

CHEMICAL AND PETROCHEMICAL STATISTICS AT A GLANCE-2025



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CHAPTER 1

INTRODUCTION

INTRODUCTION

1.1 The Chemical and Petrochemical Sector is a key driver of India's economy, influencing everyday life through its contributions to food and water security, housing, healthcare, textiles, and technology. To strengthen domestic production and achieve self-reliance, the government has launched perspective planning under the Petroleum, Chemicals and Petrochemicals Investment Regions (PCPIRs) policy to assess current and upcoming capacities in line with demand. This initiative aims to boost employment and industrial growth.

1.2 In the Chemicals sector, 100% Foreign Direct Investment (FDI) is permitted in India under the automatic route, except for certain hazardous chemicals. The manufacture of most chemical products—including organic and inorganic chemicals, dyestuffs, and pesticides—has been de-licensed. Entrepreneurs are required only to file an Industrial Entrepreneur Memorandum (IEM) with the Department for Promotion of Industry and Internal Trade (DPIIT), provided the project location is outside the standard urban limits of metropolitan and municipal cities. However, the following items continue to remain under the compulsory licensing regime due to their hazardous nature and obligations under international conventions:

- i. Hydrocyanic acid and its derivatives
- ii. Phosgene and its derivatives
- iii. Isocyanates and di-isocyanates of hydrocarbons

1.3 Chemicals can be broadly divided into the following sub-groups:

Two broad categories within the chemical industry, each with its own characteristics and purposes are:

1.3.1 Basic Chemicals are known as commodity-type chemicals which are usually produced in large quantities and are essential for the manufacturing of a wide range of goods.

Examples of basic chemicals include:

- i. **Petrochemicals:** Chemicals derived from petroleum or natural gas, such as ethylene, propylene, and benzene, used as raw materials for plastics, synthetic fibres, and more.
- ii. **Inorganic Chemicals:** Chemicals like sulphuric acid, chlorine, and ammonia used in various industrial processes, including manufacturing fertilizers and metals.
- iii. **Bulk Polymers:** These are polymers produced in large quantities, such as polyethylene, polypropylene, and polyvinyl chloride (PVC), which are used in plastics manufacturing.

1.3.2 Specialty Chemicals are higher value-added chemicals that are produced in smaller quantities and are often tailored to specific applications. These chemicals provide unique properties or functions and are used in various industries, including pharmaceuticals, electronics, cosmetics, and more.

Examples of specialty chemicals include:

- i. **Pharmaceutical Intermediates:** Chemical compounds used as intermediate steps in the production of pharmaceutical drugs.
- ii. **Agrochemicals:** Chemicals like pesticides, herbicides, and fertilizers used in agriculture to enhance crop yield and protect plants from pests and diseases.

- iii. **Performance Chemicals:** Chemicals designed to provide specific properties, such as flame retardants, anti-corrosion agents, and coatings.
- iv. **Electronic Chemicals:** Chemicals used in the manufacturing and assembly of electronic components, such as semiconductors and printed circuit boards.

1.4 Chemicals are broadly classified into the following groups:

i. **Alkali:**

Alkali also known as a base, are typically found on the opposite end of the pH scale with pH values above 7 and are known for their ability to neutralize acids and react with them to form salts and water in a process called neutralization.

- a. They react with acid, to form salt and water, neutralizing the acidic properties.
- b. The pH scale ranges from 0 to 14, with 7 being neutral, alkalis have pH values greater than 7, indicating their basic nature.

Examples of alkalis include sodium hydroxide (NaOH), potassium hydroxide (KOH), calcium hydroxide (Ca (OH)₂), and ammonia (NH₃).

ii. **Inorganic chemicals:**

Inorganic chemicals are chemical compounds that do not contain carbon-hydrogen (C-H) bonds.

iii. **Organic Compounds:**

Organic chemicals contain carbon atoms bonded with other elements such as hydrogen, oxygen, nitrogen, sulphur, and more.

iv. **Dyes and Pigments:**

Dyes and pigments are both colouring agents used to add colour to various materials even though they serve a similar purpose, there are fundamental differences in their properties and applications.

v. Pesticides and Insecticides:

Pesticides are chemical substances or mixtures of chemicals that are used to mitigate, or eliminate Pests i.e., insects, weeds, fungi, rodents, and other organisms to protect agricultural crops and indirectly protect human health and livestock from their adverse effects.

1.5 Petrochemicals are broadly classified in to the following groups:

i. Synthetic Fibres:

Synthetic fibres, also known as man-made fibres or synthetic textiles are engineered to have specific properties, making them suitable for various applications in the textile industry. They are designed to imitate or enhance the characteristics of natural fibres like cotton, silk, or wool, while offering distinct advantages.

ii. Polymers:

Polymers are composed of repeating units called monomers. These monomers are chemically bonded together in long chains or networks, to form large molecules. Polymers can be natural or synthetic and have a wide range of applications in various fields.

iii. Synthetic rubber

Synthetic rubber also known as elastomers, is a man-made material designed to imitate the properties and characteristics of natural rubber obtained from the latex sap of certain plants.

iv. Synthetic detergent:

Synthetic detergents, commonly known as detergents, are cleaning agents that are specifically formulated to remove dirt, stains, grease,

and other contaminants from various surfaces. Unlike soap, which is produced via saponification of natural fats and oils, synthetic detergents are chemically synthesized compounds designed to provide effective cleaning

v. Performance plastics

Performance plastics, also known as engineering plastics or high-performance polymers, offer advanced mechanical, thermal, electrical, and chemical properties and are specifically designed to withstand challenging conditions and provide enhanced performance compared to standard or commodity plastics.

Key features of performance plastics include:

vi. Fiber intermediates:

Fiber intermediates serve as precursors in the production of synthetic fibres. These intermediates are transformed into polymers through various chemical processes, which are then spun into fibres for use in textiles, plastics, and other applications.

vii. Olefins

Olefins, also known as alkenes, are a class of unsaturated hydrocarbons with at least one carbon-carbon double bond in their molecular structure. They are an important group of organic compounds widely used in various industrial processes and applications. Olefins are commonly found in the production of plastics, polymers, and other chemicals.

viii. Aromatics

Aromatics contain a specific type of cyclic structure called an aromatic ring or benzene ring which is stable and highly conjugated, having alternating single and double bonds.

1.6 Growth Drivers for the Chemical Sector:

- i. A large population, expanding domestic market, agricultural dependence, and robust export demand serve as major growth drivers for the industry.

- ii. A global shift in chemical manufacturing toward Asia, positioning the region as the emerging hub of the world's chemical production.
- iii. Low per capita chemical consumption in India compared to Western nations presents significant opportunities for fresh investments.
- iv. Rising GDP and increasing purchasing power are fueling strong growth potential in the domestic market.
- v. Growing emphasis on emerging segments such as specialty and knowledge-based chemicals.
- vi. Availability of a highly skilled pool of science professionals supporting industry innovation.
- vii. World-class engineering expertise and robust R&D capabilities enhancing the sector's competitiveness globally.

1.7 Research & Development (R&D)

The Chemical sector is highly heterogeneous encompassing many segments like organic, inorganics, dyestuffs, pesticides, paints, soaps and petrochemicals etc. R&D is critical and of paramount importance for the growth & development of this sector. Continued R&D efforts in the part of the industry helps to improve the quality standards, obtain higher yields resulting reduction in cost of production and to earn competitive edge in the International Market. Indian Chemical Industry spends on R&D to the extent of 2-3% of their total turnover, as against 9-10% by the multinational companies in overseas countries. The industry would, therefore, have to make large investments in R&D to successfully counter the competition from the international chemicals industry. India has a number of scientific institutions and the country's strength lies in its large pool of

highly trained scientific manpower. With the introduction of the Patent Act 2005, product innovation has assumed high importance.

1.8 Foreign Technology Agreements

Foreign Technology Agreements in India cater to the growth of the technology in the Indian industries. The foreign technology is transferred from foreign sources such as research and development agencies, foreign parent companies and other manufacturers to the Indian counterparts. The transfer of foreign technology takes place by the means of foreign direct investments and foreign technology collaboration agreements. Foreign Technology Agreements in India enable transfer of technology by the means of Government approval or through the automatic route delegated by the RBI.

1.9 The Chemical and Petrochemical Industries occupies a pivotal position in meeting some basic human needs and in improving the quality of life. It is extremely important to the economy and is an integral part of everyday life. India has a high population base and thus, faces formidable problems in providing sufficient food, medicines and adequate shelter. From a very modest level of 52 million MT in 1951-52, food grain production increased to about 353.9 million MT (estimated) in the FY 2024-25 in the country (Ministry of Agriculture & Farmers Welfare published in PIB on 28 May 2025). The chemical industry provides the vital inputs required, chemical fertilizers and pesticides, to augment food production and save crops from attack by a variety of pests in a safe and selective way. The marked improvements in the average life expectancy of our countrymen can be at-least partially attributed to the Chemical Industry which has provided lifesaving drugs and other chemicals required for managing public health care. The problem of housing can be tackled

effectively with the assistance of the Chemicals Industry. It plays a crucial role in housing development.

1.10 The Chemical Industry transforms basic raw materials such as water, salt, crude oil, natural gas, air, metals, and minerals into a wide range of valuable products, playing a pivotal role in economic and social development. It is deeply embedded in almost every industrial process—without it, there would be no electronics, refrigeration, automobiles, laser technology, super magnets, processed foods, or most consumer goods. The power sector relies on chemicals like ion exchange resins for removing dissolved salts in boilers, while in gold mining, cyanide solutions are used for metal extraction. Crude oil refining also depends on chemicals, catalysts, heat, and pressure to separate and recombine hydrocarbon molecules into usable fuels. Beyond industrial applications, the Chemical Industry contributes significantly to healthcare by producing drugs, anaesthetic agents, and advanced biomedical materials such as artificial joints made from ultra-high molecular weight polyethylene, as well as essential products like dental fillings, contact lenses, and dialysis equipment.

1.11 Some of the most useful materials, synthetic polymers, also known as plastics, have transformed our lives in the last few decades. The driving force for this development was provided by the need for conservation of natural resources and energy efficiency and inherent advantages of the material which created possibilities of innovative designs and cost savings. Its usefulness, adaptability and flexibility of usage have led to a shift in manufacturing from the conventional material-based products to synthetic products. The production of polymers has increased from 9.28 million tonne in the FY 2017-18 to 13.37 million ton in the FY 2024-25 (CAGR of 5.4%) while its consumption has increased

from 12.84 million tons to 16.82 million tons during the same period.

(Reference: Table: 6 &10 of Section II)

1.12 Chemicals from petroleum may range from petrochemicals such as ethylene, propylene, benzene, xylenes to finished end-products like plastics, rubbers, fibres, detergents, pesticides, dyes etc. These may be classified as (a) first generation, (b) second generation and (c) third generation petrochemicals.

(a) First generation petrochemicals are chemicals directly available from basic inputs such as petroleum crude oil or natural gas, either by fractionation, isomerization, cracking etc. These can also be derived from coal gasification and bio mass. These generally represent the basic petrochemicals, which are the building blocks for various chemical syntheses. Examples of this class of chemicals are methane, ethane, propane, ethylene, propylene, toluene, xylenes etc.

(b) Second generation petrochemicals are the derivatives of the first-generation petrochemicals. Example of such products are styrene (derived from benzene and ethylene), dimethyl terephthalate or terephthalic acid (derived from p-xylene), acrylonitrile (derived from propylene), ethylene glycol (derived from ethylene), vinyl chloride monomer (derived from acetylene or ethylene) etc. Second generation petrochemicals constitute the intermediate chemicals which serve as the raw materials for consumer industries like plastics, rubbers, fibres, dyes, detergents etc.

(c) Third Generation Petrochemicals are the consumer commodities derived generally from second generation petrochemicals and represent the most important commercial

products such as plastics, rubbers, fibres, detergents etc. Examples are polystyrene (from vinyl chloride monomer), DDT from (chlorobenzene), azo dyes (from styrene), Polyvinyl chloride (from aniline) etc. However, some of the products may be directly synthesized from first generation petrochemicals. Polybutadiene rubber, for instance, is obtained by polymerizing butadiene. Since most of the plastics or rubbers are derived from second generation petrochemicals, polybutadiene rubber is regarded as a third-generation petrochemical.

(# Dr. G.N.Sarkar, Advanced Petrochemicals, First Edition, Khanna Publishers, New Delhi)

1.13 Chemical sector is predominantly based on feedstock derived from crude oil, natural gas, salt and minerals. Naphtha (used for production of Urea, Aromatics and Olefins), Heavy Gas oil (propylene and ethylene) and Kerosene (Linear Alkyl Benzene) are derived from crude oil. Steam cracking/ Catalytic Reforming of low and high aromatic naphtha in oil refineries provide Olefins (Ethylene, Propylene and Butadiene) and Aromatics (benzene, toluene and xylenes). Natural gas contains Methane (CH_4), Ethane (C_2H_6), Propane (C_3H_8) and Butane (C_4H_{10}). Rich natural gas, which contains C_2 and C_3 in extractable quantity, is used in producing Ethylene and Propylene. Methane is converted into synthesis gas. Synthesis gas is a mixture of carbon monoxide & hydrogen which is used to make ammonia & methanol. Ammonia is used to make Urea and Methanol is used to make acetic acid and derivatives. Consumption of Naphtha in Petrochemical sector has increased from 11339 thousand tonnes in the FY 2020-21 to 11457 thousand tonnes in the FY 2024-25. The consumption of natural gas for Petrochemicals Industry has also

increased from 3072 Million Standard Cubic Metres (MMSCM) to 3355 MMSCM during the same period. **(Reference: Table- 42 of Section-VII)**

1.14 Olefins and Fibre Intermediates (Acrylonitrile, Caprolactam, Mono Ethylene Glycol, Purified Terephthalic Acid, and Dimethyl Terephthalate) form the basis of the petrochemical industries. Olefins and Aromatics are used in producing Fibre Intermediates. Salt is the feed stock for the Chlor-alkali chemical industry, just as crude oil and Natural Gas for the petrochemical industry. Salt, Aromatics, Minerals (Limestone, Bauxite ore (Aluminium), Rock Phosphate, Sulphur, Iron ore, Indium ore (Tin), Chromite ore, Mica, Silica, Manganese ore, etc.) and Basic metals (Copper, Zinc, Titanium, Aluminium, Iron, Chromium, Tin, Nickel, etc.) form the basis of chemical industries producing Chlor-Alkali, Organic Chemicals, Inorganic Chemicals, Pesticides and Dyes & Pigments. Dyes are organic compounds and are mainly based on Benzene, Toluene, Naphthalene (from petroleum fractions and coke oven batteries of steel plants), Anthracene and Cyanuric Chloride. Pesticides are mainly based on Benzene, Naphthalene, Phosphorous (produced from phosphate rock) and Sulphur. Pharmaceuticals are mainly based on Benzene, Toluene and Xylene.

1.15 Innovations in additives, alloys, blends, compounds, composites and high grade reinforcement materials such as glass, nano-clays, carbon nano-tubes and carbon fibres require attention for technology development. New developments in the field of bio and photodegradable plastics, are also taking place all over the world. The chemical and petrochemical industries face the challenge to operate in an environmentally acceptable manner. Chemicals are globally tradable and unless chemicals produced in India are cost effective, these cannot contribute usefully to the Nation's economy. With an eye on emerging

usages, research and development efforts may focus on the need to modernize and upgrade the existing manufacturing processes, improve the quality of existing products and make them safe for environment and human health.

CHAPTER 2

INDIA'S CHEMICAL SECTOR AT A GLANCE

2.1 India in the World:

- 2.1.1 India is one of the fastest growing economies of the world. It is now the world's fourth-largest economy and the third-largest in Asia.
- 2.1.2 India's total foreign direct investment (FDI) inflow (Equity Capital + Re-invested earnings+ Other capital) stood at USD 1,072.34 billion during FY 2000-01 to FY 2024-25.
- 2.1.3 India's foreign direct investment (FDI) equity inflow (Equity capital components) stood at USD 729.00 billion in FY2024-25 having witnessed a Compound Annual Growth Rate (CAGR) of 3.84% since FY2015-16.
- 2.1.4 India's foreign direct investment (FDI) equity inflow (Equity capital components) in Chemical sector stood at USD 23.21 billion during FY2000-01 to FY2024-25.
- 2.1.5 India's total foreign Institutional investment (FII) inflow stood at USD 281.68 billion during FY 2000-01 to FY 2024-25.
- 2.1.6 India exhibited an average Gross Domestic Product (GDP) growth rate of approximately 6.4% over the last 20 years (from 2005 to 2024), despite major recessions and economic slowdowns.
- 2.1.7 According to Cefic Report, India has one the largest global chemical markets and is ranked 9th in the world and fourth in Asia in terms of global sales of chemicals during 2023. It accounts for 2.6% of the world's global chemical sales (€ 134 billion out of € 5195 billion).
- 2.1.8 India ranks 4th in the world in Inorganic chemicals; organic or inorganic compounds of precious metals, of rare-earth metals, of radioactive elements or of; isotopes with 2.18% share in World exports by UN Comtrade database.
- 2.1.9 According to UN Comtrade database, India ranks 8th in World Export and 5th in World Import for Chapter 29 (Organic Chemicals).

India ranks 4th in both World Export and Import in Chapter 54 (Man-made filaments). India's share in World Export and Import for Chapter 55 (Man-Made staple fibre) is 4.61% and 3.0% respectively.

2.2 Status of Manufacturing sector in India

2.2.1 As per the Global Investment Trend Monitor Report, India is one of the most preferred greenfield FDI destinations in the world.

2.2.2 India was ranked sixth among the top manufacturing countries by United Nations Industrial Development Organization (UNIDO).

2.2.3 United Nations Conference on Trade and Development (UNCTAD) has ranked India among the top 15 FDI destinations in the world.

2.2.4 India ranks 41st in the IMD World Competitiveness Ranking 2025 by World Economic Forum's (WEF) Global Competitiveness Index.

2.2.5 India is one of fastest growing manufacturing country in the world. It is 2nd Largest steel producer, 3rd Largest producer of pharmaceuticals, 6th Largest for chemicals sales, 3rd Largest automotive market by volume and 6th Largest exporter of textiles.

2.2.6 The share of Gross Value Added (GVA) of the Chemicals Sector in the Manufacturing Sector during FY 2023-24 is about 8.1% at

current prices and 1.2% of its national GVA for all Economic Activity in FY 2023-24.

2.2.7 The share of Gross Value Added (GVA) of the Chemicals Sector in the Manufacturing Sector during FY 2023-24 is 8.2% at constant prices and 1.4% of its national GVA for all Economic Activity in FY 2023-24. GVA of the Chemical Sector has grown with an average CAGR of 9.5% during the period FY2018-19 to FY2023-24.

2.3 Status of Chemical sector in India

2.3.1 The Indian chemical industry is fragmented with large, medium, and small companies manufacturing major petrochemicals, alkali chemicals, inorganic chemicals, organic chemicals, pesticides, dyes and pigments, and other chemicals.

2.3.2 The Indian chemical industry contributed 3.0% of total FDI equity inflows since 2000. Total FDI during 2015-2025 attracted in this sector was Rs. 92,754 Crore whereas from 2003-04 to 2014-15, the same was Rs. 49,898 Crore.

2.3.3 The total market size of Indian chemical and petrochemical industry in the FY 2022-23 was Rs.17.41 lakh crore, which is calculated as total value of output and import minus export. (Rs. 15.14 lakh crore as output; Rs.6.00 lakh crore as import and Rs.3.73 lakh crore as export).

2.3.4 The size of the Indian Chemical industry in terms of value of output

in the FY 2023-24 was Rs.15.14 lakh Crore (2.6 % of total output) which was Rs.9.62 lakh Crore in FY 2018-19 at current prices. The output of chemical and chemical products has increased with CAGR of 11.6% during last five years at current prices.

2.3.5 The size of the Indian Chemical industry in terms of value of output in the FY 2023-24 was Rs.11.06 lakh Crore at constant (2011-12) prices.

2.3.6 The production of polymers has increased from 10.04 million tonnes in FY 2018-19 to 13.38 million tons in FY 2024-25 (CAGR of 4.9%) while its consumption has increased from 12.84 million tons to 16.82 million tons during the same period.

2.3.7 The average Indices of Industrial Production (IIP) for the Chemical and Chemical products (Industry Division 20 of NIC 2008) for the year 2024-25 stood at 129.3, which is 1.5% more as compared to the previous year. In comparison, the manufacturing sector grew by 4.1%, while the overall general growth rate stood at 4.0%.

2.3.8 The annual inflation rate, based on the Wholesale Price Index (with 2011-12 as the base year), for FY 2024-25 was 2.3% for all commodities. Food articles experienced an inflation rate of 7.3%, manufactured products at 1.7%, while chemicals and chemical products recorded an inflation rate of -0.3%.

2.3.9 The Indian chemical industry contributed 3.0% of total FDI equity

inflows.

2.3.10 India is the second-largest exporter of both chemical dyes/dyestuff and agrochemicals, holding about a 16% share of global dyestuff production and being a significant global supplier of agrochemicals.

2.3.11 India's Share in World Export and Import for Chapter 28 (Inorganic Chemicals) are 2.18% and 5.8% respectively.

2.3.12 The installed capacity of chemicals and petrochemicals was 69,942 (000' MT) in 2024-25. The installed capacity utilization rates for Basic Major Chemicals and Basic Major Petrochemicals in the fiscal year 2024-25 was 79.2% and 85.4% respectively. The overall capacity utilization rate for the same period stood at 83.8%.

2.3.13 11.41 lakh persons were engaged in the chemical sector during 2023-24, registering a growth rate of 7.8% in the organized sector of medium and large-scale industries.

2.3.14 The installed capacity for the production of chemicals and petrochemicals was 69,942 (000' MT) in 2024-25. The export value of chemicals and petrochemicals during this period amounted to ₹101,493 crore, while the import value stood at ₹1,76,386 crore.

2.3.15 The Exports of chemical and chemical products were Rs.393 thousand Crore in FY 2024-25 as against Rs.279 thousand Crore in FY 2020-21.

2.3.16 The net import of chemical and chemical products increased to Rs.239 thousand Crore in FY 2024-25 as compared to Rs.94 thousand Crore in FY 2020-21.

2.3.17 According to the Annual Survey of Industries (ASI) 2023-24 (factory sector), 11.41 lakh persons were engaged in Chemicals and Chemical Products (Industry Division 20, NIC 2008), in the organized sector in medium and large-scale industries, whereas 1.96 crore persons engaged in all industries during 2023-24, with a growth rate of 5.9%.

2.3.18 The production of major Chemicals and petrochemicals is 58,617 thousand MT in 2024-25 as against the production of 45,638 thousand MT in 2015-16. The production of major Chemicals and petrochemicals has grown with CAGR of 2.8% during the period FY 2015-16 to FY2024-25.

2.3.19 Alkali Chemicals lead with the largest share, accounting for 71% of total chemical production, Organic Chemicals follow with 16%, while Inorganic Chemicals contribute 8%. Pesticides make up 2%, and Dyes & Pigments account for 3% of the production for major chemical groups in FY 2024-25. In Petrochemicals, both Polymers and Olefins lead with the largest share, accounting each for 30% of total production. Fiber Intermediates contribute 12%, Synthetic Yarn stands at 9%, Aromatics at 6%, and Other Petro-Based Chemicals make up 6%. Performance Plastics account for 4%, while Synthetic Rubber and Synthetic Detergent Intermediates each represent 1%

and 2%, respectively, of the overall production for the major Petrochemical group in the FY 2024-25.

2.3.20 Exports of chemicals and chemical products (excluding pharmaceutical products and fertilizers) contributed 10.6% of total export in the year 2024-25 compared to 10.3% in the year 2023-24. Imports contributed 10.4% of total imports in 2024-25 as against 10.8% in the year 2023-24. CAGR in export of total chemicals and chemical products (excluding pharmaceutical & fertilizer products) during the period 2020-21 to 2024-25 was 8.9% while CAGR of total national export was 14.4%. CAGR in import of total chemicals and chemical products (excluding pharmaceutical & fertilizer products) during the period 2020-21 to 2024-25 was 14% and CAGR of total national import was 20.3%.

CHAPTER 3

IMPORTANT ECONOMIC INDICATORS

IMPORTANT ECONOMIC INDICATORS

3.1 According to the National Accounts Statistics, brought out by the National Statistics Office (NSO), Chemical and Chemical products sector, excluding pharmaceuticals (Industry Division 20 of NIC 2008), accounted for 1.2% of the GVA for All Economic Activity in the FY 2023-24. The share of Gross Value Added (GVA) of Chemicals in the Manufacturing Sector in the FY 2023-24 is about 8.1%. GVA of Chemical Sector has grown with CAGR of 4.8% from the FY 2018-19 to FY 2023-24. The average Indices of Industrial Production (IIP) for the Chemical and Chemical products (Industry Division 20 of NIC 2008) for the FY 2023-24 stood at 129.3, which is 1.5% high as compared to the previous year. The size of the Indian Chemical industry, excluding Pharmaceuticals (Industry Division 20 of NIC 2008), in terms of Value of Output in the FY 2023-24 was Rs. 15,14,351/- cores and it was 7.8% of Value of Output of Manufacturing Sector. The size of Chemical industry, including Pharmaceuticals (i.e. Industry Division 20 and 21 of NIC 2008), in terms of Value of Output in the FY 2023-24 was Rs. 21,76,717/- crores and it was 11.2% of the Total Value of Output of Manufacturing sector. During last six years, i.e. within FY 2018-19 to FY 2023-24, Compounded Annual Growth Rate (CAGR) in output of Chemical Industry excluding Pharmaceuticals Industry (i.e. Industry Division 20) was 9.5%, which was 9.8% for Chemical Industry including Pharmaceutical Industry {i.e. Industry Division 20 & 21}. Growth in value of output for Manufacturing Sector during the same period was 10.2%.

3.2 The exports and imports data of FY 2024-25 shows that in the Chemical Sector, comprising of chapters 28, 29, 30, 31, 32, 38, 39, 4002, 54 and 55 of HS code, India was Net Importer in all categories except of four categories, namely, Pharmaceuticals Products (Chapter 30 HS code), Man-made staple fibres (Chapter 55 HS code), Man-Made

Filaments (Chapter 54 HS code) and Tanning or Dyeing (Chapter 32 HS code). Pharmaceuticals products accounted Rs.1,82,904/- crore, Man-made staple fibres accounted Rs.6,541/- crore, Man-Made Filaments accounted Rs. 2,147/- crore and Tanning or Dyeing accounted Rs.5,827/- crore in Net Export. **(Reference: Table 12A of section III)**

3.3 As per Annual Survey of Industries (Factory Sector: 2023-24), top seven States, namely, Gujarat (27.8%), Maharashtra (15.8%), Uttar Pradesh (5.6%), Andhra Pradesh (5.3%), Tamil Nadu (3.9%), Uttarakhand (3.7%) and, Karnataka (3.5%) contributed around 67.6% in the Gross Value Added (GVA) for the Chemical & Chemical products Sector (Industry Division 20 of NIC 2008) and seven States, namely, Gujarat (31.5%), Maharashtra (15.8%), Uttar Pradesh (7.3%), Tamil Nadu (4.8%), Andhra Pradesh (4.5%), Dadra & N Haveli & Daman & Diu (4.3%) and West Bengal (4.1%), contributed around 72.3% in the value of output. **(Reference: Table 50 of Section VII)**

3.4 The exports of chemicals & petrochemicals (excluding pharmaceutical products and fertilizers) have increased from Rs.2,19,282/- crores in the FY 2017-18 to Rs. 3,92,770/-crore in the FY 2024-25. The percentage share of the exports of chemicals & petrochemicals (excluding pharmaceutical products and fertilizers) in the total national exports slightly decreased from 11.2% to 10.6% during the same period. **(Reference: Table 12 of Section III)**. At the product level, the following products accounted more than Rs. One Thousand crore in the exports during 2024-25. **(Reference: Table 16 & 24 of Section III)**

Table 3.1: Products having Exports more than Rs. 1,000 Cr.

Product (Chemical)	Export (Rs. Cr.)	Product (Petro-Chemical)	Export (Rs. Cr.)
Other Herbicides-Anti Sprouting Products	11802	Benzene	11889
Other Insecticides	9224	Polyester Filament Yarn	6100
Other Fungicide Nes	8276	Polypropylene (Inc. Co-Polymer)	3509
Pigment Emulsion	7277	Polyester Staple Fibre	2460
Reactive Dyes	5156	Butadiene	1798
Carbon Black	4250	Paraxylene	1716
Caustic Soda	2270	High Density Polythylene	1684
Azo Dyes	2104	Polytetrafluoroethylene(Ptfe)	1094
Food Colours	1608	Polyester Chips/Pet Chips	1063

Source: DCPC

3.5 The imports of Chemicals & Petrochemicals (excluding Pharmaceutical products and fertilizers) has increased from Rs. 3,17,855/- crores in the FY 2017-18 to Rs. 6,31,898/- crores in the FY 2024-25. The percentage share of the imports of Chemicals & Petrochemicals (excluding Pharmaceutical products and fertilizers) in the total national imports decreased from 10.59% to 10.36% during the same period. **(Reference: Table 11 of Section III)**. At the product level, the following products accounted for more than Rs. One Thousand crores in the imports in 2024-25. **(Reference: Table 17 & 25 of Section III)**

Table 3.2: Products having Imports more than Rs. 1,000 Cr.

Product (Chemical)	Import (Rs. Cr.)	Product (Petrochemical)	Import (Rs. Cr.)
Methanol	7755	Polypropylene (Inc. Co-Polymer)	15627
Acetic Acid	4034	Purified Terephthalic Acid	13501
Other Insecticides	3629	High Density Polythylene	12187
Other Fungicide Nes	3074	Styrene	11105

Aniline	2591	Paraxylene	7965
Other Herbicides-Anti Sprouting Products	2406	Polycarbonate	5545
Phenol	2263	Mono Ethylene Glycol	5239
Soda Ash	1980	Toluene	4669
Carbon Black	1718	Poly Vinyl Chloride	4558
Acetone	1126	Linear Alkyl Benzene	3670
		Ethyl Vinyl Acetate	3601
		Low Density Polyethylene	3529
		Styrene Butadiene Rubber	3515
		Polyester Filament Yarn	3072
		Vinyl Chloride Monomer	2987
		Poly Butadiene Rubber	2562
		Abs Resin	2311
		Acrylonitrile	2283
		Ortho-Xylene	2227
		Linear Low Density Polyethylene	1751
		Ethylene Dichloride	1679
		Polyestylene	1646
		Vinyl Acetate Monomer	1598
		Isopropanol	1516
		Ethyl Propylene Dimers	1312
		Butyl Rubber	1287
		Polyester Chips/Pet Chips	1246
		Polyacetal Resin	1104
		Unsaturated Polyester Resin	1072
		Nylon Filament Yarn	1011

Source: DCPC

3.6 The net imports of Chemicals & Petrochemicals (excluding pharmaceutical products and fertilizers) have increased from Rs. 98,574/- crore in 2017-18 to Rs. 2,39,127/-crore in 2024-25. The percentage share of the net imports of Chemicals & Petrochemicals (excluding pharmaceutical products and fertilizers) in the total national net imports increased from 9.4% to 9.99% during the same period. At the product level, the following products accounted more than Rupees One Thousand crores in the net imports in 2024-25. **(Reference: Table 12(a), 18 & 26)**

Table 3.3: Products having Net Imports more than Rs. 1,000 Cr.

Product (Chemical)	Net Import (Rs. Cr.)	Product (Petrochemical)	Net Import (Rs. Cr.)
Methanol	7548	Purified Terephthalic Acid	13450
Acetic acid	3904	Polypropylene (Inc. Co-Polymer)	12118
Aniline	2589	Styrene	10885
Phenol	2014	High Density Polyethylene	10503
Soda Ash	1331	Paraxylene	6249
		Polycarbonate	5504
		Mono Ethylene Glycol	4938
		Poly Vinyl Chloride	4542
		Toluene	4483
		Linear Alkyl Benzene	3637
		Ethyl Vinyl Acetate	3564
		Vinyl Chloride Monomer	2987
		Styrene Butadiene Rubber	2942
		Low Density Polyethylene	2903
		Poly Butadiene Rubber	2516
		Abs Resin	2297
		Acrylonitrile	2207
		Ortho-Xylene	2207
		Ethylene Dichloride	1678
		Vinyl Acetate Monomer	1497
		Isopropanol	1374
		Ethyl Propylene Dimers	1273
		Linear Low Density Polyethylene	1197
		Polyacetal Resin	1086
		Polyestylene	1038

Source: DCPC

3.7 The following products accounted more than Rs. One Thousand crore in the total net exports in 2024-25.

Table 3.4: Products having Net Exports more than Rs. 1,000 Cr.

Product (Chemical)	Net Export (Rs. Cr.)	Product (Petro-Chemical)	Net Export (Rs. Cr.)
Other Herbicides-Anti Sprouting Products	9396	Benzene	11888
Pigment Emulsion	6446	Polyester Filament Yarn	3028
Other Insecticides	5595	Butadiene	1798
Other Fungicide Nes	5203	Polyester Staple Fibre	1740
Reactive Dyes	4845		
Carbon Black	2532		
Azo Dyes	2034		
Caustic Soda	1633		
Food Colours	1494		

Source: DCPC

3.8 Chemical Sector (including Pharmaceutical) in India i.e. 99.5% GVA of Chemical Sector (including Pharmaceutical) comes from the organized Sector. The estimates of the Total Output (Factory Sector) of at 4-digit Industry class in the Chemicals and Chemical Products (Division 20-NIC 2008) from the FY 2022-23 and FY 2023-24 are given in the table below:

Table 3.5: Total Output (Factory Sector) in the Chemicals and Chemical Products at 4-digit NIC classification

Class	Description	Total Output (Rs. Cr.)	
		2022-23	2023-24
2011	Manufacture of basic chemicals	311035	322442
2012	Manufacture of fertilizers and nitrogen compounds	263683	223149
2013	Manufacture of plastics and synthetic rubber in primary forms	194539	177742
2021	Manufacture of pesticides and other agrochemical products	93970	97067
2022	Manufacture of paints, varnishes and similar coatings, printing ink and mastics	104134	90442

2023	Manufacture of soap and detergents, cleaning and polishing preparations, perfumes and toilet preparations	127690	132555
2029	Manufacture of other chemical products n.e.c.	137397	122074
2030	Manufacture of man-made fibres	83154	74240
Total		1097907	1315603

Source: *Annual Survey of Industries, Ministry of Statistics & Programme Implementation.*

CHAPTER 4

IMPORTANT DEFINITIONS OF CPC CODING SYSTEM AND ECONOMIC SYSTEM

IMPORTANT DEFINITIONS OF CPC CODING SYSTEM AND ECONOMIC SYSTEM

4.1 Harmonized System:

4.1.1 Harmonized System is an internationally standardized system of names and numbers for classifying traded products. It has been developed and maintained by World Customs Organization (WCO). It is used by customs authorities around the world to identify products when assessing duties and taxes and for gathering statistics.

4.1.2 The HS is organized into 21 Sections, which are subdivided into 96 Chapters (Chapters 1 to 97 with Chapter 77 reserved for potential future use by the HS). The 96 HS Chapters are further subdivided into 1,228 headings and 5,612 subheadings in the current 2022 edition of the HS.

4.1.3 The HS code consists of 6-digits. The first two digits designate the Chapter wherein headings and subheadings appear. The second two digits designate the position of the heading in the Chapter. Eg: HS code 1006.30 indicates Chapter 10 (Cereals), heading 10.06 (Rice), and subheading 1006.30 (Semi-milled or wholly milled rice, whether or not polished or glazed)

4.1.4 Most of countries use an 8-digit or 10-digit classification system, with the first 6-digit adopting the Harmonized System developed by the WCO and the last 2 or 4 digits representing a further breakdown in commodity classification to meet domestic needs.

4.2 Indian Trade Clarification based on Harmonized System (ITC-HS) 2017

4.2.1 Indian Trade Classification (Harmonized System), 2017 was compiled and notified by the Directorate General of Foreign Trade, Ministry of Commerce and Industry, Government of India in January 2017. ITC-HS codes are divided into two schedules. ITC (HS) Import Schedule I

describe the rules and guidelines related to import policies. Schedule II describes the rules and regulation related to export policies. Schedule I of the ITC-HS code is divided into 21 sections and each section is further divided into chapters. The total number of chapters in the schedule I is 98. The chapters are further divided into sub- heading under which different HS codes are mentioned. Export Policy Schedule II of the ITC-HS code contains 97 chapters giving all the details about the guidelines related to the export policies.

4.2.2 The Chapters dealing with Chemicals and Petrochemical products are falling under Section VI, VII & XI as depicted below:

Table 4.1: List of the Chapters under Harmonised system (ITC-HS) 2017 dealing with Chemical and Petrochemical products

Chapter	Description	Section
Chapter 28	Inorganic chemicals; organic or inorganic compounds of precious metals, of rare-earth metals, of radioactive elements or of; isotopes	SECTION VI
Chapter 29	Organic chemicals	
Chapter 38	Miscellaneous chemical products	
Chapter 39	Plastics and articles thereof	SECTION VII
Chapter 40	Rubber and articles thereof	
EXIM Code 4002	Synthetic rubber and factice derived from oils, in primary Forms or in plates, sheets or strip; mixtures of any product of heading 4001 with any product of this heading, in primary forms or in plates, sheets or strip	
Chapter 54	Man-made filaments	SECTION XI
Chapter 55	Man-made staple Fibre	

Table 4.2: Illustration of 8-digit Product Code

Chapter	Exim Code	Item Description
28	Inorganic chemicals; organic or inorganic compounds of precious metals, of rare-earth metals, of radioactive elements or of; isotopes	
	2801	Fluorine, Chlorine, Bromine and Iodine
	28011000	Chlorine
39	Plastics and articles thereof	
	3902	Polymers Of Propylene or Of Other Olefins, In Primary Forms
	39021000	Polypropylene

Source: Directorate General Foreign trade (DGFT), Ministry of Commerce and Industry, Government of India (<https://www.dgft.gov.in/CP/?opt=itchs-import-export>)

4.3 Group-wise bifurcation of HS code of 2334 Chemicals and Petrochemicals product

4.3.1 Department of Chemicals and Petrochemicals deals with the import and export of Chemicals that falls in the chapter 28,29,30,31,32,38,39,4002,54 and 55 of HS Code. There are total 2334 products that comes under these chapters which are currently imported in the country. Of these 2334 products there are certain product categories that fall under the purview of other Departments too. This identification of the products will help in avoiding duplicity at the time of monitoring imports of the products by the concerned departments. The formulation of group-wise bifurcation of available HS code list prepared by DCPC for chemicals and petrochemicals for 2334 products as under:

Table 4.3: Group-wise Bifurcation of Chemicals and Petrochemicals for 2334 products

List of Abbreviations for Chemicals				
S. No	Abbreviations		Description	Nos.
	C		Chemicals	
1		AC	Alkali Chemicals	10
2		IC	In-Organic Chemicals	271
3		OC	Organic Chemicals	473
4		PI	Pesticides and Insecticides	43
5		DP	Dyes and Pigments	304
6		MISC	Miscellaneous	167
		Sub-Total		1268
		NA	Not Applicable	593
List of Abbreviations for Petrochemicals				
S. No	Abbreviations		Description	Nos.
	PC		Petro-Chemicals	
1		SF	Synthetic Fibres	38
2		P	Polymers	221
3		SR	Synthetic Rubber	20

			(Elastomers)	
4		SDI	Synthetic Detergent Intermediates	3
5		PP	Performance Plastics	33
6		FI	Fibre Intermediates	5
7		O	Olefins	3
8		A	Aromatics	6
9		OP	Other Petro-based Chemicals	144
		Sub-Total		473
		Grand Total		2334

Source: DCPC

4.3.2 The Pharmaceutical Department stated that 191 out of the 2334 Chemicals and Petrochemicals products listed by HS codes are related to pharmaceuticals according to Pharma Principal Commodities (PCGs) in the BD/DI HSN codes

List of Chemical & Petrochemical products (HS- Code Wise) related to Pharma as per PCGs of BD/DI list of HSN code:

Table 4.4: Group-wise Bifurcation of Pharmaceuticals for 191 products

S. No	Abbreviations	Description	Nos.	Remarks
1.	C	Chemicals		All these HSN codes are also related to Pharma-Principal commodities group (PCGs) of Bulk Drug & Drug Intermediates list of 260 HSN codes.
2.	OC	Organic Chemicals	38	
3.	PI	Pesticides and Insecticides	1	
4.	DP	Dyes and Pigments	8	
5.	MISC	Miscellaneous	47	
6.	NA	Not Applicable	97	
	Total		191	

Source: DCPC

Details of 2334 Chemicals and Petrochemicals products is in attached in **Annexure.**

4.4 CAS Registry Number:

4.4.1 Chemical Abstract Service (CAS) is a division of American Chemical Society. It is the only organization in the world whose objective is to find, collect and organize all publicly disclosed chemical substance information.

