



### Contents

- Advantage India
- Market overview and trends
- Growth drivers
- Success stories: TATA Chemicals, UPL, Asian Paints
- Opportunities
- Useful information







### Advantage India

### Demand potential

- A large population, agriculture dependency, and strong export demand are the key growth drivers for chemicals
- Per-capita consumption of chemicals in India is lower relative to Western peers and there is a large latent demand

Advantage India

### Increasing investments

- Lured by the size and returns of the Indian market, foreign firms have increased their presence
- From April 2000 to March 2012, total FDI inflows into the Indian chemicals industry (excluding fertilisers) was USD9.8 billion

### Opportunities

- Polymers will benefit from strong growth in plastic demand
- construction chemicals is another growth area given expected investment spike in infrastructure; by 2015, the segment's size is set to double relative to 2010

### Policy support

- 100 per cent FDI is permissible in the Indian chemicals sector; manufacturing of most chemical products are de-licensed
- The government has been encouraging R&D in the sector
- Setting up of PCPIRs

FY17E

Market size: USD290 billion

FY12

Market size: USD108 billion

Source: TATA strategic management group, Planning commission, Department of Industrial Policy and Promotion (DIPP), Aranca Research Notes: PCPIR - Petroleum, Chemicals and Petrochemical Investment Regions; E — Estimated,

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### Evolution of the Indian chemical industry

### LIBERALISATION

### CONSOLIDATION

#### **ESTABLISHMENT**

### BASIC NEEDS

### 1950-72

- Chemical products to protect crops
- Agrochemicals, dyes, pharmaceuticals

 Public sector companies were set up to develop the petrochemical industry

1972-80

Plastic and fibres, petrochemical products

#### 1980-92

- Consolidation started from largely fragmented firms with small capacities and high cost structures
- Paints, dyes, pharmaceuticals and detergents

### 1992-95

- Major investment plans by both Indian firms and MNCs
- Lower tariff barriers
- Diminishing role of public sector companies
- Petrochemicals, engineering plastic, speciality fibres

### EXPANSION

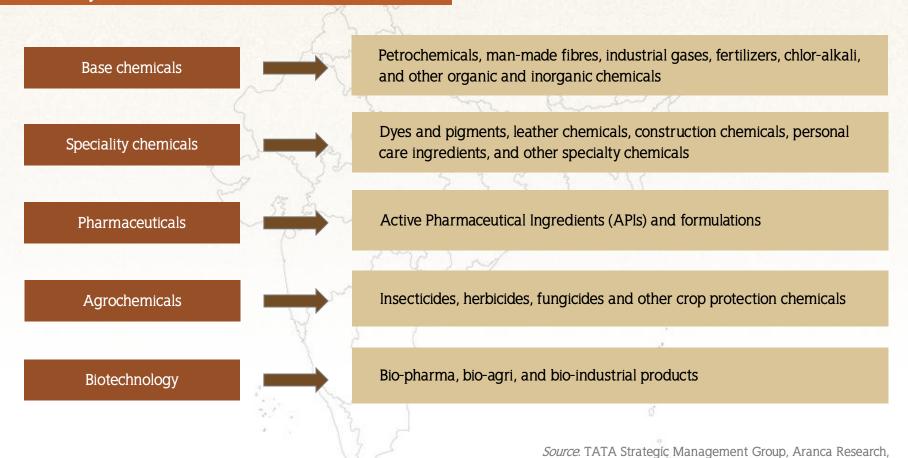
#### 1995 onwards

- Alliances and partnerships to achieve scale
- Branding as a means of differentiation
- Licensing requirements have been removed except in the case of hazardous chemicals
- Setting up of PCPIR

Source: KPMG, Aranca Research Notes: MNC – Multinational corporation



# Major segments of the Indian chemical industry





# Product-wise classification of the Indian chemical industry

	Al	kā	ali	
cł	ner	ni	Cā	ıls

Inorganic chemicals

### Organic chemicals

#### Pesticides and insecticides

Dyes and dyestuffs

- Soda ash
- Caustic soda
- Liquid
- Chlorine

- · Aluminum flouride
- Calcium carbide
- Carbon black
- Potassium chlorate
- · Titanium dioxide
- Red phosphorus

- Acetic acid
- Acetone
- Phenol
- Methanol
- Ortho Nitro Chlorobenzene (ONCB)
- Isobutyl
- Para Nitrochlorobenzen e (PNCB)
- Ethyl

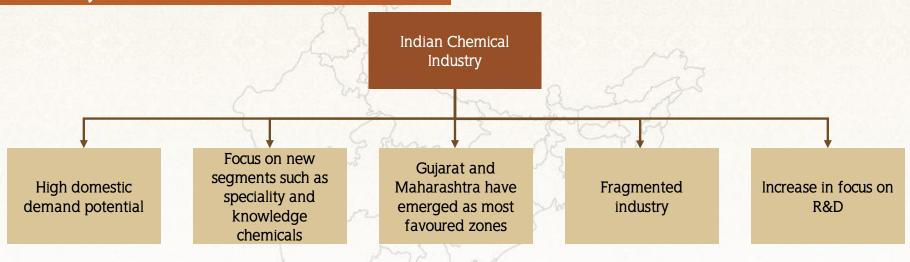
- Dichlorodiphenyltri chloroethane (DDT)
- Malathion
- Parathion
- Ethicon
- Endosulphan
- Phosalone
- Phorate
- · Acephate
- Fenvalerate

- Azo dyes
- Disperse dyes
- Fast colour bases
- Ingrain dyes
- Napthols
- Vat dyes
- Reactive dyes
- Pigment Emulsion

