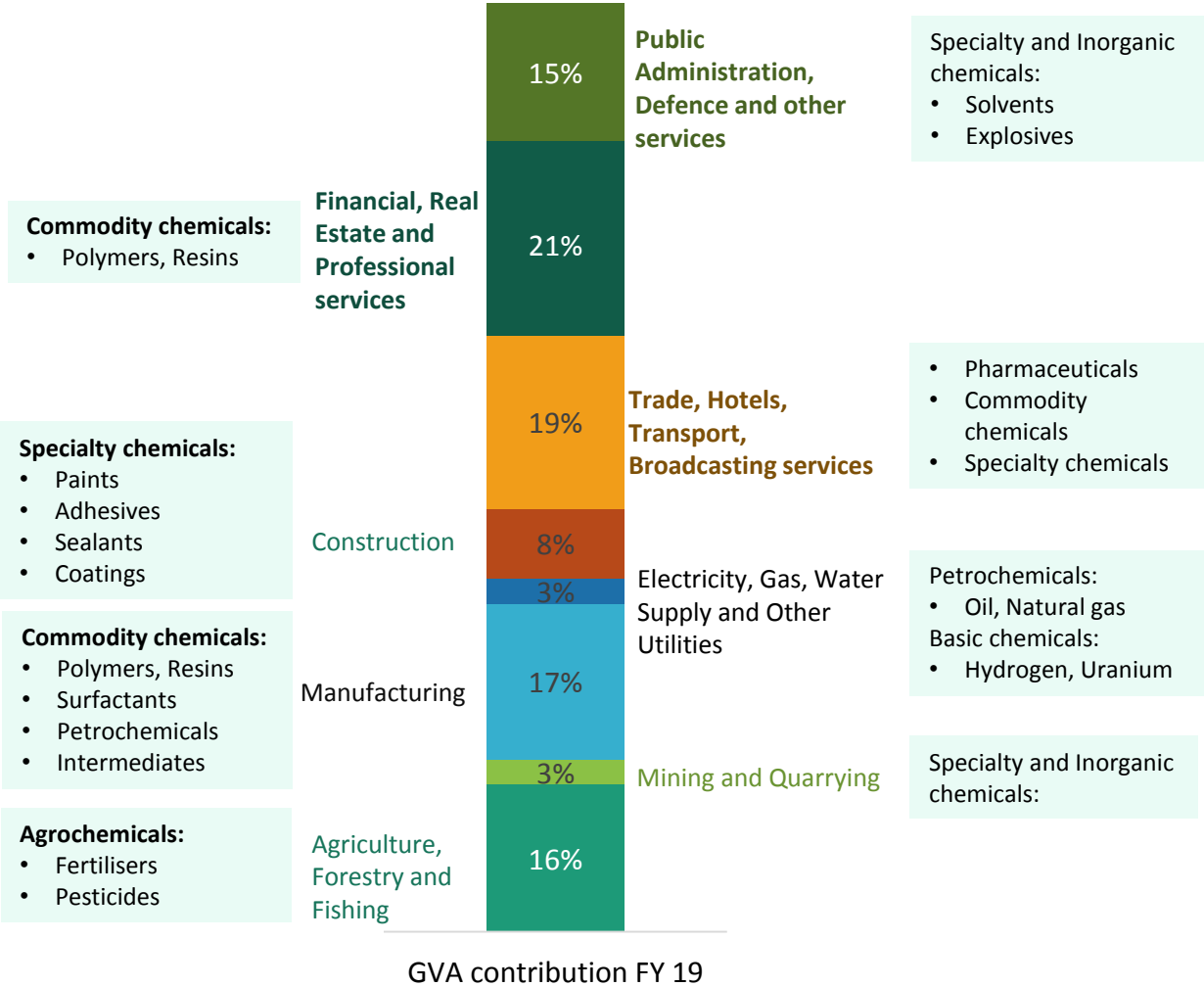
Contribution of India is growing in the Chemical & Petrochemical Industry