4.4.2 The registry maintained by CAS is an authoritative collection of disclosed chemical substance information. It identifies more than 182 million unique organic and inorganic substances and 68 million protein and DNA sequences, plus additional information about each substance. It is updated with around 15,000 additional new substances daily

4.4.3 A CAS Registry Number has no inherent meaning, but is assigned in sequential, increasing order when the substance is identified by CAS scientists for inclusion in the CAS REGISTRY database.

4.4.4 A CAS RN is separated by hyphens into three parts, the first consisting from two up to seven digits, the second consisting of two digits, and the third consisting of a single digit serving as a check digit. This format gives CAS a maximum capacity of 1,000,000,000 unique numbers. The check digit is found by taking the last digit times 1, the preceding digit times 2, the preceding digit times 3 etc., adding all these up and computing the sum modulo 10. For example, the CAS number of water is 7732-18-5: the checksum 5 is calculated as $(8 \times 1 + 1 \times 2 + 2 \times 3 + 3 \times 4 + 7 \times 5 + 7 \times 6) = 105$; $105 \bmod 10 = 5$.

4.5 UN Codes:

4.5.1 UN Numbers or UN IDS are four-digit numbers that Identify hazardous substances, and articles such as explosives, flammable Liquids, toxic substances etc.

4.5.2 The UN numbers range from UN0001 to about UN3600 and are assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods. For example, the UN Code for Nitrogen (compressed) is UN 1066

4.6 International Standard Industrial Classification

4.6.1 The International Standard Industrial Classification (ISIC) of All Economic Activities (ISIC) is the international reference classification of productive activities. Its main purpose is to provide a set of activity categories that can be utilized for the collection and reporting of statistics according to such activities.

4.6.2 Wide use has been made of ISIC, both nationally and internationally, in classifying data according to kind of economic activity in the fields of economic and social statistics, such as for statistics on national accounts, demography of enterprises, employment and others. In addition, ISIC is increasingly used for non-statistical purposes.

4.7 National Industrial Classification (NIC) - A Digest

4.7.1 The Central Statistics Office (CSO), Ministry of Statistics & Programme Implementation being nodal Statistical Authority in the Country is vested with the responsibility of setting up Standards for collection, compilation and dissemination of Statistical data. The Official statistics is required to be collected and presented according to classification designed to facilitate its use for National Economic Policies and conform to international comparison. The need for comparability of

Statistics available from various sources, on different aspects of the economy and usability of such data for economic analysis necessitated the need of standardization of a system of classification.

4.7.2 CSO being responsible for coordination of statistical activities in the country and with a view to evolve and maintain statistical standards, initiated task of bringing out Standard Industrial Classification as early as in 1960 and evolved a Standard Industrial Classification (SIC) in 1962. To take care of emerging changes in organizations and structure of Industries, the need for revision of this document was felt from time to time. With this objective, the CSO revised SIC 1962 in 1970 (NIC-70), NIC-1970 in 1987 (NIC-87) and NIC-87 in 1998 (NIC-98). It is during 1998 that 4-digit system of International Standard Industrial Classification (ISIC-3) was followed and these 4 digits were extended up to 5 digits based on national needs. Consequent upon release of United Nations International Standard Industrial Classification (ISIC) – 2002 Rev. 3.1, NIC-1998 was updated to bring out NIC-2004. After adoption of ISIC Revision-4 by the United Nations Statistical Commission (UNSC) in the year 2008, an expert committee under the chairmanship of DG, CSO deliberated on the issues and approved the draft NIC-2008 incorporating revision in NIC-2004 consistent with ISIC revision 4.

4.7.3 Basic features of NIC-2008

All the activities are grouped into several “activity groups” or “tabulation categories” in a hierarchical manner. Activities are first grouped into ‘section’ alphabetically coded from A through U, every section is divided into ‘division’ with 2-digit numeric code, every division into ‘group’ with 3-digit numeric code, every group into ‘class’ with 4-digit numeric code and every 4-digit class into 5-digit ‘sub-class’. The structure is illustrated below.

Level		Description
Section		Manufacturing
Division 20		Manufacture of Chemicals and Chemical Products
Group	201	Manufacture of Basic Chemicals, Fertilizer and Nitrogen Compounds, Plastics and Synthetic Rubber in Primary Forms
	203	Manufacture of man-made Fibre
Class	2011	Manufacture of Basic Chemicals
	2030	Manufacture of man-made Fibre
Sub-Class	20111	Manufacture of liquefied or compressed inorganic industrial or medical gases (elemental gases, liquid or compressed air, refrigerant gases, mixed industrial gases etc.)
	20301	Manufacture of synthetic or artificial filament

The structure of NIC-2008 is identical to the structure of ISIC Revision up to 4-digit level 'class'. Classes were then divided into 5-digit 'sub classes' according to national requirements.

4.7.4 Salient features of NIC-2008

- The sections A to Q of NIC-2004 have been replaced by sections A to U in respect of NIC-2008. NIC-2008 has 21 sections, 88 divisions, 238 groups, 403 classes and 1304 sub-classes.
- NIC-2008 is comparable with ISIC Rev.4 till 4-digit classes in totality.
- The concept of shadow classes introduced in NIC-2004 has been done away with in NIC- 2008 as the emphasis has been given on activity rather than type of operation and scale of operation.

- iv. In NIC-2008 some of the 5-digit sub-classes of NIC-2004 have been made separate 4- digit classes e.g. ‘Growing of Sugarcane (01115)’, ‘Growing of tobacco (01114)’, ‘Growing of fibre crops (01113)’ ‘Growing of flowers (01122)’.
- v. Repair and installation of machinery and equipment has been classified as separate division (Division-33) in NIC-2008.
- vi. Repair of Personal Household goods (5260 of NIC-2004) has been removed from Section-G (wholesale and retail trade; repair of motor vehicles and motor cycles) and now included in Section-S (other service activities).
- vii. Publishing activity which was included in division-22 of manufacturing section in NIC-2004 is now included in division-58 (publishing activities) of NIC-2008 under Section-J (information and communication).
- viii. Activity ‘water supply’ under division-41 (Electricity, Gas and Water Supply) of NIC-2004 is now included in Section-E (water supply; sewerage, waste management and remediation activities).
- ix. Explanatory notes of ISIC Rev.4 at 1/2/3-digit level have been incorporated in NIC-2008 as Annexure for better understanding of the revised classification.
- x. Under 4-digit classes of NIC-2008, inclusion and exclusion statements have been included in the detailed structure itself to remove ambiguity in the scope of classification and to facilitate the classification of economic activity distinctly.

Division 20 and 21 of NIC-2008 relates to “Chemical and Chemical Products” and “Pharmaceutical, Medicinal and botanical products” respectively.

Source: Website of Ministry of Statistics and Programme Implementation, Government of India

4.8 Important Definitions of Economic System

i. Gross Domestic Product (GDP)

The total market value of all final goods and services produced during a given time period within a nation's domestic borders.

A. There are three primary approaches to calculating GDP:

a. Production Approach (GDP by Production)

This approach calculates GDP by summing up the value-added at each stage of production. It considers the value of all goods and services produced in various industries and sectors of the economy. The formula for GDP by production is:

$$\text{GDP} = \text{Value of Output} - \text{Value of Intermediate Consumption}$$

b. Expenditure Approach (GDP by Expenditure)

This approach calculates GDP by measuring the total spending on goods and services within the economy. It is represented by the equation:

$$\text{GDP} = C + I + G + (X - M)$$

C represents consumer spending.

I represent investment spending

(business investment in equipment, structures, etc.).

G represents government spending.

X represents exports of goods and services.

M represents imports of goods and services.

c. Income Approach (GDP by Income)

This approach calculates GDP by summing all the income generated within an economy. It includes wages, rents, interest, and profits. The formula for GDP by income is:

GDP = Compensation of Employees + Gross Operating Surplus
+ Gross Mixed Income + Taxes on Production and Imports -
Subsidies on Production and Imports

B. There are 2 types of GDP

a. Nominal GDP

Nominal GDP measures the total market value of all finished good and service produced by a country at their current market price in single year. It includes all the changes in the prices of finished goods and services that took place in one year due to inflation or deflection.

b. Real GDP

Real GDP is also known as inflation adjusted GDP, measure the value of finished goods and services at constant base year price. Real GDP considered as a true indicator of country economic growth. Real GDP includes change in quantity but not price.

ii. GDP deflator

The GDP price deflator measures the changes in prices for all goods and services produced in an economy. GDP deflator helps economists

compare the level of real economic activity from one year to another. The formula for GDP deflator is:

$$GDP\ Deflator = \frac{Nominal\ GDP}{Real\ GDP} \times 100$$

iii. GDP per capita

Gross Domestic Product (GDP) per capita is a commonly used economic indicator that measures the average income or economic output per person in a given country or region. It is calculated by dividing a country's total GDP by its population. The formula for GDP per capita is:

$$GDP\ per\ capita = GDP / Population$$

iv. Net domestic product (NDP):

The net domestic product (NDP) equals the gross domestic product (GDP) minus depreciation on a country's capital goods.

Net domestic product accounts for capital that has been consumed over the year in the form of housing, vehicle, or machinery deterioration

$$NDP = GDP - Depreciation$$

Depreciation is the decrease in the value of assets due to usage of machinery

v. Gross National product (GNP):

Gross national product is the total value of all final goods and services produced by country's citizens in given financial year, irrespective of their location. The formula for GNP is:

$GNP = GNP + \text{Net Factor Income from Abroad (NFIA)}$

Where, Net Factor income from Abroad(NFIA) = Income of Indian residence working in Abroad – Income of Foreigners working in country

vi. Net National product (NNP):

Net National product (NNP) in economy is the GNP after deducting the loss due to the depreciation.

vii. Gross value added (GVA):

Gross value added (GVA) is the measure of the value of goods and services produced in an area, industry or sector of an economy. "Gross value added is the value of output minus the value of intermediate consumption"

viii. Relation between GDP & GVA:

The relationship between GVA and GDP is defined as:

$GVA = GDP + \text{subsidies on products} - \text{taxes on products}$

4.9 Statistics:

- i. Real GDP has been estimated to grow by 6.5% in FY 2024-25 as compared to the growth rate of 9.2% in FY 2023-24. Nominal GDP has witnessed a growth rate of 9.8% in FY 2024-25 over the growth rate of 12% in FY 2023-24.
- ii. Real GVA and Real GDP have been estimated to grow by 6.8% and 7.4% respectively in Q4 of FY 2024-25. Growth rates in Nominal

GVA and Nominal GDP for Q4 of FY 2024-25 have been estimated at 9.6% and 10.8% respectively.

- iii. Real GVA has grown by 6.4% in 2024-25 as compared to 8.6% in 2023-24. This decline in GVA growth has been mainly due to significant decline in manufacturing sector from 12.3% in 2023-24 to 4.5% in 2024-25.
- iv. Real GVA is estimated at ₹171.87 lakh crore in the year 2024-25, against the FRE for the year 2023-24 of ₹161.51 lakh crore, registering a growth rate of 6.4% as compared to 8.6% in 2023-24.
- v. Real GDP or GDP at Constant Prices is estimated to attain a level of ₹187.97 lakh crore in the year 2024-25, against the First Revised Estimates (FRE) of GDP for the year 2023-24 of ₹176.51 lakh crore.
- vi. Nominal GDP or GDP at Current Prices is estimated to attain a level of ₹330.68 lakh crore in the year 2024-25, against ₹301.23 lakh crore in 2023-24, showing a growth rate of 9.8%.
- vii. Nominal GVA is estimated to attain a level of ₹300.22 lakh crore during FY 2024-25, against ₹274.13 lakh crore in 2023-24, showing a growth rate of 9.5%.

(Source:https://mospi.gov.in/sites/default/files/press_release/GDP_PR_Q1_2025-26_29082025.pdf)

CHAPTER 5

INDICES RELEASED BY THE GOVERNMENT OF INDIA

5.1 Indices are important economic indicators to demonstrate the relative change in the parameters over a specified period of time. Some of the important indices compiled and released by different Departments under the Government of India along with their inception and uses in different sectors of economy are summarized below:

- i. Index of Industrial Production (IIP)
- ii. Consumer Price Index (CPI)- Industrial Worker, Agricultural Labourer / Rural Labourer, Rural / Urban / Combined
- iii. Wholesale Price Index (WPI)

5.2 Index of Industrial Production-(IIP)

5.2.1 The Central Statistics Office (CSO), Ministry of Statistics and Programme Implementation Compiles and brings out an index of Industrial Production. CSO revises the base year of the macroeconomic indicators, as a regular exercise, to capture structural changes in the economy and improve the quality and representativeness of the indices. In this direction, the base year of the all-India Index of Industrial Production (IIP) has also been revised from 2004-05 to 2011-12 to not only reflect the changes in the industrial sector but also to align it with the base year of other macroeconomic indicators like the Gross Domestic Product (GDP), Wholesale Price Index (WPI) etc.

5.2.2 IIP in the revised series is continued to represent the Mining, Manufacturing and Electricity sectors. The revised series uses the National Industrial Classification (NIC) 2008 for the purpose of classification of industrial production. 15 source agencies are

proving production data for Index of Industrial Production (IIP) base year 2011-12.

Table 5.1: Source Agencies of IIP in the new series with base year 2011-12

S. No	Source	Weights (%)
1	Department of Industrial Policy and Promotion (DIPP)	47.54
2	Indian Bureau of Mines	14.37
3	Ministry of Petroleum & Natural Gas	11.29
4	Joint Plant Committee	10.52
5	Central Electricity Authority	7.99
6	Department of Chemicals and Petrochemicals	2.54
7	Office of Textile Commissioner	1.94
8	Department of Fertilizers	1.06
9	Directorate Of Sugar and Vegetable Oils (for Edible Oils only)	0.97
10	Directorate Of Sugar and Vegetable Oils (for Sugar only)	0.76
11	Office of Coal Controller	0.49
12	Tea Board	0.29
13	Railway Board	0.13
14	Office of Jute Commissioner	0.07
15	Coffee Board	0.04
	GENERAL	100.00

Source: MoSPI

5.2.3 Highlights of the changes in New Series of Index of Industrial Production are summarized below:

- The selection of items in the new series has been done at the 3-digit level of NIC for better representation as compared to selection at 2-digit level done in 2004-05 series.
- At the broad level, the new series has a total of 809 items occurring in the manufacturing sector in the item basket (405 item groups), where

149 new items like Steroids and hormonal preparations, Cement clinkers, Medical/ surgical accessories, pre-fabricated concrete blocks, refined Palm Oil have been added and 124 items such as Biaxially Oriented Polypropylene (BOPP) Films, Calculators, Colour TV picture tubes, Gutka have been deleted from the 2004-05 series in the manufacturing sector.

Table: 5.2: Sectoral composition of the IIP

Sector	Base year 2011-12		Base year 2004-05	
	Weights (%)	Item groups	Weights (%)	Item groups
Mining	14.373	1	14.157	1
Manufacturing	77.633	405	75.527	397
Electricity	7.994	1	10.316	1
Total	100	407	100	399

Source: MoSPI

- iii. To reflect the increasing significance of electricity generation from renewable sources, it was decided to include data on electricity generation figures from these sources in the new series. This inclusion was done from April, 2014 onwards as monthly data for electricity generation from renewable sources for earlier months were not available.
- iv. For capital goods, data in the new series is captured in terms of 'work in progress' to better represent the growth of capital goods and to avoid reporting of production figures in bulk after the completion of production. Details on this methodology are available in the Report of the Working Group set up for the revision of base year, which may be

accessed in the official website of Ministry of Statistics and Programme Implementation (www.mospi.gov.in).

- v. The number of source agencies reporting data for compilation of IIP in the new series is 14 as compared to 15 in its previous. This is on account of the fact that data on 'Iodised Salt' in the new series is being provided by the Department of Industrial Policy and Promotion (DIPP) as O/o Salt Commissioner was not in a position to supply Salt production data after abolition of Salt Cess Act, 1953 in Finance Bill 2016.
- vi. In the Mining Sector the coverage was undergone a change on account of the MCDR Amendment Rules, 2016 resulting in 27 non-metallic minerals being designated as minor minerals and which were no longer monitored by Indian Bureau of Mines.

5.3 Consumer Price Index (CPI)

5.3.1 A Consumer Price Index (CPI) is designed to measure the changes over time in general level of retail prices of selected goods and services that households purchase for the purpose of consumption. Such changes affect the real purchasing power of consumer's income and their welfare. CPI numbers are widely used as macroeconomic indicator of inflation, and also as a tool by government and central banks for targeting inflation and monitoring price stability. CPI is also used as deflators in the National Accounts. Therefore, CPI is considered as one of the most important economic indicators.

5.3.2 Different types of CPIs, namely, CPI (IW), CPI (AL/RL), CPI (UNME) and CPI (R/U/C) compiled by different agencies of Government of India, are available for users in our country. First three indices, including CPI (UNME), are specific to population segments. The price collection for CPI

(UNME) was discontinued with effect from April 2008 and linked all India CPI (UNME) numbers were brought out from April 2008 to December 2010. The fourth one i.e. CPI (R/U/C) is for general population, sector-wise, to be explained in subsequent paragraphs.

5.3.3 Consumer Price Index for Industrial Workers - CPI (IW)

5.3.3.1 This index is compiled by the Labour Bureau, Ministry of Labour and Employment. The target population is working class family, defined as a family: (i) located within the centre for industrial worker, (ii) has at least one member working as manual worker in an establishment in any of the seven sectors of employment covered viz., factories, plantations, mining, ports and docks, public motor transport undertakings, electricity generating and distributing establishments, and railways; and (iii) derived 50 per cent or more of its income during the calendar month preceding the day of enquiry through any manual work.

5.3.3.2 The present series of CPI (IW) is on base 2016=100. The weighting diagrams for the purpose of compilation of index numbers had been derived on the basis of average monthly family expenditure of the working class obtained from the Working Class Family Income Expenditure Survey conducted during 1999-2000.

5.3.3.3 The CPI (IW) is released every month (on the last working day of succeeding month) for each of the selected 88 centres as well at all India level. It is mainly used for the determination of Dearness Allowance (DA) being paid to Central/State Government employees and also to the workers in the industrial sectors, besides fixation and revision of minimum wages in scheduled employments. It is also used in moving the base year poverty lines for urban areas to the subsequent years.

5.3.4 Consumer Price Index for Agricultural/ Rural Labourers - CPI (AL/RL)

5.3.4.1 These indices are compiled by the Labour Bureau, Ministry of Labour and Employment. The target populations are agricultural and rural labourers. A rural labour household is defined as one, which derives major income from manual employment (rural labour) during the last 365 days. From amongst the rural labour households, those households, which earn 50% or more of their total income from gainful employment as manual labour in agriculture during the last 365 days, are categorized as agricultural labour households. Agricultural labour households form a major subset of rural labour households. A person is considered engaged in agricultural labour if he/she follows one or more of the agricultural occupations in the capacity of wage paid manual labourer, whether paid in cash or kind (excluding exchange labour) or both. A person who does manual work in return for wages in cash or kind or partly in cash and partly in kind (excluding exchange labour) is a wage paid manual labourer. Persons who are self-employed doing manual work are not treated as wage paid manual labourers. People living in rural areas and engaged in manual labour by working in agricultural and/or non-agricultural occupations in return for wages paid either in cash or kind (excluding exchange labour) or both, are considered as rural labourers. Thus, rural labourers include both agricultural and other labourers.

5.3.4.2 The present series of CPI (AL/RL) is on base 1986-87=100. Estimates of average consumer expenditure per household generated from the results of the NSS 38th round (1983), CES formed the source of weights for different items of goods and services, used in compilation of CPI (AL) and CPI (RL).

5.3.4.3 For both the current series of CPI (AL) and CPI (RL), the retail prices in respect of goods and services are collected on monthly basis, from fixed markets in 600 sample villages in 20 states by the field workers of the Field Operations Division (FOD) of the National Sample Survey Office (NSSO). The various items (12) of goods and services are categorized into four main groups namely, (i) Food, (ii) Fuel and Light, (iii) Clothing, Bedding and Footwear; and (iv) Miscellaneous. The items of goods and services are common for the state as a whole but the varieties of most of the items differ from village to village. The collection of retail prices is staggered over four weeks of a month with one-fourth of the sample covered every week.

5.3.4.4 The CPI (AL/RL) is released every month (20th or preceding working day of the following month) for each of the selected states as well at all India level. It is mainly used for the determination/ fixation and revision of minimum wages in agricultural sector. CPI (AL) is also used in moving the base year poverty lines for rural areas to the subsequent years.

5.3.5 Consumer Price Index for Rural, Urban and Combined - CPI (R/U/C)

The indices are compiled by the CSO on base 2010 = 100. The consumption patterns (weighting diagrams) for this series of CPI have been derived on the basis of average monthly consumer expenditure of an urban/rural household obtained from the results of the 61st Round of CES conducted by the National Sample Survey Office during 2004-05.

5.4 Wholesale Price Index (WPI)

5.4.1 WPI is an important measure to monitor the dynamic movement of prices at the wholesale level. In a dynamic world, prices keep on

changing. WPI is used as a deflator of various nominal macroeconomic variables including Gross Domestic Product (GDP). The WPI based inflation estimates also serve as an important determinant, in formulation of trade, fiscal and other economic policies by the Government. WPI is also used for the purpose of escalation clauses in the supply of raw materials, machinery and construction work. Business firms in search of effective methods for coping with changes in prices often employ price adjustment (escalation) clauses in long-term sales and purchase contracts. WPI is widely recognized among business people, economists, statisticians and accountants as a useful objective indexing tool in price adjustment clauses.

5.4.2 The base year of All-India WPI has been revised from 2004-05 to 2011-12 by the Office of Economic Advisor (OEA), Department of Industrial Policy and Promotion, Ministry of Commerce and Industry to align it with the base year of other macroeconomic indicators like the Gross Domestic Product (GDP) and Index of Industrial Production (IIP). The Wholesale Price Index (WPI) series in India has undergone six revisions in 1952-53, 1961-62, 1970-71, 1981-82, 1993- 94 and 2004-05 so far. The current series (base year 2011-12) is the seventh revision.

5.4.3 Features of WPI

- i. In the current series of WPI, prices used for compilation do not include indirect taxes in order to remove impact of fiscal policy. This is in consonance with international practices and will make the current WPI conceptually closer to 'Producer Price Index'.
- ii. A current "WPI Food Index" is compiled to capture the rate of inflation in food items.
- iii. Seasonality of fruits and vegetables has been updated to account for more months as these are now available for longer duration.

- iv. Item level aggregates for current WPI are compiled using Geometric Mean (GM) following international best practice and as is currently used for compilation of All India CPI.
- v. A high-level Technical Review Committee was set up for the first time to carry out dynamic review process in order to keep pace with the changing structure of the economy.

CHAPTER 6

CHEMINDIA-CHEMICALS INVENTORY OF INDIA

6.1 Objectives

ChemIndia, short for Chemicals Inventory of India, is a secure and adaptable web-based data collection and management system. This platform efficiently compiles and analyses real-time reports from Chemical and Petrochemical manufacturing units. It enhances data management, enabling users to generate swift visualizations and comprehensive reports tailored to the chemical sector's specific needs. The application's primary objective is to elevate the value of chemical industries by streamlining data supply, fostering efficiency, and providing access to the latest sector innovations and technological advancements.

6.2. Key Aspects

- i. Assessment of the current Data Management System in DCPC.
- ii. Identification of requirements for a comprehensive web-based data management system (ChemIndia) for the chemical industry.
- iii. Categorization of parameters, including Chemical & Petrochemical segments.
- iv. Development of an integrated bilingual web platform (ChemIndia) following Guidelines for Government Websites (GIGW) guidelines.
- v. Expansion of data coverage by on-boarding chemical units/industries.
- vi. Provision of automated reconciliation and diverse report generation for stakeholders.
- vii. Integration of APIs to amalgamate sector data from various Departments/Ministries.
- viii. Implementation of robust security measures.
- ix. Establishment of Facilitator & Coordinator roles for user management.

- x. Inclusion of Security Login and user activity logs.
- xi. Integration of Geographic Information System (GIS) mapping.
- xii. Creation of user manuals and provision of user training.
- xiii. Migration of existing Production Monitoring System (PMS) data into ChemIndia.
- xiv. Pre-production security audit by Computer Emergency Response Team (CERT-In) empanelled bidders.
- xv. Design of a graphical reporting dashboard for easy data visualization.

6.3. Features

- i. Paperless Data Collection: Reduces paper usage for documentation.
- ii. Time Efficiency: Accelerates data collection and processing for prompt decision-making.
- iii. Interactive User Interface: Ensures consistent visual experience with standardized design.
- iv. Data Validation: Incorporates validations during data entry.
- v. Role Management: Implements roles for Company, Units, and DCPC.
- vi. User Creation: Allows unlimited user creation for various tasks.
- vii. Reminder Alerts: Sends auto reminders for non-compliance or irregular data submission.
- viii. API Integration: Creates APIs for future external system integration.
- ix. Insights and Charts: Provides data insights and graphical representations on the dashboard.
- x. User Activity Monitoring: Maintains secure user activity logs.

- xi. Data Confidentiality: Ensures confidential and controlled data access.
- xii. Administrative Controls: Enables industry administrators to validate data entry.
- xiii. GIS Dashboard: Displays location-based analytics using interactive visualizations.
- xiv. Dynamic Application: Adapts database and entry fields as needed.

6.4. Benefits

- i. Provides comprehensive sector performance and trend insights.
- ii. Offers geographically based information.
- iii. Facilitates quick decision-making based on real-time market data.
- iv. Enhances data accuracy and efficiency.
- v. Promotes knowledge generation and innovation in the chemical industry.
- vi. Supports informed policymaking at national and regional levels.
- vii. Encourages collaboration and partnerships within the chemical sector ecosystem.
- viii. Implements cutting-edge technologies for data management.
- ix. Enables remote data entry, monitoring, and analysis.
- x. Supports researchers and stakeholders in conducting analysis and research activities.

CHAPTER 7

RELEVANT NATIONAL AND INTERNATIONAL REGULATIONS FOR CPC SECTOR

RELEVANT NATIONAL AND INTERNATIONAL REGULATIONS FOR CPC SECTOR

7.1. Regulations in Europe

European Union has European Chemicals Agency (ECHA), which aims at effective implementation of chemical regulations under framework of the Registration, Evaluation, Authorization, and Restriction of Chemicals regulation abbreviated as REACH and the Classification, Labelling, and Packaging regulation abbreviated as CLP. These regulations are instrumental in ensuring the safe handling of chemicals, safeguarding of human health and protecting the environment and promoting regulatory consistency across the European Union member states.

7.1.1 Key Features of REACH:

- i. Manufacturers and importers producing or importing chemicals with quantities exceeding one ton per annum must register their chemical substances with ECHA, including properties and safe utilization of the substance.
- ii. ECHA evaluates the submitted data meticulously, and may request for additional information, if required. If registered substance is found to pose risks to human health or environment, regulatory actions may be taken
- iii. Entities registering for substances with Very High Concern (SVHCs) require authorization for their continued use and are supposed to submit applications along with safer alternatives, if available
- iv. Substances deemed to poses an unacceptable risk to human health or the environment, may be restricted or prohibited across the EU

7.1.2 Key Features of CLP:

- i. CLP Aligns the European system with UN's Globally Harmonized System (GHS), ensuring chemical substances and mixtures are classified and labelled to communicate the hazards effectively to the

user. Chemicals are classified based on their properties such as toxicity, flammability, reactivity and environmental impact

- ii. CLP empowers individuals to take appropriate safety measures when working with or in proximity to hazardous chemicals and promotes safer practices in the handling and storage of chemicals
- iii. Globally recognized hazard communication under CLP facilitates the seamless import and export of chemicals there by streamlining international trade of chemicals

7.2. Regulations in United States of America (USA):

Environmental Protection Agency (EPA) and the Occupational Safety and Health Administration (OSHA) are the federal agencies for regulation of chemicals in United States of America.

7.2.1 Acts Administered by EPA:

- i. Toxic Substances Control Act (TSCA) main federal law that regulates the production, importation, use, and disposal of chemicals in the U.S., it enhances the EPA's authority to assess and regulate chemicals for their potential health and environmental risks
- ii. Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) regulates the registration, distribution, sale, and use of pesticides in the U.S., evaluation and registration of pesticides is responsibility of EPA

EPA also administers Clean Air Act (CAA) controls emissions of volatile organic compounds (VOCs), hazardous air pollutants (HAPs), and other chemicals that can contribute to air pollution and health issues and Clean Water Act (CWA) for controlling the release of hazardous substances and chemicals into water bodies

7.2.2 Acts Administered by OSHA:

- i. Hazard Communication Standard (HCS) requires employers to communicate chemical hazards to workers through labels, safety data sheets (SDSs), and conduct trainings, it's also aligned with the GHS
- ii. Occupational Safety and Health Act (OSH Act) sets standards for workplace safety and health, similar as HCS mentioned previously

7.3. Regulations in Japan:

Japan has a framework for regulating chemicals to ensure the safety of human health and the environment administered by Ministry of the Environment (MOE) and the Ministry of Health, Labour and Welfare (MHLW). Major laws and acts are as follows:

- i. Chemical Substance Control Law (CSCL) governs manufacture and import of chemical substances in Japan and is similar to the EU's REACH regulation, as per law companies make submission related to new and existing chemical substances.
- ii. Industrial Safety and Health Act (ISHA) is administered by the Ministry of Health, Labour and Welfare (MHLW), regulates workplace safety and health, also includes the handling of hazardous chemicals, enforces employers to mandatorily provide training to workers, and maintain safety data sheets.
- iii. Chemical Assessment and Regulation Law regulates the manufacture, import, and handling of chemical substances that may pose risks to human health and the environment.
- iv. Poisonous and Deleterious Substances Control Act: This law regulates the manufacture, import, storage, and use of poisonous and deleterious substances in Japan. It categorizes chemicals into

three classes and imposes various requirements on their handling, including labelling, safety data sheets, and reporting.

MHLW also administers Pollution Control Act, which governs the prevention of pollution and environmental conservation including regulations on release of hazardous substances into the environment, including air and water.

7.4. Regulations in Australia:

Australia has two regulations to manage the safety of chemicals and their impact on human health and the environment. Some key regulations and acts in Australia include:

- i. Industrial Chemicals Act 2019: This act establishes the Australian Industrial Chemicals Introduction Scheme (AICIS) and regulates the importation and manufacture of industrial chemicals. AICIS assesses and categorizes chemicals based on risk and imposes regulatory requirements accordingly.
- ii. Globally Harmonized System (GHS): Australia has adopted the GHS for classification and labelling of chemicals. The GHS provides a standardized approach to hazard communication, ensuring that labels and safety data sheets convey consistent information about chemical hazards.

7.5. Regulations in China:

China has enacted several laws and regulations related to hazardous chemicals to ensure the safe handling, storage, transportation, and disposal of such substances. Some of the key laws and regulations include:

- i. China REACH (Registration, Evaluation, Authorization, and Restriction of Chemicals): China implemented its own version of

REACH, which is similar to the European Union's REACH regulation. China REACH requires the registration of new and existing chemicals, including hazardous chemicals, and imposes obligations on manufacturers and importers to ensure the safe use of these substances.

- ii. Hazardous Chemicals Control Ordinance (China GHS): This regulation implements the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) in China. It standardizes the classification and labelling of hazardous chemicals.
- iii. Hazardous Chemicals Regulations (Decree No. 591): These regulations lay out the classification and labelling requirements for hazardous chemicals. They also provide guidelines for the safe production, storage, transportation, and use of hazardous chemicals.

Table 7.1: International regulations for control of Chemicals

Sr No	Acts and Rules	Purpose of Legislation	Ministry/ Authority
1	National Chemical Policy, 2014 (DRAFT)	To create an enabling framework to foster innovation, catalyse manufacturing, addressing environmental concerns, encourage research and expansion of the industry	Ministry of Chemicals and Fertilizers (Dept. of Chemicals and Petro-Chemicals)
2	The Petroleum Act, 1934	Regulate the import, transport, storage, production, refining and blending of petroleum	Ministry of Petroleum and Natural Gas
3	The Petroleum Rules, 2002	Regulate the import, transport, storage, production, refining and	Ministry of Petroleum and Natural Gas, and Ministry of Environment

		blending of petroleum	& Forests (MoEF),
4	The Calcium Carbide Rules, 1987	To regulate the import, production, storage, transportation, sale, use and handling and disposal of Calcium Carbide with a view to prevent accidents	Ministry of Petroleum and Natural Gas,
5	The Explosives Act,	To regulate the manufacture, possession, use, sale, transport, export and import of explosives with a view to prevent misuse	Ministry of Commerce and Industry (Department of Explosives)
6	The Explosives Rules, 1983	To regulate the manufacture, possession, use, sale, transport, export and import of explosives with a view to prevent accidents	Ministry of Commerce and Industry and Ministry of Environment & Forests (MoEF),
7	The Insecticides Act, 1968	Regulate the import, manufacture, sale, transport, distribution and use of insecticides with a view to prevent risk to human beings or animals	Ministry of Agriculture, Central Insecticides Board, and Registration Committee
8	The Insecticides Rules, 1971	Regulate the import, manufacture, sale, transport, distribution and use of insecticides with a view to prevent risk to human beings or animals	Ministry of Agriculture,
9	The Fertiliser (Control) Order, 1985 under the Essential Commodities	Regulate the import, manufacture, sale, transport, distribution and	Ministry of Agriculture (Department of Agriculture and Cooperation)

	Act, 1955		
10	The Drugs and Cosmetics Act, 1940	To regulate import, manufacture, distribution and sale of drugs	Ministry of Health and Family Welfare
11	EIA Notification, 1994	Requirement of environmental clearance before establishment/ expansion of certain type of industries having bearing on Environment.	Ministry of Environment & Forests (MoEF), and Central/ State Pollution Control Board and Pollution Control Committees Union Territories
12	Batteries (Management and Handling) Rules, 2001.	To control the hazardous waste generation (lead waste) from used lead acid batteries	Ministry of Environment & Forests (MoEF), and Central/ State Pollution Control Board and Pollution Control Committees Union Territories
13	Hazardous Waste (Management and Handling) Rules, 1989	Management & handling of hazardous wastes in line with the Basel Convention (Trans-boundary movement of hazardous waste)	Ministry of Environment & Forests (MoEF), and Central/ State Pollution Control Board and Pollution Control Committees Union Territories.
14	Ozone Depleting Substances (Regulation and Control) Rules, 2000	Regulate the production, import, use, sale, purchase and phase-out of the Ozone Depleting Substances	Ministry of Environment & Forests
15	Manufacture, Storage and Import of Hazardous Chemical Rules, 1989	Regulate the manufacture, storage and import of hazardous chemicals	Ministry of Environment & Forests (MoEF), and Central/ State Pollution Control Board and Pollution Control Committees Union Territories

16	Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996	Emergency planning preparedness and response to chemical accidents	Ministry of Environment & Forests (MoEF), and Central/ State Pollution Control Board and Pollution Control Committees Union Territories
17	The Air (Prevention and Control of Pollution) Act, 1981 amended 1987	Prevention, control and abatement of air pollution	Central/ State Pollution Control Board and Pollution Control Committees Union Territories
18	The Air (Prevention and Control of Pollution) (Union Territories) Rules,	Prevention, control and abatement of air pollution	Central/ State Pollution Control Board and Pollution Control Committees Union Territories
19	The Water (Prevention and Control of Pollution) Act, 1974 amended 1988	Prevention and control of water pollution and also maintaining or restoring the wholesomeness of water bodies	Central/ State Pollution Control Board and Pollution Control Committees Union Territories
20	The Water (Prevention and Control of Pollution) Rules, 1975	The prevention and control of water pollution and also maintaining or restoring the wholesomeness of water	Central/ State Pollution Control Board and Pollution Control Committees Union Territories
21	The Environment (Protection) Act, 1986,	Protection and Improvement of the Environment	Ministry of Environment & Forests (MoEF), and Central/ State Pollution Control Board and Pollution Control Committees Union Territories

22	Environmental (Protection) Rules, 1986	Protection and Improvement of the Environment	Ministry of Environment & Forests (MoEF), and Central/ State Pollution Control Board and Pollution Control Committees Union Territories
23	National Disaster Management Act, 2005	Disaster prevention, mitigation, capacity building, improving preparedness to deal with disaster, response capability and provision of evacuation, rescue, relief and rehabilitation	Ministry of Home Affairs and Disaster Management Authority

CHAPTER 8

GLIMPSES OF IMPORTANT TRENDS FROM FY 2020-21 TO FY 2024-25

GLIMPSES OF IMPORTANT TRENDS FROM FY 2020-21 TO FY 2024-25

8.1 This Chapter has been included in this publication to highlight important trends of chemicals and petrochemicals sector during the last five years i.e. FY 2020-21 to FY 2024-25, through graphical presentation with concise analysis. The graphical presentation contains tables alongside trends during the considered period in respect of Production, Installed Capacity, Export, Import and Net Export / Net Import relating to various groups of Major Chemicals and Major Petrochemicals with Compound Annual Growth Rate (CAGR) from the FY 2020-21 to FY 2024-25. The Chapter also contains pie charts depicting share of Major Groups under Major Chemicals and Major Petrochemicals in respect of Production, Installed Capacity, Export and Import along with Net Import / Net Export in the FY 2024-25.