Sources. Aranca Research



# Characteristics of the Indian chemical industry



- · The industry has changed over time to meet the dynamic needs of an emerging economy
  - Strong economic growth and rise in per-capita incomes has meant a steady increase in demand for chemicals
- The industry has left behind a low-growth and regulated environment to emerge more mature
- There is strong government support towards R&D, a fact that will benefit the sector in the future as well

Sources: KPMG international 2011, Aranca Research Notes: R&D – Research and development

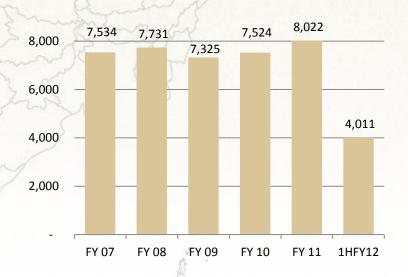
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# Both domestic and external demand driving growth in the sector ... (1/2)

- → Total production in the Indian chemical industry was 8,022 MT in FY11, a 7 per cent rise over FY10
  - → Figures available for FY12 indicate that by the end of the first half of the fiscal, production stood at about half of FY11 levels
- → Favourable demographics and strong economic growth are driving demand for chemicals
- → External demand and specialty chemicals have also contributed strongly to the growth of the industry
- → India's growing per capita consumption and demand for agriculture-related chemicals offers huge scope of growth for the sector in future

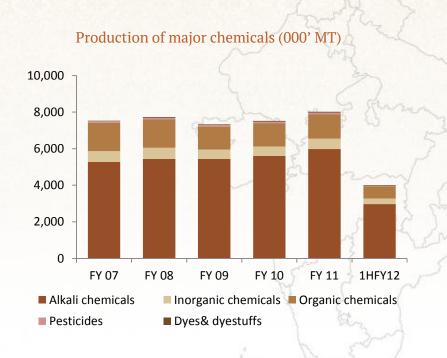
#### Total chemical production (000' MT)



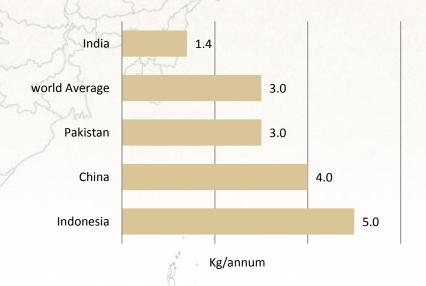
Source: Department of Chemicals and Petrochemicals,
Aranca Research
Note: MT-Metric Tonne, 1HFY12- Data up to September 2011



# Both domestic and external demand driving growth in the sector $\dots$ (2/2)



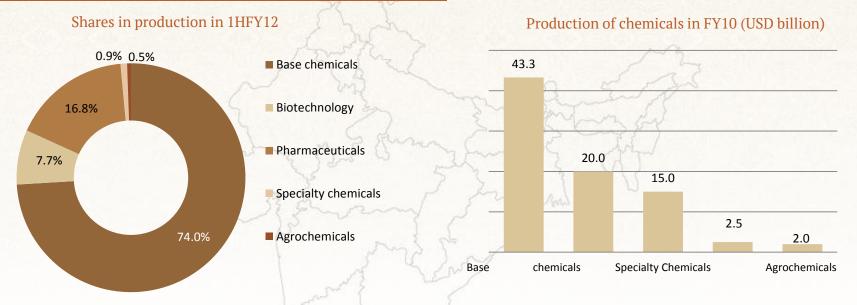
#### Annual per-capita polyester consumption (2010)



Source: Department of Chemicals and Petrochemicals, Aranca Research
Note: MT-Metric Tonne, 1HFY12- Data up to September 2011
Kg: Kilo gram,



# Base chemicals account for more than half of total production



- Base chemicals covers three fourth (74 per cent) of the Indian chemical industry followed by pharmaceuticals (16.8 per cent) and biotechnology (7.7 per cent)
- Agrochemicals and speciality chemicals are the minor components of the sector accounting for 0.5 per cent and 0.9 per cent of production in 1HFY12
- Speciality chemicals are relatively high valued; The sector is rapidly growing and have a diverse end-product market

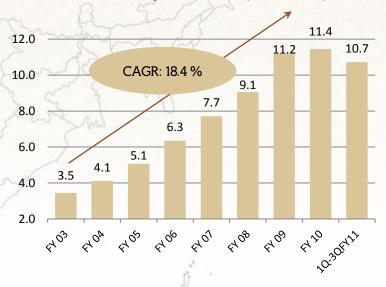
Source: Department of Chemicals and Petrochemicals, Aranca Research Note: 1HFY12 – First six months of FY12 (Apr – Sep)



# Exports have been rising over the years...

- → Chemicals constitutes more than 14 per cent of India's total exports
- → Total exports of chemicals grew from USD3.6 billion in FY03 to USD11.4 billion in FY10, a CAGR of 18.4 per cent
- → Exports of the Indian chemical industry stood at USD10.7 billion for the first nine months of FY12 (Apr-Dec 2011)

#### Chemical exports of India (USD billion)



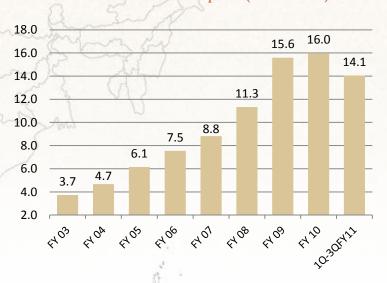
Source: Department of Chemicals and Petrochemicals,
Aranca Research
Note: Data for FY11 is up to December 2011