Source: CEFIC, EY Analysis, RBI Handbook of Statistics, MOSPI

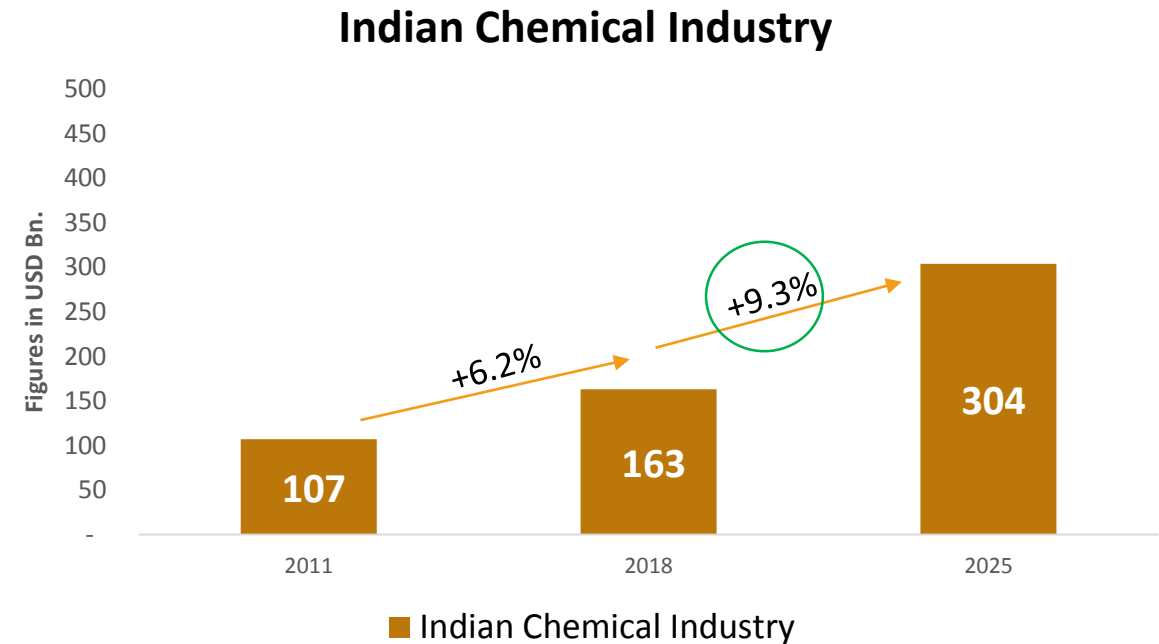
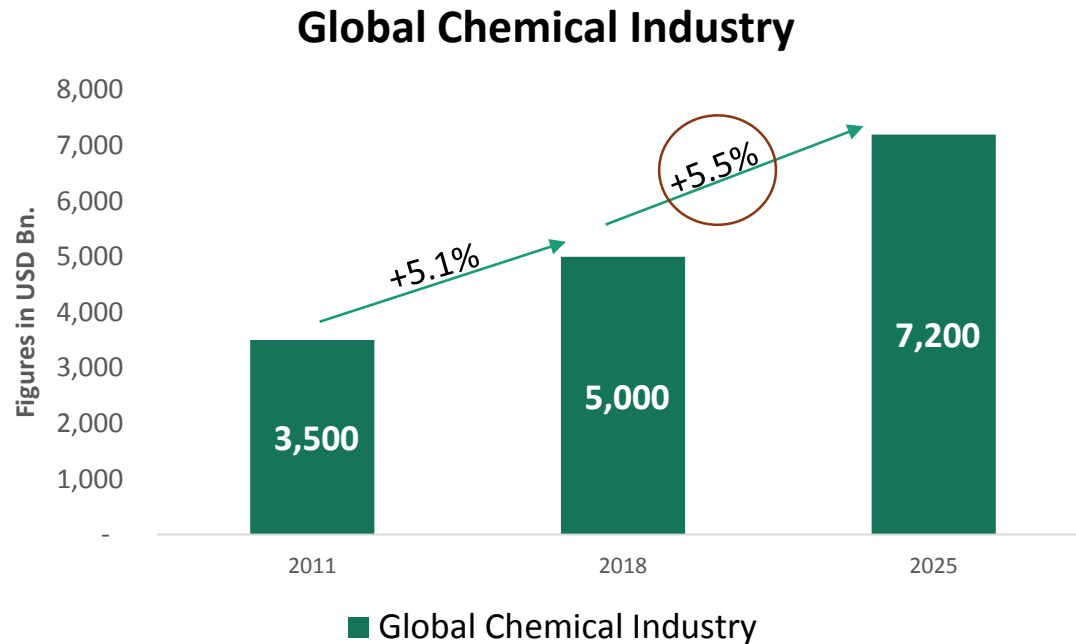
Source: 1-Invest India, 2-CEFIC 2020 facts & Figures, 3- Ministry of Stats and Programme Implementation, 4- Department for Promotion of Industry and Internal Trade , 5- Ministry of Commerce & Industry