8.2. This Publication has also contained detailed tables in Appendices Section showing group-wise, product-wise, year-wise information of selected Major Chemicals and Major Petrochemicals along with top five import and export destinations. The information relating to exchange rates of Indian Rupees' vis-a-vis US\$, World export of Chemicals by top ten countries-2024, sector-wise FDI inflows etc. are also included in the Appendices Section.

8.3. Many of statistical tables appended in the Publication present temporal data from the FY 2017-18 to FY 2024-25. CAGR in these tables has also been reflected over the period of 8 years.

8.4. Hope trends indicated in this chapter and data contained in the publication would help users in understanding the emerging scenario in the sector with clarity and ease.

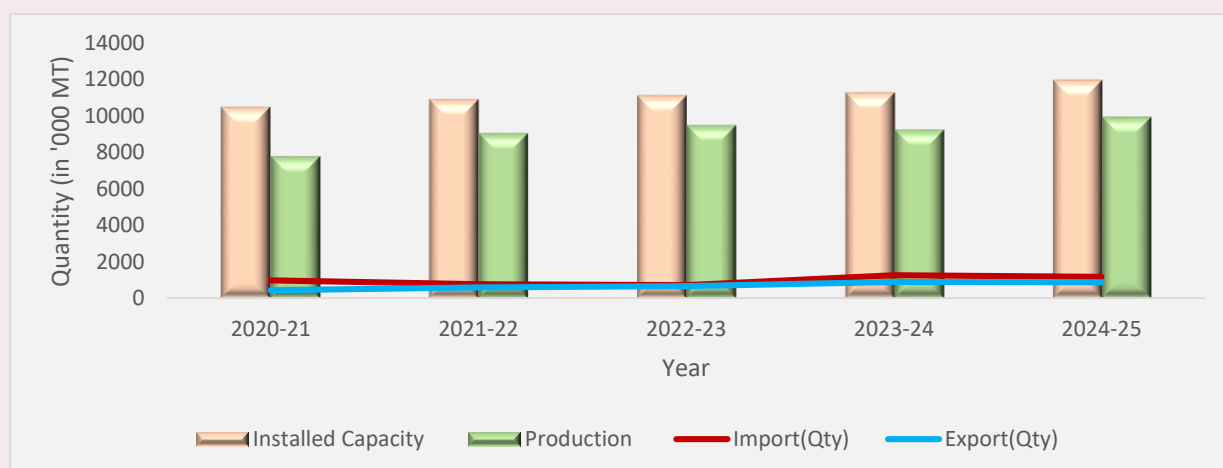
Alkali Chemicals

Table 8.1: Installed Capacity, Production, Import & Export (in '000 MT)

Year	Installed Capacity	Production	Import(Qty)	Export(Qty)
2020-21	10473	7776	968	429
2021-22	10889	9041	767	598
2022-23	11100	9493	713	668
2023-24	11260	9234	1263	893
2024-25	11943	9938	1176	863
CAGR (%)	3.3	6.3	5.0	19.1

Source: DCPC

Graph 8.1: Installed Capacity, Production, Import & Export



Source: DCPC

The Alkali Chemicals sector recorded steady growth from 2020–21 to 2024–25, with both installed capacity and production rising, reflecting consistent expansion and improved efficiency. Imports declined overall, indicating increasing domestic self-reliance, while exports grew significantly, showcasing stronger global competitiveness. Overall, the sector demonstrated balanced growth with higher output, reduced import dependence, and robust export performance.

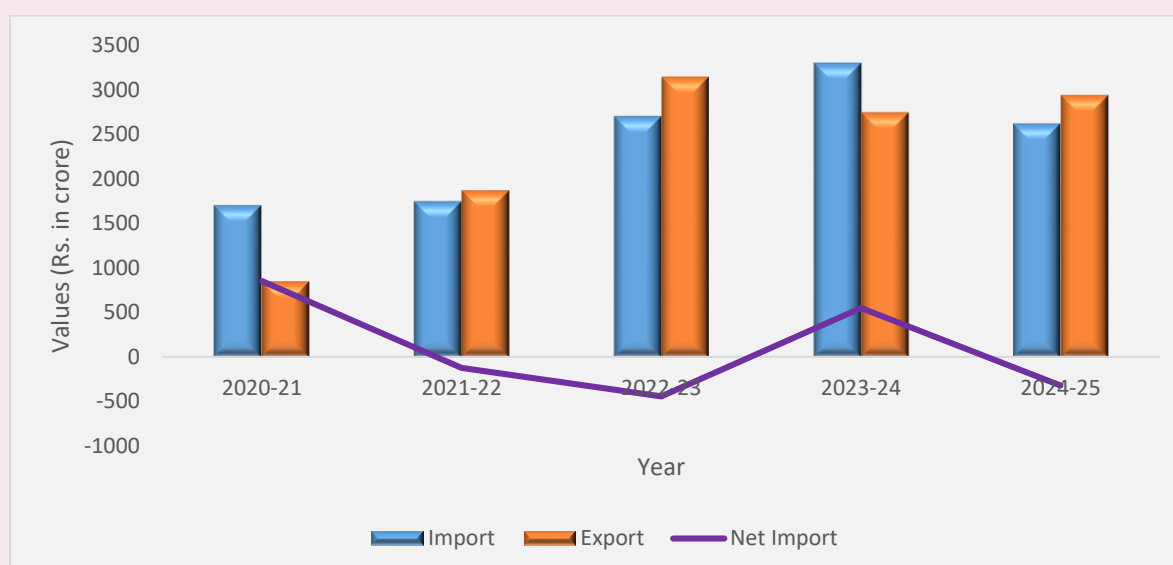
Alkali Chemicals

Table 8.2: Value of Import, Value of Export and Net Import (Rs. in Crore)

Year	Import	Export	Net Import
2020-21	1705	853	852
2021-22	1747	1872	-124
2022-23	2700	3143	-443
2023-24	3296	2747	549
2024-25	2617	2939	-322
CAGR (%)	11.3	36.2	NA

Source: DCPC

Graph 8.2: Value of Import, Value of Export and Net Import



Source: DCPC

The Alkali Chemicals sector's trade performance improved significantly from 2020–21 to 2024–25, with exports rising sharply and surpassing imports in most years. While imports increased moderately, exports nearly tripled, transforming the trade balance from a net import position to a net export surplus in several years.

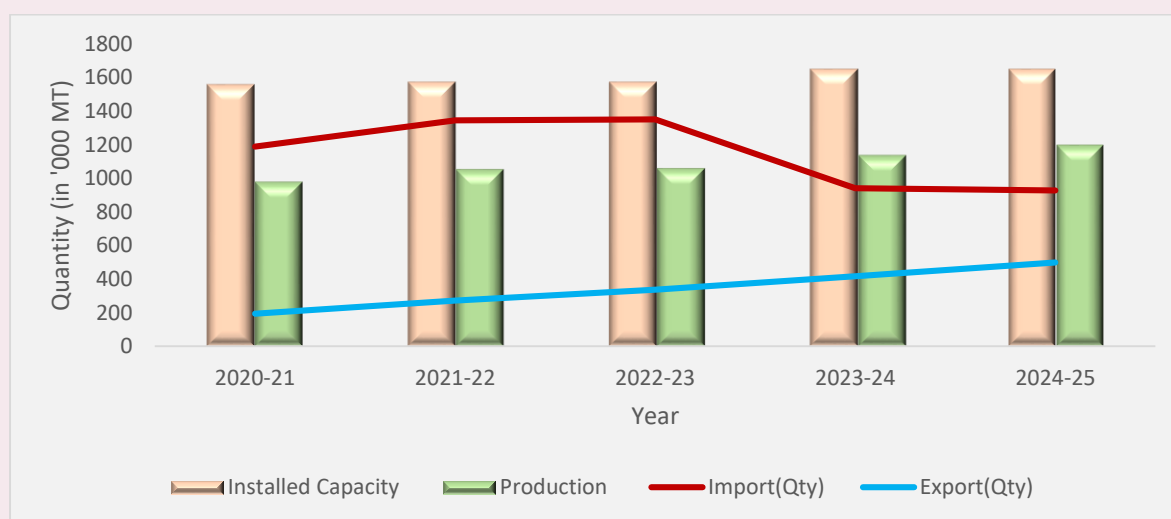
Inorganic Chemicals

Table 8.3: Installed Capacity, Production, Import & Export (in '000 MT)

Year	Installed Capacity	Production	Import(Qty)	Export(Qty)
2020-21	1560	978	1188	195
2021-22	1575	1052	1345	273
2022-23	1575	1058	1351	337
2023-24	1650	1137	942	417
2024-25	1650	1197	928	499
CAGR (%)	1.4	5.2	-6.0	26.5

Source: DCPC

Graph 8.3: Installed Capacity, Production, Import & Export



Source: DCPC

The Inorganic Chemicals sector showed steady progress from 2020–21 to 2024–25, with moderate growth in capacity and production, along with reduced import dependence. Exports recorded positive growth, while imports declined in 2024–25 compared to the previous year. Overall, the sector demonstrated balanced growth and an improving trade position.

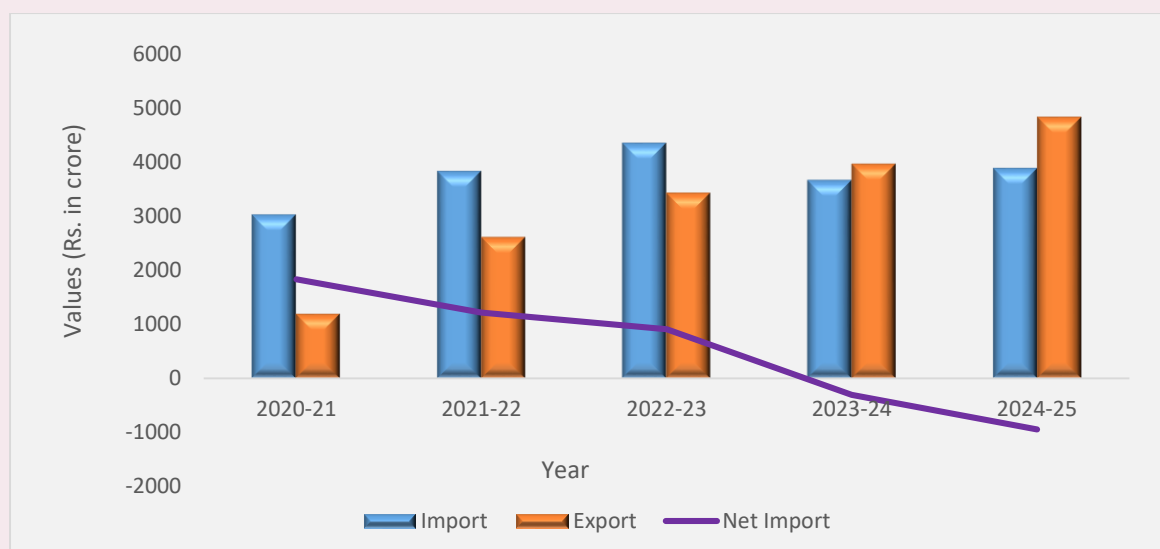
Inorganic Chemicals

Table 8.4: Value of Import, Value of Export and Net Import (Rs. in Crore)

Year	Import	Export	Net Import
2020-21	3021	1192	1829
2021-22	3824	2612	1212
2022-23	4336	3428	908
2023-24	3657	3962	-304
2024-25	3876	4825	-948
CAGR (%)	6.4	41.8	NA

Source: DCPC

Graph 8.4: Value of Import, Value of Export and Net Import



Source: DCPC

The Inorganic Chemicals sector showed strong trade improvement from 2020–21 to 2024–25, with exports rising sharply and overtaking imports in recent years. Imports grew moderately, while the trade balance shifted from a large deficit to a net export surplus, reflecting improved competitiveness, higher value addition, and reduced import dependence.

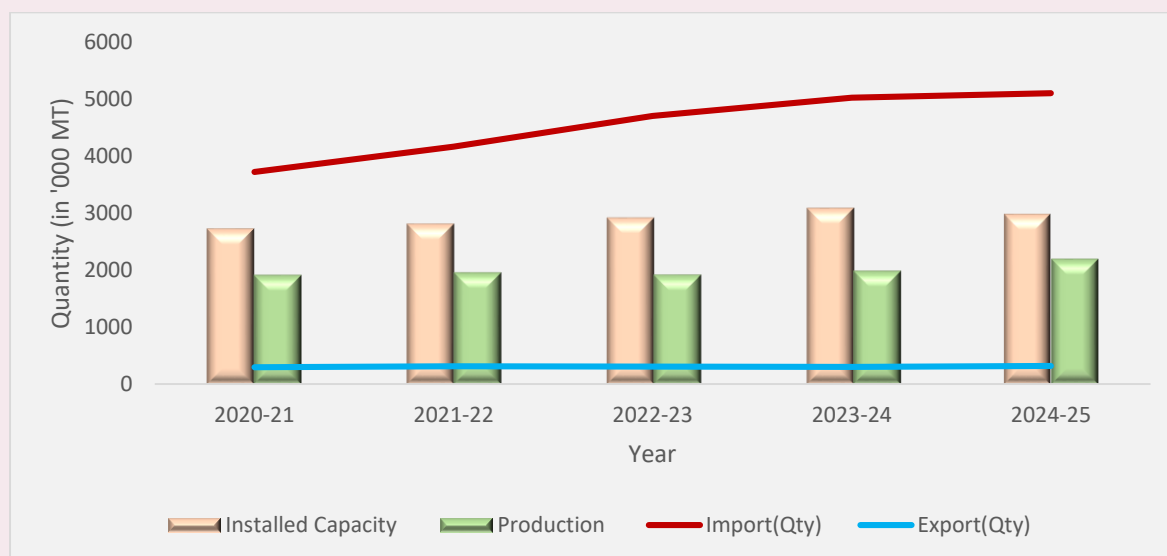
Organic Chemicals

Table 8.5: Installed Capacity, Production, Import & Export (in '000 MT)

Year	Installed Capacity	Production	Import(Qty)	Export(Qty)
2020-21	2716	1906	3716	296
2021-22	2800	1953	4160	310
2022-23	2905	1912	4701	304
2023-24	3076	1983	5018	301
2024-25	2971	2189	5100	318
CAGR (%)	2.3	3.5	8.2	1.8

Source: DCPC

Graph 8.5: Installed Capacity, Production, Import & Export



Source: DCPC

The Organic Chemicals sector showed moderate growth in capacity and production from 2020–21 to 2024–25, while imports rose sharply, indicating strong domestic demand and continued import dependence. Exports remained largely stable, resulting in a widening trade gap despite steady improvement in production.

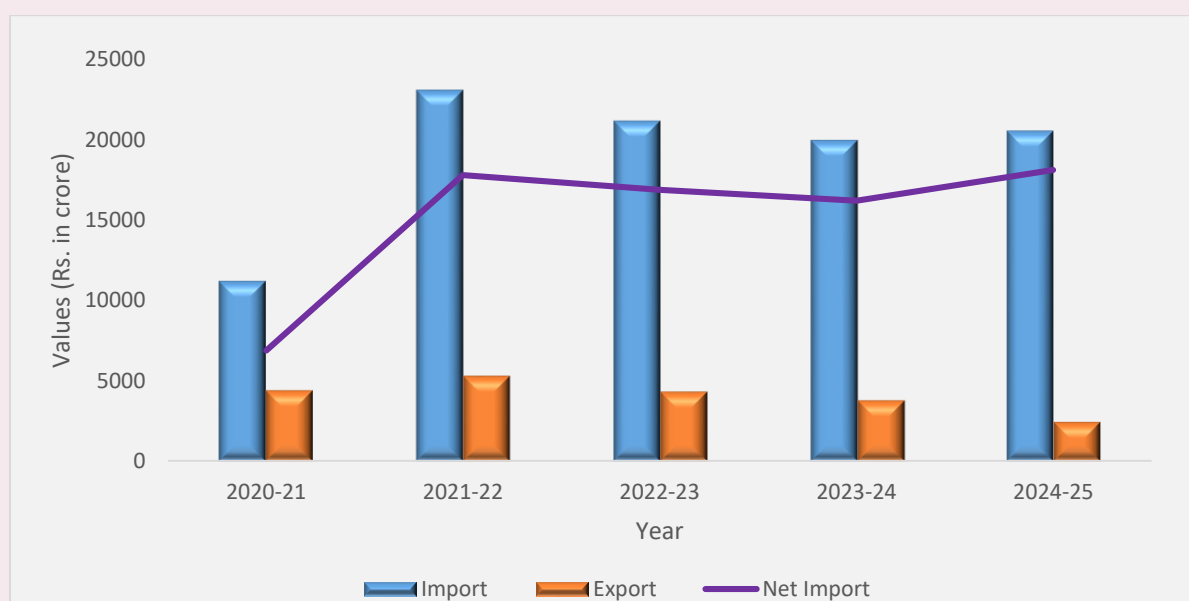
Organic Chemicals

Table 8.6: Value of Import, Value of Export and Net Import (Rs. in Crore)

Year	Import	Export	Net Import
2020-21	11247	4380	6867
2021-22	23082	5283	17799
2022-23	21176	4297	16879
2023-24	19970	3769	16202
2024-25	20559	2441	18118
CAGR (%)	16.3	-13.6	27.4

Source: DCPC

Graph 8.6: Value of Import, Value of Export and Net Import



Source: DCPC

The Organic Chemicals sector saw rising import values and declining exports from 2020–21 to 2024–25, leading to a sharp increase in the trade deficit. This trend indicates growing import dependence and weakening export competitiveness, underscoring the need to enhance domestic production and global market strength.

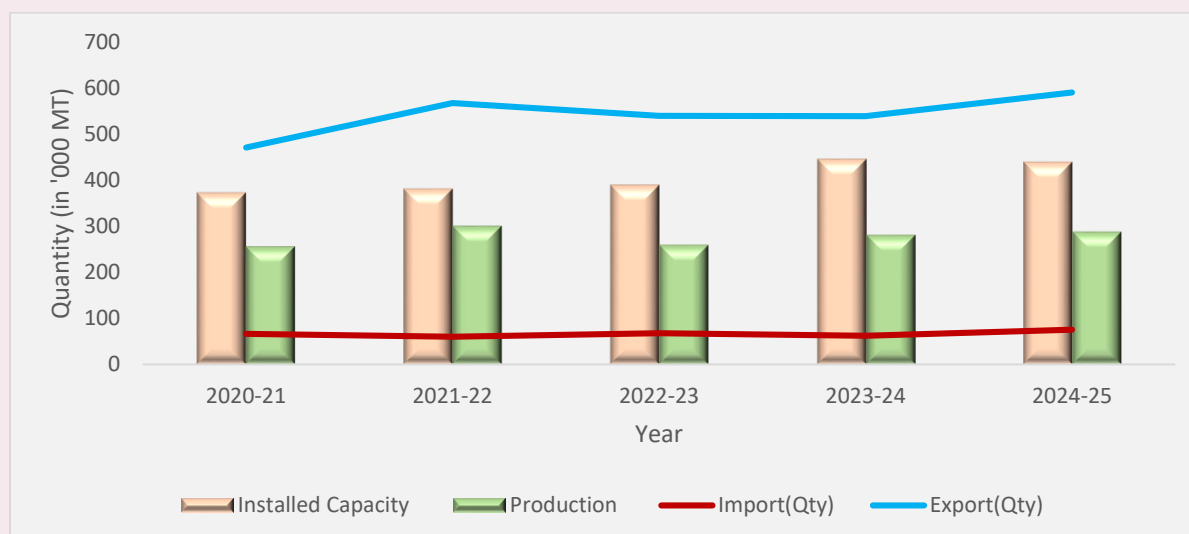
Pesticides

Table 8.7: Installed Capacity, Production, Import & Export (in '000 MT)

Year	Installed Capacity	Production	Import(Qty)	Export(Qty)
2020-21	371	255	66	471
2021-22	380	299	60	568
2022-23	389	258	67	540
2023-24	444	280	62	539
2024-25	438	287	76	591
CAGR (%)	4.2	3.0	3.4	5.8

Source: DCPC

Graph 8.7: Installed Capacity, Production, Import & Export



Source: DCPC

The Pesticides sector recorded steady growth from 2020–21 to 2024–25, with moderate increases in capacity and production. Imports remained largely stable, while exports rose steadily, reflecting strong global demand. Overall, the sector showed balanced progress with improved efficiency and a positive export outlook.

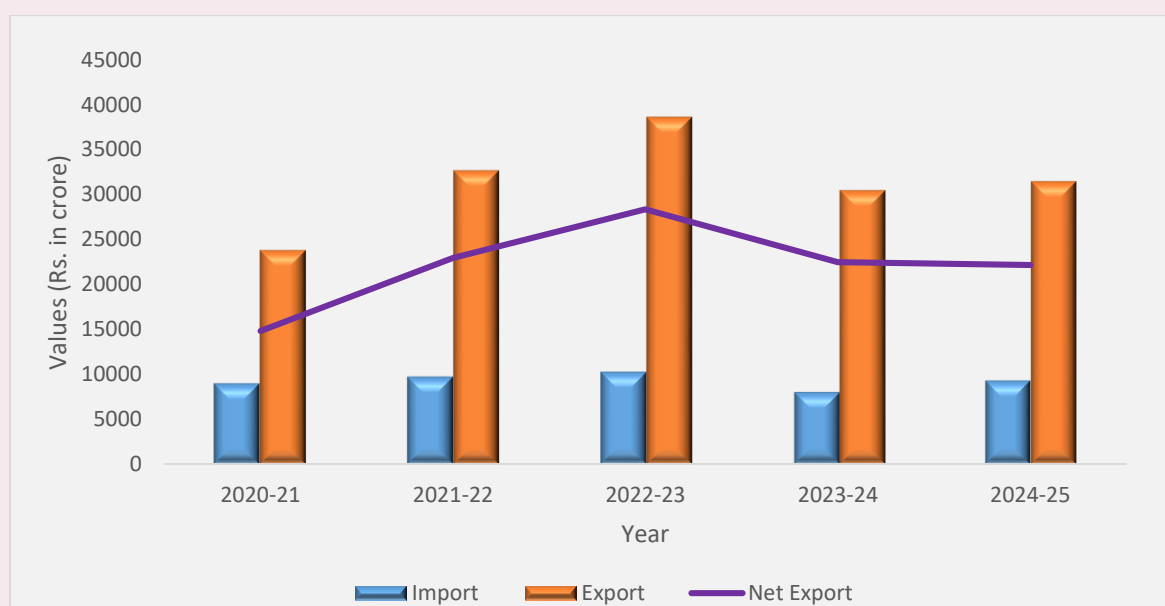
Pesticides

Table 8.8: Value of Import, Value of Export and Net Import (Rs. in Crore)

Year	Import	Export	Net Export
2020-21	8991	23806	14815
2021-22	9726	32664	22938
2022-23	10252	38617	28365
2023-24	8020	30484	22463
2024-25	9303	31454	22151
CAGR (%)	0.9	7.2	10.6

Source: DCPC

Graph 8.8: Value of Import, Value of Export and Net Import



Source: DCPC

The Pesticides sector showed strong export growth from 2020–21 to 2024–25, while imports remained largely stable. This led to a substantial trade surplus, highlighting the sector’s strong global competitiveness and its position as a key export-oriented segment of the chemical industry.

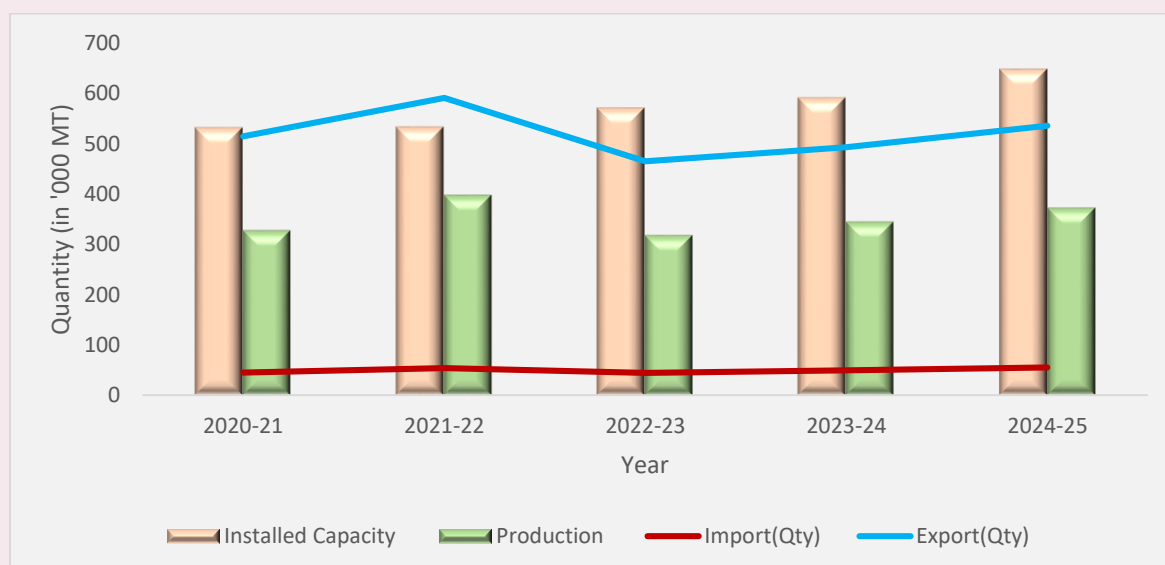
Dyes and Pigments

Table 8.9: Installed Capacity, Production, Import & Export (in '000 MT)

Year	Installed Capacity	Production	Import(Qty)	Export(Qty)
2020-21	532	327	45	514
2021-22	533	398	54	591
2022-23	570	318	45	465
2023-24	590	345	50	493
2024-25	647	372	55	536
CAGR (%)	5.0	3.3	4.9	1.0

Source: DCPC

Graph 8.9: Installed Capacity, Production, Import & Export



Source: DCPC

The Dyes and Pigments sector recorded moderate growth from 2020–21 to 2024–25, with gradual increases in capacity and production. Imports remained stable, while exports showed steady performance, indicating sustained demand and a balanced trade position.

Dyes and Pigments

Table 8.10: Value of Import, Value of Export and Net Export (Rs. in Crore)

Year	Import	Export	Net Export
2020-21	2527	17704	15177
2021-22	3267	23365	20098
2022-23	2904	19844	16940
2023-24	2847	18420	15573
2024-25	3192	20895	17703
CAGR (%)	6.0	4.2	3.9

Source: DCPC

Graph 8.10: Value of Import, Value of Export and Net Export



Source: DCPC

The Dyes and Pigments sector showed stable growth from 2020–21 to 2024–25, with steady exports and moderate imports. It consistently maintained a strong trade surplus, reflecting sustained global demand and a robust export position.

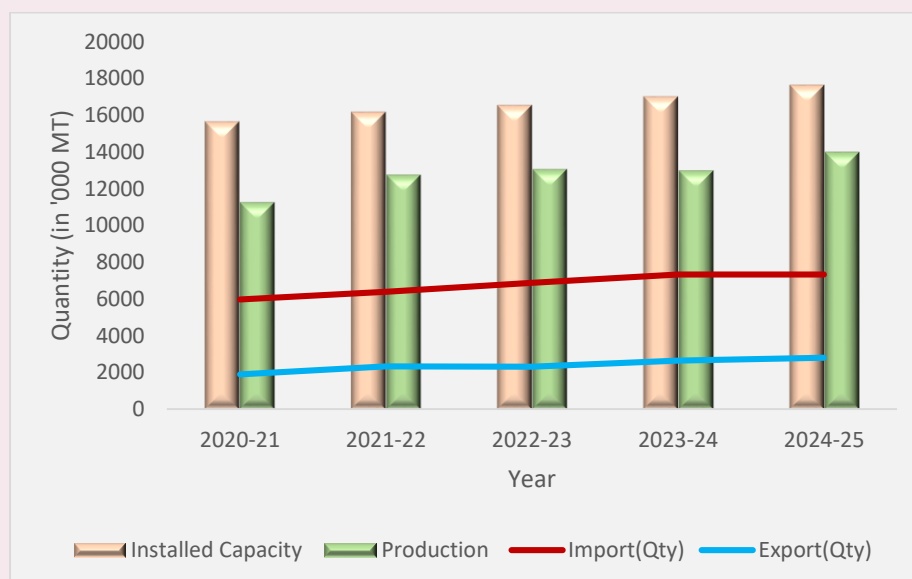
Total Major Chemicals

Table 8.11: Installed Capacity, Production, Import & Export (in '000 MT)

Year	Installed Capacity	Production	Import(Qty)	Export(Qty)
2020-21	15652	11243	5983	1905
2021-22	16178	12743	6385	2339
2022-23	16538	13039	6878	2313
2023-24	17021	12979	7334	2642
2024-25	17649	13983	7334	2807
CAGR (%)	3.0	5.6	5.2	10.2

Source: DCPC

Graph 8.11: Installed Capacity, Production, Import & Export



Source: DCPC

The Total Major Chemicals sector showed steady growth from 2020–21 to 2024–25, with increased capacity and production, moderate import growth, and strong export performance, reflecting improved efficiency and growing global competitiveness.

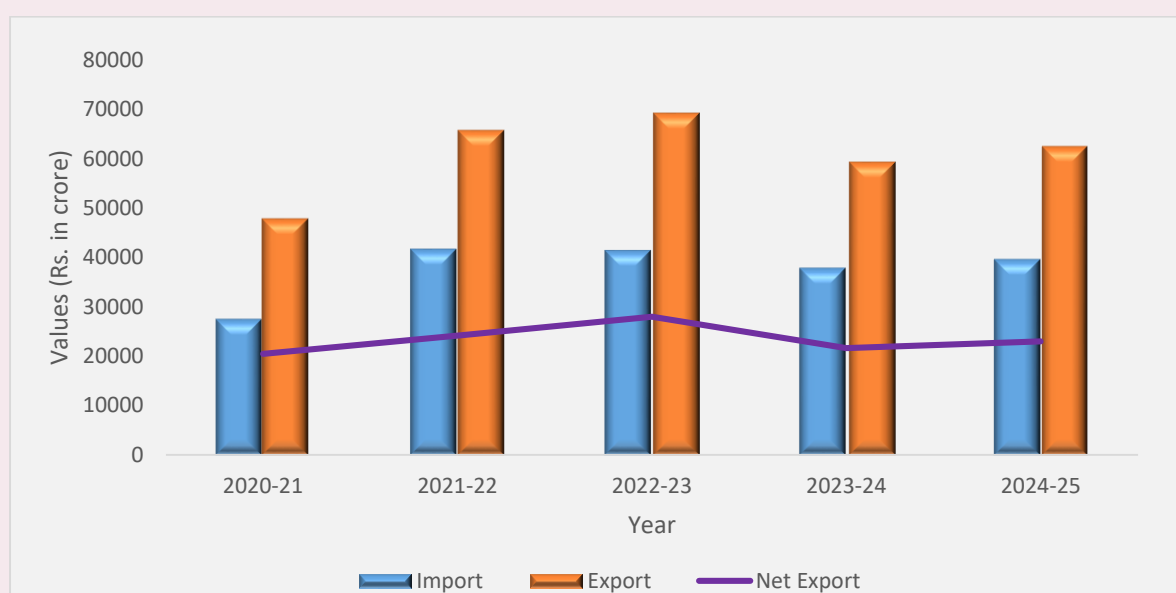
Total Major Chemicals

Table 8.12: Value of Import, Value of Export and Net Export (Rs. in Crore)

Year	Import	Export	Net Export
2020-21	27490	47935	20445
2021-22	41646	65796	24150
2022-23	41368	69330	27962
2023-24	37791	59381	21590
2024-25	39547	62553	23006
CAGR (%)	9.5	6.9	3.0

Source: DCPC

Graph 8.12: Value of Import, Value of Export and Net Export



Source: DCPC

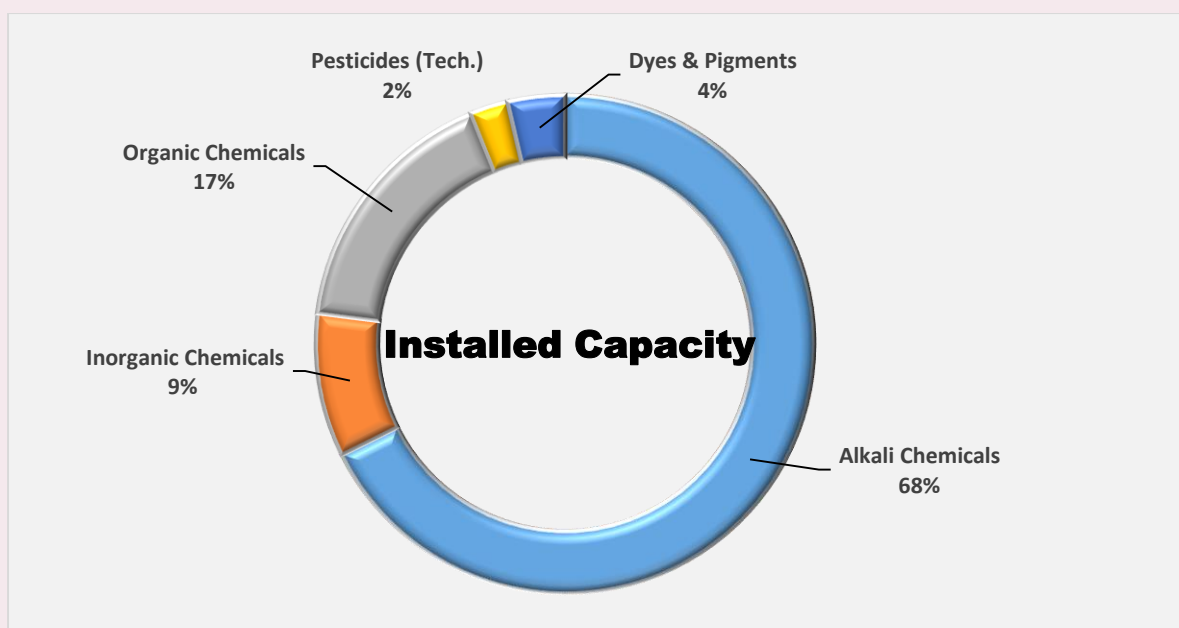
The Total Major Chemicals sector recorded steady growth from 2020–21 to 2024–25, with both imports and exports increasing. Exports consistently outpaced imports, maintaining a strong trade surplus and reflecting sustained global demand and competitiveness. Overall, the sector demonstrated stable performance and a positive contribution to the industry's trade balance.

Table 8.13: Installed capacity of Major Chemical (Group wise) in the FY 2024-25

Group	Installed Capacity (in '000 MT)
Alkali Chemicals	11943
Inorganic Chemicals	1650
Organic Chemicals	2971
Pesticides (Tech.)	438
Dyes & Pigments	647

Source: DCPC

Graph 8.13: Share of different groups of Major Chemicals in Installed Capacity in the FY 2024-25



Source: DCPC

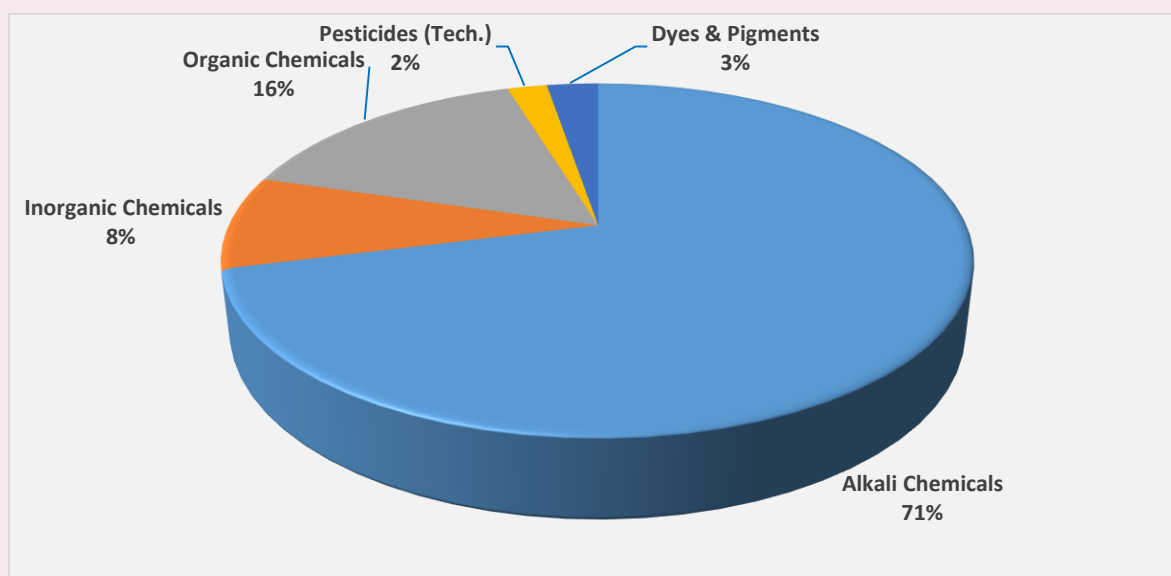
The charts above show the distribution of installed capacity across major chemical groups for FY 2024-25. Alkali Chemicals hold the largest share, accounting for 68% of the total installed capacity, followed by Organic Chemicals at 17%, Inorganic Chemicals at 9%, Dyes & Pigments 4% and Pesticides 2%.