# ...but, India is a net importer of chemicals

- India has been a major importer of chemicals; the sector made up 9 per cent of India's total imports in FY10
- → Total imports of chemicals reached USD14.1 billion in the first three quarters of FY11; in FY10 imports had stood at USD16.0 billion

#### India's chemical imports (USD billion)

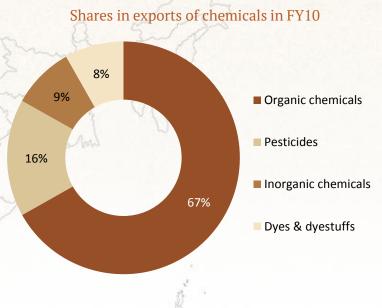


Source: Department of Chemicals and Petrochemicals,
Aranca Research
Note: Data for FY11 is up to December 2011



# Organic chemicals dominate both exports and imports ... (1/2)

- → Organic chemicals constitute more than 67 per cent of India's total chemical exports, followed by pesticides at 16 per cent (FY10)
- Over FY02-10 pesticide exports rose at a CAGR of 26 per cent; for organic chemicals the figure was 21 per cent



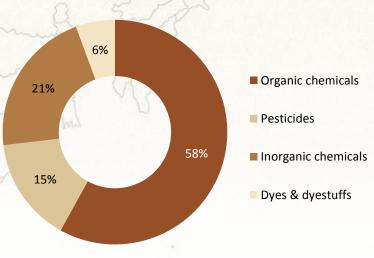
Source: Department of Chemicals and Petrochemicals,
Aranca Research



# Organic chemicals dominate both exports and imports ... (2/2)

- → Among chemical imports, organic chemicals also dominate with a share of 58 per cent followed by pesticides at 15 per cent (FY10)
- → Over FY02-10 pesticide imports rose at a CAGR of 54 per cent followed by organic chemicals (22.5 per cent)

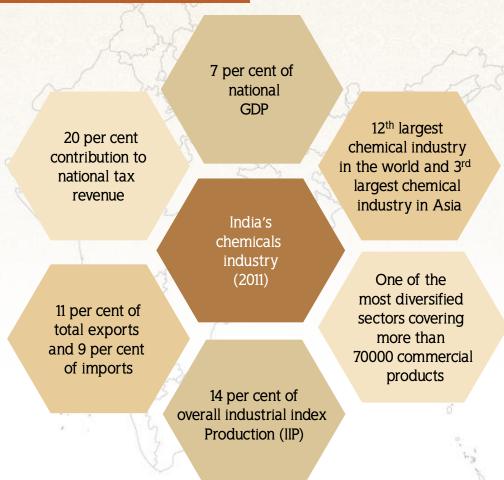




Source: Department of Chemicals and Petrochemicals,
Aranca Research



Chemical industry holds a significant position in the economy



Source: Ministry of Environment and Forests, Central Pollution Control Board, Aranca Research Note – Figures mentioned above is taken from Dept. of Chemicals and Petrochemicals



# High growth would lead to rising global positioning

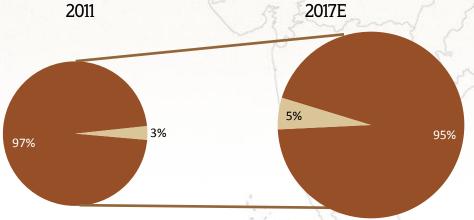
#### 2011

- Global chemical industry: USD3.4 trillion
- India chemical industry: USD108 billion

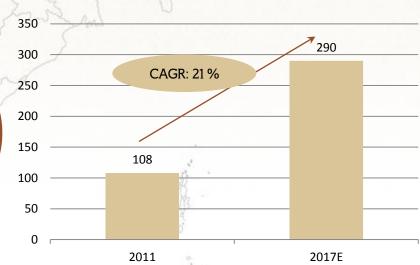
#### 2017E

- · Global chemical industry: USD5 trillion
- · India chemical industry: USD290 billion

### Contribution to global chemical industry will increase



#### Strong growth outlook for the Indian chemicals industry



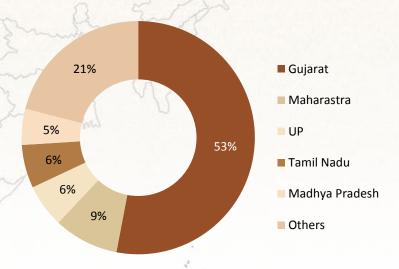
Source. TATA Strategic Management Group, Planning Commission, Aranca Research



# Widespread chemical industry infrastructure across India ... (1/2)

- → Though the sector is spread across the country, there is relatively high concentration along the west coast due to proximity to raw materials and ports
- → Gujarat alone is estimated to contribute about 53 per cent to total production in the country
- Gujarat and Maharashtra emerged as the most favoured zones for the industry, mainly because of government policies, strategic location, and availability of raw material

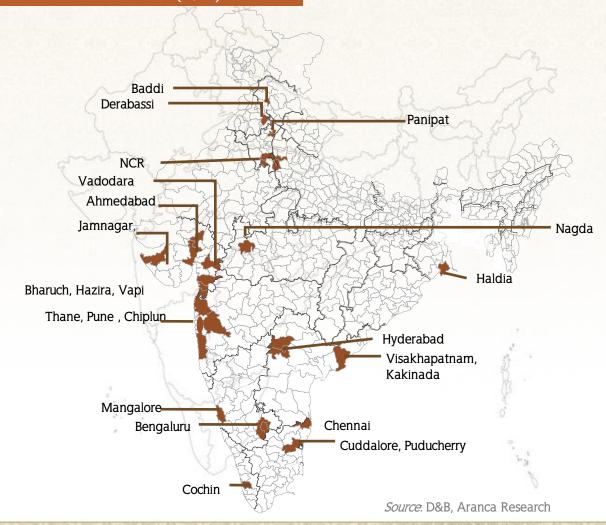
### Regional concentration of basic chemical industry (FY11)



