Production of Chemicals

2-Chloro-6 (Trichloromethyl) -Pyridine, Alkylamines, Alum, Zinc Sulphate, Sulfur and Sulfuric Acid, Solvents, Silicone Resin, Silica Gel $\text{SiO}_2\text{NH}_2\text{O}$, Salicylic Acid, Saccharin, Rubber & Rubber Chemicals, Resorcinol (3-Hydroxy Phenol), Red Lead ($\text{Pb}_3\text{O}_4$), Red Iron Oxide, Potassium Permanganate ($\text{KMnO}_4$), Plasticiser, Phosphorus and Phosphates, Perfumery, Fragrance and Flavour)
Introduction

The chemical industry comprises the companies that produce industrial chemicals. Central to the modern world economy, it converts raw materials (oil, natural gas, air, water, metals, and minerals) into more than 70,000 different products.

The plastics industry contains some overlap, as most chemical companies produce plastic as well as other chemicals.
In modern age chemical industries have permeated most extensively in comparison with other industries and are progressing at a very rapid pace. Chemical Industry in India is one of the fastest growing industries under the Indian economy. The chemical industry comprises the companies that produce industrial chemicals. Central to the modern world economy, it converts raw materials into more than 70,000 different products. Chemicals have contributed in various sectors like food industry, fertilizers, perfumery, fragrance and flavour etc.

Chemicals are used to make a wide variety of consumer goods, as well as thousands inputs to agriculture, manufacturing, construction, and service industries.
There are numerous chemicals produced in chemical industry for example chloroform, caffeine, fertilizers, dyes, drug intermediates, herbicide, inorganic salts, copper sulphate, acetaldehyde etc. The chemical industry itself consumes 26 percent of its own output. The Chemical Industry in India is based on the idea of diversification. For example inorganic chemicals is the sector where the growth rate is near about 9% and the chemicals produced in this sector are mainly used in alkalis, fertilizers, etc.
Depending on the product categories the chemical industry is divided in many other sectors like drugs and pharmaceuticals, fertilizers, fine chemicals like dyes and paints etc. The chemical industry in India which generates almost 13% of total national export is growing annually at a growth rate anywhere between 10% and 12%.
Market Outlook

India emerges as one of the focus destinations for chemical companies worldwide. With the current size of approximately $108 billion, the Indian chemical industry accounts for ~3% of the global chemical industry. Two distinct scenarios for the future emerge, based on how effectively the industry leverages its strengths and manages challenges. In the base case scenario, with current initiatives of industry & government, the Indian chemical industry could grow at 11% p.a. to reach size of $224 billion by 2017. However, the industry could aspire to grow much more and its growth potential is limited only by its aspirations.
In such an optimistic scenario, high end-use demand based on increasing per capita consumption, improved export competitiveness and resultant growth impact for each sub-sector of the chemical industry could lead to an overall growth rate of over 15% p.a. and a size of $290 billion by 2017 (~6% of global industry). This has a potential for further upside in the future considering India’s increasing competitiveness in manufacturing.
The Indian chemical industry is an integral component of the Indian economy and has the potential to grow at 9 per cent per annum to reach $214 billion by 2019. Key imperatives for the growth of chemical industry are to secure feedstock, right product mix and identify partnership opportunities to gain capital and technology support.

Construction chemicals market in India is projected to grow at a CAGR of over 15% during 2015 - 2020.
Global chemical production (excluding pharmaceuticals) will probably grow by 3.4% in 2016, slightly slower than in 2015 (+3.6%).
### Global Chemical Production

<table>
<thead>
<tr>
<th>Region</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>World</td>
<td>3.4%</td>
</tr>
<tr>
<td>European Union</td>
<td>0.9%</td>
</tr>
<tr>
<td>United States</td>
<td>1.7%</td>
</tr>
<tr>
<td>Emerging markets of Asia</td>
<td>5.9%</td>
</tr>
<tr>
<td>Japan</td>
<td>1.0%</td>
</tr>
<tr>
<td>South America</td>
<td>(0.2%)</td>
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</table>
Total production in the Indian chemical industry was 9107 MT in FY11 and reached to 9627 MT in FY14 clocking a CAGR of 1.9 per cent from FY11-14; In FY15 (upto September 2014), the production reached at 4794 thousand MT.
Total Production of Major Chemicals (000’ MT)
Exports of the Indian chemical industry stood at USD4.9 billion for FY16* Exports in the chemical industry grew from USD12.4 billion in FY13 to USD12.7 billion in FY15, registering a growth of 0.9 per cent.
Chemical Export of India