Table 8.14: Production of Major Chemical (Group wise) in the FY 2024-25

Group	Production (in '000 MT)
Alkali Chemicals	9938
Inorganic Chemicals	1197
Organic Chemicals	2189
Pesticides (Tech.)	287
Dyes & Pigments	372

Source: DCPC

Graph 8.14: Share of different groups of Major Chemicals in production in the FY 2024-25



Source: DCPC

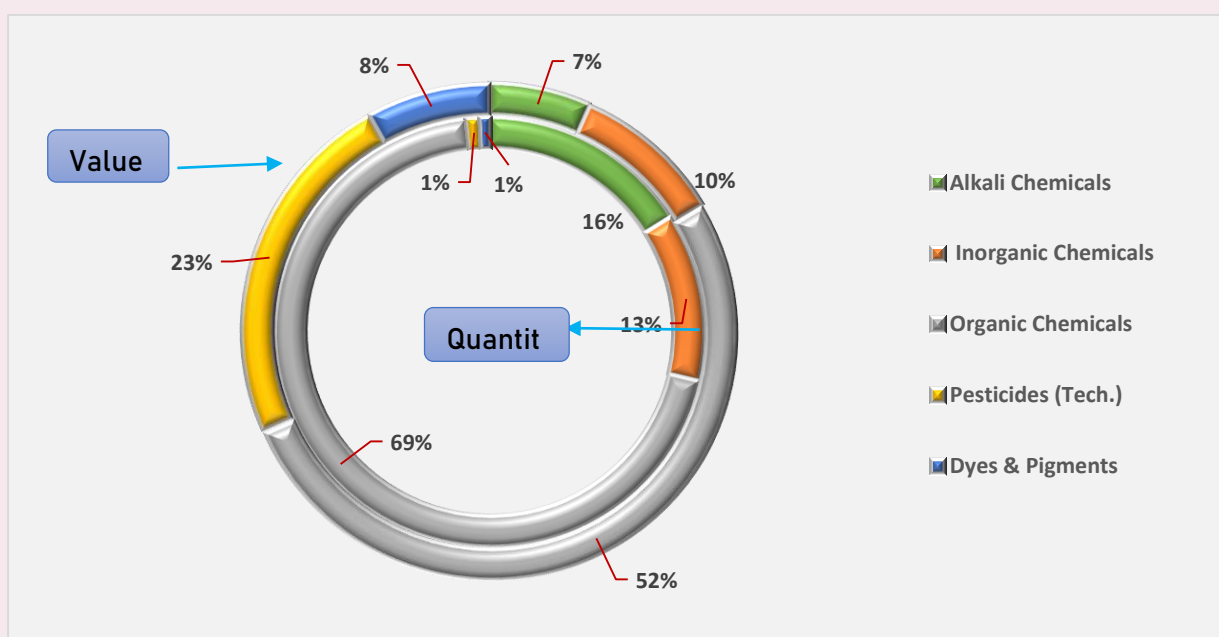
The charts show the production figures for major chemical groups in FY 2024-25. Alkali Chemicals lead with the largest share, accounting for 71% of total production. Organic Chemicals follow with 16%, while Inorganic Chemicals contribute 8%. Dyes & Pigments make up 3%, and Pesticides account for 2% of the production.

Table 8.15: Import quantity and value of Major Chemical (Group wise) in the FY 2024-25

Group	Qty (in 000'MT)	Values (Rs. Crore)
Alkali Chemicals	1176	2617
Inorganic Chemicals	928	3876
Organic Chemicals	5100	20559
Pesticides (Tech.)	76	9303
Dyes & Pigments	55	3192

Source: DCPC

Graph 8.15: Share of different Groups of Major Chemicals in Import quantity and value in the FY 2024-25



Source: DCPC

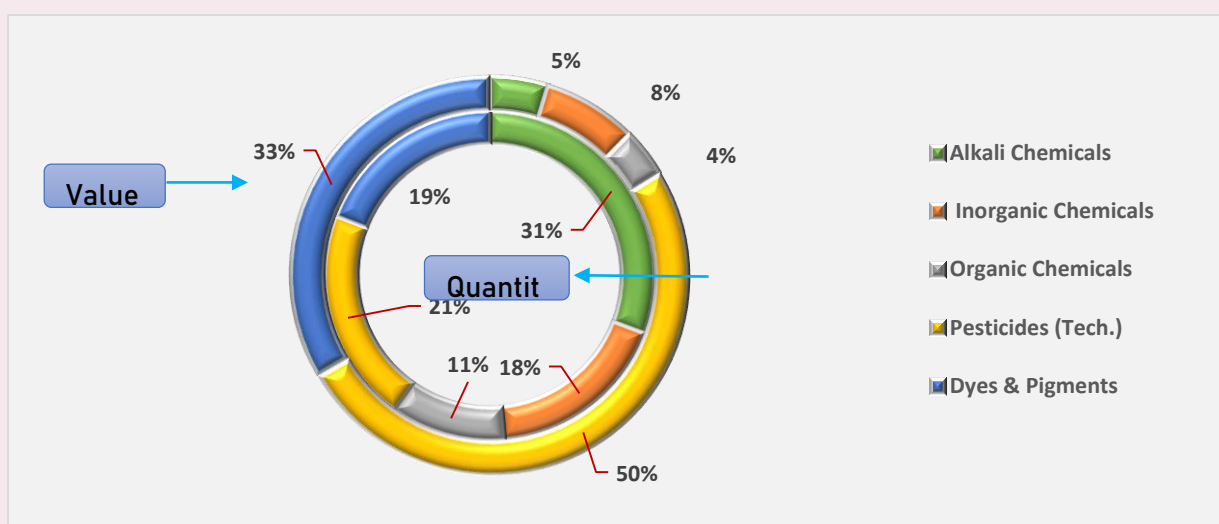
The above graph illustrates bivariate analysis of two key attributes, Import Quantity & Value, for the major chemical groups for the FY 2024–25. Organics Chemicals quantity import accounts for 69% of total imports and value represents 52% of total value. Following, Alkali Chemicals quantity import amounts to 16% and value represents 7% of total value. As we can see from the graph, Pesticides quantity import accounts for only 1% of total imports but its value percentage from total is 23%.

Table 8.16: Export quantity and value of Major Chemical (Group wise) in the FY 2024-25

Group	Qty (in 000'MT)	Values (Rs. Crore)
Alkali Chemicals	863	2939
Inorganic Chemicals	499	4825
Organic Chemicals	318	2441
Pesticides (Tech.)	591	31454
Dyes & Pigments	536	20895

Source: DCPC

Graph 8.16: Share of different Groups of Major Chemicals in Export quantity and value in the FY 2024-25



Source: DCPC

The graph presented above depicts a bivariate analysis of two critical metrics, Export Quantity and Value, for major chemical groups in the FY 2024–25. Alkali Chemicals export quantity comprises 31% of the total exports, while its value represents an only 5% of the total export value. In the case of Inorganic Chemicals, the exported quantity accounts for 18%, contributing to 8% of the total value. Remarkably, Pesticides' import quantity constitutes 21% of the total exports, but its value as a percentage of the total stands significantly higher at 50%, as visually depicted in the graph.

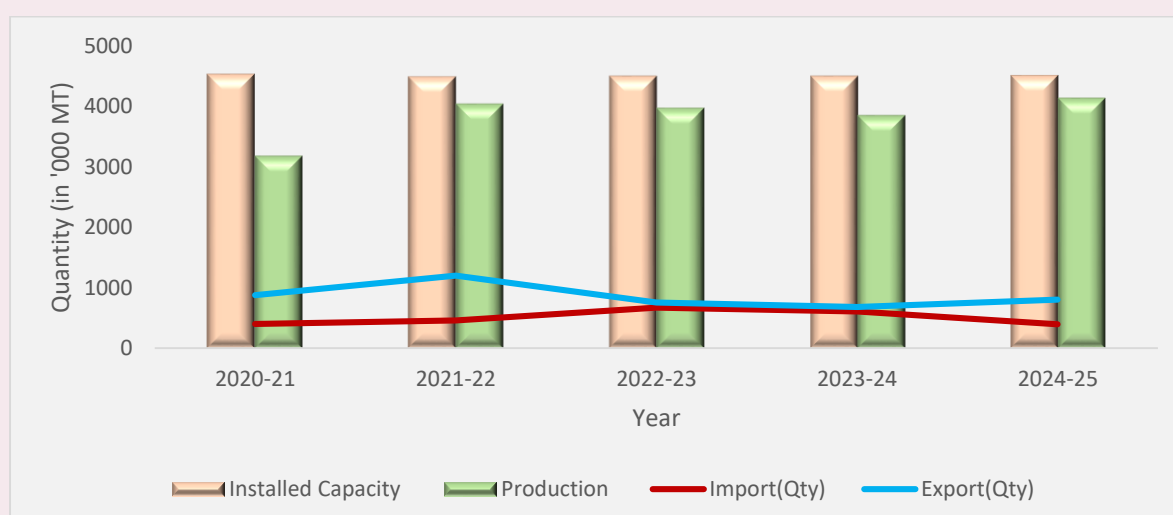
Synthetic Fibre

Table 8.17: Installed Capacity, Production, Import & Export (in '000 MT)

Year	Installed Capacity	Production	Import(Qty)	Export(Qty)
2020-21	4529	3185	403	879
2021-22	4483	4040	460	1202
2022-23	4496	3973	670	759
2023-24	4498	3853	611	683
2024-25	4504	4137	398	806
CAGR (%)	-0.1	6.8	-0.3	-2.1

Source: DCPC

Graph 8.17: Installed Capacity, Production, Import & Export



Source: DCPC

The Synthetic Fibre sector showed stable capacity but steady growth in production from 2020–21 to 2024–25, indicating improved efficiency and utilization. Imports fluctuated slightly but remained largely stable, while exports declined marginally over the period. Overall, the sector demonstrated consistent production growth despite stagnant capacity, along with balanced trade activity and reduced dependence on imports.

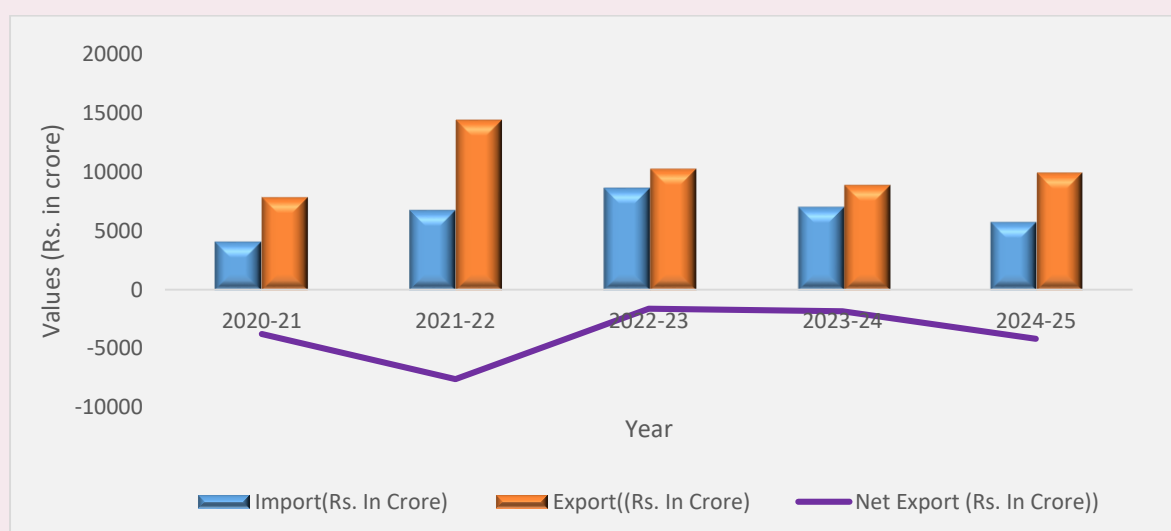
Synthetic Fibre

Table 8.18: Value of Import, Value of Export and Net Import (Rs. in Crore)

Year	Import	Export	Net Export
2020-21	4107	7870	-3763
2021-22	6785	14389	-7604
2022-23	8647	10261	-1614
2023-24	7049	8896	-1847
2024-25	5761	9939	-4178
CAGR (%)	8.8	6.0	2.6

Source: DCPC

Graph 8.18: Value of Import, Value of Export and Net Import



Source: DCPC

The Synthetic Fibre sector showed moderate growth in trade values from 2020–21 to 2024–25, with both imports and exports increasing over the period. Although exports consistently exceeded imports, the trade surplus narrowed in recent years due to fluctuating export performance and moderate import growth. Overall, the sector maintained a positive trade balance, reflecting stable global demand and competitiveness.

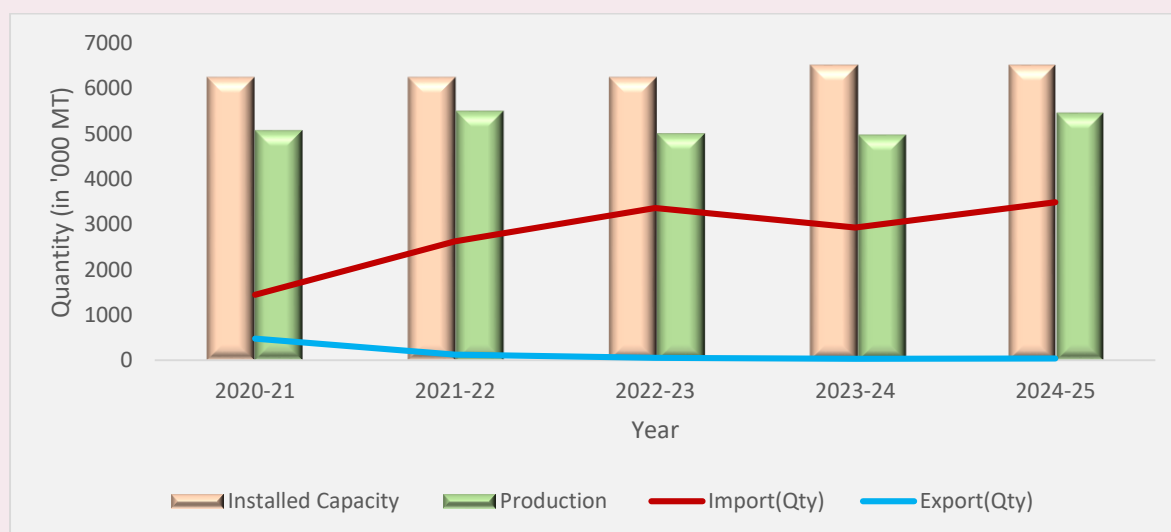
Fibre Intermediate

Table 8.19: Installed Capacity, Production, Import & Export (in '000 MT)

Year	Installed Capacity	Production	Import(Qty)	Export(Qty)
2020-21	6228	5059	1441	475
2021-22	6228	5482	2627	128
2022-23	6228	4988	3356	56
2023-24	6500	4956	2929	36
2024-25	6500	5440	3487	37
CAGR (%)	1.1	1.8	24.7	-47.2

Source: DCPC

Graph 8.19: Installed Capacity, Production, Import & Export



Source: DCPC

The Fibre Intermediates sector showed marginal growth in capacity and production from 2020–21 to 2024–25, indicating stable domestic output. However, imports rose sharply, reflecting increased dependence on foreign supplies, while exports declined significantly over the same period. Overall, the sector experienced limited production growth but a widening trade gap due to rising imports and falling exports.

Fibre Intermediate

Table 8.20: Value of Import, Value of Export and Net Import (Rs. in Crore)

Year	Import	Export	Net Import
2020-21	6495	1629	4866
2021-22	17133	865	16267
2022-23	21762	608	21154
2023-24	17716	382	17334
2024-25	21920	434	21485
CAGR (%)	35.5	-28.1	45.0

Source: DCPC

Graph 8.20: Value of Import, Value of Export and Net Import



Source: DCPC

The Fibre Intermediates sector showed a sharp increase in import values over the period, indicating growing dependence on external sources to meet domestic demand. Conversely, exports declined consistently, reflecting reduced global competitiveness. As a result, the trade deficit widened significantly, highlighting the sector's increasing reliance on imports and weakening export performance.

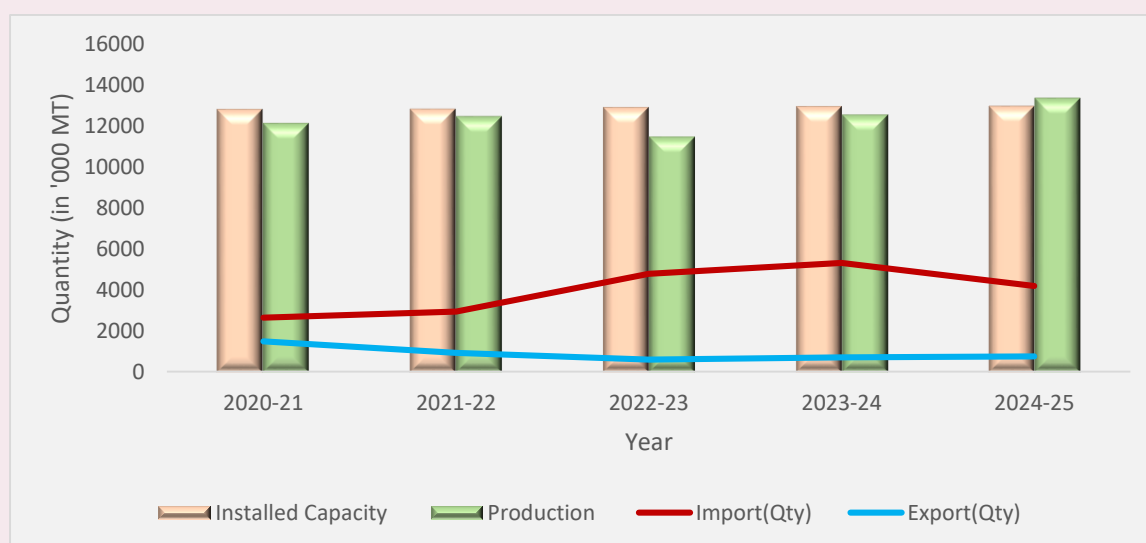
Polymers

Table 8.21: Installed Capacity, Production, Import & Export (in '000 MT)

Year	Installed Capacity	Production	Import(Qty)	Export(Qty)
2020-21	12799	12144	2641	1489
2021-22	12820	12471	2941	921
2022-23	12894	11487	4789	586
2023-24	12950	12548	5313	705
2024-25	12952	13367	4191	743
CAGR (%)	0.3	2.4	12.2	-15.9

Source: DCPC

Graph 8.21: Installed Capacity, Production, Import & Export



Source: DCPC

The Polymers sector showed stable installed capacity with moderate growth in production, indicating better utilization of existing facilities. Imports increased notably, reflecting rising domestic demand and partial reliance on foreign sources, while exports declined over the period. Overall, the sector demonstrated steady production growth but a widening trade gap due to higher imports and reduced export volumes.

Polymers

Table 8.22: Value of Import, Value of Export and Net Import (Rs. in Crore)

Year	Import	Export	Net Import
2020-21	21423	9681	11742
2021-22	32672	9425	23247
2022-23	49567	6225	43341
2023-24	47572	6898	40673
2024-25	39322	7047	32275
CAGR (%)	16.4	-7.6	28.8

Source: DCPC

Graph 8.22: Value of Import, Value of Export and Net Import



Source: DCPC

The Polymers sector recorded a significant rise in import values over the period, indicating strong domestic demand and increased import dependence. In contrast, export values declined, reflecting reduced competitiveness in global markets. Consequently, the trade deficit widened sharply, highlighting the sector's growing reliance on imports to meet domestic requirements.

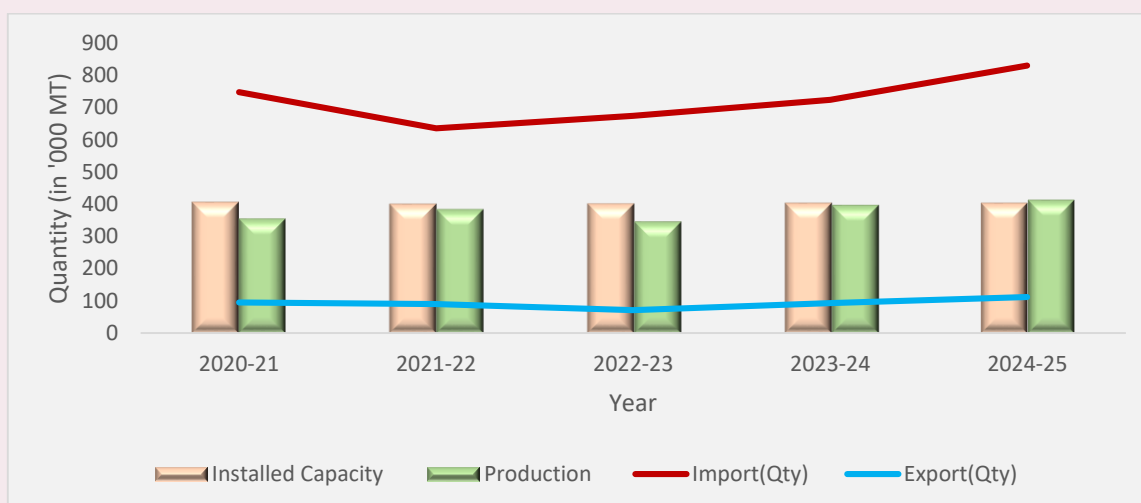
Synthetic Rubber

Table 8.23: Installed Capacity, Production, Import & Export (in '000 MT)

Year	Installed Capacity	Production	Import(Qty)	Export(Qty)
2020-21	406	353	747	95
2021-22	400	383	635	90
2022-23	402	345	673	70
2023-24	403	395	724	92
2024-25	403	411	829	111
CAGR (%)	-0.1	3.9	2.6	4.0

Source: DCPC

Graph 8.23: Installed Capacity, Production, Import & Export



Source: DCPC

The Synthetic Rubber sector showed stable installed capacity with moderate growth in production, reflecting improved operational efficiency. Imports increased gradually, indicating sustained domestic demand and partial dependence on foreign supplies, while exports also rose modestly, suggesting steady overseas demand. Overall, the sector exhibited balanced growth with stable capacity, rising output, and moderate trade activity.

Synthetic Rubber

Table 8.24: Value of Import, Value of Export and Net Import (Rs. in Crore)

Year	Import	Export	Net Import
2020-21	7189	794	6394
2021-22	11441	1118	10323
2022-23	13206	975	12231
2023-24	11121	1039	10081
2024-25	13192	1327	11865
CAGR (%)	16.4	13.7	16.7

Source: DCPC

Graph 8.24: Value of Import, Value of Export and Net Import



Source: DCPC

The Synthetic Rubber sector recorded a steady rise in import values over the period, reflecting strong domestic demand and continued reliance on imports. Exports also increased moderately but at a slower pace, resulting in a persistent trade deficit. Overall, the sector showed growth in trade activity but remained largely import-dependent despite some improvement in export performance.

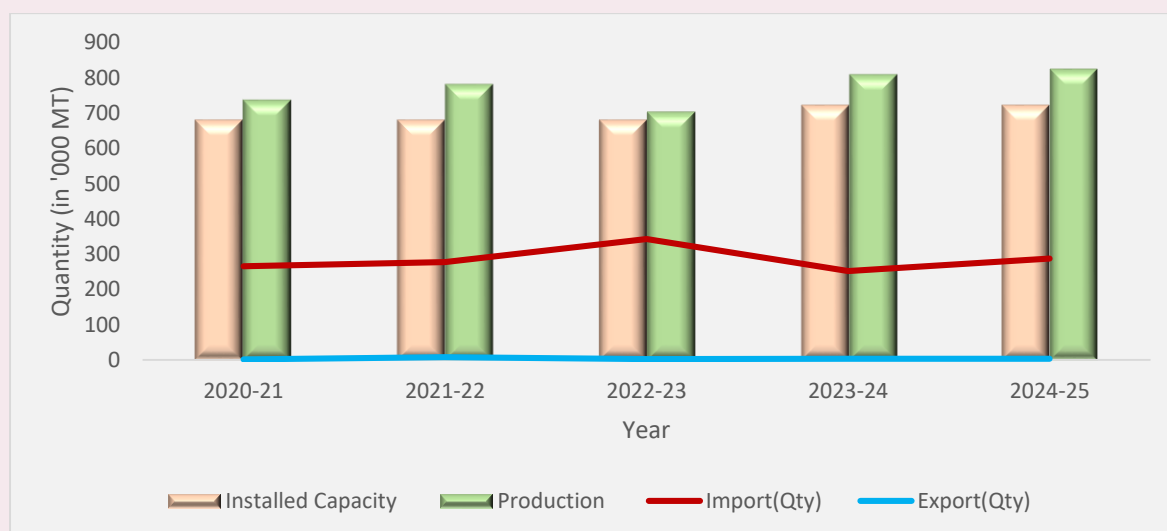
Synthetic Detergent Intermediates

Table 8.25: Installed Capacity, Production, Import & Export (in '000 MT)

Year	Installed Capacity	Production	Import(Qty)	Export(Qty)
2020-21	680	736	265	2
2021-22	680	780	278	7
2022-23	680	703	343	3
2023-24	722	808	252	4
2024-25	722	823	287	3
CAGR (%)	1.5	2.8	2.0	13.9

Source: DCPC

Graph 8.25: Installed Capacity, Production, Import & Export



Source: DCPC

The Synthetic Detergent Intermediates sector showed modest growth in both installed capacity and production, indicating gradual expansion and improved efficiency. Imports fluctuated slightly but remained significant, reflecting continued reliance on external sources, while exports stayed minimal throughout the period. Overall, the sector demonstrated steady domestic production growth with limited export activity and moderate import dependence.

Synthetic Detergent Intermediates

Table 8.26: Value of Import, Value of Export and Net Import (Rs. in Crore)

Year	Import	Export	Net Import
2020-21	2163	19	2143
2021-22	3362	87	3275
2022-23	5236	31	5204
2023-24	3389	57	3332
2024-25	3684	50	3634
CAGR (%)	14.2	26.5	14.1

Source: DCPC

Graph 8.26: Value of Import, Value of Export and Net Import



Source: DCPC

The Synthetic Detergent Intermediates sector recorded a steady rise in import values, indicating strong domestic demand and dependence on foreign supplies. Exports, though growing, remained very limited compared to imports, resulting in a persistent trade deficit. Overall, the sector showed expanding trade activity but continued to rely heavily on imports with minimal export contribution.

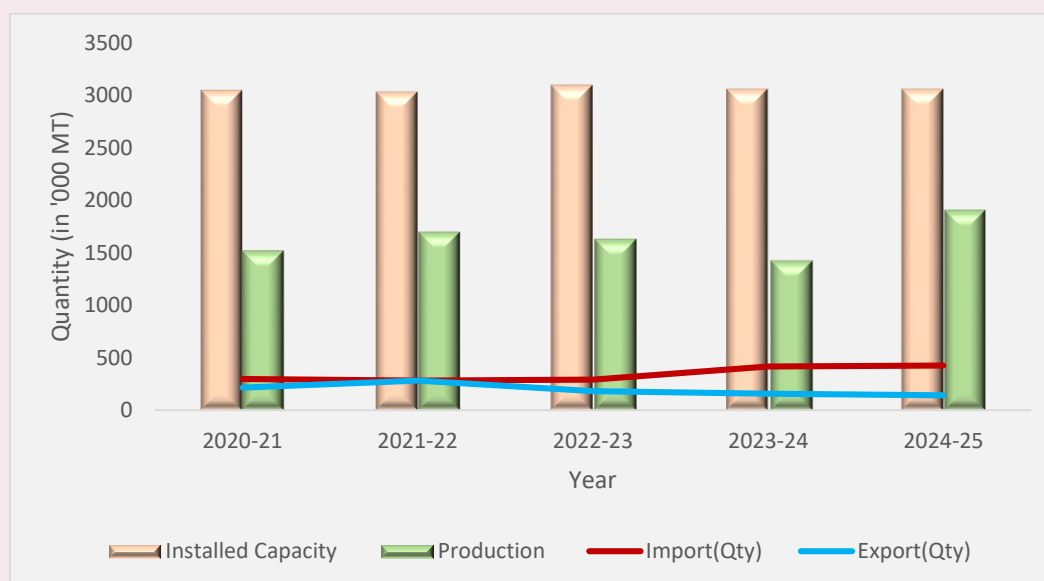
Performance Plastics

Table 8.27: Installed Capacity, Production, Import & Export (in '000 MT)

Year	Installed Capacity	Production	Import(Qty)	Export(Qty)
2020-21	3046	1520	299	217
2021-22	3032	1698	283	284
2022-23	3096	1628	292	182
2023-24	3060	1425	418	157
2024-25	3060	1904	427	142
CAGR (%)	0.1	5.8	9.3	-10.1

Source: DCPC

Graph 8.27: Installed Capacity, Production, Import & Export



Source: DCPC

The Performance Plastics sector showed stable installed capacity with moderate growth in production, reflecting improved utilization and efficiency. Imports increased steadily, indicating rising domestic demand and partial reliance on external sources, while exports declined over the

period, suggesting reduced global competitiveness. Overall, the sector demonstrated growth in output but a weakening export trend alongside increasing import dependence.

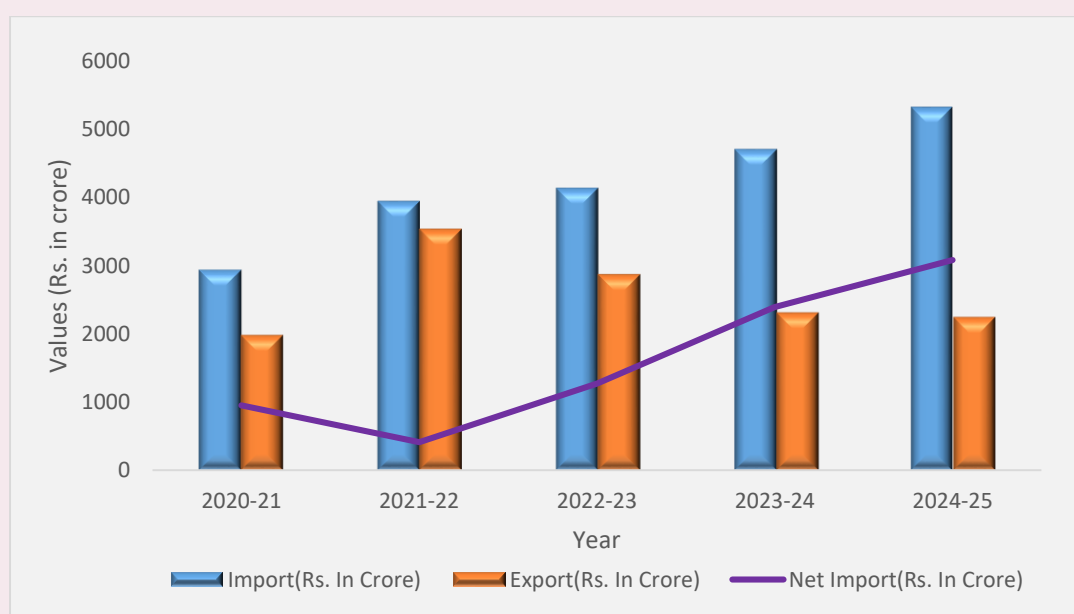
Performance Plastics

Table 8.28: Value of Import, Value of Export and Net Import (Rs. in Crore)

Year	Import	Export	Net Import
2020-21	2938	1987	951
2021-22	3949	3537	412
2022-23	4143	2876	1268
2023-24	4708	2314	2395
2024-25	5328	2247	3081
CAGR (%)	16.0	3.1	34.2

Source: DCPC

Graph 8.28: Value of Import, Value of Export and Net Import



Source: DCPC

The Performance Plastics sector experienced a steady rise in import values over the period, reflecting strong domestic demand and growing reliance on imports. Export values showed only marginal growth, leading to a widening trade deficit in recent years. Overall, while production and demand expanded, the sector's trade performance weakened due to slower export growth and increasing import dependence.

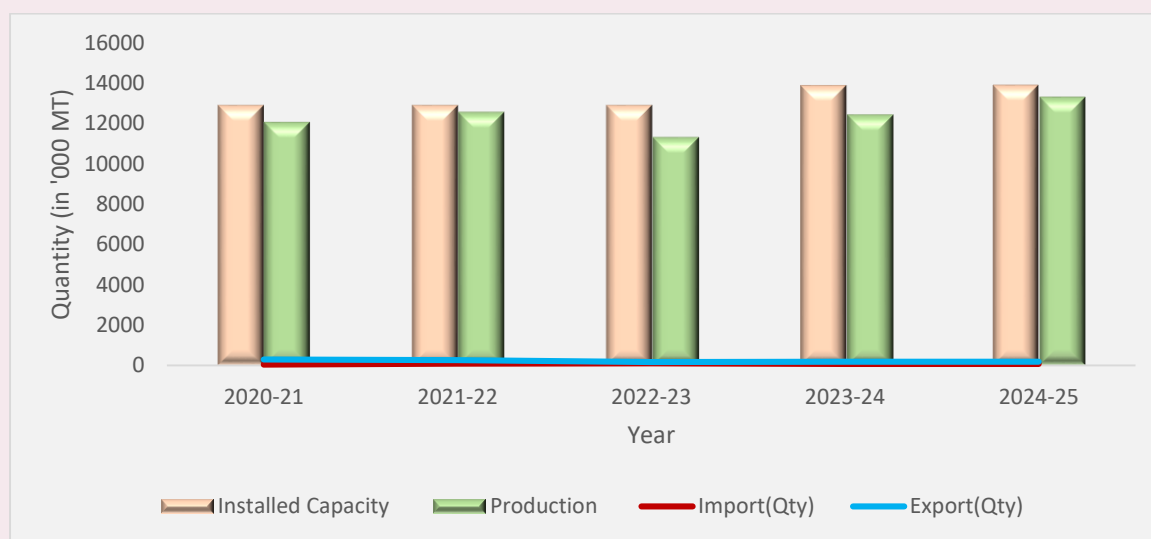
Olefins

Table 8.29: Installed Capacity, Production, Import & Export (in '000 MT)

Year	Installed Capacity	Production	Import(Qty)	Export(Qty)
2020-21	12890	12039	44	285
2021-22	12890	12527	92	256
2022-23	12890	11296	94	162
2023-24	13880	12401	68	189
2024-25	13904	13284	63	188
CAGR (%)	1.9	2.5	9.5	-9.8

Source: DCPC

Graph 8.29: Installed Capacity, Production, Import & Export



Source: DCPC

The Olefins sector showed modest growth in both installed capacity and production, indicating gradual expansion and improved utilization of facilities. Imports remained low with slight fluctuations, reflecting sufficient domestic availability, while exports declined over the period, suggesting reduced overseas demand or shifting trade dynamics. Overall, the sector maintained steady domestic growth with limited import reliance but weakening export performance.

Olefins

Table 8.30: Value of Import, Value of Export and Net Import (Rs. in Crore)

Year	Import	Export	Net Export
2020-21	340	1361	-1021
2021-22	762	1739	-977
2022-23	1028	1173	-144
2023-24	573	1276	-702
2024-25	574	1923	-1349
CAGR (%)	14.0	9.0	7.2

Source: DCPC

Graph 8.30: Value of Import, Value of Export and Net Import



Source: DCPC

The Olefins sector recorded moderate growth in both import and export values over the period, with exports consistently exceeding imports, reflecting a stable trade surplus. Although trade values fluctuated, the sector maintained strong export performance supported by steady global demand. Overall, it demonstrated balanced growth with limited import dependence and sustained competitiveness in international markets.

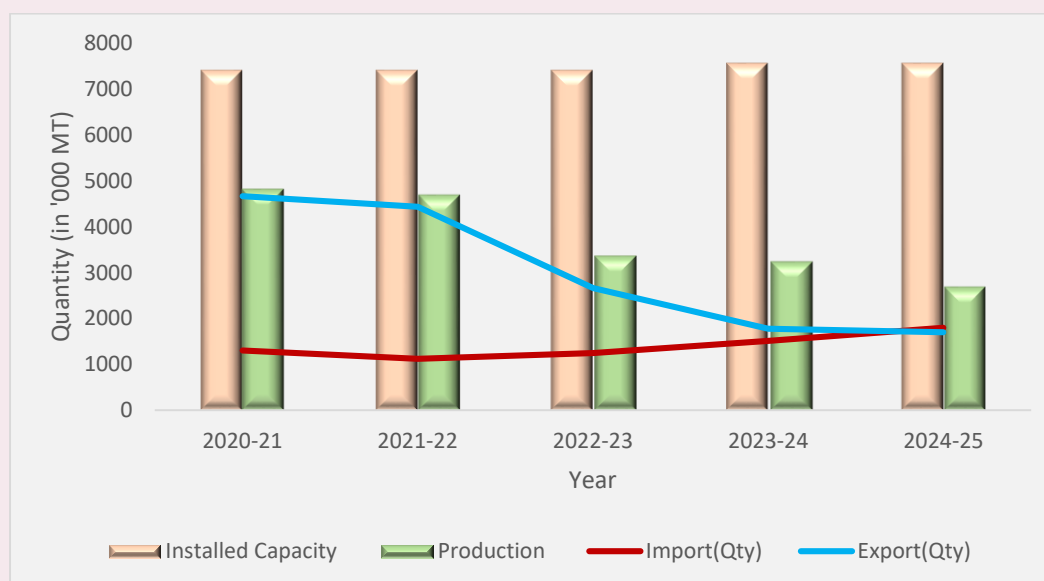
Aromatics

Table 8.31: Installed Capacity, Production, Import & Export (in '000 MT)

Year	Installed Capacity	Production	Import(Qty)	Export(Qty)
2020-21	7404	4805	1300	4661
2021-22	7404	4677	1124	4435
2022-23	7404	3362	1246	2660
2023-24	7560	3237	1509	1775
2024-25	7561	2696	1795	1697
CAGR (%)	0.5	-13.5	8.4	-22.3

Source: DCPC

Graph 8.31: Installed Capacity, Production, Import & Export



Source: DCPC

The Aromatics sector showed stable installed capacity but a sharp decline in production over the period, indicating underutilization of capacity and reduced domestic output. Imports increased steadily, reflecting higher dependence on external sources, while exports declined significantly, suggesting weakening global competitiveness.

Aromatics

Table 8.32: Value of Import, Value of Export and Net Import (Rs. in Crore)

Year	Import	Export	Net Export
2020-21	5421	18547	-13126
2021-22	7425	29980	-22555
2022-23	11237	21327	-10090
2023-24	13274	13466	-192
2024-25	14863	13813	1050
CAGR (%)	28.7	-7.1	NA

Source: DCPC

Graph 8.32: Value of Import, Value of Export and Net Import



Source: DCPC

The Aromatics sector experienced a sharp rise in import values alongside a notable decline in exports over the period, leading to a gradual erosion of its strong trade surplus. While exports remained higher than imports in the initial years, the gap narrowed significantly, eventually turning into a small trade deficit.