Source. India-Chem, TATA Strategic Management Group, Planning Commission, Aranca Research



Widespread chemical industry infrastructure across India ... (2/2)

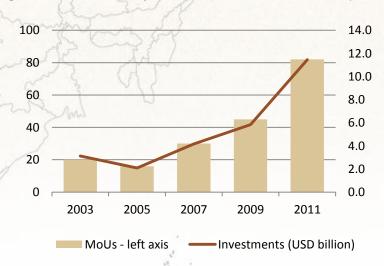




### Gujarat: The chemicals hub of India

- → With the presence of world class production facilities of Indian and multinational chemical manufacturers, Gujarat houses 53 per cent of India's manufacturing capacity of chemicals
- Reliance Industries, ONGC, Dow Chemicals, Cheminova, Lanxess, Gujarat State Fertilizers & Chemicals Ltd (GSFC), Gujarat Alkalis & Chemicals Ltd (GACL) and many other companies have their production facilities in Gujarat
- Government support, world class infrastructure, strategic location, and raw material availability makes Gujarat a preferred location for chemical plants
- → The Dahej PCPIR has been the most successful one; it is spread over an area of around 453 sq km and has attracted investments to the tune of USD25 billion

#### Proposed investments by chemical manufacturers in Gujarat



Note: PCPIR - Petroleum, chemicals and petrochemical investment regions

## Chemicals AUGUST 2012



### Key domestic and international players in Indian chemicals ... (1/2)

Domestic company	Sales in FY12 (USD billion)	Products
Tata Chemicals Limited (TCL)	2.8	Soda ash, salt, marine chemicals, caustic soda, cement etc.
United Phosphorus Limited (UPL)	1.6	Agrochemicals
Nirma Ltd	1.0*	Alkyl benzene, alfa olefin sulphonate, sulfuric acid, soda ash
Gujarat Heavy Chemicals Ltd (GHCL)	0.41	Soda ash
Gujarat Alkalies and Chemicals Ltd (GACL)	0.35	Caustic soda
Solaris Chemtech Industries Ltd	0.05*	Bromine and bromine chemicals





### Key domestic and international players in Indian chemicals ... (2/2)

International Company	Sales in 2011 (USD billion)	Products
BASF	98.5	Chemicals, plastics, performance and nutrition products
The Dow Chemicals	60	Specialty chemicals, agrochemicals and plastics
Bayer	19.3	Agrochemicals, pharmaceuticals, polymers, technology services
E. I. du Pont de Nemours and Company	38	Specialty and fine chemicals
INEOS ABS India	.16*	PVC films and specialty resins
AkzoNobel	21	Coatings, decorative paints and specialty chemicals
Evonik Industries	22	Specialty chemicals
Lanxess	11.8	Plastics, rubber, specialty chemicals and intermediates
Wacker Chemie	6.6	Silicone, polymer, specialty and fine chemicals

Sources. Company ANR, Aranca Research Note: \* sales for Indian entities for FY 2011-12 in Million USD

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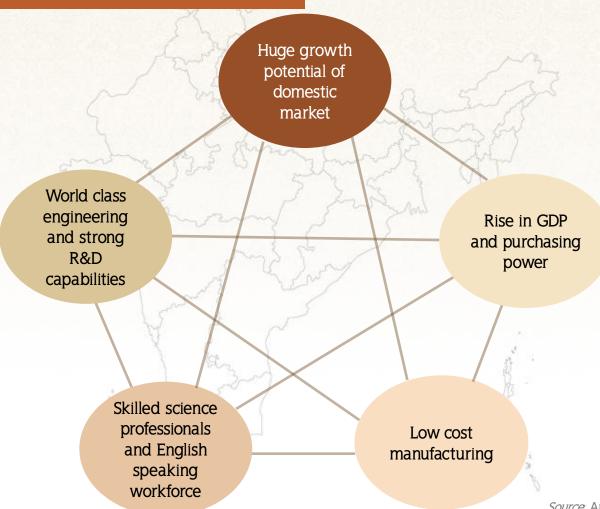




### **AUGUST** Chemicals 2012



Growth drivers of the Indian chemical industry

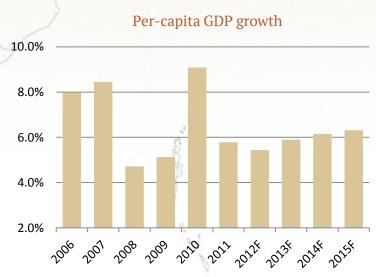




# Economic expansion will continue to drive growth in the chemical industry

- → Being largely an intermediate product, strong economic growth is an important factor in sustaining demand for chemical products
- → Per-capita consumption of most of the finished products under chemicals sector is far below the world average that points to the vast potential for growth in the industry
- As in a number of other industries in India, strong growth in discretionary income and changing lifestyles are counted as few of the other major growth drivers of the chemicals sector