Chemicals are present across the value chain in each sector



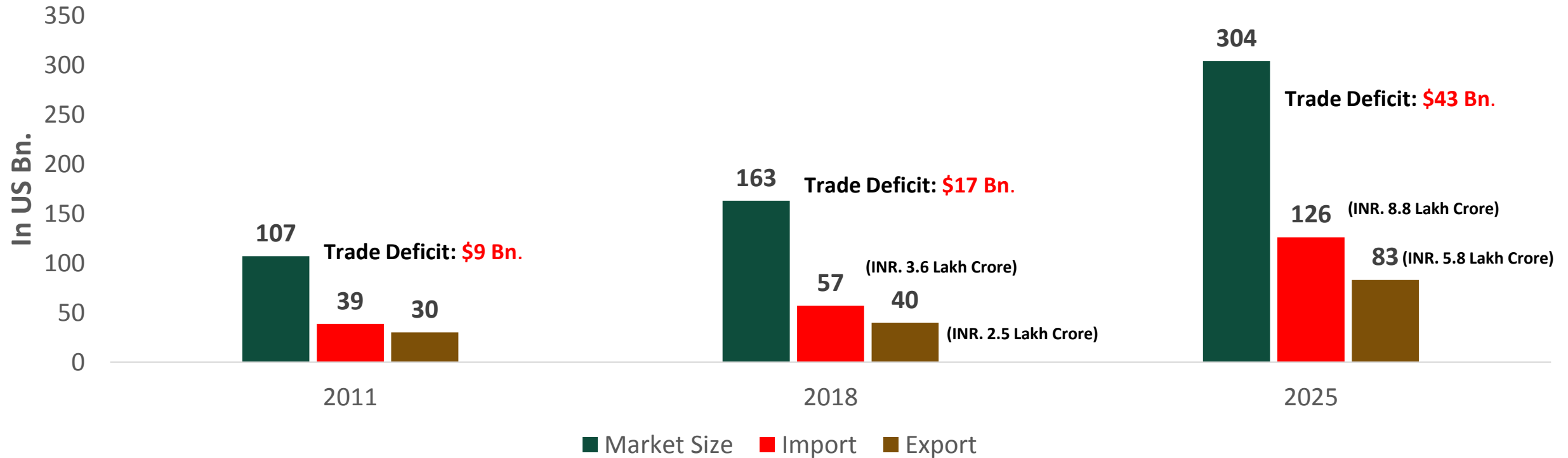
Note: 2- Excludes Pharmaceutical industry

Indian chemical industry is poised to grow at a CAGR of 9.3% till FY25



With strong growth drivers, Indian Chemicals & Petrochemicals Industry is projected to grow much faster than the Global Chemicals and Petrochemicals Industry

Indian Chemical Industry Market and the opportunity



- The market size is growing, **trade deficit is also growing at a much faster rate.**
- There is an **opportunity to produce USD 126 Bn (INR. 8.8 Lakh Crore)** worth of chemical products.