CAGR: 0.9%

<table>
<thead>
<tr>
<th>Year</th>
<th>Export (in billion)</th>
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<tbody>
<tr>
<td>FY13</td>
<td>12.4</td>
</tr>
<tr>
<td>FY14</td>
<td>12.6</td>
</tr>
<tr>
<td>FY15</td>
<td>12.7</td>
</tr>
<tr>
<td>FY16</td>
<td>4.9</td>
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Strong Growth Outlook for Indian Chemicals Industry

CAGR: 17.4%

2013: 118
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<th>Toxicity</th>
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Production of Chemicals

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- We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients’ in India & abroad
We at NPCS want to grow with you by providing solutions scale to suit your new operations and help you reduce risk and give a high return on application investments. We have successfully achieved top-notch quality standards with a high level of customer appreciation resulting in long lasting relation and large amount of referral work through technological breakthrough and innovative concepts. A large number of our Indian, Overseas and NRI Clients have appreciated our expertise for excellence which speaks volumes about our commitment and dedication to every client's success.
We bring deep, functional expertise, but are known for our holistic perspective: we capture value across boundaries and between the silos of any organization. We have proven a multiplier effect from optimizing the sum of the parts, not just the individual pieces. We actively encourage a culture of innovation, which facilitates the development of new technologies and ensures a high quality product.
What do we offer?

- Project Identification
- Detailed Project Reports/Pre-feasibility Reports
- Business Plan
- Industry Trends
- Market Research Reports
- Technology Books and Directory
- Databases on CD-ROM
- Laboratory Testing Services
- Turnkey Project Consultancy/Solutions
- Entrepreneur India (An Industrial Monthly Journal)
We have two decades long experience in project consultancy and market research field

We empower our customers with the prerequisite know-how to take sound business decisions

We help catalyze business growth by providing distinctive and profound market analysis

We serve a wide array of customers, from individual entrepreneurs to Corporations and Foreign Investors

We use authentic & reliable sources to ensure business precision
Our Approach

1. Requirement collection
2. Thorough analysis of the project
3. Economic feasibility study of the Project
4. Market potential survey/research
5. Report Compilation
Who do we serve?

- Public-sector Companies
- Corporates
- Government Undertakings
- Individual Entrepreneurs
- NRI’s
- Foreign Investors
- Non-profit Organizations, NBFC’s
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations
Sectors We Cover

- Ayurvedic And Herbal Medicines, Herbal Cosmetics
- Alcoholic And Non Alcoholic Beverages, Drinks
- Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling
Sectors We Cover cont...

- Bamboo And Cane Based Projects
- Building Materials And Construction Projects
- Biodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
- Confectionery, Bakery/Baking And Other Food
- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct
Copper & Copper Based Projects
Dairy/Milk Processing
Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
Electrical, Electronic And Computer based Projects
Essential Oils, Oils & Fats And Allied
Engineering Goods
Fibre Glass & Float Glass
Fast Moving Consumer Goods
Food, Bakery, Agro Processing
Sectors We Cover cont...

- Fruits & Vegetables Processing
- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitality Projects
- Hospital Based Projects
- Herbal Based Projects
- Inks, Stationery And Export Industries
Sectors We Cover cont...

- Infrastructure Projects
- Jute & Jute Based Products
- Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- Minerals And Minerals
- Maize Processing (Wet Milling) & Maize Based Projects
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- Organic Farming, Neem Products Etc.
Sectors We Cover  cont...

- Paints, Pigments, Varnish & Lacquer
- Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- Perfumes, Cosmetics And Flavours
- Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- Plantations, Farming And Cultivations
- Plastic Film, Plastic Waste And Plastic Compounds
- Plastic, PVC, PET, HDPE, LDPE Etc.
Sectors We Cover

- Potato And Potato Based Projects
- Printing And Packaging
- Real Estate, Leisure And Hospitality
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- Textile Auxiliary And Chemicals
Sectors We Cover

- Township & Residential Complex
- Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry (Packaged Drinking Water & Mineral Water)
- Wire & Cable
Contact us

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THANK YOU!!!

For more information, visit us at:
www.entrepreneurindia.co