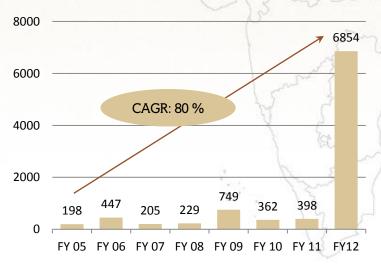
Source: IMF WEO, Aranca Research



### Policy support for foreign investment

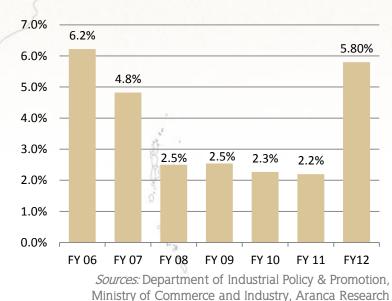
- → FDI in chemicals (other than fertilisers) has grown at a CAGR of 80 per cent over FY05-12 and
- → Procedures relating to FDI have been simplified; most of the items in the chemicals sector fall under the automatic approval route for FDI/NRI/OCB investment up to 100 per cent
- → The USD7.2 billion deal between Reliance Industries Limited and British Petroleum is the most significant deal in Indian chemical sector, driving total FDI inflow to USD5.5 billion in FY12

### Annual FDI inflow to the chemical industry (excluding fertiliser)



Notes: NRI — Non-resident Indian, OCB — Overseas Commercial Bodies

#### Share of chemical industry in total FDI inflow (excluding fertiliser)





### Government support to the sector is increasing ... (1/2)

### All figures are in USD million

Name of the scheme	XI Plan outlay (2007-2012)	Annual Plan FY11	Annual Plan FY12	Annual Plan FY13*
Project based support to PSUs	29.1	4.3	0.0	8.3
Support to autonomous bodies	19.2	0.1	0.2	1.5
Other ongoing schemes	44.2	165.8	183.4	325.8
New schemes initiated in XI plan	25.0	17.9	10.1	30.5
Total	117.5	188.1	193.8	366.0



Source: Department of Chemicals and Petrochemicals, Aranca Research Note: \*- Budgeted estimate



### Government support to the sector is increasing ... (2/2)

### All figures are in USD million

Name of the scheme	Plan outlay (FY10)	Plan outlay (FY11)	Non Plan outlay (FY10)	Non Plan outlay (FY11)	Non Plan outlay (FY12)
Secretariat	0.04	0.13	2.21	2.52	2.79
Central Institute of Plastics Engg. & Technology (CIPET)	4.19	15.42	0.63	0.10	0.10
Assam Gas Cracker Project	65.90	164.94	0.00	0.00	0.00
Chemical Weapons Convention (CWC)	0.17	0.21	0.00	0.00	0.00
Hindustan Insecticides Ltd (HIL)	5.19	3.13	0.00	0.00	0.00
Others	4.19	1.30	0.50	0.54	0.63
Total	83.94	188.13	4.31	158.46	4.58

Source. Department of Chemicals and Petrochemicals, Aranca Research

### Chemicals 2012 AUGUST



### Growth, competitiveness and process initiatives

- The government has announced a number of measures to improve competitiveness in the sector
- Industrial licensing has been abolished for most subsectors (except a small list of hazardous chemicals)
- Approval is being granted for FDI up to 100 per cent in the chemicals sector
- The government is continuously reducing the list of reserved chemical items for production in the smallscale sector, thereby facilitating greater investment in technology up-gradation and modernisation
- Policies have been initiated to set up integrated Petroleum, Chemicals and Petrochemicals Investment Regions (PCPIR)
- New initiatives are likely to attract large investments both domestic and foreign - with requisite improvements in infrastructure and competition

#### Industry-level initiatives

- The Indian Chemical Council (ICC) is the nodal agency/signatory representing India under the 'Responsible Care Initiative'
- ICC has prepared codes and guidance for implementation of process safety, employee health and safety, pollution prevention, emergency response, and product safety
- Member companies of ICC are encouraged to interact with local communities and groups such as students, teachers, fire/police personnel

#### Firm-level initiatives

- Indian chemical firms have strived to increase their market share through global presence
- Indian chemical firms have in place technical agreements with multinational firms to keep abreast of technological progress in the global chemical industry

Sources. EXIM Bank of India, Aranca Research

## Chemicals AUGUST 2012



### Milestones proposed for 12<sup>th</sup> Five Year Plan

Infrastructure	Feedstock	R&D and Technology	Sustainability	Regulations
<ul> <li>Make PCPIRs a reality</li> <li>Provide infrastructure support to the industry by building roads, ports and other similar facilities</li> </ul>	Implementation of strategy for sourcing and allocation of feedstock	<ul> <li>Setting up of technology upgradation fund of USD100 million</li> <li>Allocation of 10 per cent share of the USD1 billion National Innovation Fund to chemicals</li> </ul>	Development of the first set of chemical usage standards for the industry	<ul> <li>Committee to frame regulatory structure and remove redundancies</li> <li>Rationalisation of taxes and duties for the sector (to be implemented by 2014)</li> <li>Setting up of a national chemical inventory</li> </ul>

Sources. Aranca Research Note: PCPIR- Petroleum, Chemicals and Petrochemicals Investment Regions

## Chemicals AUGUST 2012



### Recent major M&A deals in the Indian chemical industry

	Acquirer	Target/ JV partner	Valuation	Synergies/ drivers		
Inbound						
March-11	Bain Capital	Himadri Chemicals	USD89 million	Investments		
April-11	Huntsman Corp	Laffans Petrochemicals	NA	To acquire ethylene oxide facility		
July-10	Abott laboratories	Piramal's domestic formulations business	USD3.7 billion	Abott: Increased market share; Piramal: Focus on core business		
		Outbound				
July -11	United Phosphorus	DVA Agro- Brazil	USD150 million	Production and marketing of crop protection products		
June-11	BASF India	Cognis chemicals	USD2.9 million	Speciality chemicals		
April -11	Tata Chemicals	Gabon (Government project)	USD290 million	Access to huge potash reserves		
Jun-10	United phosphorus	DuPont's fungicide Business	NA	UPL: Access to South and Central American markets  DuPont: Focus on core business		
May-10	Piramal	BioSyntech, Canada	USD3.7 million	Piramal: Access to technology		
Domestic						
April 11	Aditya Birla Group	Kanoria Chemicals	USD172 million	Increase in caustic soda capacity		
May-10	Piramal	CIPLA's 'i-pill'	USD21 million	Piramal: Brand extension		