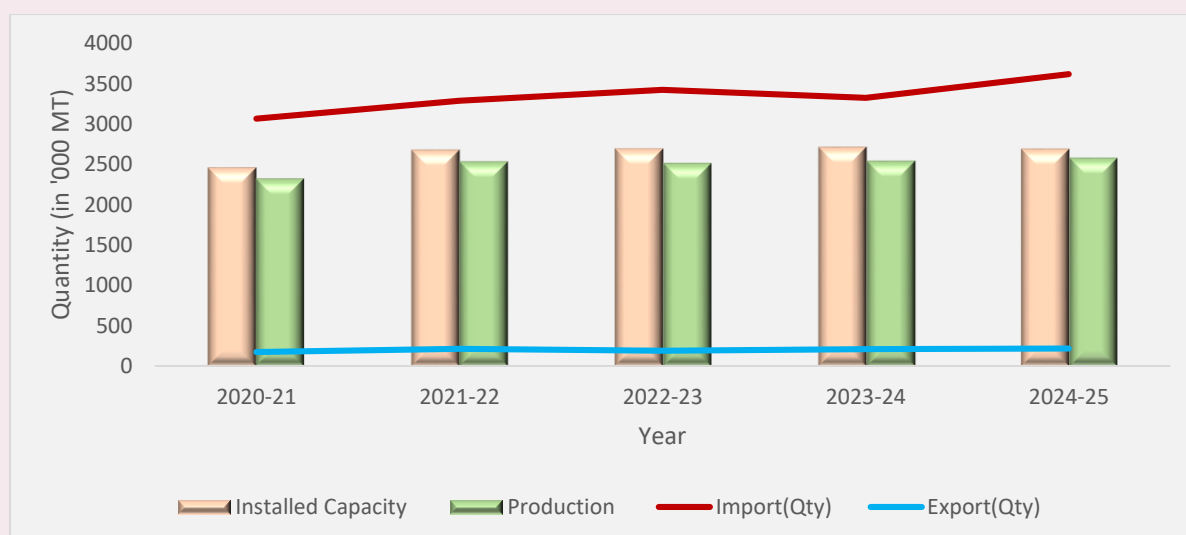
Other Petrochemicals

Table 8.33: Installed Capacity, Production, Import & Export (in '000 MT)

Year	Installed Capacity	Production	Import (Qty)	Export (Qty)
2020-21	2458	2318	3069	171
2021-22	2677	2531	3291	212
2022-23	2691	2511	3426	189
2023-24	2714	2538	3327	209
2024-25	2689	2572	3621	216
CAGR (%)	2.3	2.6	4.2	6.0

Source: DCPC

Graph 8.33: Installed Capacity, Production, Import & Export



Source: DCPC

The Other Petrochemicals sector showed steady growth in both installed capacity and production, reflecting gradual expansion and improved operational efficiency. Imports increased moderately, indicating rising domestic demand, while exports also grew, though at a slower pace. Overall, the sector demonstrated balanced growth with stable production, moderate import dependence, and a consistent but limited export performance.

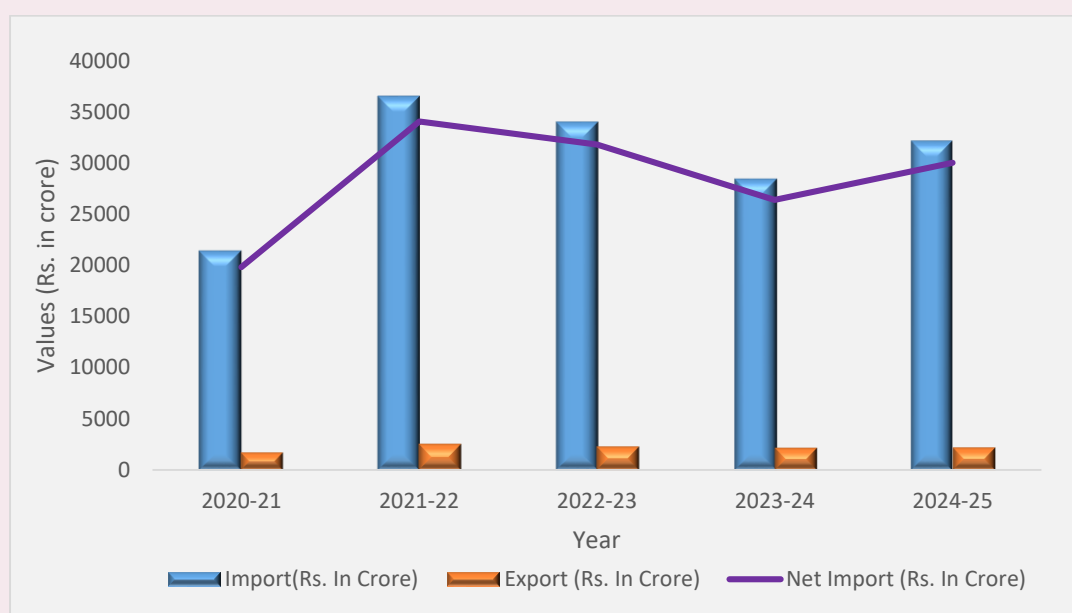
Other Petrochemicals

Table 8.34: Value of Import, Value of Export and Net Import (Rs. in Crore)

Year	Import	Export	Net Import
2020-21	21521	1691	19829
2021-22	36564	2498	34066
2022-23	34043	2242	31802
2023-24	28522	2129	26393
2024-25	32194	2159	30035
CAGR (%)	10.6	6.3	10.9

Source: DCPC

Graph 8.34: Value of Import, Value of Export and Net Import



Source: DCPC

The Other Petrochemicals sector recorded a steady rise in import values over the period, indicating strong domestic demand and continued dependence on foreign supplies. Exports grew modestly but remained significantly lower than imports, resulting in a persistent and widening trade deficit.

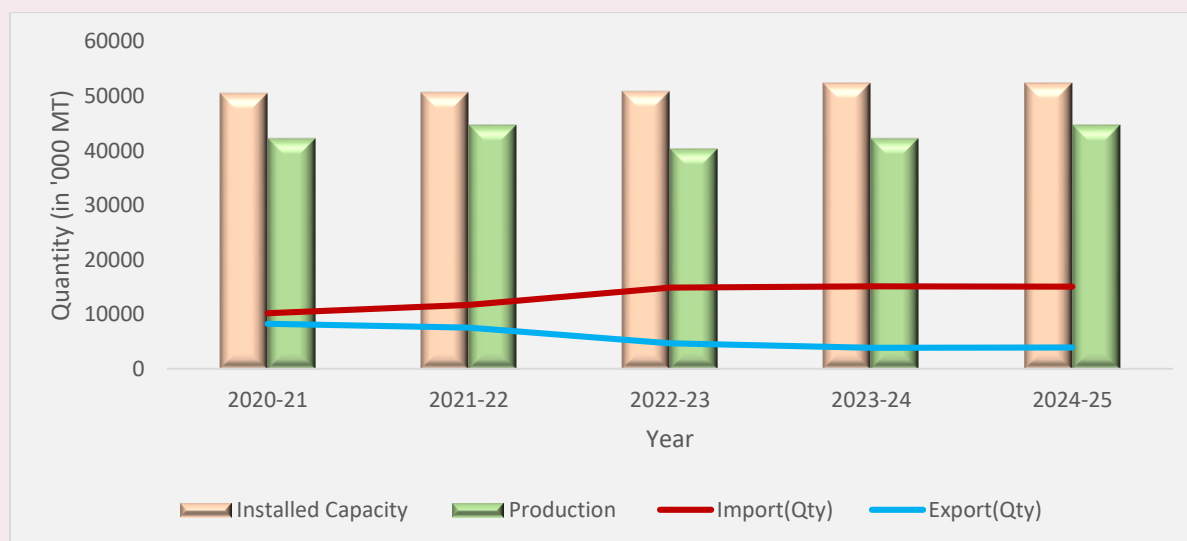
Total Major Petrochemicals

Table 8.35: Installed Capacity, Production, Import & Export (in '000 MT)

Year	Installed Capacity	Production	Import(Qty)	Export(Qty)
2020-21	50439	42159	10211	8274
2021-22	50612	44589	11732	7535
2022-23	50779	40292	14890	4667
2023-24	52287	42161	15150	3851
2024-25	52293	44634	15099	3945
CAGR (%)	0.9	1.4	10.3	-16.9

Source: DCPC

Graph 8.35: Installed Capacity, Production, Import & Export



Source: DCPC

The Total Major Petrochemicals sector showed marginal growth in both installed capacity and production, reflecting stable but slow expansion. Imports increased significantly, indicating strong domestic demand and growing dependence on external sources, while exports declined sharply, suggesting reduced global competitiveness. Overall, the sector demonstrated steady domestic output but a widening trade gap driven by rising imports and falling exports.

Total Major Petrochemicals

Table 8.36: Value of Import, Value of Export and Net Import (Rs. in Crore)

Year	Import	Export	Net Import
2020-21	71596	43581	28015
2021-22	120093	63639	56455
2022-23	148869	45717	103152
2023-24	133924	36456	97468
2024-25	136838	38940	97898
CAGR (%)	17.6	-2.8	36.7

Source: DCPC

Graph 8.36: Value of Import, Value of Export and Net Import



Source: DCPC

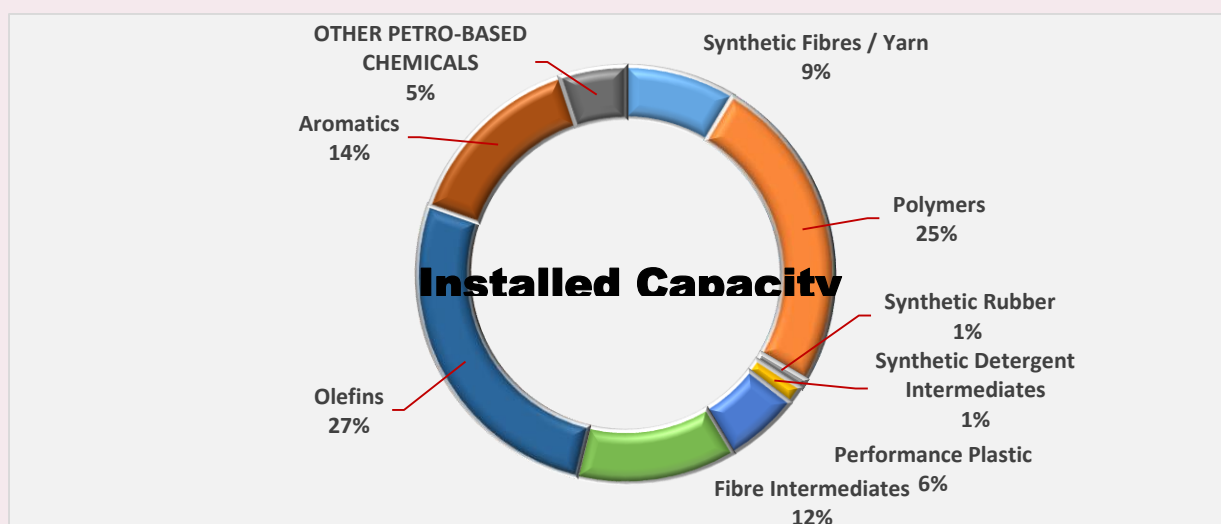
The Total Major Petrochemicals sector experienced a sharp rise in import values over the period, reflecting strong domestic demand and increasing reliance on imports. In contrast, exports declined, leading to a significant widening of the trade deficit. Overall, the sector showed expanding trade activity but deteriorating trade balance, highlighting growing import dependence and weakening export performance.

Table 8.37: Installed capacity of different groups of Major Petrochemicals in the FY 2024-25

Groups	Installed Capacity (In 000'MT)
Synthetic Fibres / Yarn	4504
Polymers	12952
Synthetic Rubber	403
Synthetic Detergent Intermediates	722
Performance Plastic	3060
Fibre Intermediates	6500
Olefins	13904
Aromatics	7561
Other petro-based chemicals	2689

Source: DCPC

Graph 8.37: Share of different groups of Major Petrochemicals in installed capacity during 2024-25



Source: DCPC

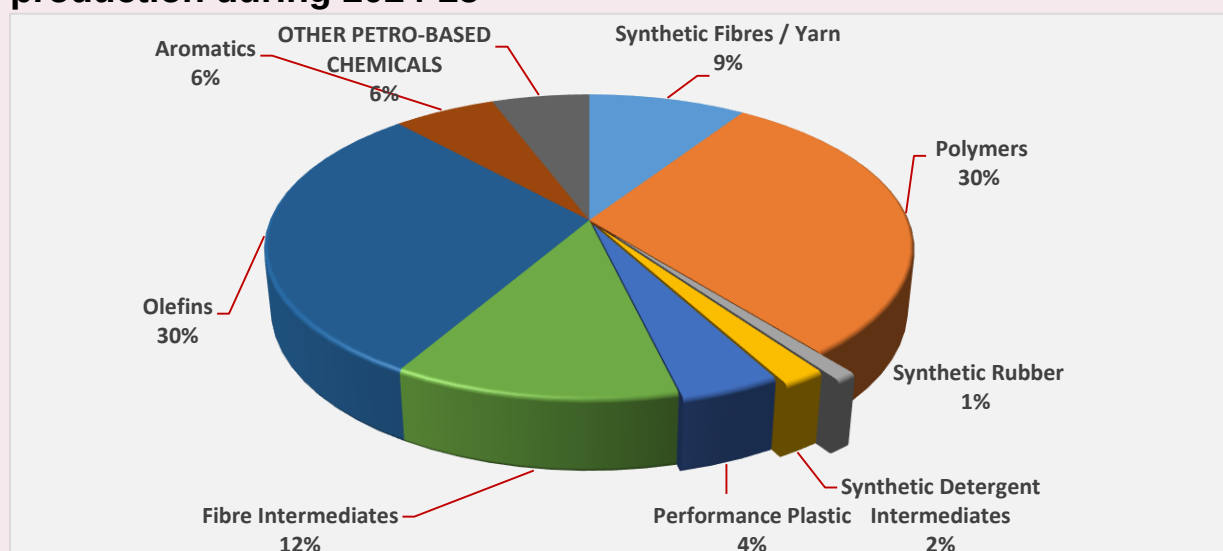
The graph above illustrates the distribution of installed capacity among major petrochemical groups for FY 2024-25. Olefins lead with the largest share, representing 27% of the total capacity, followed by Polymers at 25%. Aromatics account for 14%, Fiber Intermediates for 12%, and Synthetic Yarn for 9%. Performance Plastics make up 6%, Other Petro-Based Chemicals contribute 5%, and both Synthetic Rubber and Synthetic Detergent Intermediates each represent 1% of the total capacity.

Table 8.38: Production of different groups of Major Petrochemicals in the FY 2024-25

Groups	Production (In 000'MT)
Synthetic Fibres / Yarn	4137
Polymers	13367
Synthetic Rubber	411
Synthetic Detergent Intermediates	823
Performance Plastic	1904
Fibre Intermediates	5440
Olefins	13284
Aromatics	2696
Other petro-based chemicals	2572

Source: DCPC

Graph 8.38: Share of different groups of Major Petrochemicals in production during 2024-25



Source: DCPC

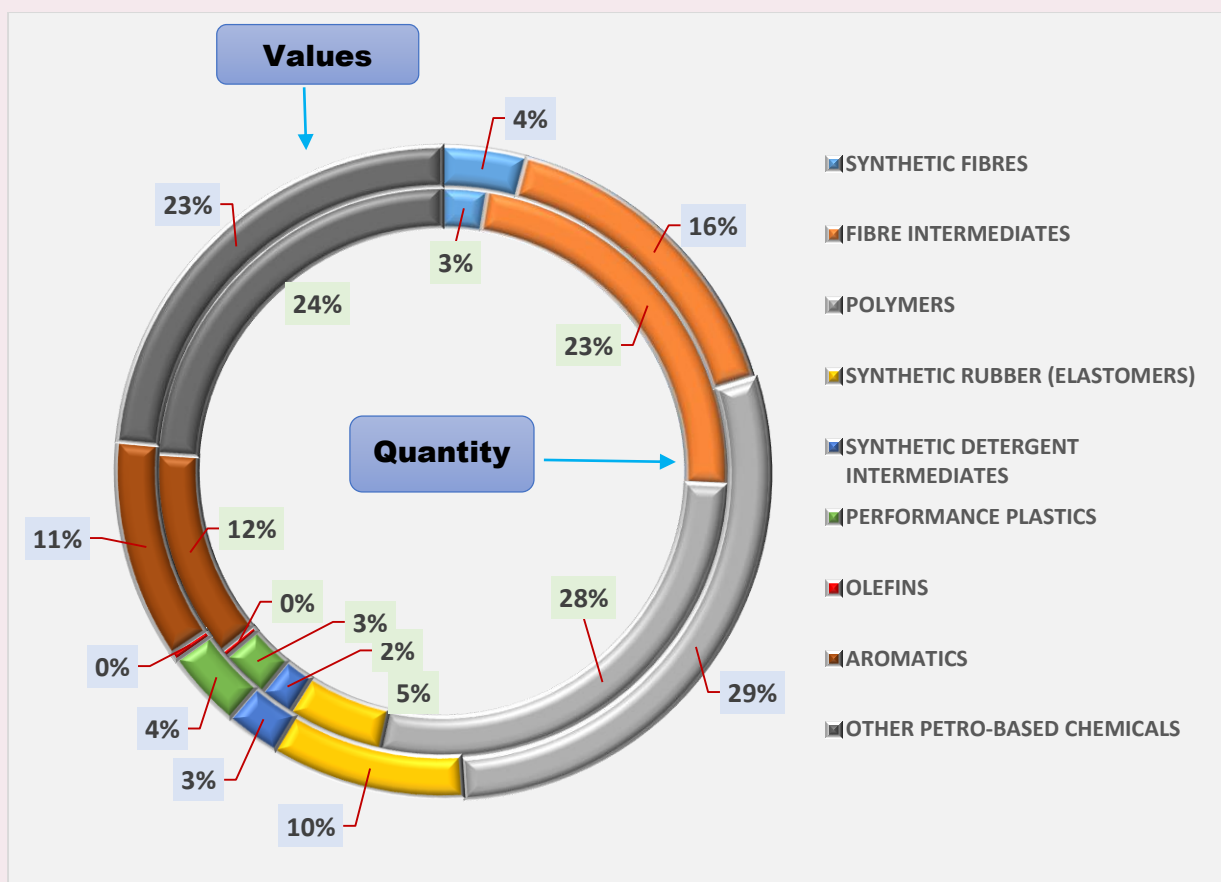
The graph above shows the production figures for major petrochemical groups in FY 2024-25. Polymers and Olefins lead with the largest share, accounting for 30% each of total production. Fiber Intermediates contribute 12%, Synthetic Yarn stands at 9%, Aromatics at 6%, and Other Petro-Based Chemicals make up 6%. Performance Plastics account for 4%, while Synthetic Rubber and Synthetic Detergent Intermediates each represent 1% and 2%, respectively, of the overall production.

Table 8.39: Import quantity and value of different groups of Major Petrochemicals in the FY 2024-25

Groups	Qty (in 000'MT)	Values (in Rs. Crore)
Synthetic fibers	398	5761
Fibre intermediates	3487	21920
Polymers	4191	39322
Synthetic rubber (elastomers)	829	13192
Synthetic detergent intermediates	287	3684
Performance plastics	427	5328
Olefins	63	574
Aromatics	1795	14863
Other petro-based chemicals	3621	32194

Source: DCPC

Graph 8.39: Share of different Groups of Major chemicals in import quantity and value during 2024-25



Source: DCPC

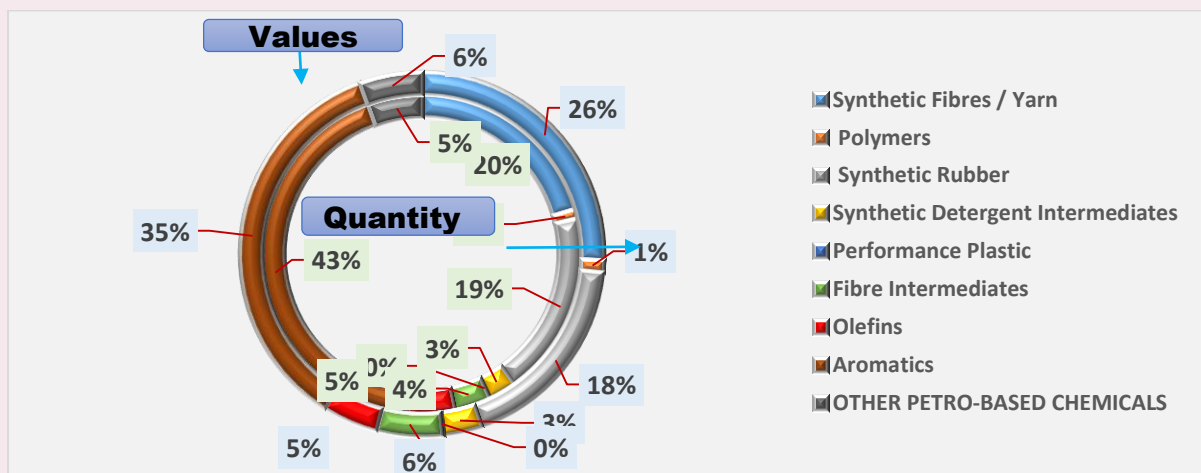
The graph above presents a bivariate analysis, highlighting two key attributes: Import Quantity and Value, for major chemical groups in FY 2024-25. Polymers lead with the highest share, comprising 28% of the total import quantity. Other Petro-based Chemicals and Fiber Intermediates follow with 24% and 23%, respectively. In terms of import value, Polymers make the largest contribution, representing 29% of the total import value. Other Petro-based Chemicals account for 23%, Fiber Intermediates for 16%, and Aromatics for 11% of the total import value.

Table 8.40: Export quantity and value of different groups of Major Petrochemicals in the FY 2024-25

Groups	Qty (in 000'MT)	Values (in Rs. Crore)
Synthetic fibers	806	9939
Fiber intermediates	37	434
Polymers	743	7047
Synthetic rubber (elastomers)	111	1327
Synthetic detergent intermediates	3	50
Performance plastics	142	2247
Olefins	188	1923
Aromatics	1697	13813
Other petro-based chemicals	216	2159

Source: DCPC

Graph 8.40: Share of different groups of Major Petrochemicals in export Quantity and value during 2024-25



Source: DCPC

The graph depicted above provides a bivariate analysis of two crucial attributes: Import Quantity and Value, for major chemical groups during FY 2024–25. Aromatics play a substantial role, contributing 43% to the total import quantity and 35% to the import value. In the case of Synthetic Fibers/Yarn, the import quantity amounts to 20%, representing 26% of the total import value. Meanwhile, Synthetic Rubber constitutes 18% of the import quantity, contributing 19% to the total import value.

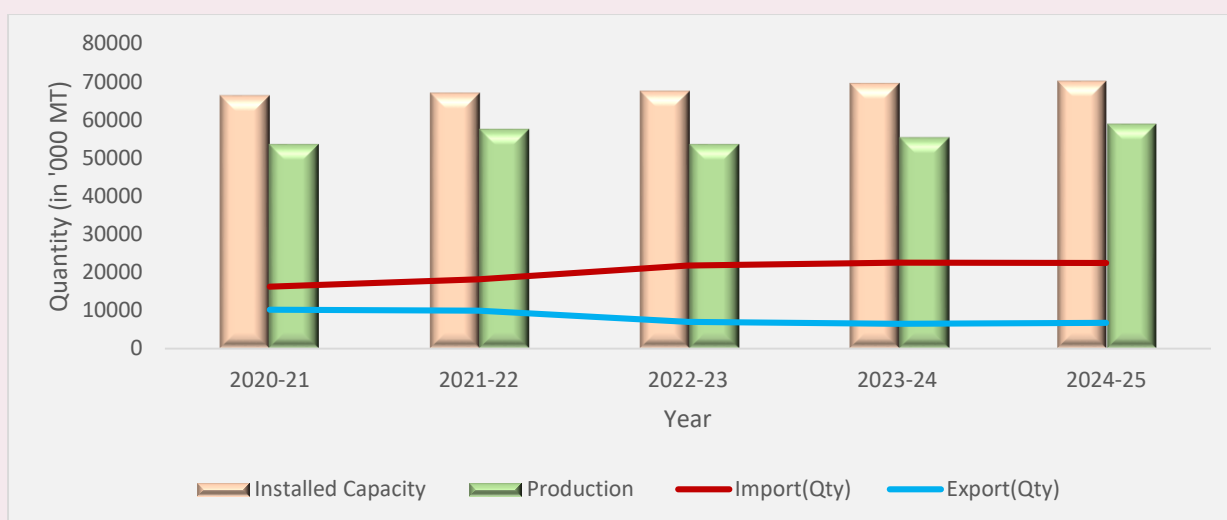
Total Major Chemicals and Petrochemicals

Table 8.41: Installed Capacity, Production, Import & Export (in '000 MT)

Year	Installed Capacity	Production	Import(Qty)	Export(Qty)
2020-21	66091	53402	16194	10179
2021-22	66790	57332	18117	9874
2022-23	67317	53331	21768	6981
2023-24	69308	55140	22484	6493
2024-25	69942	58617	22433	6751
CAGR (%)	1.4	2.4	8.5	-9.8

Source: DCPC

Graph 8.41: Installed Capacity, Production, Import & Export



Source: DCPC

The Total Major Chemicals and Petrochemicals sector showed modest growth in installed capacity and production, indicating gradual expansion and improved operational efficiency. Imports increased significantly, reflecting strong domestic demand and growing reliance on external sources, while exports declined steadily, suggesting reduced global competitiveness. Overall, the sector demonstrated stable domestic growth but a widening trade gap due to rising imports and falling exports.

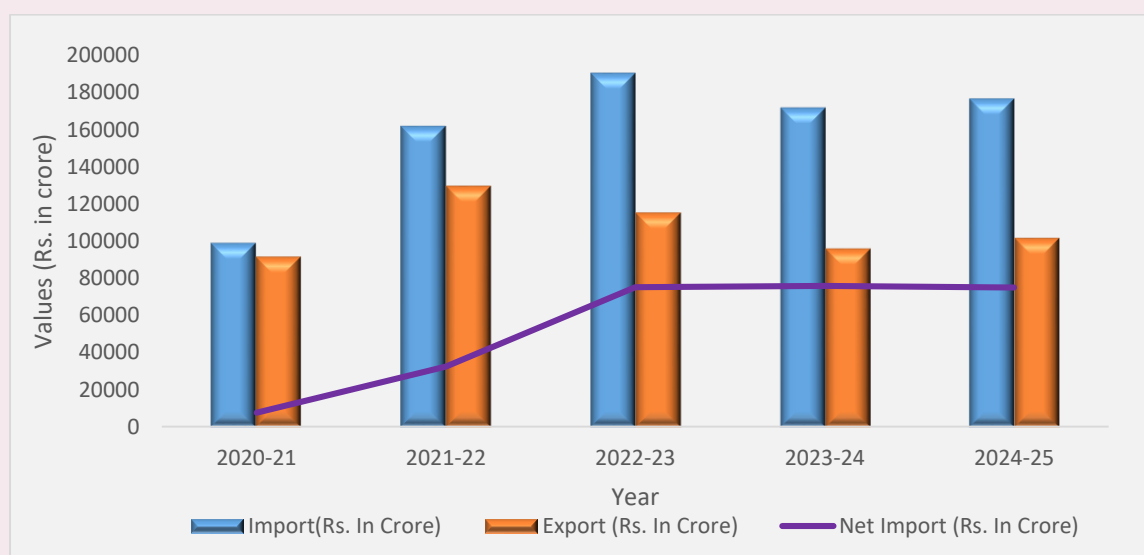
Total Major Chemicals and Petrochemicals

Table 8.42: Value of Import, Value of Export and Net Import (Rs. in Crore)

Year	Imports	Exports	Net import
2020-21	99086	91516	7570
2021-22	161740	129435	32305
2022-23	190237	115047	75190
2023-24	171715	95837	75878
2024-25	176386	101493	74892
CAGR (%)	15.5	2.6	77.4

Source: DCPC

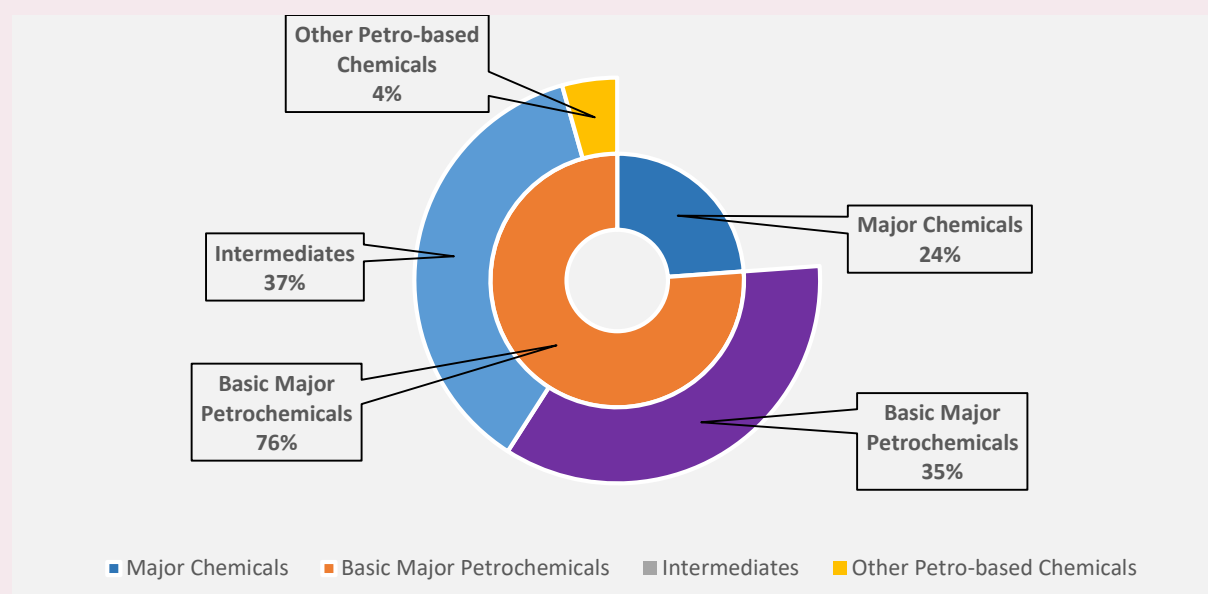
Graph 8.42: Value of Import, Value of Export and Net Import



Source: DCPC

The Total Major Chemicals and Petrochemicals sector witnessed a substantial increase in import values over the period, indicating strong domestic demand and higher import dependence. Export growth remained modest, resulting in a sharp rise in the trade deficit across the years. Overall, the sector experienced expanding trade activity but a deteriorating trade balance, reflecting increasing reliance on imports and limited export growth.

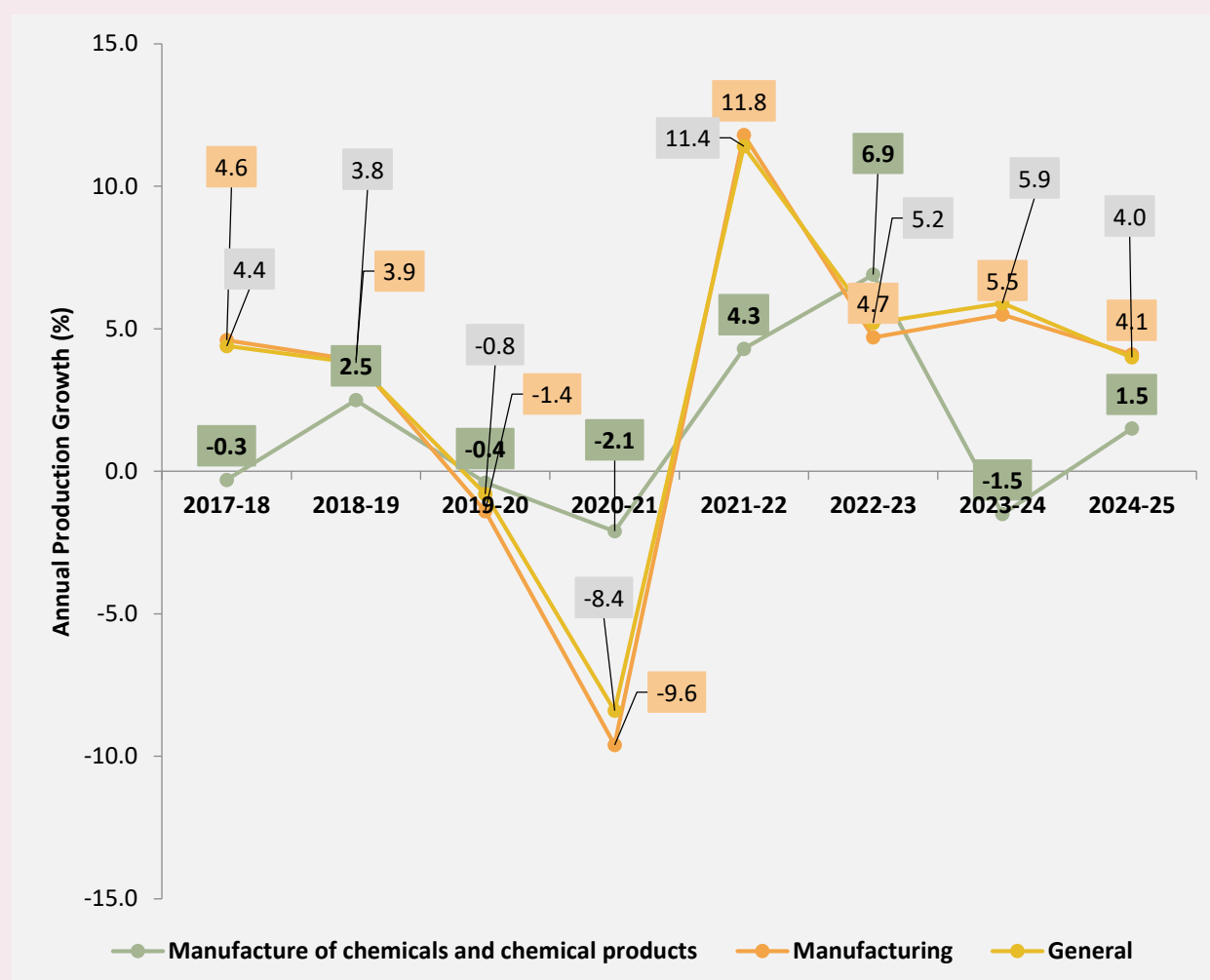
Graph 8.44: Production share of Chemicals and petrochemicals form the FY 2024-25



Source: DCPC

In the fiscal year 2024-25, the production breakdown is depicted in the graph above, with Major Chemicals comprising 24% and Major Petrochemicals constituting the remaining 76%. Furthermore, Major Petrochemicals can be divided into three subcategories: Basic Petrochemicals at 35%, Intermediates at 37%, and Other Petro-based Chemicals at 4%.

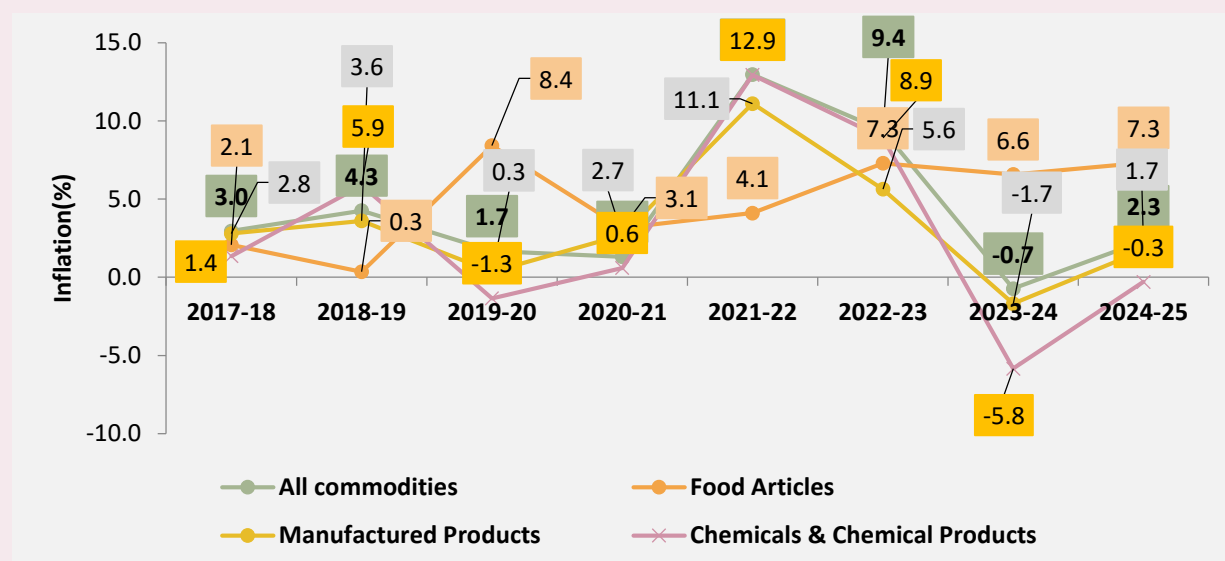
Graph 8.45: Annual Production Growth (%) (Based on Index on Industrial Production with Base year: 2011-12)



Source: MoSPI

The Index of Industrial Production (IIP) in the manufacturing of Chemicals and Chemical Products indicates an estimated annual growth rate of 1.5% for the FY 2024-25 as compared to the (-) 1.5% in FY 2023-24. This annual growth signifies a significant increase in production within this sector for the FY 2024-25.

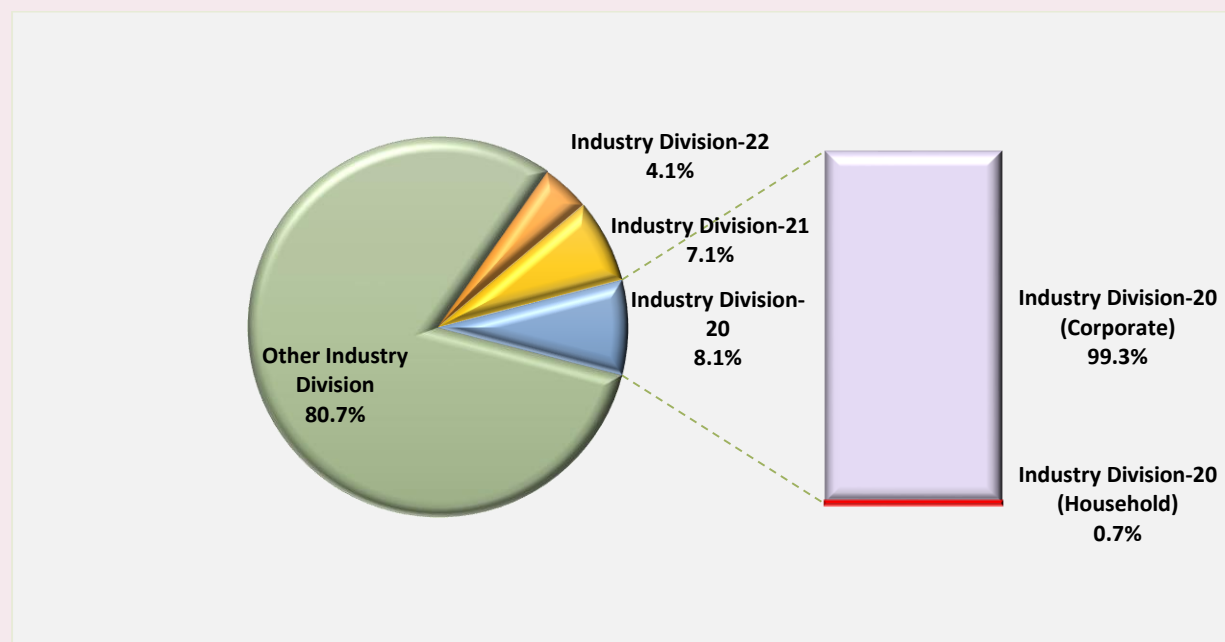
Graph 8.46: Annual Inflation (%) (Based on Wholesale Price Index with base year: 2011-12)



Source: Office of the Economic Advisor (<http://eaindustry.nic.in>)

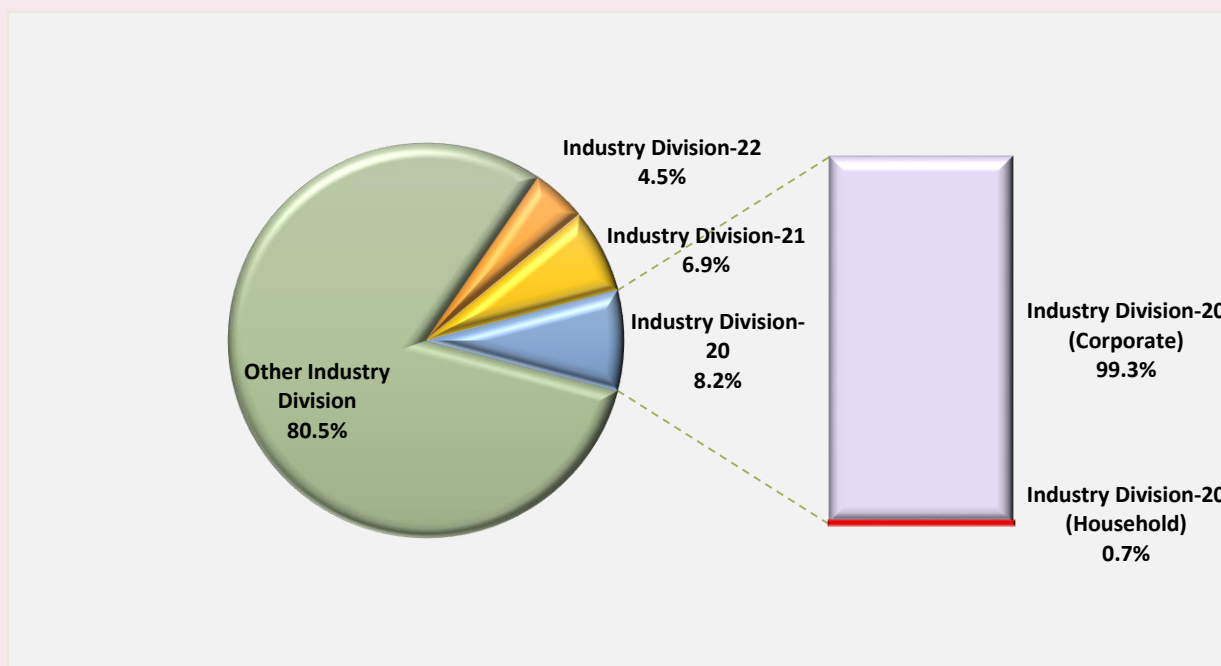
Annual Inflation for Chemicals and Chemical Products in the FY 2024-25 is (-) 0.3%.