Source: DCPC

Note: Only Market Size includes Pharmaceuticals & Fertilizers/ FICCI

India is establishing itself as the global investment destination

Business environment in India



- FDI inflows has grown by ~**11%** in past 5 years, accounting for ~\$ 50 billion in FY'20



Ease of Doing Business

- Ranked **63rd** in World Bank's Ease of Doing Business 2020 report, improved its ranking by 79 positions in last 6 years



Innovation

- Ranked **48th** in Global Innovation Index 2020, Up 9 places since 2018



Start-up Culture

- Ranked **3rd** in World with **9300 start-ups** after USA and UK



Chemical & Petrochemical Production

- In past 4 years production of total basic major chemicals and petrochemicals has grown at a CAGR of **4.78%**

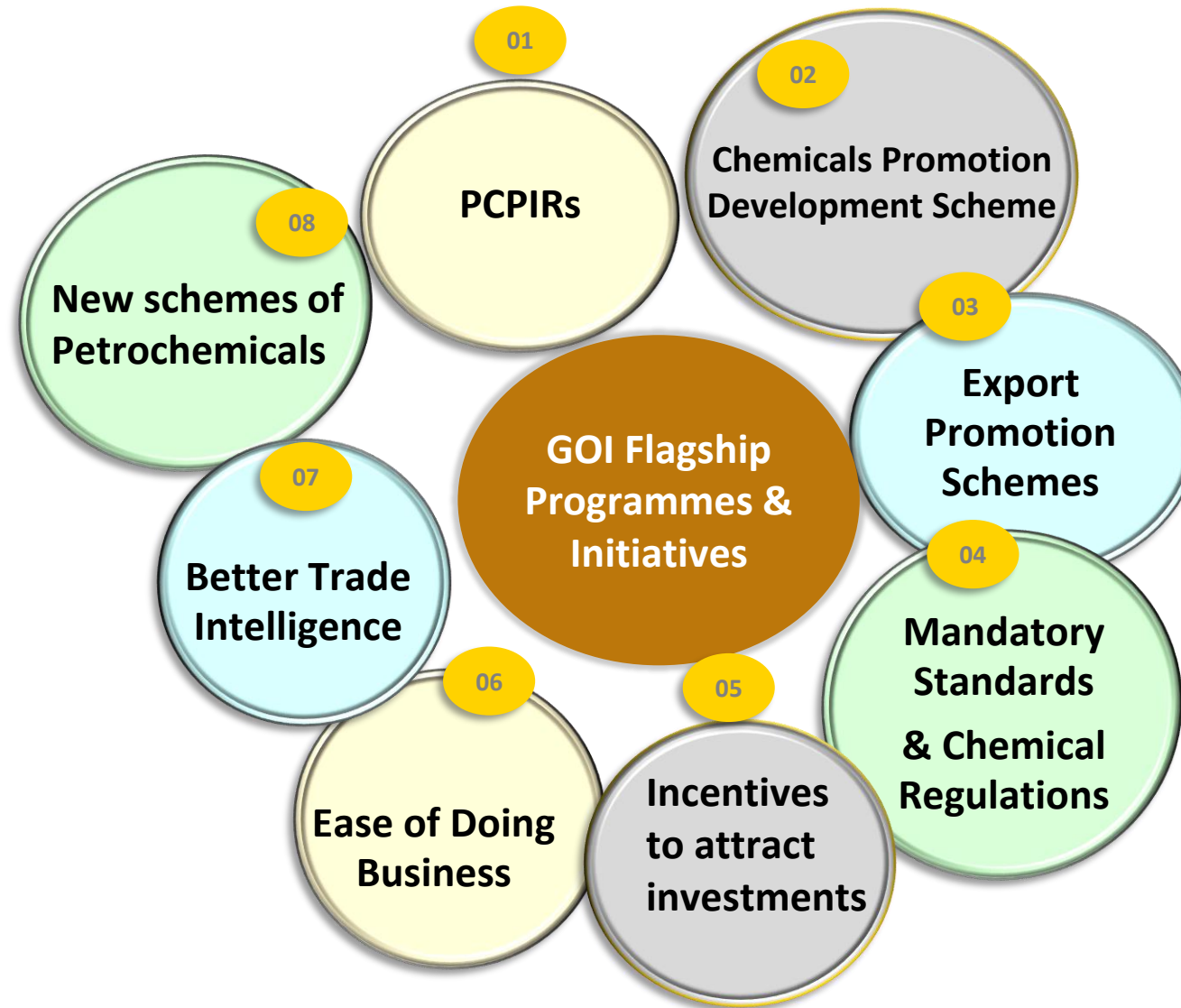


Logistics

- Ranked **44th** in World Bank's Logistics Performance Index Report 2018, Up by **10** places since 2014



Government of India initiatives for promotion of the sector



Cabinet approves PLI Scheme to 10 key Sectors for Enhancing: India's Manufacturing Capabilities and Enhancing Exports – Atmanirbhar Bharat

- Approval to introduce the Production-Linked Incentive (PLI) Scheme in the following 10 key sectors for Enhancing India's Manufacturing Capabilities and Enhancing Exports – Atmanirbhar Bharat.