Source. Department of chemicals and petro chemicals, News Articles, Aranca Research

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### **AUGUST** Chemicals 2012

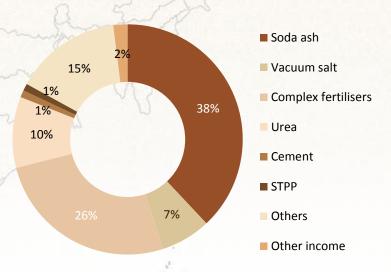


### TATA Chemicals: Diversifying their way to success ... (1/2)

- Third-largest soda ash producer in the world and the largest in India
- A market leader in edible salt; largest STPP player in the country
- Most energy-efficient urea fertilizer producer in India; amongst the most efficient globally
- 1/3rd stake holder in IMACID, Morocco assured supply of key inputs

Source. TATA strategic analysis, Aranca Research Notes: STPP\*- Sodium tripolyphosphate IMACID- Indo Maroc Phosphore S.A.

#### Revenue breakup of TATA chemicals (2011)





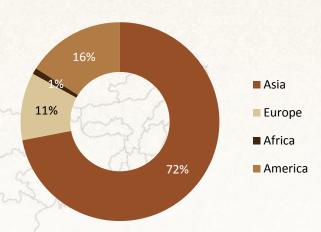
# TATA Chemicals: Diversifying their way to success ... (2/2)

### Growth path

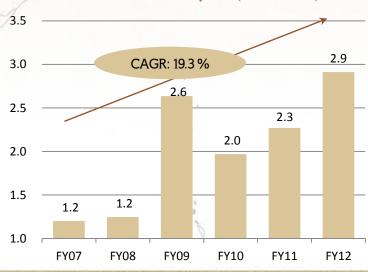
- → 2004: Merger of Hind Lever Chemicals Ltd with Tata Chemicals
- → 2005: The first step towards internationalisation with stake in IMACID
- → 2006: Acquires US-based General Chemical Industrial Products Inc
- → 2009: Acquires controlling stake in Rallis India Limited
- → 2010: Acquires South Africa's Grown Energy
- → 2011: Tata Chemicals Europe Ltd acquires British Salt, producing approximately half of UK's pure salt

Notes: IMACID- Indo Maroc Phosphore S.A.

### Geographical diversification (2011)



#### Turnover over the years (USD billion)

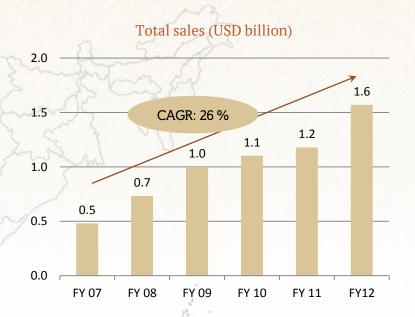


### **AUGUST** Chemicals 2012



### United Phosphorus Limited(UPL): An agrochemical success ... (1/2)

- UPL is mainly engaged in the business of agrochemicals, other industrial chemicals, chemical intermediates
- Agrochemicals accounts for 80 per cent of total sales of the company while the industrial chemicals and intermediates segment accounts for 19 per cent
- The company has also strengthened its distribution reach and access to new markets through strategic alliances with other agrochemical manufacturers of the world
- The company is planning to commence innovative technology, farming solutions, and new products through its other arms such as Advanta and Golden Seeds



Source. United Phosphorus Limited (UPL) Annual Reports, Aranca Research

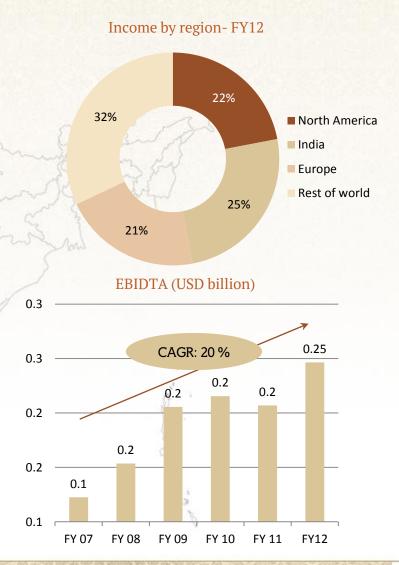
### **AUGUST** Chemicals 2012



### United Phosphorus Limited(UPL): An agrochemical success ... (2/2)

- Exports accounts for 53 per cent of total sales
- A big advantage for the company is that its cost of production of agrochemicals in India is low
- Acquired DVA-Agro of Brazil in July 2011 for USD150 million; this along with other various successful acquisitions, the company has gained access to global markets and is in a position to offer an extensive and balanced product portfolio to its customers worldwide
- The company holds more than 1000 registrations for its products worldwide

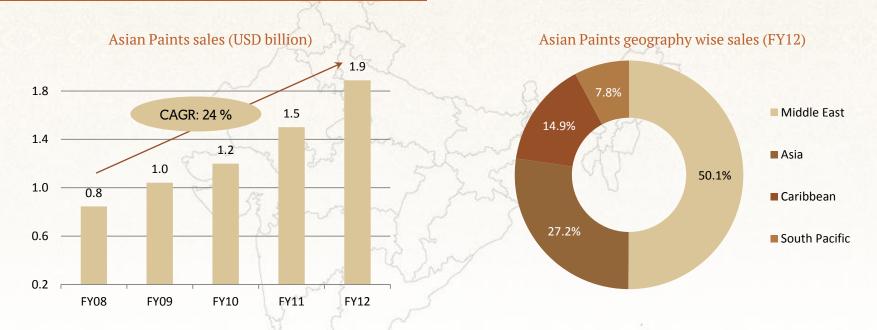
Notes: EBIDTA - Earnings Before Interest, Taxes, Depreciation and Amortisation