Graph 8.47: GVA of Manufacturing sector for the FY 2023-24 (At current prices) (Base year: 2011-12)



Source: MoSPI

Graph 8.48: GVA of Manufacturing sector for the FY 2023-24 At constant prices (Base year: 2011-12)



Source: MoSPI

Graph 8.47 illustrates the distribution of GVA (Gross Value Added) within the manufacturing sector at current prices for Industry divisions 20, 21 and 22. Notably, Industry division 20, which encompasses Chemical and Chemical products, accounts for 8.1% of the total GVA in the manufacturing sector. Within Industry division 20, the corporate sector contributes a substantial 99.3% of the GVA

Graph 8.48 displays the distribution of Industry divisions 20, 21 and 22 within the manufacturing sector at constant prices. Notably, Industry division 20 contributes 8.2% to the total GVA of the manufacturing sector. Within Industry division 20, the corporate sector accounts for a substantial 99.3% of the GVA.

APPENDICES

APPENDIX 1: ACRONYMS

ACRONYMS

AF	Acrylic Fiber (including Dry Spun)
ASI	Annual Survey of Industries
ACN	Acrylonitrile
CAGR	Compound Annual Growth Rate
CEFIC	European Chemical Industry Council
NSO	National Statistical Office
CSO	Central Statistics Office
CPI	Consumer Price Index
DGCI&S	Directorate General of Commercial Intelligence & Statistics
DPIIT	Department for Promotion of Industry and Internal Trade
DMT	Dimethyl Terephthalate
EO	Ethylene Oxide
EPDM	Ethyl Propylene Dimers
EVA	Ethyl Vinyl Acetate
EX-PS	Expandable Polystyrene
FY	Financial Year
FDI	Foreign Direct Investment
GVA	Gross Value Added
HBR	Halo Butyl Rubber
HDPE	High Density Polyethylene
IIP	Index of Industrial Production
IIR	Iso Butylene Isoprene Rubber
ISIC	International Standard Industrial Classification
ITC (HS)	Indian Trade Classification (Harmonized System)

KTPA	Thousand Tons Per Annum
LAB	Linear Alkyl Benzene
LDPE	Low Density Polyethylene
LLDPE	Linear Low Density Polyethylene
MEG	Mono Ethylene Glycol
MEK	Methyl Ethyl Ketone
MMA	Methyl Methacrylate
MMSCM	Million Metric Standard Cubic Meters
MoSPI	Ministry of Statistics and Programme Implementation
MT	Metric Tons
NBR	Nitrile Butadiene Rubber
NFY	Nylon Filament Yarn
NIC	National Industrial Classification
NIY	Nylon Industrial Yarn
ONCB	Ortho Nitro Chloro Benzene
PAN	Phthalic Anhydride
PBR	Poly Butadiene Rubber
PBT	Polybutylene Terephthalate
PET	Polyethylene terephthalate
PIB	Poly Isobutylene
PFY	Polyester Filament Yarn
PG	Propylene Glycol
PMMA	Polymethyl Methacrylate
PNCB	Para Nitro Chloro Benzene
PO	Propylene Oxide
PP	Polypropylene
PPFY	Polypropylene Filament Yarn

PPSF	Polypropylene Staple Fibre
PS	Poly Styrene
PSF	Polyester Staple Fibre
PSFF	Polyester Staple Fibre Filament
PTA	Purified Terephthalic Acid
PVC	Poly Vinyl Chloride
SAN	Styrene Acrylonitrile
SBR	Styrene Butadiene Rubber
UNSC	United Nations Statistical Commission
VAM	Vinyl Acetate Monomer
WPI	Wholesale Price Index
CAS	Chemical Abstracts Service
UN	United Nations

APPENDIX 2: COVERAGE

COVERAGE

Major Chemicals			
S. No.	Group	Products	
I	Alkali Chemicals	Soda Ash	Caustic Soda
		Liquid Chlorine	
II	Inorganic Chemicals	Aluminium Fluoride	Calcium Carbide
		Carbon Black	Potassium Chlorate
		Sodium Chlorate	Titanium Dioxide
		Red Phosphorous	Hydrogen Peroxide
		Calcium Carbonate	
III	Organic Chemicals	Acetic Acid	Acetic Anhydride
		Acetone	Phenol
		Methanol	Formaldehyde
		Nitrobenzene	Citric Acid
		Maleic Anhydride	Pentaerythritol
		Aniline	Chloromethane
		ONCB	PNCB
		MEK	Acetaldehyde
		Ethanol amines	Ethyl Acetate
		Menthol	Ortho- Nitro Toluene
		Isobutyl Benzene	
IV	Pesticides (Technical Grade)	D.D.T.	Malathion
		Parathion(Methyl)	Dimethoate
		D.D.V.P.	Quinalphos
		Monocrotophos	Phosphamidon
		Phorate	Ethion
		Endosulfan	Fenvalerate

		Cypermethrin	Anilophos
		Acephate	Chlorpyrifos
		Phosalone	Metasystox
		Temephos	Fenthion
		Triazophos	Lindane
		Temephos	Deltamethrin
		Alphamethrin	Profenofos Technical

S. No.	Group	Products	
		Pretilachlor Technical	Lambda Cyhalothrin
		Phenthoate	Permethrin Tech
		Imidacaloprid Tech	Captan & Captafol
		Ziram (Thio Barbamate)	Carbendazim (Bavistin)
		Calixin	Mancozeb
		Copper-Oxychloride	Hexaconazole
		Metconazole	2, 4-D (2,4-Dichlorophenoxyacetic acid)
		Butachlor	Ethofumesate Technical
		Thiamethoxam Technical	Pendimethalin
		Metribuzin	Triclopyr Acid Tech
		Isoproturon	Basalin
		Glyphosate	Paraquat
		Diuron	Atrazin
		Fluchloralin	Zinc Phosphide
		Aluminium Phosphide	Methyl Bromide
		Dicofol	
V	Dyes and Pigments	Acid Direct Dyes (other than AZO)	Azo Dyes
		Basic Dyes	Disperse Dyes
		Oil soluble (Solvent Dyes)	Fast Colour Bases

		Ingrain Dyes	Solubilised Vat Dyes
		Optical Whitening Agents	Organic Pigments
		Inorganic Pigments	Pigment Emulsion
		Reactive Dyes	Sulphur Dyes
		Vat Dyes	Food Colours
		Naphthols	Other Dyes

Major Petrochemicals			
A. Basic Major Petrochemicals			
S. No.	Group	Products	
I	Synthetic Fibres	Acrylic Fibre	Polyester Staple Fibre Filament
		Nylon Filament Yarn	Nylon Industrial Yarn/Tyre Cord
		Polyester Filament Yarn	Polyester Staple Fibre
		Polypropylene Filament Yarn	Polypropylene Staple Fibre
		Polyster Industrial Yarn	Elastomeric/Spandex Filament Yarn
II	Polymers	Low Density Polyethylene	High Density Poly Ethylene
		Poly Styrene	Polypropylene (Inc. Co- Polymer)
		Expandable Poly Styrene	Poly Vinyl Chloride
		Linear Low Density Poly Ethylene	PVC Compound
III	Synthetic Rubber (Elastomers)	Styrene Butadiene Rubber (SBR)	Poly Butadiene Rubber (PBR)
		NitrileButadiene Rubber (NBR)	Ethyl Propylene Dimers (EPDM)
		Ethyl Vinyl Acetate (EVA)	Butyl Rubber
IV	Synthetic Detergent Intermediates	Linear Alkyl Benzene (LAB)	Ethylene Oxide (EO)
V	Performance Plastics	Acrylonitrile Butadiene Styrene (ABS) Resin	Nylon-6
		Nylon 6,6	Poly Methyl Methacrylate (PMMA)
		Styrene Acrylonitrile (SAN) Resin	Polytetrafluoroethyle ne(PTFE)
		Polyester Chips/PET Chips	
B. Intermediates			
I.	Fibre	Acrylonitrile	Caprolactum

	Intermediates	Mono Ethylene Glycol (MEG)	Dimethyl Terephthalate (DMT)
		Purified Terephthalic Acid (PTA)	
II.	Building Blocks	(a) Olefins	
		Ethylene	Propylene
		Butadiene	
		(b) Aromatics	
		Benzene	Toluene
		Ortho Xylene	Para Xylene
		Mixed Xylene	

C. Other Petro-based Chemicals		
Diethylene Glycol	Diacetone Alcohol	Ethylene Dichloride
Butanol	Oxo Alcohol	2-Ethyl Hexanol
Vinyl Chloride Monomer	Epichlorohydrine	Iso Butylene
PET	PIB	Polycarbonate
Propylene Oxide	Propylene Glycol	Polyvinyl Acetate Resin
Unsaturated Polyester Resin	Methyl Methacrylate	Iso-Butanol
Ethyl Benzene	C4-Raffinate	Cellulose Acetate Butyrate
Polyacetal Resin	Phthalic Anhydride	Styrene
Vinyl Acetate Monomer	Isopropanol	Polyol
Metaxylene	Methyl Isobutyl Ketone	PBT
Cellulose Acetate Sheet	Cellulose Nitrate Sheet	Melamine Moulding Powder

APPENDIX 3: DATA SOURCES & DEFINITIONS

DATA SOURCES & DEFINITIONS

The major sources of data presented in this publication are:

I	Production & Installed capacities	Production of Major Chemicals and Petrochemicals and their installed capacities have been aggregated based on monthly returns received from large and medium scale Chemicals & Petrochemicals Industries of the country.
II	Imports & Exports	Directorate General of Commercial Intelligence & Statistics (DGCIS), Ministry of Commerce & Industry, Kolkata.
III	FDI	Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce & Industry, New Delhi.
IV	IIP	National Statistical Office (NSO), Ministry of Statistics & Programme Implementation, New Delhi.
V	WPI	Office of the Economic Adviser, Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce & Industry, New Delhi.
VI	Chemical Industry (Broad definition)	The chemical industry includes organic chemicals, inorganic chemicals, pharmaceuticals products, fertilizers, tanning or dyeing extracts, dyes pigments, paints and varnishes, putty and other mastics inks, essential oils, perfumery cosmetic, soap, organic surface, active agents, washing, lubricating, artificial waxes, dental waxes, polishing, albuminoidal substance, modified starches, glues, enzymes, explosive, pyrotechnic products, beverages, spirits and vinegar, matches, pyrophoric alloys, photographic or cinematographic goods, miscellaneous chemical

DATA SOURCES & DEFINITIONS

		products, petrochemicals, plastics synthetic, rubber, man-made filaments, man-made fibre.
VII	Chemicals and Petrochemicals (Narrow definition)	The Chemicals and Petrochemical products monitored by the Department of Chemicals & Petrochemicals are selected major products and the list of these products is given in the tables 3 & 8 respectively. Unless contrary is mentioned, the terms 'Major Chemicals' and 'Major Petrochemicals' refer to the products or groups thereof as enumerated in the tables 3 & 8.

APPENDIX 4: DURATION OF THE DATA

DURATION OF THE DATA

Data	Data Source	Duration
Installed Capacity, Production	DCPC	FY 2017-18 to FY 2024-25
Import / Export	DGCIS, Kolkata, M/o Commerce and Industry	FY 2017-18 to FY 2024-25
Exchange Rates of Indian Rupee vis-à-vis US\$	Financial Benchmarks India Private Limited (https://www.fbil.org.in)	April 2021 to March 2025
FDI	DPIIT	FY 2022-23 to FY 2024-25
IIP	MoSPI	FY 2017-18 to FY 2024-25
WPI	Office of the Economic Advisor (http://eaindustry.nic.in)	FY 2017-18 to FY 2024-25
Gross value added, Value Output	MoSPI	FY 2017-18 to FY 2023-24
World Import / Export	UN Comrade	2024
Number of factories, Number of Workers, Total output	Annual Survey of Industries	FY 2017-18 to FY 2023-24

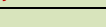
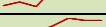
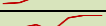
ANNEXURES

Section - I

Chemical Sector

Table 1: Performance of Selected Major Chemicals (Group-wise) during FY 2017-18 to FY 2024-25 at a Glance

(Figures in 000'MT)

Groups	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Trend line	CAGR (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1. Alkali Chemicals										
Capacity	9274	9422	10089	10473	10889	11100	11260	11943		3.68
Production	7631	8043	8457	7776	9041	9493	9234	9938		3.84
Capacity Utilisation (%)	82.3	85.4	83.8	74.2	83.0	85.5	82.0	83.2		
Imports	1194	1049	1157	968	767	713	1263	1176		-0.22
Exports	273	239	329	429	598	668	893	863		17.84
2. Inorganic Chemicals										
Capacity	1315	1300	1538	1560	1575	1575	1650	1650		3.30
Production	1058	1064	1063	978	1052	1058	1137	1197		1.77
Capacity Utilisation (%)	80.5	81.8	69.2	62.7	66.8	67.2	68.9	72.5		
Imports	1229	1580	1532	1188	1345	1351	942	928		-3.93
Exports	173	177	196	195	273	337	417	499		16.35
3. Organic Chemicals										
Capacity	2535	2575	2671	2716	2800	2905	3076	2971		2.29
Production	1799	1884	1847	1906	1953	1912	1983	2189		2.85
Capacity Utilisation (%)	71.0	73.2	69.1	70.2	69.7	65.8	64.5	73.7		
Imports	3407	3645	3775	3716	4160	4701	5018	5100		5.93
Exports	205	233	245	296	310	304	301	318		6.49
4. Pesticides (Tech.)										
Capacity	325	324	334	371	380	389	444	438		4.35
Production	213	217	192	255	299	258	280	287		4.39
Capacity Utilisation (%)	65.4	66.9	57.6	68.7	78.8	66.4	63.1	65.6		
Imports	44	49	43	66	60	67	62	76		8.00
Exports	358	405	398	471	568	540	539	591		7.39
5. Dyes & Pigments										
Capacity	478	492	528	532	533	570	590	647		4.40
Production	367	382	384	327	398	318	345	372		0.19
Capacity Utilisation (%)	76.8	77.6	72.8	61.6	74.7	55.8	58.4	57.6		
Imports	63	56	51	45	54	45	50	55		-1.93
Exports	486	525	530	514	591	465	493	536		1.41
Total Major Chemicals (1 to 5)										
Capacity	13927	14112	15160	15652	16178	16538	17021	17649		3.44
Production	11069	11589	11943	11243	12743	13039	12979	13983		3.40
Capacity Utilisation (%)	79.5	82.1	78.8	71.8	78.8	78.8	76.3	79.2		
Imports	5937	6379	6557	5983	6385	6878	7334	7334		3.07
Exports	1496	1579	1698	1905	2339	2313	2642	2807		9.41

Note: 1. Production and Installed Capacity data based on MPRs received from manufacturer of chemicals under large and medium scale units only monitored by S&M Division of DCPC.

2. Data Source in respect of imports and exports is DGCIS, Kolkata, M/o Commerce and Industry.

3. Import and Export includes both technical and formulations.

Table 1A: Projection of Production, Installed Capacity, Export and Import of Selected Major Chemicals (Group-wise) during FY 2025-26 to FY 2030-31.

(Figures in 000'MT)

Groups	Actual Values						Forecast Values					
	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. Alkali Chemicals												
Capacity	10089	10473	10889	11100	11260	11943	12143	12469	12805	13189	13557	13839
Production	8457	7776	9041	9493	9234	9938	10213	10744	10915	11281	11757	12055
Capacity Utilisation (%)	83.8	74.2	83.0	85.5	82.0	83.2	84.1	86.2	85.2	85.5	86.7	87.1
Imports	1157	968	767	713	1263	1176	1100	1241	1388	1470	1455	1570
Exports	329	429	598	668	893	863	1043	1158	1260	1374	1470	1608
2. Inorganic Chemicals												
Capacity	1538	1560	1575	1575	1650	1650	1675	1702	1731	1760	1776	1807
Production	1063	978	1052	1058	1137	1197	1196	1264	1304	1353	1389	1431
Capacity Utilisation (%)	69.2	62.7	66.8	67.2	68.9	72.5	71.4	74.3	75.3	76.9	78.2	79.2
Imports	1532	1188	1345	1351	942	928	839	758	579	450	390	254
Exports	196	195	273	337	417	499	544	628	698	769	836	905
3. Organic Chemicals												
Capacity	2671	2716	2800	2905	3076	2971	3125	3205	3271	3329	3388	3491
Production	1847	1906	1953	1912	1983	2189	2155	2219	2295	2385	2443	2485
Capacity Utilisation (%)	69.1	70.2	69.7	65.8	64.5	73.7	69.0	69.2	70.2	71.6	72.1	71.2
Imports	3775	3716	4160	4701	5018	5100	5518	5917	6201	6471	6801	7166
Exports	245	296	310	304	301	318	333	331	337	348	357	362
4. Pesticides (Tech.)												
Capacity	334	371	380	389	444	438	467	486	510	531	546	572
Production	192	255	299	258	280	287	313	310	314	333	340	349
Capacity Utilisation (%)	57.6	68.7	78.8	66.4	63.1	65.6	67.0	63.8	61.5	62.6	62.2	60.9
Imports	43	66	60	67	62	76	78	78	84	88	93	95
Exports	398	471	568	540	539	591	631	643	656	693	724	743
5. Dyes & Pigments												
Capacity	528	532	533	570	590	647	647	681	714	741	769	792
Production	384	327	398	318	345	372	349	357	348	364	359	355
Capacity Utilisation (%)	72.8	61.6	74.7	55.8	58.4	57.6	53.9	52.5	48.7	49.2	46.7	44.9
Imports	51	45	54	45	50	55	52	54	55	58	59	59
Exports	530	514	591	465	493	536	505	499	485	506	495	483
Total Major Chemicals (1 to 5)												
Capacity	15160	15652	16178	16538	17021	17649	18058	18542	19031	19550	20036	20501
Production	11943	11243	12743	13039	12979	13983	14226	14893	15175	15716	16288	16674
Capacity Utilisation (%)	78.8	71.8	78.8	78.8	76.3	79.2	78.8	80.3	79.7	80.4	81.3	81.3
Imports	6557	5983	6385	6878	7334	7334	7588	8050	8307	8537	8798	9144
Exports	1698	1905	2339	2313	2642	2807	3057	3260	3436	3691	3882	4101

Note: 1. Production and Installed Capacity data based on MPRs received from manufacturer under large and medium scale units only monitored by S&M Division of DCPC.

2. Data Source in respect of imports and exports is DGCIS, Kolkata, M/o Commerce and Industry.

3. \$ Imports and Exports includes both technical and formulations.

4. Projected figures have been calculated by using Linear regression in MS Excel. ($Y=aX+b$)

Table 2: Production, Installed Capacity & Growth of Selected Major Chemicals (Group-wise) during FY 2017-18 to FY 2024-25.

(Figures in 000'MT)

Groups	Installed Capacity			Production / Growth Rate	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
	2022-23	2023-24	2024-25									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
Alkali Chemicals	11100	11260	11943	Production	7631	8043	8457	7776	9041	9493	9234	9938
				Growth Rate (%)	8.9	5.4	5.1	-8.0	16.3	5.0	-2.7	7.6
Inorganic Chemicals	1575	1650	1650	Production	1058	1064	1063	978	1052	1058	1137	1197
				Growth Rate (%)	0.5	0.5	0.0	-8.1	7.6	0.6	7.5	5.2
Organic Chemicals	2905	3076	2971	Production	1799	1884	1847	1906	1953	1912	1983	2189
				Growth Rate (%)	9.8	4.8	-2.0	3.2	2.5	-2.1	3.7	10.4
Pesticides	389	444	438	Production	213	217	192	255	299	258	280	287
				Growth Rate (%)	-0.5	1.9	-11.3	32.8	17.3	-13.8	8.5	2.6
Dyes & Pigments	570	590	647	Production	367	382	384	327	398	318	345	372
				Growth Rate (%)	14.7	3.9	0.7	-14.8	21.5	-20.1	8.4	8.0

Note: Production and Installed Capacity data based on MPRs received from manufacturer of chemicals under large and medium scale units only monitored by S&M Division of DCPC.

Table 3: Production, Capacity Utilization & Growth of Major Chemicals (Product-wise) during FY 2017-18 to FY 2024-25

(Figures in 000'MT)

Major Groups / Products	Installed Capacity			Production								CAGR (%)	Capacity Utilization in 2023-24 (%)
	2022-23	2023-24	2024-25	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
1. Alkali Chemicals													
SODA ASH	3714	3714	3714	2989.6	3048.2	3069.4	2638.1	3078.9	3219.3	2975.8	3279.3	↑ 1.3	88.3
CAUSTIC SODA	4227	4304	4674	2742.3	2925.4	3136.9	2964.1	3462.8	3604.5	3618.0	3926.6	↑ 5.3	84.0
LIQUID CHLORINE	3158	3242	3556	1899.4	2069.1	2250.4	2174.3	2499.3	2668.8	2640.4	2731.8	↑ 5.3	76.8
Total	11100	11260	11943	7631.3	8042.7	8456.8	7776.5	9041.0	9492.6	9234.2	9937.7	↑ 3.8	83.2
2. Inorganic Chemicals													
ALUMINIUM FLUORIDE	25.6	25.6	25.6	7.5	5.7	5.1	3.7	8.9	5.3	5.4	5.2	↓ -5.1	20.3
CALCIUM CARBIDE	112.0	112.0	112.0	87.3	83.2	81.3	86.8	98.6	83.4	80.1	86.2	↓ -0.2	76.9
CARBON BLACK	696.0	771.0	772.0	530.4	546.4	500.1	384.8	456.5	447.0	484.4	548.5	↑ 0.5	71.0
POTASSIUM CHLORATE	28.6	28.6	28.6	0.3	0.7	16.2	17.1	17.7	14.2	17.1	17.8	↑ 75.5	62.2
SODIUM CHLORATE	22.3	22.3	22.3	0.0	0.0	0.0	17.9	21.1	23.2	21.5	21.5		96.2
TITANIUM DIOXIDE	82.5	82.5	82.5	57.8	57.1	49.5	51.2	57.0	46.8	54.0	52.3	↓ -1.4	63.4
RED PHOSPHORUS	1.7	1.2	1.3	0.9	1.0	1.0	1.1	1.1	1.2	1.1	1.1	↑ 3.2	84.0
HYDROGEN PEROXIDE	221.3	222.3	221.3	157.0	156.5	122.8	139.9	143.5	184.4	188.1	183.1	↑ 2.2	82.8
POTASSIUM IODATE	1.2	1.2	1.2	0.0	0.0	0.6	0.5	0.6	0.5	0.5	0.5		44.4
CALCIUM CARBONATE	383.5	383.5	383.5	217.2	213.3	286.8	274.8	246.8	252.4	285.1	280.5	↑ 3.7	73.1
Total	1574.7	1650.2	1650.4	1058.5	1063.8	1063.5	977.8	1051.8	1058.4	1137.3	1196.8	↑ 1.8	72.5
3. Organic Chemicals													
ACETIC ACID	165.5	165.5	165.5	157.1	153.8	167.9	154.8	166.6	165.5	164.3	167.8	↑ 0.9	101.4
ACETIC ANHYDRIDE	124.7	112.7	135.2	97.1	95.5	74.1	75.1	78.4	97.9	69.1	66.1	↓ -5.3	48.9
ACETONE	47.1	47.1	24.6	32.9	40.7	36.3	39.0	36.1	34.0	29.6	21.8	↓ -5.7	88.4
PHENOL	76.8	76.8	40.0	53.4	65.4	57.9	61.3	58.2	55.0	47.5	34.9	↓ -5.9	87.2
METHANOL	474.3	660.3	660.3	260.5	271.9	176.0	234.0	167.7	69.3	183.2	244.3	↓ -0.9	37.0
FORMALDEHYDE	435.3	439.7	413.8	248.2	226.6	260.4	244.7	293.1	301.1	313.1	359.0	↑ 5.4	86.8
NITROBENZENE	126.5	129.5	102.5	71.4	68.8	61.1	76.1	82.8	64.5	82.2	106.0	↑ 5.8	103.5
MALEIC ANHYDRIDE	7.7	7.7	9.1	3.3	4.6	5.0	5.4	6.3	6.9	6.5	6.5	↑ 10.1	71.5
PENTAERYTHRITOL	17.4	17.4	21.2	14.1	15.0	15.2	11.7	16.3	15.6	14.4	15.5	↑ 1.3	73.1
ANILINE	54.1	54.1	35.0	41.9	37.9	25.4	33.5	39.7	22.2	30.3	36.6	↓ -1.9	104.5
CHLORO METHANES	438.5	435.8	449.9	222.4	285.5	296.9	327.0	340.8	411.6	386.8	403.5	↑ 8.9	89.7
ISOBUTYLBENZENE	16.8	16.8	12.0	9.0	9.7	9.4	12.7	8.5	9.6	9.7	8.0	↓ -1.6	66.8
ONCB	30.0	30.0	30.0	24.9	23.7	19.8	23.3	26.7	27.1	25.4	29.6	↑ 2.5	98.7
PNCB	48.4	48.4	48.4	37.8	36.1	31.9	38.9	43.7	46.2	42.6	51.5	↑ 4.5	106.4
MEK	10.0	10.0	10.0	6.4	7.0	9.8	8.0	8.9	8.3	8.0	8.4	↑ 4.0	84.4
ACETALDEHYDE	152.0	155.0	155.5	65.7	61.9	77.1	56.0	72.5	77.7	64.2	85.9	↑ 3.9	55.2
ETHANOLAMINES	27.0	27.0	27.0	13.2	16.7	15.4	16.7	21.0	19.7	22.4	24.5	↑ 9.3	90.8
ETHYL ACETATE	575.1	564.3	564.3	411.5	440.6	473.4	453.1	445.4	438.3	439.6	484.9	↑ 2.4	85.9
MENTHOL	33.7	33.7	17.0	13.7	6.2	7.4	7.5	10.3	6.4	6.7	7.9	↓ -7.5	46.6
ORTHO NITRO TOLUENE	44.8	44.8	49.6	14.4	16.9	26.0	27.7	29.9	34.9	37.1	26.7	↑ 9.2	53.9
Total	2905.4	3076.2	2970.7	1798.9	1884.4	1846.6	1906.3	1953.0	1911.5	1982.7	2189.4	↑ 2.8	73.7
4. Pesticides and Insecticides													
D.D.T.	6.3	5.0	5.0	1.3	1.4	1.1	0.6	0.7	0.3	0.0	0.0	↓ -100.0	0.0
MALATHION	3.8	5.8	5.8	3.3	4.4	3.8	3.8	3.3	2.8	2.9	4.0	↑ 2.7	68.7
DIMETHOATE	1.5	1.5	1.5	1.2	1.3	1.4	1.5	1.4	1.0	1.0	1.4	↑ 2.7	98.5
D.D.V.P.	33.6	24.9	24.9	8.1	9.1	0.0	0.9	0.4	0.0	0.0	0.0	↓ -100.0	0.0

Major Groups / Products	Installed Capacity			Production								CAGR (%)	Capacity Utilization in 2023-24 (%)
	2022-23	2023-24	2024-25	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
QUINALPHOS	3.4	2.0	2.0	1.2	0.9	0.9	1.1	2.5	0.6	0.7	1.0	↓ -2.7	49.5
MONOCROTOPHOS	13.9	21.2	18.1	5.5	5.3	5.8	7.9	7.5	5.1	11.9	6.3	↑ 2.0	34.8
PHOSPHAMIDON	2.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	↓ -100.0	
PHORATE	6.6	0.0	0.0	7.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0	↓ -100.0	
ETHION	2.8	2.8	2.8	2.4	1.3	2.1	2.2	2.8	2.3	2.6	2.8	↑ 2.6	101.4
FENVALERATE	5.0	4.9	4.9	0.7	0.7	0.7	0.5	0.7	0.5	0.5	0.5	↓ -4.2	11.3
CYPERMETHRIN	26.8	44.8	44.7	8.2	11.0	10.9	12.3	16.5	10.9	8.6	10.8	↑ 3.9	24.1
ACEPHATE	20.5	51.3	51.3	18.3	19.6	21.1	29.6	29.6	33.4	37.4	25.0	↑ 4.6	48.7
CHLORPYRIPHOS	13.4	10.9	10.9	8.0	7.1	6.5	8.5	7.6	8.5	7.8	8.8	↑ 1.4	80.5
TRIAZOPHOS	3.4	1.0	1.0	1.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	↓ -100.0	0.0
TEMEPHOS	0.3	0.5	0.5	0.1	0.1	0.1	0.1	0.0	0.1	0.1	0.2	↑ 6.4	31.1
DELTAMETHRIN	1.0	1.1	1.0	0.6	0.7	0.7	0.6	0.7	0.7	0.6	0.8	↑ 5.3	83.2
ALPHAMETHRIN	0.6	0.6	0.7	0.3	0.3	0.4	0.5	0.5	0.5	0.2	0.2	↓ -3.7	37.1
PROFENOPOS TECHNICAL	17.4	19.6	20.5	9.9	12.5	12.4	16.1	16.2	16.1	15.1	18.0	↑ 8.9	87.8
PRETILACHLOR TECHNICAL	4.5	4.6	4.6	3.6	3.6	3.1	3.6	3.2	3.5	2.0	1.4	↓ -12.7	30.2
LAMBDA CYHALOTHRIN	3.8	10.9	10.9	1.1	0.6	2.3	1.7	2.7	3.1	2.0	1.8	↑ 6.7	16.5
PHENTHOATE	0.9	1.4	1.4	1.3	1.5	1.4	1.3	1.8	1.8	1.6	2.0	↑ 6.0	143.9
PERMETHRIN TECH	1.9	1.9	1.7	1.5	1.9	1.2	1.7	2.5	3.6	2.5	1.7	↑ 1.1	95.9
IMIDACLOPRID TECH	0.2	0.2	0.2	0.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	↓ -49.2	1.5
CAPTAN & CAPTAFOL	3.4	3.4	3.4	1.8	1.9	1.5	1.5	1.9	1.6	0.9	0.9	↓ -8.9	26.9
ZIRAM(THIO BARBAMATE)	0.7	0.3	0.3	0.7	0.8	0.6	0.9	0.7	0.6	0.7	0.8	↑ 2.3	269.3
CARBENDZIM(BAVISTIN)	0.8	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	↓ -100.0	0.0
MANCOZAB	121.8	132.0	132.0	70.2	69.3	60.9	97.4	118.7	83.6	107.4	119.8	↑ 7.9	90.8
HEXACONAZOLE	3.5	3.5	2.7	0.6	0.5	0.8	0.8	1.3	0.6	0.8	1.0	↑ 7.7	36.9
METCONAZOLE	0.5	0.5	0.5	0.4	0.3	0.2	0.2	0.2	0.3	0.3	0.1	↓ -13.9	28.0
2, 4-D	30.0	32.0	32.0	25.8	24.2	22.6	27.1	40.0	42.0	35.1	39.0	↑ 6.1	121.9
BUTACHLOR	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
ETHOFUMESATE TECHNICAL	2.0	2.0	1.2	1.3	1.0	0.8	0.4	0.7	0.9	0.8	0.5	↓ -13.6	40.1
THIAMETHOXAM TECHNICAL	6.3	5.8	5.4	3.3	5.6	6.2	5.2	6.6	6.4	5.1	3.7	↑ 1.6	68.3
PENDIMETHALIN	7.4	4.9	4.9	3.8	2.8	2.8	3.6	4.8	4.7	4.6	3.2	↓ -2.3	65.6
METRIBUZIN	3.8	3.8	3.8	0.9	1.9	2.6	3.2	2.0	2.3	2.0	3.2	↑ 19.9	82.1
TRICLOPYR ACID TECH	0.3	0.3	0.3	0.2	0.1	0.1	0.0	0.4	0.2	0.2	0.0	↓ -40.6	1.3
ISOPROTURON	6.0	6.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
GLYPHOSATE	12.9	9.6	8.4	6.3	6.7	5.9	6.1	5.7	4.7	4.9	6.4	↑ 0.2	75.9
DIURON	6.0	6.0	6.0	3.3	3.6	3.4	3.4	2.3	3.5	4.4	5.5	↑ 7.9	92.4
ATRAZIN	2.4	3.0	3.0	2.2	1.5	1.7	1.6	1.7	3.1	5.2	6.3	↑ 15.8	209.9
ZINC PHOSPHIDE	1.9	2.5	2.5	1.4	1.3	1.3	1.5	2.0	1.5	2.0	1.4	↓ -0.4	53.3
ALUMINIUM PHOSPHIDE	4.7	11.0	11.0	4.8	4.9	4.9	7.6	9.9	7.4	8.0	8.9	↑ 9.3	80.4
DICOFOL	0.2	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	↓ -100.0	
Total	388.6	443.7	437.9	212.7	216.7	192.1	255.1	299.3	258.1	280.1	287.3	↑ 4.4	65.6
5. Dyes and Pigments													
AZO DYES	18.9	17.7	18.1	11.0	9.0	8.5	6.6	9.1	7.6	6.5	6.0	↓ -8.3	33.2
ACID DIRECT DYES(OTHER THAN AZO)	46.0	46.0	46.0	21.2	24.1	22.7	20.2	24.0	21.2	24.8	22.5	↑ 0.9	48.9
DISPERSE DYES	92.3	90.4	90.4	46.7	55.2	61.9	51.8	65.9	60.4	65.4	68.8	↑ 5.7	76.1
INGRAIN DYES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
OIL SOLUBLE (SOLVENT DYES)	1.2	1.2	1.2	2.1	2.3	2.4	0.4	0.7	0.5	0.6	0.5	↓ -17.8	43.8

Major Groups / Products	Installed Capacity			Production								CAGR (%)	Capacity Utilization in 2023-24 (%)
	2022-23	2023-24	2024-25	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
OPTICAL WHITENING AGENTS	67.7	65.3	65.3	23.2	29.3	20.7	18.2	22.5	16.8	19.7	20.5	↓ -1.8	31.4
ORGANIC PIGMENT	89.0	102.7	101.7	73.3	73.9	75.1	67.3	74.3	55.6	53.9	49.7	↓ -5.4	48.8
PIGMENT EMULSION	3.8	10.8	11.0	10.2	9.8	9.7	8.6	9.3	8.3	9.1	9.1	↓ -1.5	83.0
REACTIVE DYES	216.5	221.2	278.0	151.9	151.4	156.7	132.1	161.9	117.2	136.6	163.7	↑ 1.1	58.9
SULPHUR DYES (SULPHUR BLACK)	13.2	13.2	13.2	7.3	7.5	7.4	5.1	8.6	10.7	7.9	8.4	↑ 2.0	63.5
VAT DYES	3.3	3.3	3.3	1.7	1.8	2.1	2.0	2.3	2.4	1.7	2.2	↑ 4.0	65.0
SOLUBILISED VAT DYES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	↓ -100.0	
FOOD COLOURS	0.0	0.0	0.0	0.8	0.8	0.7	0.5	0.7	0.9	0.8	0.8	↑ 1.1	
NAPTHOLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
INORGANIC PIGMENTS	18.1	18.7	18.7	17.9	16.3	16.1	14.6	18.6	16.4	17.7	20.1	↑ 1.7	107.7
Total	570.0	590.4	646.9	367.2	381.5	384.2	327.5	398.0	318.1	344.7	372.3	↑ 0.2	57.6
Total (All Groups)	16538.2	17020.9	17649.1	11068.6	11589.1	11943.2	11243.1	12743.1	13038.8	12979.0	13983.4	↑ 3.4	79.2

Note: Production and Installed Capacity data based on MPRs received from manufacturer under large and medium scale units only monitored by S&M Division of DCPC.

Table 4: Installed Capacity of Selected Chemicals (Group-wise) during FY 2017-18 to FY 2024-25*(Figures in 000'MT)*

Groups	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. Alkali Chemicals	9274	9422	10089	10473	10889	11100	11260	11943
2. Inorganic Chemicals	1315	1300	1538	1560	1575	1575	1650	1650
3. Organic Chemicals	2535	2575	2671	2716	2800	2905	3076	2971
4. Pesticides (Tech.)	325	324	334	371	380	389	444	438
5. Dyes & Pigments	478	492	528	532	533	570	590	647
Total Major Chemicals	13927	14112	15160	15652	16178	16538	17021	17649

Note: Installed Capacity data based on MPRs received from manufacturer of chemicals under large and medium scale units only monitored by S&M Division of DCPC.