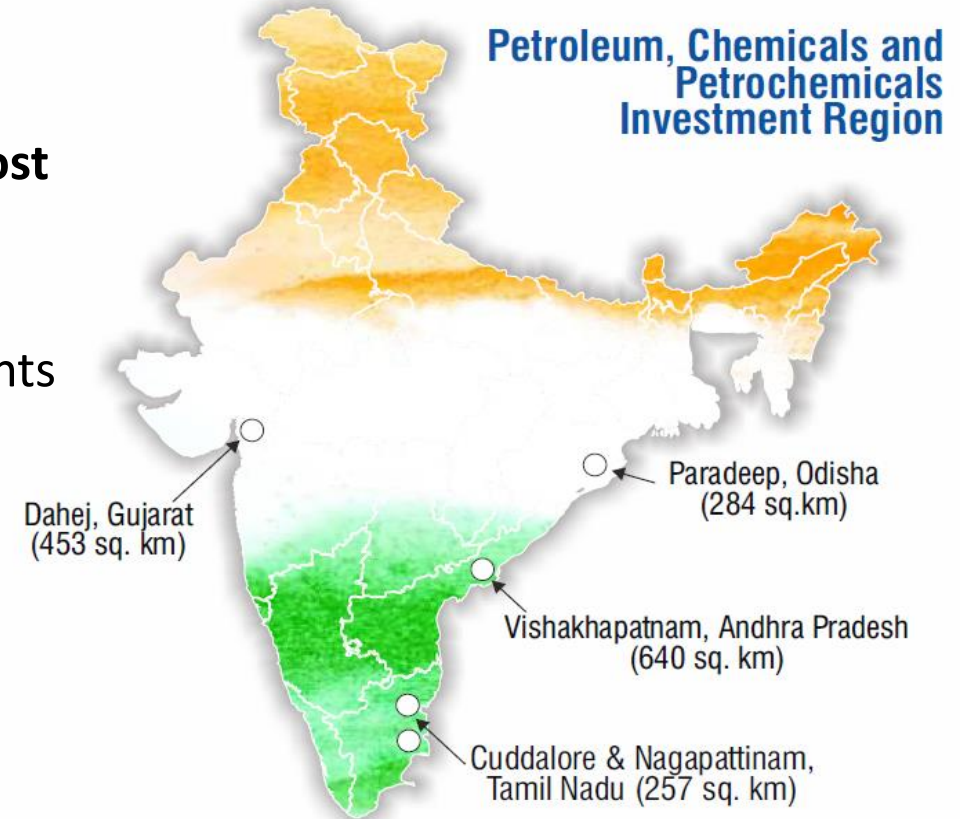
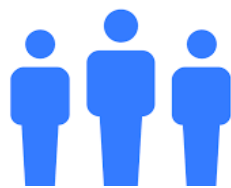
| <u>Priority</u> | <u>Sectors</u> | <u>Implementing Ministry/Department</u> | <u>Approved financial outlay over a five-year period Rs.crore</u> |
|------------------------|--|---|--|
| 1. | Advance Chemistry Cell (ACC) Battery | NITI Aayog and Department of Heavy Industries | 18100 |
| 2. | Electronic/Technology Products | Ministry of Electronics and Information Technology | 5000 |
| 3. | Automobiles & Auto Components | Department of Heavy Industries | 57042 |
| 4. | Pharmaceuticals drugs | Department of Pharmaceuticals | 15000 |
| 5. | Telecom & Networking Products | Department of Telecom | 12195 |
| 6. | Textile Products: MMF segment and technical textiles | Ministry of Textiles | 10683 |
| 7. | Food Products | Ministry of Food Processing Industries | 10900 |
| 8. | High Efficiency Solar PV Modules | Ministry of New and Renewable Energy | 4500 |
| 9. | White Goods (ACs & LED) | Department for Promotion of Industry and Internal Trade | 6238 |
| 10. | Speciality Steel | Ministry of Steel | 6322 |
| Total | | | 145980 |