### **AUGUST** Chemicals 2012



## Asian Paints: A colorful growth path



- In 1942, started manufacturing in a Mumbai garage; now with total installed capacity of 6,44,000 KL, Asian Paints is amongst the largest paint manufacturing companies in the world
- Asian Paints has grown at an excellent pace over the years; CAGR of 24 per cent from FY08-FY12
- Seventh decorative paint plant coming up in Maharashtra; it is expected to be commissioned by the end of FY13 with an initial capacity of 300,000 KL per annum
- The company has wide presence across all home decorative products and geographies

Source. Company Annual report, Aranca Research; Note: KL-kilo litre

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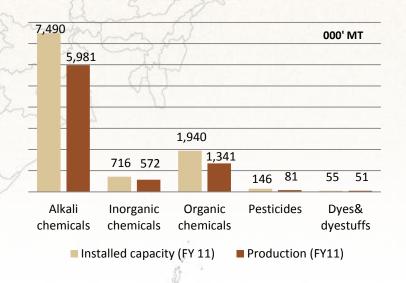




# Immense growth potential for chemical industry in India ... (1/2)

- → The industry as a whole operates much below installed capacity under 77.6 per cent in FY11
- → The 'alkali' segment (more than 74 per cent share) operated below 80 per cent of installed capacity in FY11; the figure for 'pesticides' was 56 per cent
- → Only the dyes-related segment operated at high capacity (93 per cent)

#### Installed capacity and production of selected major chemicals



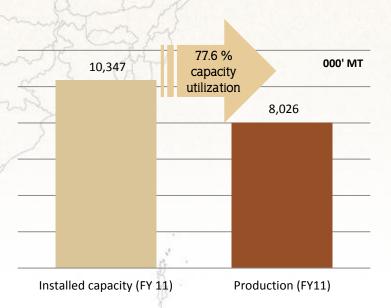
Source: Department of Chemicals and Petrochemicals,
Aranca Research



# Immense growth potential for chemical industry in India ... (2/2)

- → Strong demand growth both domestic and external will drive chemical industry production in future
- → Government policy support and domestic environment pushing industry growth towards double digits

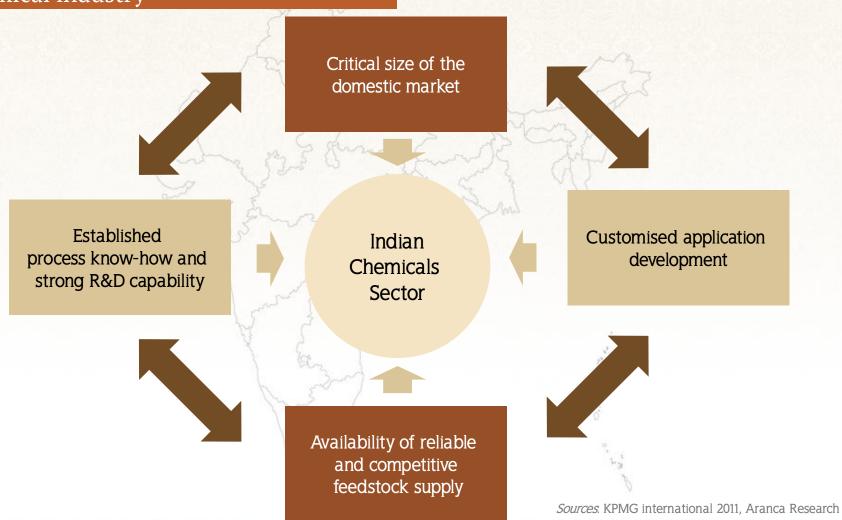
### 1/4th of installed capacity is still unused



Source: Department of Chemicals and Petrochemicals,
Aranca Research



# Growth value proposition of Indian chemical industry



### **AUGUST** Chemicals

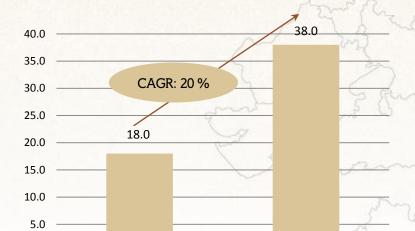


## Specialty chemicals: Lucrative opportunities in this segment

FY11

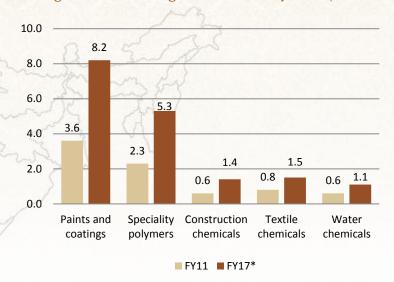
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#### Specialty chemical growth outlook (USD billion)



FY16\*

#### Major sub-segments and their growth outlook by FY17 (USD billion)



- Specialty chemicals market has expanded at a CAGR of about 13 per cent over FY07-11; the figure is expected to rise to 20 per cent over the next five years
- With the huge demand of specialty chemicals in automotives, water treatment, and construction, the market size is expected to reach USD38 billion by FY16
- Compared to developed markets, current usage of specialty chemicals in India is very low; with an increased focus on improving products and usage intensity of specialty chemicals, the industry is poised for strong growth in future