Table 5: Consumption of Selected Major Chemicals (Product-wise) during FY 2017-18 to FY 2024-25

(Figures in 000'MT)

Products	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Alkali Chemicals								
SODA ASH	3652.1	3826.3	3779.4	3208.1	3391.4	3592.9	3594.7	4008.1
CAUSTIC SODA	3004.0	2961.5	3258.8	2936.8	3323.0	3282.1	3374.1	3516.1
LIQUID CHLORINE	1895.7	2064.7	2246.3	2170.5	2495.2	2663.2	2634.8	2726.8
Total	8551.8	8852.5	9284.5	8315.4	9209.6	9538.2	9603.6	10250.9
Inorganic Chemicals								
ALUMINIUM FLUORIDE	57.1	67.6	44.1	62.9	82.3	59.6	58.1	77.2
CALCIUM CARBIDE	142.5	128.2	112.2	119.3	119.8	104.8	104.9	107.6
CARBON BLACK	594.3	702.1	553.6	436.5	408.9	349.2	321.9	301.4
POTASSIUM CHLORATE	-1.6	-2.2	13.1	15.4	15.7	11.5	14.1	14.7
SODIUM CHLORATE	7.7	13.4	24.1	29.5	37.8	45.0	41.8	41.6
TITANIUM DIOXIDE	62.0	64.3	59.7	58.1	66.0	60.4	66.8	65.0
RED PHOSPHORUS	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.4
HYDROGEN PEROXIDE	225.4	240.5	174.8	159.2	171.3	173.9	196.1	189.8
POTASSIUM IODATE	0.0	0.0	0.6	0.5	0.6	0.5	0.5	0.5
CALCIUM CARBONATE	1026.5	1252.3	1416.9	1088.9	1221.2	1267.3	857.2	827.2
Total	2114.3	2466.6	2399.3	1970.8	2124.1	2072.8	1662.1	1625.4
Organic Chemicals								
ACETIC ACID	1029.4	1073.3	1081.6	1048.4	1199.2	1255.0	1258.8	1305.3
ACETIC ANHYDRIDE	81.8	89.3	74.1	69.9	78.6	75.9	43.8	40.7
ACETONE	174.7	146.6	97.7	92.9	133.2	130.9	131.3	145.2
PHENOL	337.3	292.5	179.6	179.2	220.7	256.8	261.1	277.7
METHANOL	2034.3	2247.7	2449.4	2445.5	2547.0	2843.7	3200.2	3177.8
FORMALDEHYDE	237.7	214.1	246.3	229.4	276.6	284.8	286.7	328.8
NITROBENZENE	86.7	86.9	76.5	85.9	90.5	68.2	82.3	106.9
CITRIC ACID	81.9	93.0	88.5	92.7	94.4	128.3	110.9	134.3
MALEIC ANHYDRIDE	55.7	74.4	71.8	64.9	80.7	89.2	93.2	106.4
PENTAERYTHRITOL	30.0	31.1	33.9	23.9	30.1	30.7	36.2	31.2
ANILINE	107.1	126.2	106.3	106.2	131.7	123.5	179.1	238.5
CHLORO METHANES	222.9	286.9	299.3	329.4	342.6	412.9	386.8	403.8
ISOBUTYLBENZENE	-3.4	-2.0	-0.3	-3.4	0.0	-4.7	-1.1	-1.3
ONCB	24.9	23.7	19.8	23.3	26.7	27.1	25.4	29.6
PNCB	37.8	36.1	31.9	38.9	43.7	46.2	42.6	51.5
MEK	51.7	53.7	35.1	50.5	51.2	57.4	48.4	55.6
ACETALDEHYDE	65.8	60.8	76.1	55.0	71.7	77.7	64.1	84.0
ETHANOLAMINES	24.5	30.2	30.4	33.0	36.5	32.9	41.9	43.7
ETHYL ACETATE	306.0	324.8	367.2	344.5	330.3	345.5	367.3	380.3
MENTHOL	2.3	-5.8	-6.6	-8.0	-5.4	-2.1	6.0	7.9
ORTHO NITRO TOLUENE	12.0	12.7	18.8	24.0	23.1	28.7	34.6	22.9
Total	5001.0	5296.1	5377.4	5326.1	5802.8	6308.6	6699.6	6970.9

Note: 1. Production and Installed Capacity data based on MPRs received from manufacturer of chemicals under large and medium scale units only monitored by S&M Division of DCPC.

2. Data Source in respect of Imports and Exports is DGCIS, Kolkata, M/o Commerce and Industry.

3. Consumption is derived as Production + Imports - Exports

Table 5A: Consumption of Chemical Pesticides in various States/UTs during FY 2020-21 to FY 2024-25

(Figures in MT)

S. No.	States/UTs	2020-21	2021-22	2022-23	2023-24	2024-25
1	Andhra Pradesh	1559	1759	2200	1940	1661
2	Bihar	995	850	1020	1020	1250
3	Chhattisgarh	1639	1740	1775	1781	1786
4	Goa	30	32	34	31	36
5	Gujarat	1573	1869	1747	1835	1811
6	Haryana	4050	4066	4066	4047	4066
7	Himachal Pradesh	56	279	470	277	226
8	Jharkhand	1161	450	507	455	1337
9	Karnataka	1930	2224	1875	1830	1890
10	Kerala	585	532	540	643	586
11	Madhya Pradesh	691	654	598	584	700
12	Maharashtra	13243	13175	6814	8719	8266
13	Orissa	1158	1240	1348	1144	1144
14	Punjab	5193	5376	5130	5216	5110
15	Rajasthan	2330	2104	1865	1898	1939
16	Tamil Nadu	1834	1851	1922	1970	2000
17	Telangana	4986	4920	4920	4831	6251
18	Uttar Pradesh	11557	11688	11824	13275	13559
19	Uttarakhand	135	213	200	147	95
20	West Bengal	3630	3630	3762	4081	4455
Sub Total		58336	58653	52617	55725	58168
North-Eastern States						
21	Arunachal Pradesh	2	1	3	NR	NR
22	Assam	420	474	543	562	500
23	Manipur	46	NR	27	17	28
24	Meghalaya	NR	NR	14	NR	0
25	Mizoram	NR	29	36	50	32
26	Nagaland	36	41	NR	26	22
27	Sikkim	Organic State	Organic State	Organic State	Organic State	Organic State
28	Tripura	NR	NR	NR	51	81
Sub Total		503	545	622	705	664
Union Territories						
29	Andaman & Nicobar	1	NR	NR	NR	NR
30	Chandigarh	NR	NR	NR	NR	NR
31	Dadra & Nagar Haveli & Daman & Diu	NR	NR	NR	NR	NR
32	Delhi	NR	NR	NR	NR	NR
33	Jammu & Kashmir	10086	10692	11267	11458	8390
34	Ladakh	NR	NR	NR	NR	NR
35	Lakshadweep	NR	NR	NR	NR	NR
36	Pondicherry	NR	NR	NR	76	0
Sub Total		10087	10692	11267	11534	8390
Grand Total		68926	69890	64506	67965	67221

Source: Directorate of Plant Protection, Quarantine & Storage, Department of Agriculture & Farmers Welfare, Ministry of Agriculture & Farmers Welfare (<https://ppqs.gov.in/statistical-database>)

NR- Not reported

Section - II

Petrochemical Sector

Table 6: Performance of Selected Major Petrochemicals (Group-wise) during FY 2017-18 to FY 2024-25 at a Glance

(Figures in 000'MT)

Groups	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Trend Line	CAGR (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1. Synthetic Fibre										
Capacity	4379	4440	4521	4529	4483	4496	4498	4504		↑ 0.4
Production	3625	3601	3893	3185	4040	3973	3853	4137		↑ 1.9
Capacity Utilisation (%)	82.8	81.1	86.1	70.3	90.1	88.4	85.7	91.9		
Imports	260	276	347	403	460	670	611	398		↑ 6.3
Exports	1001	1016	1059	879	1202	759	683	806		↓ -3.0
2. Polymers										
Capacity	10112	10115	12754	12799	12820	12894	12950	12952		↑ 3.6
Production	9276	10040	12404	12144	12471	11487	12548	13367		↑ 5.4
Capacity Utilisation (%)	91.7	99.3	97.3	94.9	97.3	89.1	96.9	103.2		
Imports	4751	4479	3430	2641	2941	4789	5313	4191		↓ -1.8
Exports	1188	1934	1615	1489	921	586	705	743		↓ -6.5
3. Synthetic Rubber										
Capacity	425	425	411	406	400	402	403	403		↓ -0.8
Production	308	351	358	353	383	345	395	411		↑ 4.2
Capacity Utilisation (%)	72.3	82.5	87.1	87.1	95.7	85.9	97.8	102.0		
Imports	608	619	575	747	635	673	724	829		↑ 4.5
Exports	52	64	74	95	90	70	92	111		↑ 11.5
4. Synthetic Detergent Intermediates										
Capacity	687	687	680	680	680	680	722	722		↑ 0.7
Production	743	687	715	736	780	703	808	823		↑ 1.5
Capacity Utilisation (%)	108.1	100.0	105.1	108.3	114.8	103.4	112.0	114.0		
Imports	206	227	264	265	278	343	252	287		↑ 4.9
Exports	1	1	1	2	7	3	4	3		↑ 12.2
5. Performance Plastics										
Capacity	2947	2963	2919	3046	3032	3096	3060	3060		↑ 0.5
Production	1719	1589	1672	1520	1698	1628	1425	1904		↑ 1.5
Capacity Utilisation (%)	58.3	53.6	57.3	49.9	56.0	52.6	46.6	62.2		
Imports	583	684	741	299	283	292	418	427		↓ -4.4
Exports	1051	1080	969	217	284	182	157	142		↓ -24.9
Total:- Major Petrochemicals (1 to 5)										
Capacity	18551	18630	21286	21460	21415	21567	21633	21640		↑ 2.2
Production	15670	16269	19041	17938	19371	18135	19028	20643		↑ 4.0
Capacity Utilisation (%)	84.5	87.3	89.5	83.6	90.5	84.1	88.0	95.4		
Imports	6408	6284	5356	4356	4597	6768	7317	6133		↓ -0.6
Exports	3293	4095	3719	2681	2505	1600	1642	1806		↓ -8.2

Note : 1. Production and Installed Capacity data based on MPRs received from manufacturer under large and medium scale units only monitored by S&M Division of DCPC.

2. Data Source in respect of imports and exports is DGCIS, Kolkata, M/o Commerce and Industry.

Table 6A: Projection of Production, Installed Capacity, Export and Import of Selected Basic Major Petrochemicals (Group-wise) during FY 2025-26 to FY 2030-31

(Figures in 000'MT)

Groups	Actual Values						Forcast values					
	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. Synthetic Fibre												
Capacity	4521	4529	4483	4496	4498	4504	4488	4486	4492	4487	4483	4480
Production	3893	3185	4040	3973	3853	4137	4163	4398	4358	4506	4652	4725
Capacity Utilisation (%)	86.1	70.3	90.1	88.4	85.7	85.7	92.7	98.0	97.0	100.4	103.8	105.5
Imports	347	403	460	670	611	398	590	591	573	537	566	609
Exports	1059	879	1202	759	683	806	669	602	472	484	412	309
2. Polymers												
Capacity	12754	12799	12820	12894	12950	12952	13013	13057	13102	13137	13178	13227
Production	12404	12144	12471	11487	12548	13367	12908	13245	13566	14056	14129	14303
Capacity Utilisation (%)	97.3	94.9	97.3	89.1	96.9	96.9	99.2	101.4	103.5	107.0	107.2	108.1
Imports	3430	2641	2941	4789	5313	4191	5251	5920	6250	6305	6719	7385
Exports	1615	1489	921	586	705	743	305	159	108	-12	-229	-408
3. Synthetic Rubber												
Capacity	411	406	400	402	403	403	400	401	401	400	399	399
Production	358	353	383	345	395	411	409	424	436	458	463	475
Capacity Utilisation (%)	87.0	87.0	95.8	85.9	97.8	97.8	102.4	105.9	108.8	114.4	116.0	119.2
Imports	575	747	635	673	724	829	821	839	911	952	986	1014
Exports	74	95	90	70	92	111	105	107	117	128	130	133
4. Synthetic Detergent Intermediates												
Capacity	680	680	680	680	722	722	727	742	758	771	777	792
Production	715	736	780	703	808	823	829	850	873	912	918	942
Capacity Utilisation (%)	105.2	108.3	114.7	103.4	112	112	114.0	114.5	115.2	118.4	118.2	119.0
Imports	264	265	278	343	252	287	296	296	290	281	299	293
Exports	1	2	7	3	4	3	4	4	3	4	4	4
5. Performance Plastics												
Capacity	2919	3046	3032	3096	3060	3060	3116	3108	3123	3127	3151	3164
Production	1672	1520	1698	1628	1425	1904	1721	1792	1817	1901	1979	1946
Capacity Utilisation (%)	57.3	49.9	56.0	52.6	46.6	46.6	55.2	57.6	58.2	60.8	62.8	61.5
Imports	741	299	283	292	418	427	289	386	401	400	379	391
Exports	969	217	284	182	157	142	-117	-68	-170	-248	-342	-425
Total:- Major Petrochemicals (1 to 5)												
Capacity	21286	21460	21415	21567	21633	21640	21745	21793	21875	21922	21988	22062
Production	19041	17938	19371	18135	19028	20643	20030	20708	21051	21833	22142	22392
Capacity Utilisation (%)	89.5	83.6	90.5	84.1	88.0	95.4	92.1	95.0	96.2	99.6	100.7	101.5
Imports	5356	4356	4597	6768	7317	6133	7248	8031	8425	8475	8950	9693
Exports	3719	2681	2505	1600	1642	1806	967	804	530	354	-26	-387

Note: 1. Production and Installed Capacity data based on MPRs received from manufacturer under large and medium scale units only monitored by S&M Division of DCPC.

2. Data Source in respect of imports and exports is DGCIS, Kolkata, M/o Commerce and Industry.

3. Projected figures have been calculated by using Forecast formula in MS Excel.

Table 7: Production, Installed Capacity & Growth Rate of Selected Basic Major Petrochemicals (Group-wise) during FY 2017-18 to FY 2024-25

(Figures in 000' MT)

Groups	Installed Capacity			Production / Growth Rate	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
	2022-23	2023-24	2024-25									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1. Synthetic Fibre	4496	4498	4504	Production	3625	3601	3893	3185	4040	3973	3853	4137
				Growth Rate (%)	0.7	-0.7	8.1	-18.2	26.9	-1.7	-3.0	7.4
2. Polymers	12894	12950	12952	Production	9276	10040	12404	12144	12471	11487	12548	13367
				Growth Rate (%)	1.2	8.2	23.5	-2.1	2.7	-7.9	9.2	6.5
3. Synthetic Rubber	402	403	403	Production	308	351	358	353	383	345	395	411
				Growth Rate (%)	8.0	14.0	2.1	-1.3	8.3	-9.9	14.4	4.2
4. Synthetic Detergent Intermediates	680	722	722	Production	743	687	715	736	780	703	808	823
				Growth Rate (%)	11.9	-7.5	4.0	3.0	6.0	-9.9	15.0	1.8
5. Performance Plastics	3096	3060	3060	Production	1719	1589	1672	1520	1698	1628	1425	1904
				Growth Rate (%)	-4.5	-7.6	5.2	-9.1	11.7	-4.1	-12.5	33.6
Total:- Major Petrochemicals	21567	21633	21640	Production	15670	16269	19041	17938	19371	18135	19028	20643
				Growth Rate %)	1.0	3.8	17.0	-5.8	8.0	-6.4	4.9	8.5

Note : Production and Installed Capacity data based on MPRs received from manufacturer under large and medium scale units only monitored by S&M Division of DCPC.

Table 8: Production, Capacity Utilization & Growth of Selected Major Petrochemicals (Product-Wise) during FY 2017-18 to FY 2024-25

(Figures in 000'MT)

Major Groups / Products	Installed Capacity			Production								CAGR (%)	Capacity Utilisation in 2024-25 (%)
	2022-23	2023-24	2024-25	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
A : BASIC MAJOR PETROCHEMICALS													
I : Synthetic Fibres / Yarn													
ACRYLIC FIBRE (AF)	108.0	108.0	108.0	91.0	99.5	102.9	77.0	66.7	96.2	76.2	69.3	↓ -3.8	64.2
POLYESTER STAPLE FIBREFILL	69.0	69.0	69.0	51.3	53.0	49.9	40.3	39.0	34.1	35.0	36.1	↓ -4.9	52.3
NYLON FILAMENT YARN	66.6	64.7	64.7	40.0	46.6	48.3	33.3	46.2	44.1	38.7	39.2	↓ -0.3	60.6
NYLON INDUSTRIAL YARN/TYRE CORD	165.7	176.8	176.8	107.6	109.5	99.7	90.3	115.5	100.6	113.3	119.9	↑ 1.6	67.8
POLYESTER FILAMENT YARN	2661.1	2655.3	2655.3	2283.4	2316.4	2520.3	1997.9	2560.8	2486.5	2507.8	2744.7	↑ 2.7	103.4
POLYESTER STAPLE FIBRE	1350.5	1340.7	1340.7	1005.3	931.4	1027.5	909.4	1160.5	1161.0	1025.3	1063.2	↑ 0.8	79.3
POLYPROPYLENE FILAMENT YARN	3.6	3.6	3.6	3.1	2.4	2.5	2.2	2.8	1.9	1.9	2.0	↓ -6.0	56.5
POLYPROPYLENE STAPLE FIBRE	29.7	29.7	29.7	22.2	20.7	18.8	15.3	21.2	22.2	22.4	23.3	↑ 0.6	78.2
POLYESTER INDUSTRIAL YARN	21.5	21.5	27.4	15.0	14.8	14.7	12.4	14.4	13.6	14.6	19.7	↑ 3.9	71.9
Elastomeric/Spandex Filament Yarn	20.0	28.5	28.5	6.2	7.1	8.1	6.6	12.9	12.3	17.3	20.0	↑ 18.3	70.3
Group Total	4495.7	4497.8	4503.7	3625.2	3601.5	3892.8	3184.6	4040.0	3972.5	3852.5	4137.5	↑ 1.9	91.9
II : Polymers													
LINEAR LOW DENSITY POLYETHYLENE (LLDPE)				1290.0	1581.2	2994.0	2958.9	2914.1	2424.4	2750.0	3046.1	↑ 13.1	
HIGH DENSITY POLYETHYLENE (HDPE)				1578.4	1597.7	1897.6	1910.0	1915.8	1717.9	1961.5	1856.2	↑ 2.3	
LLDPE/HDPE (Combined) (\$)	5158.1	5158.1	5158.1	2868.4	3178.9	4891.6	4869.0	4829.9	4142.3	4711.4	4902.3	↑ 8.0	95.0
LOW DENSITY POLYETHYLENE (LDPE)	610.0	610.0	610.0	185.7	193.1	613.3	616.6	583.0	625.1	581.7	617.4	↑ 18.7	101.2
POLYSTYRENE (PS)	499.0	499.0	499.0	301.6	292.9	291.7	217.4	247.9	271.7	292.9	341.6	↑ 1.8	68.5
POLYPROPYLENE (PP)	4933.8	4933.8	4933.8	4350.2	4779.0	4982.8	4919.1	5240.7	4773.5	5371.2	5873.6	↑ 4.4	119.0
EXPANDABLE POLYSTYRENE (EXPS)	193.0	199.0	199.0	103.9	108.3	110.7	87.4	97.2	108.4	118.3	118.8	↑ 1.9	59.7
POLY VINYL CHLORIDE (PVC)	1500.0	1550.0	1552.0	1466.1	1488.4	1513.6	1434.1	1471.9	1565.6	1472.4	1513.5	↑ 0.5	97.5
Group Total	12893.9	12949.9	12951.9	9275.9	10040.5	12403.7	12143.6	12470.7	11486.6	12547.9	13367.2	↑ 5.4	103.2
III : Synthetic Rubber													
STYRENE BUTADIENE RUBBER (SBR)	271.0	271.0	271.0	194.0	228.6	227.8	212.9	237.5	205.4	245.5	259.3	↑ 4.2	95.7
POLY BUTADIENE RUBBER (PBR)	100.0	100.0	100.0	113.6	122.2	130.3	128.5	132.8	126.1	134.7	137.5	↑ 2.8	137.5
ETHYL VINYL ACETATE (EVA)	15.0	15.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
NITRILE BUTADIENE RUBBER (NBR)	15.5	17.4	17.4	0.1	0.0	0.0	11.9	12.3	13.4	14.5	14.5	↑ 124.7	83.2
Group Total	401.5	403.4	403.4	307.7	350.9	358.1	353.3	382.6	344.9	394.7	411.3	↑ 4.2	102.0
IV : Synthetic Detergent Intermediates													
LINEAR ALKYL BENZENE (LAB)	544.8	586.8	586.8	451.5	454.8	413.5	457.1	462.3	413.2	479.0	467.0	↑ 0.5	79.6
ETHYLENE OXIDE (EO)	135.0	135.0	135.0	291.3	232.3	301.2	279.4	318.1	289.9	329.4	356.1	↑ 2.9	263.8
Group Total	679.8	721.8	721.8	742.8	687.2	714.7	736.4	780.4	703.0	808.4	823.1	↑ 1.5	114.0
V : Performance Plastic													
ABS RESINS	199.0	203.0	203.0	145.2	148.2	136.5	121.9	122.8	148.9	167.4	176.5	↑ 2.8	87.0
NYLON-6/ NYLON 6,6*	83.5	83.5	83.5	20.6	21.5	41.6	55.4	68.3	68.7	65.2	64.8	↑ 17.8	77.7
POLYMETHYL METHACRYLATE (PMMA)	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	↓ -100.0	

Major Groups / Products	Installed Capacity			Production								CAGR (%)	Capacity Utilisation in 2024-25 (%)
	2022-23	2023-24	2024-25	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
STYRENE ACRYLONITRILE (SAN)	167.0	167.0	167.0	114.7	131.8	133.8	118.6	121.7	139.1	128.9	140.5	↑ 2.9	84.1
PET Chips/Polyester Chips	2622.6	2586.3	2586.3	1424.6	1271.1	1344.7	1209.0	1365.9	1254.3	1048.9	1505.8	↑ 0.8	58.2
PTFE (TEFLON)	20.3	20.3	19.8	13.7	16.2	15.1	14.6	18.9	17.3	14.2	16.0	↑ 2.2	80.6
Group Total	3096.3	3060.1	3059.6	1718.8	1588.8	1671.6	1519.6	1697.7	1628.4	1424.6	1903.6	↑ 1.5	62.2
Total:- Major Petrochemicals (I+II+III+IV+V)	21567.2	21633.0	21640.4	15670.3	16268.8	19040.9	17937.6	19371.4	18135.4	19028.1	20642.6	4.0	95.4
B : INTERMEDIATES													
I : Fibre Intermediates													
ACRYLONITRILE (ACN)	24.0	24.0	24.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.7		32.2
CAPROLACTUM	120.0	120.0	120.0	86.0	92.6	84.1	80.4	108.2	129.6	114.6	81.8	↓ -0.7	68.2
MONO ETHYLENE GLYCOL (MEG)	2210.6	2335.6	2335.6	1132.7	1159.8	2007.8	1982.0	1990.2	1656.2	1683.7	1935.3	↑ 8.0	82.9
PURIFIED TEREPHTHALIC ACID (PTA)	3873.0	4020.0	4020.0	3492.4	3404.9	3267.1	2996.8	3383.3	3202.2	3158.0	3415.3	↓ -0.3	85.0
Group Total	6227.6	6499.6	6499.6	4711.1	4657.2	5358.9	5059.1	5481.7	4988.0	4956.3	5440.2	↑ 2.1	83.7
II : Building Blocks													
(a) Olefins													
BUTADIENE	552.0	552.0	552.0	332.4	385.8	481.0	458.8	477.4	429.4	509.0	522.2	↑ 6.7	94.6
ETHYLENE	7147.3	7147.3	7147.3	4222.7	3831.9	6466.8	6364.9	6414.5	5802.6	6058.0	6389.7	↑ 6.1	89.4
PROPYLENE	5190.4	6180.7	6204.5	4457.9	4639.5	4887.6	5215.8	5635.1	5064.0	5834.0	6372.0	↑ 5.2	102.7
Group Total	12889.7	13880.0	13903.8	9013.0	8857.2	11835.4	12039.4	12527.0	11296.0	12401.0	13283.8	↑ 5.7	95.5
(b) Aromatics													
BENZENE	1884.3	1943.0	1941.8	1318.0	1414.6	1346.2	1407.9	1427.6	1156.6	1291.9	1284.2	↓ -0.4	66.1
MIXED XYLENE	898.3	898.3	898.3	271.4	249.1	269.6	146.7	160.9	45.4	53.0	68.9	↓ -17.8	7.7
ORTHOXYLENE	511.0	511.0	511.0	447.8	406.3	386.4	522.1	511.2	408.4	343.2	207.1	↓ -10.4	40.5
TOLUENE	288.3	288.3	289.7	106.9	141.1	140.2	114.0	115.7	112.5	131.7	141.6	↑ 4.1	48.9
PARAXYLENE (PX)	3821.7	3919.7	3919.7	3194.5	3331.8	2782.3	2614.2	2461.9	1638.9	1417.3	993.9	↓ -15.4	25.4
Group Total	7403.6	7560.3	7560.5	5338.6	5542.9	4924.7	4804.9	4677.2	3361.8	3237.2	2695.8	↓ -9.3	35.7
Total:-Intermidates (I+II(a)+II(b))	26520.9	27939.9	27963.9	19062.6	19057.3	22119.0	21903.5	22685.9	19645.9	20594.5	21419.7	↑ 1.7	76.6
C : OTHER PETRO-BASED CHEMICALS													
DIETHYLENE GLYCOL	170.9	187.1	187.1	105.7	107.4	167.7	172.3	173.7	141.8	147.3	172.0	↑ 7.2	91.9
DIACETONE ALCOHOL	9.5	9.5	0.0	0.2	4.1	6.0	2.9	5.7	3.2	0.0	0.0		
ETHYLENE DICHLORIDE	593.2	569.0	569.0	282.3	339.2	345.3	326.2	367.0	398.6	380.2	392.1	↑ 4.8	68.9
BUTANOL	176.0	176.0	176.0	17.4	21.7	16.4	20.3	38.3	42.4	41.9	51.4	↑ 16.7	29.2
2-ETHYL HEXANOL	110.2	110.2	110.2	56.6	58.9	48.7	49.7	91.3	90.2	101.5	88.5	↑ 6.6	80.3
VINYL CHLORIDE MONOMER	541.3	572.3	572.3	778.0	803.6	874.5	799.2	813.1	849.3	792.3	821.0	↑ 0.8	143.5
PBT*	0.0	0.0	0.0	0.6	1.3	6.2	6.1	7.5	7.9	7.6	7.7	↑ 44.9	
POLYCARBONATE*	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	↓ -100.0	
PROPYLENE OXIDE	51.0	51.0	51.0	36.0	35.1	34.6	44.4	49.9	49.2	45.2	33.5	↓ -1.0	65.6
PROPYLENE GLYCOL	22.0	22.0	22.0	17.6	19.1	19.5	19.7	20.5	21.3	21.2	21.2	↑ 2.7	96.6
POLYVINYL ACETATE RESIN	12.0	12.0	12.0	0.0	0.0	0.0	3.0	7.3	9.5	15.6	10.8		89.8
UNSATURATED POLYESTER RESIN	34.0	34.0	34.0	0.0	0.0	16.4	12.9	16.5	19.0	25.0	22.4		65.9

Major Groups / Products	Installed Capacity			Production								CAGR (%)	Capacity Utilisation in 2024-25 (%)
	2022-23	2023-24	2024-25	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
METHYL METHACRYLATE	4.4	4.4	4.4	2.8	4.0	1.7	0.0	0.0	0.0	0.0	0.0	↓ -100.0	0.0
ISO-BUTANOL	9.8	9.8	9.8	2.2	2.2	1.7	2.1	4.0	5.8	5.8	5.3	↑ 13.2	54.1
C4-RAFFINATE	291.6	291.6	291.6	339.2	380.3	413.3	433.4	444.6	393.5	448.5	440.6	↑ 3.8	151.1
PHTHALIC ANHYDRIDE	401.9	401.9	415.1	290.0	275.1	269.6	293.0	339.6	330.2	342.3	347.6	↑ 2.6	83.7
VINYL ACETATE MONOMER	30.0	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
ISOPROPANOL	70.2	70.2	70.2	71.8	58.3	60.5	55.3	65.1	48.8	60.5	61.8	↓ -2.1	88.1
POLYOL	163.0	163.0	164.4	79.4	82.1	81.8	77.8	87.2	99.8	103.1	95.8	↑ 2.7	58.3
Group Total	2691.0	2714.0	2689.1	2080.1	2192.5	2364.2	2318.3	2531.3	2510.6	2538.0	2571.7	↑ 3.1	95.6
Total:- Major Petrochemical (9 Groups)	50779.1	52286.9	52293.4	36813.1	37518.5	43524.1	42159.4	44588.5	40291.9	42160.5	44634.0	↑ 2.8	85.4

Note : 1. Production and Installed Capacity data based on MPRs received from manufacturer under large and medium scale units only monitored by S&M Division of DCPC.

\$: Combined capacity to produce both LLDPE and HDPE. However, production is independent.

* Nylon 6, 6 has combined Installed Capacity that includes the capacity of PBT and Polycarbonate also.

Table 9: Installed Capacity of Selected Major Petrochemicals (Group-wise) during FY 2017-18 to FY 2024-25

(Figures in 000'MT)

Groups	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
A : BASIC PETROCHEMICALS								
I : SYNTHETIC FIBRES	4379	4440	4521	4529	4483	4496	4498	4504
II : POLYMERS	10112	10115	12754	12799	12820	12894	12950	12952
III : SYNTHETIC RUBBER (ELASTOMERS)	425	425	411	406	400	402	403	403
IV : SYNTH. DETERGENT INTERMEDIATE	687	687	680	680	680	680	722	722
V : PERFORMANCE PLASTICS	2947	2963	2919	3046	3032	3096	3060	3060
TOTAL:-MAJOR PETROCHEMICALS (I TO V)	18551	18630	21286	21460	21415	21567	21633	21640
B : INTERMEDIATES								
VI : FIBRE INTERMEDIATES	5187	5187	5885	6228	6228	6228	6500	6500
VII : OLEFINS	9683	9683	12890	12890	12890	12890	13880	13904
VIII : AROMATICS	6305	6305	6460	7404	7404	7404	7560	7561
TOTAL:- INTERMEDIATES (VI TO VIII)	21175	21175	25234	26521	26521	26521	27940	27964
C : OTHER PETRO-BASED CHEMICALS	2271	2271	2413	2458	2677	2691	2714	2689
Total (A+B+C)	41998	42077	48933	50439	50612	50779	52287	52293

Note: Installed Capacity data based on MPRs received from manufacturer under large and medium scale units only monitored by S&M Division of DCPC.

Table 10: Consumption of Selected Major Petrochemicals (Product-wise) during FY 2017-18 to FY 2024-25

(Figures in 000'MT)

Groups / Products	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1. SYNTHETIC FIBRE								
ACRYLIC FIBRE	83.9	94.0	118.7	93.4	78.1	93.6	71.2	69.0
POLYESTER STAPLE FIBREFILL	51.3	53.0	49.9	40.3	39.0	34.1	35.0	36.1
NYLON FILAMENT YARN	58.7	64.1	65.0	44.2	62.1	74.1	58.2	76.2
NYLON INDUSTRIAL YARN/TYRE CORD	112.5	115.8	103.0	95.5	121.6	102.7	108.6	113.5
POLYESTER FILAMENT YARN	1648.5	1703.7	1924.2	1696.0	2094.0	2502.1	2583.1	2517.1
POLYESTER STAPLE FIBRE	866.8	767.8	860.5	702.3	855.1	1029.1	872.9	857.8
POLYPROPYLENE FILAMENT YARN	3.6	3.2	2.5	2.2	2.3	1.1	1.0	1.2
POLYPROPYLENE STAPLE FIBRE	16.0	16.2	12.1	9.3	13.3	14.8	19.6	17.8
POLYSTER INDUSTRIAL YARN	15.0	14.8	14.7	12.4	14.4	13.6	14.6	19.7
Elastomeric/Spandex Filament Yarn	27.2	28.9	29.4	13.9	18.1	18.5	15.7	20.6
Total	2883.8	2861.4	3180.0	2709.3	3298.1	3883.8	3779.8	3728.9
2. POLYMERS								
LOW DENSITY POLYETHYLENE	542.0	370.0	825.6	833.5	756.3	830.9	823.1	885.4
HIGH DENSITY POLYTHYLENE	2365.7	2042.5	2198.6	2321.9	2544.9	3276.3	3838.6	2986.4
POLYSTYRENE	284.6	285.2	296.5	250.9	269.1	345.2	341.6	394.8
POLYPROPYLENE (INC. CO-POLYMER)	4737.2	4915.8	5438.4	4911.8	5831.0	6123.0	6740.7	7055.3
EXPANDABLE POLYSTYRENE	103.4	106.4	109.0	91.2	101.8	107.8	117.0	116.3
POLY VINYL CHLORIDE	3305.7	3523.8	2439.9	1836.4	1929.7	2155.2	2158.7	2182.4
LINEAR LOW DENSITY POLYTHYLENE	1486.2	1349.4	2910.4	3050.9	3070.8	2860.7	3136.1	3194.7
PVC COMPOUND	14.3	-7.7	0.0	0.0	-12.5	-9.5	-0.2	0.0
Total	12839	12585	14218	13296	14491	15690	17156	16815
3. SYNTHETIC RUBBER								
STYRENE BUTADIENE RUBBER	286.3	305.5	285.6	325.5	371.4	335.1	377.3	412.0
POLY BUTADIENE RUBBER	201.4	213.7	207.6	220.2	220.3	258.4	254.7	287.0
ETHYL PROPYLENE DIMERS	42.6	50.3	43.2	40.4	47.5	53.5	64.9	66.9
ETHYL VINYL ACETATE	182.4	178.2	192.7	188.5	180.6	201.3	233.6	295.1
NITRILE BUTADIENE RUBBER	39.9	38.0	40.5	166.6	43.7	51.7	53.9	35.8
BUTYL RUBBER	111.0	120.1	89.3	64.3	64.4	47.9	41.7	32.9
Total	863.6	905.8	858.9	1005.6	927.8	947.9	1026.0	1129.6
4. SYNTHETIC DETERGENT INTERMEDIATES								
LINEAR ALKYL BENZENE	656.5	681.6	677.3	721.5	733.6	754.7	728.0	752.5
ETHYLENE OXIDE	290.9	231.6	300.4	278.4	317.1	288.7	328.2	354.9
Total	947.4	913.2	977.7	1000.0	1050.7	1043.4	1056.2	1107.3
5. PERFORMANCE PLASTICS								
ABS RESIN	243.0	267.1	240.8	220.4	233.8	263.7	295.4	332.2
NYLON-6	174.1	216.5	237.0	55.4	68.3	68.7	65.2	64.8
POLYMETHYL METHACRYLATE	26.5	25.2	24.7	28.5	21.8	29.8	32.3	37.6
STYRENE ACRYLONITRILE	122.9	140.6	143.8	131.7	141.4	160.3	146.6	186.3
NYLON 6,6	1.1	1.0	0.7	0.0	0.0	0.0	0.0	0.0
POLYESTER CHIPS/PET CHIPS	676.4	534.8	789.6	1158.6	1223.9	1207.3	1137.1	1558.6
POLYTETRAFLUOROETHYLENE(PTFE)	7.1	7.1	6.8	6.8	7.2	9.0	8.4	8.9
Total	1251.0	1192.4	1443.4	1601.4	1696.5	1738.8	1685.1	2188.5
6. FIBRE INTERMEDIATE								
ACRYLONITRILE	158.3	180.4	172.9	126.7	173.8	221.8	176.9	211.2
CAPROLACTUM	144.3	159.0	151.9	131.8	168.2	152.3	135.5	143.3
DIMETHYL TEREPHTHALATE	2.3	1.5	1.8	1.8	2.0	1.9	1.5	2.1
MONO EHYLENE GLYCOL	2061.7	1501.9	2644.1	2277.8	2836.7	3117.4	2756.7	3027.6
PURIFIED TEREPHTHALIC ACID	3801.6	3812.3	4073.6	3487.2	4800.1	4794.2	4779.3	5505.8
Total	6168.1	5654.9	7044.2	6025.3	7980.8	8287.5	7849.8	8890.1
7. OLEFINS								
BUTADIENE	231.8	250.6	306.8	292.0	333.3	316.9	356.0	350.7
ETHYLENE	4125.4	3699.2	6379.3	6301.9	6365.4	5838.9	6083.7	6435.8
PROPYLENE	4446.0	4608.3	4889.0	5204.4	5664.6	5072.7	5840.4	6372.1
Total	8803.2	8558.2	11575.1	11798.3	12363.3	11228.5	12280.0	13158.6

Groups / Products	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
8. AROMATICS								
BENZENE	31.8	-214.3	-51.1	-80.5	-491.2	-284.0	-177.2	-177.0
MIXED XYLENE	273.4	248.7	269.3	146.7	160.9	47.4	52.8	68.8
ORTHO-XYLENE	277.8	203.6	225.5	237.7	293.2	338.0	396.0	448.6
TOLUENE	517.0	565.6	596.5	698.0	598.2	682.3	697.2	708.6
PARAXYLENE	2256.7	1508.8	940.5	442.7	805.9	1163.7	2002.6	1745.0
Total	3356.6	2312.4	1980.8	1444.6	1367.0	1947.5	2971.5	2794.0
9. OTHER PETRO-BASED CHEMICALS								
DIETHYLENE GLYCOL	105.7	107.4	167.7	172.3	173.7	141.8	147.3	172.0
DIACETONE ALCOHOL	0.2	4.1	6.0	2.9	5.7	3.2	0.0	0.0
ETHYLENE DICHLORIDE	950.8	901.7	1044.9	921.7	987.0	1061.4	957.6	1001.1
BUTANOL	70.2	70.2	75.0	62.5	66.8	81.0	98.8	116.7
OXO ALCOHOL	1.4	-0.2	1.5	2.1	2.1	1.0	3.1	4.5
2-ETHYL HEXANOL	112.1	109.8	130.4	104.5	101.6	144.1	133.2	174.1
VINYL CHLORIDE MONOMER	1262.4	1261.1	1385.6	1279.1	1394.9	1386.5	1300.6	1338.2
EPICHLHYDRINE	56.0	65.0	61.1	55.1	66.4	66.3	58.2	46.4
ISO BUTYLENE	48.7	44.6	-7.3	-4.2	-18.5	-14.1	-16.7	-1.9
METAXYLENE	2.1	2.9	1.9	2.7	4.7	3.0	4.6	-8.5
METHYL ISOBUTYL KETONE	33.7	31.9	27.8	30.1	35.8	30.4	44.0	45.8
PBT	0.6	1.3	6.2	6.1	7.5	7.9	7.6	7.7
PIB	12.4	12.0	10.3	6.7	12.2	8.7	2.6	10.2
POLYCARBONATE	154.1	187.1	172.5	174.7	207.2	221.3	277.1	321.7
PROPYLENE OXIDE	59.4	61.9	54.7	61.8	70.4	74.1	73.5	75.0
PROPYLENE GLYCOL	73.9	83.9	80.9	76.0	81.0	88.0	97.6	109.1
POLYVINYL ACETATE RESIN	-3.5	-5.8	-5.5	-1.4	2.3	5.7	6.0	-0.8
UNSATURATED POLYESTER RESIN	35.5	28.3	49.6	44.9	42.6	49.4	66.1	66.0
METHYL METHACRYLATE	2.8	4.0	1.7	0.0	0.0	0.0	0.0	0.0
ISO-BUTANOL	2.2	2.2	1.7	2.1	4.0	5.8	5.8	5.3
ETHYL BENZENE	0.4	0.7	0.5	0.5	0.9	0.7	0.9	1.1
C4-RAFFINATE	339.2	380.3	413.3	433.4	444.6	393.5	448.5	440.6
CELLULOSE ACETATE SHEET	1.3	1.5	1.3	1.3	1.6	1.6	1.2	1.9
CELLULOSE NITRATE SHEET	0.1	0.1	0.1	1.2	0.5	0.1	0.1	0.1
MELAMINE MOULDING POWDER	-0.1	-1.3	-6.7	-9.8	-19.0	-26.5	-35.5	-43.3
POLYACETAL RESIN	43.5	48.5	47.3	48.4	47.2	60.2	62.1	65.0
PHTHALIC ANHYDRIDE	382.6	393.4	415.2	410.4	428.3	403.7	391.1	387.1
STYRENE	784.7	811.2	872.6	720.8	847.2	1055.4	1054.9	1115.3
VINYL ACTATE MONOMER	163.7	163.0	159.4	136.5	174.4	209.6	201.0	213.1
ISOPROPANOL	171.3	193.1	204.2	233.8	189.5	183.9	161.5	216.7
POLYOL	274.5	308.3	295.7	239.5	247.7	99.8	103.1	95.8
Total	5142.0	5272.2	5669.7	5215.7	5610.3	5747.3	5655.9	5975.8

Note : 1. Production and Installed Capacity data based on MPRs received from manufacturer under large and medium scale units only monitored by S&M Division of DCPC.