PCPIRs as Chemical and Petrochemical Hubs

India aspires to become a global manufacturing hub for chemicals & petrochemicals



- Envisioned as **world class manufacturing hubs to produce cost effectively**
- **Supported** by the Government of India and State Governments
- Promotion of **Investments**
- **Employment** Generation



Projected investment of Rs. 7.63 lakh crore (about 108 billion US \$), targeted **employment generation** of 3.4 million

Govt. has also introduced Atmanirbhar Bharat Economic Stimulus Package

Package Amount: INR 20,97,053 Cr

Applicable for 5 years starting FY 2020-21

| Tranche 1 | Tranche 2 | Tranche 3 | Tranche 4 & 5 |
|---|--|---|---|
| INR 5,94,550 Cr | INR 3,10,000 Cr | INR 1,50,000 Cr | INR 48,100 Cr |
| <ul style="list-style-type: none"> • INR 20,000 Cr Subordinate Debt for Stressed MSMEs and INR 50,000 Cr equity infusion through MSME Fund of Funds • INR 3,00,000 Cr emergency working capital facilities for businesses including MSMEs • INR 30,000 Cr Special Liquidity Scheme for NBFC/HFC/MFIs • INR 45,000 Cr Partial credit guarantee Scheme 2.0 for Liabilities of NBFCs/MFIs • INR 90,000 Cr Liquidity Injection for DISCOMs | <ul style="list-style-type: none"> • Food grains supply and 'One Nation One Ration Card' scheme for migrant workers • Loans for small businesses, credits for street vendors • Housing subsidy for middle class • Working capital funding for farmers | <ul style="list-style-type: none"> • Agricultural infrastructure fund of INR 1,00,000 Cr • Support to agriculture sector <ul style="list-style-type: none"> – Micro food enterprises – Cattle vaccination – Fisheries – Fruits & vegetables – Herbal cultivation & beekeeping | <ul style="list-style-type: none"> • Tranche 4 is focused on policy reforms to fast-track investments and upgrade industrial infrastructure • Tranche 5 is focused on improving ease of doing business, health reforms and technology driven education post COVID, public new sector enterprise policy (disinvestment/ privatization), support to state governments |

Earlier Measures

INR 1,92,800 Cr: Pradhan Mantri Garib Kalyan Package

INR 8,01,603 Cr: RBI Liquidity Measures

MSME- NBFC- Non Banking Finance Companies, HFC- Housing Finance Companies, MFI- Micro Finance Institution, DISCOM- Power Distribution Company

Source: Ministry of Finance, PBI

Chemicals & Petrochemicals Vision 2025

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**

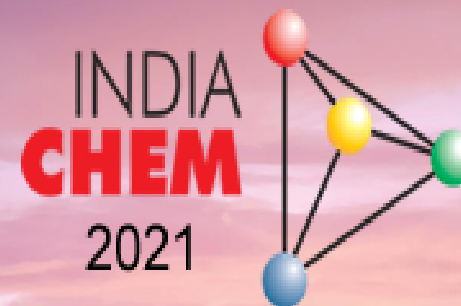
...contribute USD 200 Bn to Manufacturing sector (USD 1 Trn) of USD 5 Trn Indian Economy



Dept. of Chemicals & Petrochemicals
Govt. of India



(11th Biennial International Exhibition & Conference)
17th - 19th March 2021
Hotel Taj Palace, New Delhi



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AGENDA

Day 01

**Time
(Hrs.)**

Wednesday, 17 March 2021

1200 – 1900 hrs.

Physical & Virtual Exhibition

0900 – 1030 hrs.

Registration

1030 – 1155 hrs.

Inaugural Session

1200 – 1400 hrs.

Global CEOs Round Table

1400 – 1500 hrs.

Business Networking Lunch

1500 – 1700 hrs.