Source. Dept. of Chemicals and Petrochemicals, Planning Commission, Aranca Research Note: \* - Estimates

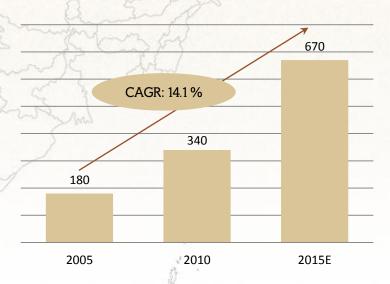


# Within specialty chemicals, construction chemicals is likely to shine

#### Construction chemicals

- India's construction chemical sector consists of a variety of products ranging from admixtures to sealants
- → The size of the domestic market is however very small compared to the global one
- → Nevertheless, with the construction sector expected to pace ahead due to strong economic growth, the fundamentals for construction chemical are sound
- → By 2015, the construction chemicals sector is set to touch USD670 million, up from USD340 million in 2010

#### Construction chemical growth outlook (USD million)



Source. TATA strategic analysis, Aranca Research

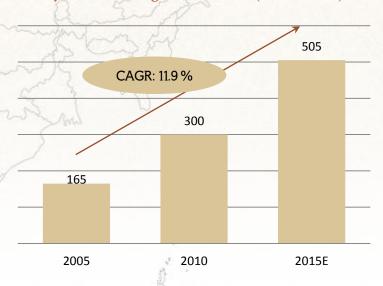


# Polymer chemicals will be yet another key segment of specialty chemicals

#### Polymer chemicals

- → The Indian polymer chemical market has grown at a CAGR of 10.5 per cent in the last five years
- → The sector is expected to grow at a higher rate due to growth in plastic demand due to increased usage in packaging, construction and automotive sectors
- → Replacement of wood, metal and glass by plastic will also augment demand

#### Polymer chemical growth outlook (USD million)



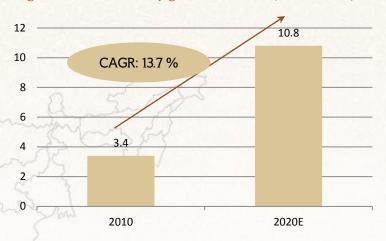
Source. TATA strategic analysis, Aranca Research



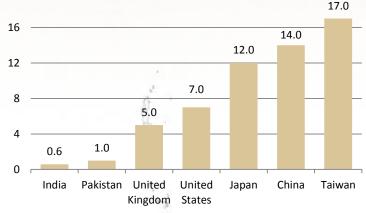
### Agrochemicals: The future looks bright

- → India is the fourth largest producer of agrochemicals globally
- → Agrochemical industry in India is set to grow at a significant pace; increasing population, decreasing per-capita availability of arable land, and focus on increasing agricultural yield will fuel the demand for agrochemicals
  - → India's per hectare agrochemicals consumption is set to rise in the coming years given the above-mentioned factors
- → India exports about 50 per cent of its current production; exports are likely to remain a key component of the industry

#### Agrochemical industry growth outlook (USD billion)



### Average crop protection consumption (kg/ha)



Source: India Chem, Aranca Research Note: E - Estimates

## Contents

- Advantage India
- Market overview and trends
- Growth drivers
- Success stories: TATA Chemicals, UPL, Asian Paints
- Opportunities
- Useful information

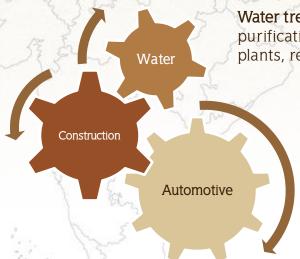


### Chemicals 2012 **AUGUST**



## Appendix: Key growth drivers of specialty chemicals

Construction industry in India has been posting a CAGR of about 16 per cent over the last few years and is likely to gather momentum in the near future. Adoption of advanced coating, ceiling and polymer based re-enforcing material in construction will drive the demand for related chemicals



Water treatment chemicals are widely used in purification of water and also used in large power plants, refineries and fertiliser factories

Automotive sector in India has been growing at a CAGR of 10 per cent over the last five years. Automotive sector growth will drive demand for automotive components and consequently for plastics, paints and coatings used in their production

Source: Aranca Research

### **AUGUST** Chemicals 2012



### **Industry Associations**

Indian Chemical Council

Sir Vithaldas Chambers, 16-Mumbai Samachar Marg,

Mumbai - 400023

Phone: 91 22 22047649/ 22846852

Fax: 91 22 22048057

Website: www.icmaindia.com

Alkali Manufacturers Association of India

3rd Floor, Pankaj Chambers, Preet Vihar Commercial Complex,

Vikas Marg, New Delhi – 110092

Phone: 91 11 22432003, 22410150, 55253401

Fax: 91 11 22468249

Website: www.ama-india.org

Indian Specialty Chemical Manufacturers' Association

1156, Bole Smruti, Suryavanshi Kshatriya Sabhagriha Marg,

Off. Veer Savarkar Marg, Dadar (West)

Mumbai - 400 028 Tel: 91 22 2446 5003

Website: www.iscma.in



## Glossary

- → OCB: Overseas Corporate Bodies
- → NRI: Non-resident Indian
- → FY: Indian financial year (April to March)
  - → So FY10 implies April 2009 to March 2010
- → NA: Not Available
- → STPP: Sodium tripolyphosphate
- → MT: Metric tonnes
- → USD: US Dollar
  - → Conversion rate used: USD1= INR48 EUR1= USD1.3275
- → Wherever applicable, numbers have been rounded off to the nearest whole number



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