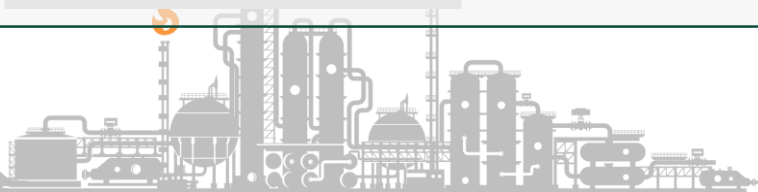
**Conclave on Global Chemical Industry; Special focus on
Specialty Chemicals**

1800 – 2015 hrs.

**FICCI Chemicals & Petrochemicals Awards Distribution
Function**

2015 hrs. onwards

Business Networking Dinner



AGENDA

Day 02

Time
(Hrs.)

Thursday, 18 March 2021

1200 – 1900 hrs.

Physical & Virtual Exhibition

0900 – 1030 hrs.

Virtual Buyer Seller Meet

1100 - 1300 hrs.

Conclave on Global Petrochemical Industry in synergy with GCC

1100 - 1300 hrs.

Conclave on Capital Goods, Process, Plant Machinery, Pumps & Valves Roundtable

1300 - 1400 hrs.

Business Networking Lunch

1400 - 1600 hrs.

Conclave on Global Agrochemical Industry

1600 hrs. onwards

High Tea



AGENDA

Day 03

Time
(Hrs.)

Friday, 19 March 2021

1000 – 1900 hrs.

Physical & Virtual Exhibition

1100 - 1300 hrs.

India – Japan Chemicals & Petrochemicals Forum

1500 - 1700 hrs.

India – EU Chemicals & Petrochemicals Forum

1800 - 2000 hrs.

India – US Chemicals & Petrochemicals Forum



Presence of Major Players from Chemicals, Petrochemicals and Agrochemicals Industry

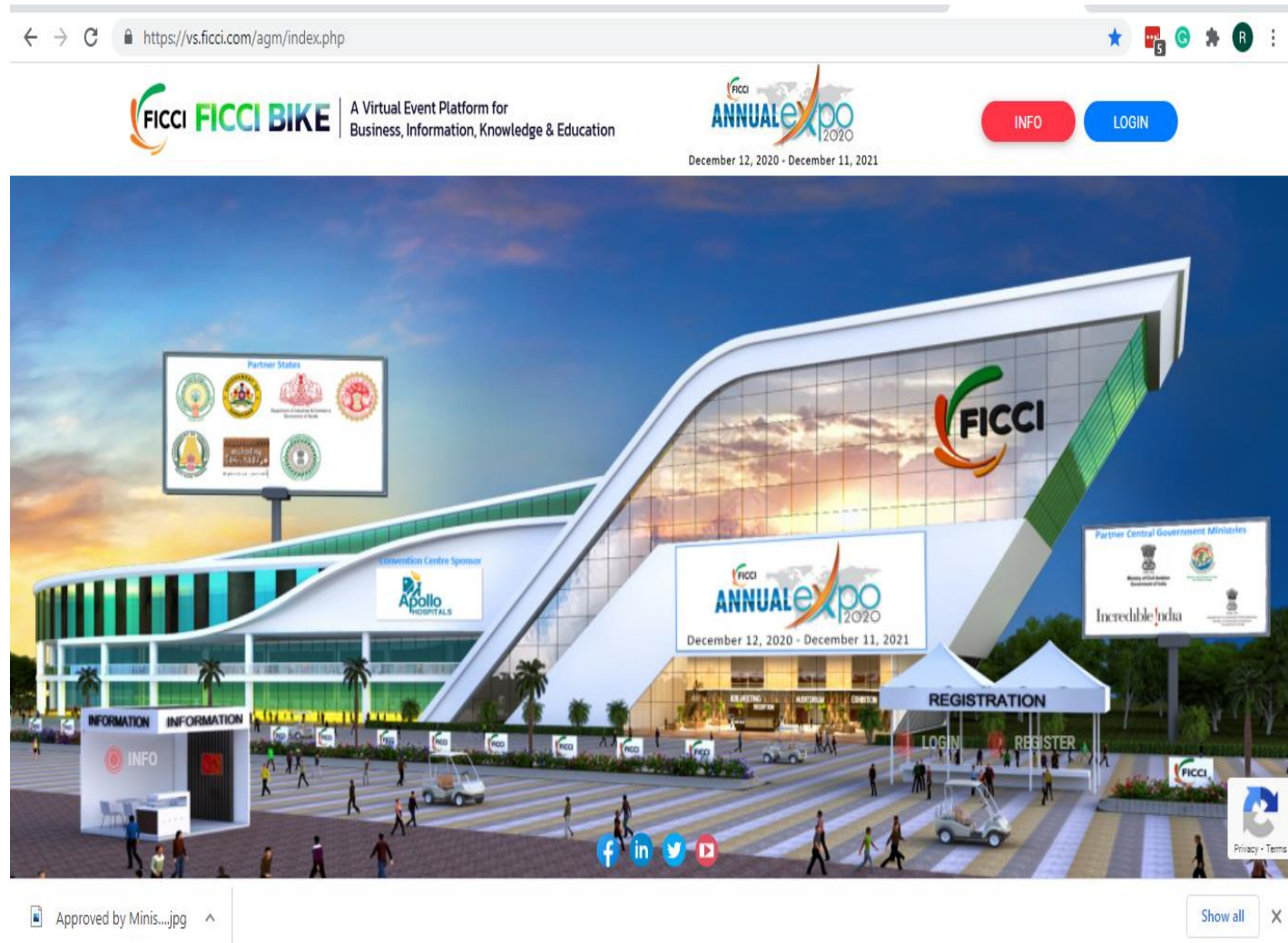
- ✓ Reliance
 - ✓ Indian Oil
 - ✓ Gail
 - ✓ Sabic
 - ✓ Deepak Nitrite
 - ✓ Tata Chemicals
 - ✓ HMEL- HPCL
 - ✓ UPL
 - ✓ OPAL
 - ✓ Aditya Birla
 - ✓ Dhanuka
 - ✓ Indofil
 - ✓ Rashtriya Chemicals and Fertilizers Limited
 - ✓ GSFC
 - ✓ GACL
 - ✓ HOCL
 - ✓ Gharda Chemicals
 - ✓ GNFC
 - ✓ Haldia Petrochemicals
 - ✓ HIL
 - ✓ BASF
 - ✓ Aarti Industries
 - ✓ The Sanmar Group
 - ✓ Thirumalai Chemicals Ltd
 - ✓ Jubilant Life Sciences Limited
 - ✓ Atul Ltd.
 - ✓ Bayer Crop Science Limited
 - ✓ Clariant Chemicals (India) Ltd
 - ✓ Lanxess India Pvt. Ltd.
 - ✓ Solvay Specialities India Pvt. Ltd.
 - ✓ Corteva Agri sciences
 - ✓ India Glycols Ltd
 - ✓ THIRUMALAI CHEMICALS LIMITED
 - ✓ Tagros chemicals India Pvt Ltd
 - ✓ Ratnagiri Refinery & Petrochemicals Ltd.
 - ✓ Parijat Industries (I) Pvt. Ltd
 - ✓ Brahmaputra Cracker and Polymer Ltd
- and many more...



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2 Sardar Patel Marg Diplomatic Enclave , New Delhi

Steps to Join India Chem Virtually



Demo Video to view how virtual conference and exhibition will be organized on Ficci Bike during India Chem 2021.

1. Demo Video

<http://indiachem.in/virtual-platform.php>

2. URL to register

<https://vs.ficci.com/agm/index.php>

3. Registered email will be used to login

@ <https://vs.ficci.com/agm/index.php#>

How you can Support ?

- **Investment:**
 - Identify corporate/ industry interested in green/brownfield projects
 - Identify potential investors from your country
- **India Chem 2021 Promotion:**
 - Promote India Chem 2021 by disseminating information to respective trade entities in your country
- **Participation:**
 - Disseminating India Chem 2021 information across all the sectoral association companies and government bodies in your country
 - Investment Delegation/ Trade Delegation
 - Speakers Participation from Major companies worldwide - Chemicals/ Petrochemicals
- **Trade Relation:**
 - To suggest innovative ways (country specific) to facilitate trade and investment in this important sector.

Thank You...




Department of Chemicals & Petrochemicals
Ministry of Chemicals & Fertilizers
Government of India



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