2. Data Source in respect of imports and exports is DGCI, Kolkata, M/o Commerce and Industry.

3. Consumption is derived as Production + Imports - Exports

Section - III

Foreign Trade

Table 11: Exports and Imports of Chemicals & Chemical Products (excluding Pharmaceutical Products and Fertilizers) during 2017-18 to 2024-25

(Rs. in Crore)

HS Code	Commodity	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	Trend line	CAGR (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Total National Exports of which		1956515	2307726	2219854	2159043	3147021	3621550	3618952	3703412		
28	INORGANIC CHEMICALS	11175	14056	12512	12301	19800	26642	26552	34411		17.4
29	ORGANIC CHEMICALS	95381	127855	124195	133637	164815	172357	168922	170244		8.6
32	TANNING OR DYEING	18951	23124	24409	22660	29513	26528	32997	30117		6.8
38	MISCELLANEOUS CHEMICAL PRODUCTS.	25080	32397	35663	37886	52416	63282	54454	59003		13.0
39	PLASTIC AND ARTICLES THEREOF.	40928	56079	48970	51004	67440	61518	61117	69000		7.7
4002	SYNTHETIC RUBBER AND FACTICE	571	739	759	821	1141	964	1097	1382		13.5
54	MAN-MADE FILAMENTS.	13984	16018	16962	11470	18070	15731	14576	14970		1.0
55	MAN-MADE STAPLE FIBRES.	13212	13308	11824	9559	15402	14283	13569	13643		0.5
A: Total Chemicals and Petrochemical Products		219281	283575	275294	279337	368597	381306	373285	392770		8.7
% share in total export		11.2	12.3	12.4	12.9	11.7	10.5	10.3	10.6		
Total National Imports of which		3001033	3594675	3360954	2915958	4572775	5749801	5581019	6098210		
28	INORGANIC CHEMICALS	38927	53237	45045	50955	76356	102895	75653	96472		13.8
29	ORGANIC CHEMICALS	123761	156552	140205	145830	212615	232169	221362	224782		8.9
32	TANNING OR DYEING	12995	15460	14518	14036	19431	20490	30116	24290		9.3
38	MISCELLANEOUS CHEMICAL PRODUCTS.	35521	41748	39069	45324	58634	65756	61486	67746		9.7
39	PLASTIC AND ARTICLES THEREOF.	89768	106591	100607	98392	149067	185547	180722	186903		11.0
4002	SYNTHETIC RUBBER AND FACTICE	6687	7896	6079	6269	9154	11121	9861	11779		8.4
54	MAN-MADE FILAMENTS.	5538	6843	7351	6727	11144	14287	13711	12823		12.7
55	MAN-MADE STAPLE FIBRES.	4658	6508	6785	6180	7714	9822	7460	7103		6.2
B: Total Chemicals and Petrochemical Products		317856	394834	359660	373714	544115	642088	600370	631898		10.3
% share in total import		10.6	11.0	10.7	12.8	11.9	11.2	10.8	10.4		

Chapter 28: Inorganic Chemicals; Organic or Inorganic Compounds of Precious Metals, of Rare-Earth Metals, of Radioactive Elements or of Isotopes; **Chapter 29:** Organic Chemicals; **Chapter 32:** Tanning or Dyeing Extracts; Tannins and their Derivatives; Dyes, Pigments and Other Colouring Matter; Paints and Varnishes; Putty and other Mastics; Inks; **Chapter 38:** Miscellaneous Chemical Products; **Chapter 39:** Plastics and articles thereof; **4002:** Synthetic rubber and factice derived from oils, in primary forms or in plates, sheets or strip; mixtures of any product of heading No.4001 with any product of this heading, in primary forms or in plates, sheets; Chapter 54: Man-made Filaments and **Chapter 55:** Man-made staple fibres

Note 1: Import and Export includes both technical and formulations.

Note 2: Data Source in respect of Imports and Exports is DGCIS, Kolkata, M/o Commerce and Industry

Table 12: Exports and Imports of Chemicals & Chemical Products (including Pharmaceutical Products and Fertilizers) during 2017-18 to 2024-25

(Rs. in Crore)

HS Code	Commodity	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25	CARG (%)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	Total National Exports of which	1956515	2307726	2219854	2159043	3147021	3621550	3618952	3703412	9.5
28,29,32,38,39,4002, 54 & 55	Chemicals and Chemical Products (excluding Pharmaceutical Products and Fertilizers)	219281	283575	275294	279337	368597	381306	373285	392770	8.7
	Share in Total Exports (%)	11.2	12.3	12.4	12.9	11.7	10.5	10.3	10.6	
30	Pharmaceutical Products	85447	103240	115473	143738	144581	159644	183052	208129	13.6
	Share in Total Exports (%)	4.4	4.5	5.2	6.7	4.6	4.4	5.1	5.6	
31	Fertilisers	685	1038	837	779	630	1057	1077	1367	10.4
	Share in Total Exports (%)	0.04	0.04	0.04	0.04	0.02	0.03	0.03	0.04	
A: Total Chemicals and Chemical Products (including Pharmaceutical Products and Fertilizers)		305413	387853	391604	423855	513807	542007	557414	602265	10.2
	Share in Total Exports (%)	15.6	16.8	17.6	19.6	16.3	15.0	15.4	16.3	
	Total National Imports of which	3001033	3594675	3360954	2915958	4572775	5749801	5581019	6098210	10.7
28,29,32,38,39,4002, 54 & 55	Chemicals and Chemical Products (excluding Pharmaceutical Products and Fertilizers)	317856	394834	359660	373714	544115	642088	600370	631898	10.3
	Share in Total Imports (%)	10.6	11.0	10.7	12.8	11.9	11.2	10.8	10.4	
30	Pharmaceutical Products	12241	14581	16530	18934	25603	21023	21403	25225	10.9
	Share in Total Imports (%)	0.4	0.4	0.5	0.6	0.6	0.4	0.4	0.4	
31	Fertilisers	30108	46457	47397	51034	95329	123407	73885	70030	12.8
	Share in Total Imports (%)	1.00	1.29	1.41	1.75	2.08	2.15	1.32	1.15	
B: Total Chemicals and chemical Products (including Pharmaceutical Products and Fertilizers)		360205	455872	423587	443683	665047	786518	695657	727152	10.6
	Share in Total Imports (%)	12.0	12.7	12.6	15.2	14.5	13.7	12.5	11.9	

Chapter 28: Inorganic Chemicals; Organic or Inorganic Compounds of Precious Metals, of Rare-Earth Metals, of Radioactive Elements or of Isotopes; **Chapter 29:** Organic Chemicals; **Chapter 30:** Pharmaceutical Products; **Chapter 31:** Fertilisers; **Chapter 32:** Tanning or Dyeing Extracts; Tannins and their Derivatives; Dyes, Pigments and Other Colouring Matter; Paints and Varnishes; Putty and other Mastics; Inks; **Chapter 38:** Miscellaneous Chemical Products; **Chapter 39:** Plastics and articles thereof; **4002:** Synthetic rubber and factice derived from oils, in primary forms or in plates, sheets or strip; mixtures of any product of heading No.4001 with any product of this heading, in primary forms or in plates, sheets; **Chapter 54:** Man-made Filaments and **Chapter 55:** Man-made staple fibres

Note 1: Import and Export includes both technical and formulations.

Note 2: Data Source in respect of Imports and Exports is DGCIS, Kolkata, M/o Commerce and Industry

Table 12A: Net Imports of Chemicals and Chemical Products (including Pharmaceutical Products and Fertilizers) during 2017-18 to 2024-25

(Rs. in Crore)

HS Code	Commodity	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Total National Net Imports of which		1044519	1286948	1141100	756914	1425753	2128251	1962067	2394798
28	INORGANIC CHEMICALS	27752	39181	32533	38654	56556	76253	49101	62061
29	ORGANIC CHEMICALS	28380	28696	16009	12194	47800	59812	52440	54538
32	TANNING OR DYEING	-5956	-7664	-9891	-8624	-10082	-6038	-2881	-5827
38	MISCELLANEOUS CHEMICAL PRODUCTS.	10441	9352	3407	7438	6218	2474	7031	8743
39	PLASTIC AND ARTICLES THEREOF.	48841	50512	51638	47388	81627	124029	119605	117903
4002	SYNTHETIC RUBBER AND FACTICE	6116	7157	5320	5448	8013	10157	8764	10397
54	MAN-MADE FILAMENTS.	-8446	-9175	-9611	-4743	-6926	-1444	-865	-2147
55	MAN-MADE STAPLE FIBRES.	-8554	-6800	-5039	-3379	-7688	-4461	-6109	-6541
Net Imports of Total Chemicals and Chemical Products (excluding Pharmaceutical Products and Fertilizers)		98575	111259	84366	94377	175518	260782	227085	239128
Share in Total National Net Imports (%)		9.4	8.6	7.4	12.5	12.3	12.3	11.6	10.0
30	Pharmaceutical Products	-73206	-88659	-98943	-124804	-118978	-138621	-161649	-182904
31	Fertilisers	29423	45419	46560	50255	94699	122350	72807	68663
Net Imports of Total Chemicals and Chemical Products (including Pharmaceutical Products and Fertilizers)		54792	68019	31983	19828	151240	244511	138243	124887
Share in Total National Net Imports (%)		5.2	5.3	2.8	2.6	10.6	11.5	7.0	5.2

Chapter 28: Inorganic Chemicals; Organic or Inorganic Compounds of Precious Metals, of Rare-Earth Metals, of Radioactive Elements or of Isotopes; **Chapter 29:** Organic Chemicals; **Chapter 32:** Tanning or Dyeing Extracts; Tannins and their Derivatives; Dyes, Pigments and Other Colouring Matter; Paints and Varnishes; Putty and other Mastics; Inks; **Chapter 38:** Miscellaneous Chemical Products; **Chapter 39:** Plastics and articles thereof; **4002:** Synthetic rubber and factice derived from oils, in primary forms or in plates, sheets or strip; mixtures of any product of heading No.4001 with any product of this heading, in primary forms or in plates, sheets; Chapter 54: Man-made Filaments and **Chapter 55:** Man-made staple fibres

Note 1: Import and Export includes both technical and formulations.

Note 2: Data Source in respect of Imports and Exports is DGCIS, Kolkata, M/o Commerce and Industry

Table 13: Exports of Major Chemicals (Group Wise) during 2017-18 to 2024-25

(QTY. in MT; Value in Rs. Lakh)

GROUP	2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	
	QTY.	VALUE	QTY.	VALUE	QTY.	VALUE	QTY.	VALUE	QTY.	VALUE	QTY.	VALUE	QTY.	VALUE	QTY.	VALUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
ALKALI CHEMICALS	273456	86880	239321	87844	329459	82760	428873	85310	597971	187161	667778	314334	893112	274679	862868	293860
INORGANIC CHEMICALS	173071	102270	176900	133248	196035	134079	194941	119206	272948	261181	337109	342807	416978	396158	499412	482483
ORGANIC CHEMICALS	204923	320492	233147	425738	244524	422713	295922	438010	310144	528314	303810	429707	300783	376865	318247	244114
PESTICIDES & INSECTICIDES \$	358481	1481030	404783	2004132	398069	2163297	470787	2380601	567666	3266419	539783	3861697	538624	3048362	590526	3145412
DYES & PIGMENTS	485741	1439290	525170	1800681	530297	1928414	514395	1770381	590558	2336505	464906	1984431	492682	1842026	535642	2089476
EXPORTS OF MAJOR CHEMICALS	1495672	3429962	1579321	4451643	1698384	4731263	1904918	4793508	2339287	6579580	2313386	6932976	2642179	5938090	2806695	6255345

Source: DGCIS, Kolkata, M/o Commerce and Industry.

Note: Import and Export includes both technical and formulations.

Table 14: Imports of Major Chemicals (Group Wise) during 2017-18 to 2024-25

(Qty. in MT; Value in Rs. Lakh)

GROUP	2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	
	QTY.	VALUE	QTY.	VALUE	QTY.	VALUE	QTY.	VALUE	QTY.	VALUE	QTY.	VALUE	QTY.	VALUE	QTY.	VALUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
ALKALI CHEMICALS	1193978	265347	1049124	225523	1157130	240752	967827	170499	766564	174732	713367	269998	1262504	329564	1176093	261710
INORGANIC CHEMICALS	1228854	308363	1579667	485763	1531826	354602	1187990	302101	1345272	382374	1351450	433595	941784	365743	928074	387640
ORGANIC CHEMICALS	3407051	1207748	3644781	1520278	3775333	1078053	3715724	1124697	4159984	2308240	4700910	2117580	5017641	1997048	5099717	2055883
PESTICIDES & INSECTICIDES \$	44145	581385	49233	632590	42580	611078	66190	899057	59722	972605	67445	1025202	61986	802033	75636	930294
DYES & PIGMENTS	62971	231383	56452	278422	50583	281435	45339	252666	53657	326661	44637	290398	49633	284741	54942	319220
IMPORTS OF MAJOR CHEMICALS	5936999	2594226	6379257	3142576	6557452	2565920	5983070	2749020	6385199	4164612	6877809	4136773	7333548	3779129	7334462	3954747

Source: DGCIS, Kolkata, M/o Commerce and Industry

Note: Import and Export includes both technical and formulations.

Table 15: Net Imports of Major Chemicals (Group Wise) during 2017-18 to 2024-25

(Qty. in MT; Value in Rs. Lakh)

GROUP	2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	
	QTY.	VALUE	QTY.	VALUE	QTY.	VALUE	QTY.	VALUE	QTY.	VALUE	QTY.	VALUE	QTY.	VALUE	QTY.	VALUE
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
ALKALI CHEMICALS	920522	178467	809803	137679	827671	157992	538954	85189	168593	-12429	45589	-44336	369392	54885	313225	-32150
INORGANIC CHEMICALS	1055783	206093	1402767	352515	1335791	220523	993049	182895	1072324	121193	1014341	90788	524806	-30415	428662	-94843
ORGANIC CHEMICALS	3202128	887256	3411634	1094540	3530809	655340	3419802	686687	3849840	1779926	4397100	1687873	4716858	1620183	4781470	1811769
PESTICIDES & INSECTICIDES \$	-314336	-899645	-355550	-1371542	-355489	-1552219	-404597	-1481544	-507944	-2293814	-472338	-2836495	-476638	-2246329	-514890	-2215118
DYES & PIGMENTS	-422770	-1207907	-468718	-1522259	-479714	-1646979	-469056	-1517715	-536901	-2009844	-420269	-1694033	-443049	-1557285	-480700	-1770256
NET IMPORTS OF MAJOR CHEMICALS	4441327	-835736	4799936	-1309067	4859068	-2165343	4078152	-2044488	4045912	-2414968	4564423	-2796203	4691369	-2158961	4527767	-2300598

Source: DGCIS, Kolkata, M/o Commerce and Industry

Note: Import and Export includes both technical and formulations.

Table 16: Exports of Major Chemicals (Product Wise) during 2017-18 to 2024-25

(QTY in MT; VAL in Rs. Lakh)

PRODUCT	2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	
	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
ALKALI CHEMICALS																
SODA ASH	110087	19377	62457	15202	137749	27137	149721	23725	250639	53739	203910	69376	422211	103115	295230	64909
CAUSTIC SODA	159630	66829	172165	71663	187494	54532	275374	60246	343042	131967	458181	242907	465257	169586	562644	226956
LIQUID CHLORINE	3739	674	4699	979	4216	1091	3778	1339	4290	1455	5687	2051	5644	1978	4994	1995
TOTAL	273456	86880	239321	87844	329459	82760	428873	85310	597971	187161	667778	314334	893112	274679	862868	293860
INORGANIC CHEMICALS																
ALUMINIUM FLUORIDE	206	204	442	363	1362	1210	2046	1872	984	247	391	502	2115	509	959	441
CALCIUM CARBIDE	464	258	325	204	371	244	129	112	787	974	735	842	450	406	430	344
CARBON BLACK	122287	72959	122832	103643	144017	103457	138724	85640	203936	218180	224439	273212	319171	342226	400034	424980
POTASSIUM CHLORATE	1941	1245	3024	2124	3178	2190	2595	1803	1981	1564	2687	3034	3170	3543	3194	3263
SODIUM CHLORATE	1075	256	810	41	0	6	5	5	24	34	9	13	8	115	8	20
TITANIUM DIOXIDE	9560	15377	7345	12743	6235	10654	6483	11521	6051	15382	4932	12770	4829	10616	6236	14253
RED PHOSPHORUS	455	1716	595	2242	650	2567	582	2460	626	3628	672	5524	528	3229	670	3822
HYDROGEN PEROXIDE	116	214	263	225	808	482	3077	1053	5683	1996	55007	28081	38677	14954	31899	10900
CALCIUM CARBONATE	36967	10041	41264	11663	39414	13269	41300	14740	52876	19176	48237	18829	48030	20560	55982	24460
TOTAL	173071	102270	176900	133248	196035	134079	194941	119206	272948	261181	337109	342807	416978	396158	499412	482483
ORGANIC CHEMICALS																
ACETIC ACID	12220	5401	17821	10476	12746	6265	10697	6270	22227	20425	45005	28819	17695	10488	23992	13083
ACETIC ANHYDRIDE	19644	13743	18444	13582	20529	12815	23960	15302	20700	24118	35370	35898	42937	33324	37070	27161
ACETONE	5054	3173	10901	5904	11004	5646	28161	19355	21604	15500	13086	11180	23704	20892	12837	12955
PHENOL	4750	9709	4724	11740	22273	23408	53100	39575	43658	50811	16692	27933	24569	27995	17231	24886
METHANOL	9466	2846	10943	3819	12941	3482	8451	2607	18645	6084	41498	13915	51724	17668	62601	20733
FORMALDEHYDE	10616	2098	12484	2495	14153	2484	15241	2734	16486	4115	16214	4732	26463	5156	30244	5777
NITROBENZENE	60	49	103	110	133	131	98	99	119	149	151	237	185	236	209	276
CITRIC ACID	2393	1931	2323	2010	2411	1942	2296	2018	5572	11418	3145	5718	6734	8674	6645	8482
MALEIC ANHYDRIDE	233	227	87	105	167	193	50	62	114	204	133	209	345	429	542	517
PENTAERYTHRITOL	2110	3399	2287	4161	2584	4741	1336	2550	2620	6578	2491	7054	1890	4235	2431	5576
ANILINE	162	614	137	341	68	148	68	89	74	179	56	265	27	93	62	243
CHLORO METHANES	101	283	75	149	49	107	68	156	122	250	66	170	57	125	65	219
ISOBUTYLBENZENE	12341	14384	11740	16320	9705	14150	16156	20894	8541	13709	14280	28274	10772	21596	9325	16725
ONCB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PNCB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEK	19	36	465	477	243	245	66	75	10	37	341	525	1087	1034	1325	1256
ACETALDEHYDE	3	6	1148	912	1139	893	1027	692	993	812	151	175	307	314	2011	1910
ETHANOLAMINES	4801	14201	3143	13553	1686	10522	2760	11850	3081	10668	3175	14880	3149	15076	2908	20378
ETHYL ACETATE	105551	62174	118682	82170	108384	63095	108725	69937	118930	133346	93079	86539	74653	63032	104936	78631

PRODUCT	2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	
	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL
MENTHOL	12749	183951	13351	253213	17089	265334	19980	240427	19795	222579	12715	154721	11977	142862	0	0
ORTHO NITRO TOLUENE	2650	2267	4289	4201	7220	7112	3682	3318	6853	7332	6162	8463	2508	3636	3813	5306
TOTAL	204923	320492	233147	425738	244524	422713	295922	438010	310144	528314	303810	429707	300783	376865	318247	244114
PESTICIDES & INSECTICIDES																
MALATHION	1977	3682	2499	5792	2318	6230	1673	5079	2772	9020	1443	5538	2278	7692	2552	8322
DIMETHOATE	24	62	126	429	199	603	154	590	96	443	13	75	120	501	127	517
D.D.V.P.	493	1835	689	2716	12	41	639	2620	468	1128	22	81	29	130	6	42
QUINALPHOS	382	1645	281	1439	338	1606	522	2909	811	5809	540	3954	573	3069	408	2352
CYPERMETHRIN	9706	62713	13609	112381	15122	95462	18945	106342	19820	126617	15185	95416	16919	75453	19698	92906
FENTHION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER PESTICIDES	43320	216510	39174	233275	7416	28448	6155	23536	6410	24045	5030	25616	5569	26002	5748	25746
OTHER INSECTICIDES	50008	393497	62714	580271	106352	840555	111743	833725	125025	1083286	120034	1211192	108649	921372	101461	922401
COPPER-OXYCHLORIDE	723	1732	806	2427	2240	5896	1603	5135	1767	8035	1492	6858	1394	6528	1986	10488
2, 4-D	24125	36076	22242	46347	19623	32924	21097	33198	33070	80574	40025	101768	32031	47827	36924	59808
ISOPROTURON	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ALUMINIUM PHOSPHIDE	505	1703	481	2084	426	1909	764	3024	1029	3241	599	2981	385	2042	241	1197
METHYL BROMIDE	2000	7292	2208	8384	1628	6682	2089	9966	2214	11088	1967	13376	1834	12708	2360	13815
OTHER HERBICIDES-ANTI SPROUTING PRODUCTS	67039	425113	74058	595122	79434	717390	101726	857814	140909	1197464	147788	1553999	111989	1200197	125722	1180190
OTHER FUNGICIDE NES	158179	329170	185896	413465	162961	425551	203677	496663	233275	715669	205645	840843	256854	744841	293293	827628
TOTAL	358481	1481030	404783	2004132	398069	2163297	470787	2380601	567666	3266419	539783	3861697	538624	3048362	590526	3145412
DYES & PIGMENTS																
AZO DYES	69996	181785	72999	225224	68352	210313	64125	179167	76648	246547	62120	223050	63796	196285	66342	210433
ACID DIRECT DYES(OTHER THAN AZO)	5098	21655	5103	26145	5601	28666	5892	29584	6996	40191	6155	35428	7468	37896	8046	39468
BASIC DYES	10757	32222	12017	44585	12730	48887	13585	51140	13913	60670	13693	60434	16838	59039	18314	66952
DISPERSE DYES	14460	56914	20552	107647	23362	133160	18521	93517	24336	120607	16913	89863	15042	66641	17129	69917
FAST COLOUR BASES	2042	9726	2652	14987	5364	46929	3667	21816	4008	28273	2331	17799	2223	11108	2638	13981
OIL SOLUBLE (SOLVENT DYES)	8995	42906	10195	66808	11091	76571	9106	65358	10656	92079	9026	82819	8478	69773	10137	79995
OPTICAL WHITENING AGENTS	30124	48069	30259	66858	26084	82724	21458	44381	23448	63463	16691	52147	16674	45046	16778	46704
ORGANIC PIGMENT	62	185	15	98	50	333	67	229	29	84	16	63	106	280	51	87
PIGMENT EMULSION	102051	441253	110526	494598	110669	534039	116980	581196	130371	757608	97190	625872	101653	583062	123043	727667
REACTIVE DYES	147417	413080	158530	511426	169648	502283	152579	426490	180640	591072	134714	483493	144270	463371	159182	515569
SULPHUR DYES (SULPHUR BLACK)	5467	5794	5720	7303	4510	5233	3701	4115	5565	7958	3314	4905	2867	3697	3877	4522
VAT DYES	1707	26607	4475	46284	4524	64023	3643	63587	6936	81370	3197	56620	2355	43792	2878	50808
SOLUBILISED VAT DYES	46	529	63	789	71	1185	83	759	74	1043	62	1044	54	863	56	912

PRODUCT	2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	
	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL
FOOD COLOURS	31110	87129	29007	107344	25347	107786	30271	118294	35087	143435	30985	148750	32417	150126	36838	160780
NAPTHOLS	2329	5725	3276	8341	4169	11467	4982	10894	3053	8471	2504	6751	4227	9006	4424	8964
OTHER DYES	13735	26227	13621	31196	15218	34504	17473	34086	17930	38503	16581	38193	17060	35585	17990	36853
INORGANIC PIGMENTS	40345	39484	46160	41048	43507	40311	48262	45768	50868	55131	49414	57200	57154	66456	47919	55864
TOTAL	485741	1439290	525170	1800681	530297	1928414	514395	1770381	590558	2336505	464906	1984431	492682	1842026	535642	2089476
EXPORTS OF MAJOR CHEMICALS	1495672	3429962	1579321	4451643	1698384	4731263	1904918	4793508	2339287	6579580	2313386	6932976	2642179	5938090	2806695	6255345

Source: DGCIS, Kolkata, M/o Commerce and Industry

Table 17: Imports of Major Chemicals (Product Wise) during 2017-18 to 2024-25

(QTY in MT; VAL in Rs. Lakh)

PRODUCT	2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	
	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
ALKALI CHEMICALS																
SODA ASH	772622	111757	840591	144900	847704	152515	719731	114804	563140	97002	577480	195359	1041138	251975	1024036	198020
CAUSTIC SODA	421298	153382	208267	79927	309345	87982	248057	55495	203275	77347	135823	74227	221353	77453	152055	63674
LIQUID CHLORINE	58	208	266	696	81	255	39	200	149	383	64	412	13	136	2	16
TOTAL	1193978	265347	1049124	225523	1157130	240752	967827	170499	766564	174732	713367	269998	1262504	329564	1176093	261710
INORGANIC CHEMICALS																
ALUMINIUM FLUORIDE	49758	29075	62374	56075	40362	37910	61224	48059	74347	52878	54655	56217	54863	51207	72955	70501
CALCIUM CARBIDE	55651	23941	45321	21554	31218	14507	32666	17749	22008	15761	22133	17150	25223	13347	21869	12003
CARBON BLACK	186224	143618	278531	249368	197491	153367	190469	127583	156331	155878	126675	165212	156731	170990	152897	171754
POTASSIUM CHLORATE	29	22	128	272	55	119	909	884	0	9	0	2	173	10	67	93
SODIUM CHLORATE	8822	3041	14240	5884	24082	11254	11589	5118	16655	6822	21823	14720	20338	16634	20160	15361
TITANIUM DIOXIDE	13701	24771	14546	28686	16416	30825	13389	25107	15134	36230	18505	53925	17584	47209	18882	49258
RED PHOSPHORUS	0	3	14	51	18	57	4	18	0	1	0	0	7	55	0	0
HYDROGEN PEROXIDE	68474	19305	84261	36931	52727	15858	22355	8150	33475	11293	44550	14499	46641	13624	38594	12000
CALCIUM CARBONATE	846195	64587	1080252	86942	1169457	90705	855385	69433	1027322	103502	1063109	111870	620224	52667	602650	56670
TOTAL	1228854	308363	1579667	485763	1531826	354602	1187990	302101	1345272	382374	1351450	433595	941784	365743	928074	387640
ORGANIC CHEMICALS																
ACETIC ACID	884515	290624	937298	422360	926492	273709	904345	275694	1054823	778838	1134506	512714	1112214	417696	1161521	403433
ACETIC ANHYDRIDE	4381	2346	12275	9700	20529	11716	18807	10479	20896	22339	13400	10112	17689	12671	11647	7624
ACETONE	146878	74975	116760	52108	72402	28094	82056	53673	118656	82777	110027	65925	125368	91229	136271	112610
PHENOL	288572	202842	231808	217710	144005	99070	170993	89789	206208	210164	218476	242182	238165	198775	260078	226274
METHANOL	1783293	400004	1986712	519474	2286274	425567	2219944	434805	2397912	743153	2815926	752424	3068795	743116	2996136	775516
FORMALDEHYDE	46	44	22	13	5	111	6	148	8	194	6	108	4	59	5	60
NITROBENZENE	15384	8207	18204	10721	15533	8073	9866	5008	7816	6361	3887	4235	304	275	1073	1179
CITRIC ACID	84262	45489	95283	45136	90958	38453	94966	47550	99929	100565	131440	140713	117653	79801	140955	90071
MALEIC ANHYDRIDE	52627	42928	69920	61694	66942	46858	59533	46705	74467	107691	82414	94533	87083	69005	100397	85152
PENTAERYTHRITOL	17963	19614	18407	23000	21311	23116	13613	13022	16340	25537	17553	25392	23682	26745	18155	23612
ANILINE	65416	58924	88454	81524	80946	53293	72770	47402	92072	113186	101437	137516	148740	182205	202003	259141
CHLORO METHANES	519	429	1413	1089	2404	2122	2469	2111	1905	2163	1406	1720	0	3	433	1382
ISOBUTYLBENZENE	0	0	0	0	2	4	0	0	0	0	0	0	0	0	0	0
ONCB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PNCB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEK	45331	36027	47158	40994	25509	19145	42542	33013	42363	44585	49348	61386	41470	36591	48514	44862
ACETALDEHYDE	81	243	94	275	113	375	82	568	150	497	141	454	187	463	88	334
ETHANOLAMINES	16101	16140	16648	19347	16694	16398	19070	17807	18605	24326	16431	23742	22672	26567	22079	23546
ETHYL ACETATE	43	127	2917	2358	2157	1768	141	1697	3778	5336	262	1630	2266	2728	362	1087
MENTHOL	1372	8573	1334	12718	3057	30181	4521	45226	4056	40528	4250	42794	11349	109119	0	0
ORTHO NITRO TOLUENE	267	212	74	57	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	3407051	1207748	3644781	1520278	3775333	1078053	3715724	1124697	4159984	2308240	4700910	2117580	5017641	1997048	5099717	2055883

PRODUCT	2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	
	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL
PESTICIDES & INSECTICIDES																
MALATHION	0	0	0	0	0	0	0	0	0	0	540	1758	0	0	0	0
DIMETHOATE	0	0	0	0	0	0	63	326	153	723	334	1382	236	941	69	303
D.D.V.P.	35	66	1561	3167	0	0	0	0	0	0	0	0	0	0	0	1
QUINALPHOS	0	0	0	0	15	81	0	0	0	0	0	0	0	0	0	0
CYPERMETHRIN	8	47	5	53	93	849	6	57	3	45	0	0	24	108	109	620
FENTHION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER PESTICIDES	1907	139991	1868	163792	4534	131268	5453	216253	1443	143124	891	65176	997	9611	604	9332
OTHER INSECTICIDES	17307	239549	17188	240036	13525	268040	16512	343526	16376	385766	16776	385652	14853	379509	12373	362937
COPPER-OXYCHLORIDE	0	1	0	2	0	0	0	0	40	138	0	0	0	2	0	0
2, 4-D	1824	2735	2819	5935	2382	4311	2412	3657	601	2315	746	2078	264	509	606	1046
ISOPROTURON	0	0	3	4	0	0	0	0	0	0	0	0	0	0	0	0
ALUMINIUM PHOSPHIDE	0	0	5	39	1	27	7	40	0	1	0	1	83	3751	182	7981
METHYL BROMIDE	18	107	2	14	28	141	12	63	30	170	0	0	7	55	20	161
OTHER HERBICIDES-ANTI SPROUTING PRODUCTS	15248	100387	18044	122207	14232	104807	30307	189422	24959	213811	31871	311738	33297	196835	40348	240556
OTHER FUNGICIDE NES	7798	98502	7738	97341	7770	101554	11418	145713	16117	226512	16287	257417	12225	210712	21325	307357
TOTAL	44145	581385	49233	632590	42580	611078	66190	899057	59722	972605	67445	1025202	61986	802033	75636	930294
DYES & PIGMENTS																
AZO DYES	514	3734	437	4207	306	4096	298	3880	408	4775	323	5548	321	8211	410	7040
ACID DIRECT DYES(OTHER THAN AZO)	248	1942	322	2639	133	1295	163	1073	125	1548	90	1582	123	1738	117	2048
BASIC DYES	647	5445	487	6868	529	8213	735	9836	636	8916	399	5824	305	3925	293	4702
DISPERSE DYES	4051	23972	1731	19295	2322	23128	2314	20496	2266	20665	2264	19214	1997	18367	1673	16753
FAST COLOUR BASES	379	2113	169	1743	265	2149	260	2414	45	773	253	1897	156	1008	239	1347
OIL SOLUBLE (SOLVENT DYES)	846	6414	710	7812	590	6250	525	6140	894	14411	918	13174	720	8745	814	11228
OPTICAL WHITENING AGENTS	593	5540	565	6978	738	8746	588	6492	742	8961	556	7156	570	5446	484	5491
ORGANIC PIGMENT	65	271	138	471	98	272	107	646	93	444	275	870	181	1099	615	1894
PIGMENT EMULSION	8261	52679	7985	57272	7303	54365	6443	53389	7080	65345	7314	69850	7519	71245	9777	83097
REACTIVE DYES	3340	24642	3117	26440	3661	27931	2962	21959	3461	28663	2819	22464	3335	26109	4003	31038
SULPHUR DYES (SULPHUR BLACK)	1252	2916	1116	3286	1041	3128	1337	3294	1810	5523	3363	9298	4111	9424	4724	10862
VAT DYES	26368	59134	21571	77638	16400	63470	13310	40263	20402	89474	11536	57921	12660	51920	13603	54443
SOLUBILISED VAT DYES	319	764	358	1289	170	810	108	463	22	261	19	444	23	363	34	412
FOOD COLOURS	1162	5057	1364	6747	1215	6695	375	6268	449	6638	350	7628	400	9456	549	11356
NAPTHOLS	1286	4446	1255	5267	1374	6559	1465	5757	1355	8239	1408	6248	2047	6843	1331	4864
OTHER DYES	512	2239	2337	7151	2265	7188	2332	7239	2439	8260	2671	9706	2308	10164	1949	9788
INORGANIC PIGMENTS	13128	30075	12790	43319	12173	57140	12017	63057	11430	53765	10079	51574	12857	50678	14327	62857
TOTAL	62971	231383	56452	278422	50583	281435	45339	252666	53657	326661	44637	290398	49633	284741	54942	319220
IMPORTS OF MAJOR CHEMICALS	5936999	2594226	6379257	3142576	6557452	2565920	5983070	2749020	6385199	4164612	6877809	4136773	7333548	3779129	7334462	3954747

Source: DGCIS, Kolkata, M/o Commerce and Industry

Table 18: Net Imports of Major Chemicals (Product Wise) during 2017-18 to 2024-25

[QTY in MT & VAL in Rs. Lakh]

PRODUCT	2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	
	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
ALKALI CHEMICALS																
SODA ASH	662535	92380	778134	129698	709955	125378	570010	91079	312501	43263	373570	125983	618927	148860	728806	133111
CAUSTIC SODA	261668	86553	36102	8264	121851	33450	-27317	-4751	-139767	-54620	-322358	-168680	-243904	-92133	-410589	-163282
LIQUID CHLORINE	-3681	-466	-4433	-283	-4135	-836	-3739	-1139	-4141	-1072	-5623	-1639	-5631	-1842	-4992	-1979
TOTAL	920522	178467	809803	137679	827671	157992	538954	85189	168593	-12429	45589	-44336	369392	54885	313225	-32150
INORGANIC CHEMICALS																
ALUMINIUM FLUORIDE	49552	28871	61932	55712	39000	36700	59178	46187	73363	52631	54264	55715	52748	50698	71996	70060
CALCIUM CARBIDE	55187	23683	44996	21350	30847	14263	32537	17637	21221	14787	21398	16308	24773	12941	21439	11659
CARBON BLACK	63937	70659	155699	145725	53474	49910	51745	41943	-47605	-62302	-97764	-108000	-162440	-171236	-247137	-253226
POTASSIUM CHLORATE	-1912	-1223	-2896	-1852	-3123	-2071	-1686	-919	-1981	-1555	-2687	-3032	-2997	-3533	-3127	-3170
SODIUM CHLORATE	7747	2785	13430	5843	24082	11248	11584	5113	16631	6788	21814	14707	20330	16519	20152	15341
TITANIUM DIOXIDE	4141	9394	7201	15943	10181	20171	6906	13586	9083	20848	13573	41155	12755	36593	12646	35005
RED PHOSPHORUS	-455	-1713	-581	-2191	-632	-2510	-578	-2442	-626	-3627	-672	-5524	-521	-3174	-670	-3822
HYDROGEN PEROXIDE	68358	19091	83998	36706	51919	15376	19278	7097	27792	9297	-10457	-13582	7964	-1330	6695	1100
CALCIUM CARBONATE	809228	54546	1038988	75279	1130043	77436	814085	54693	974446	84326	1014872	93041	572194	32107	546668	32210
TOTAL	1055783	206093	1402767	352515	1335791	220523	993049	182895	1072324	121193	1014341	90788	524806	-30415	428662	-94843
ORGANIC CHEMICALS																
ACETIC ACID	872295	285223	919477	411884	913746	267444	893648	269424	1032596	758413	1089501	483895	1094519	407208	1137529	390350
ACETIC ANHYDRIDE	-15263	-11397	-6169	-3882	0	-1099	-5153	-4823	196	-1779	-21970	-25786	-25248	-20653	-25423	-19537
ACETONE	141824	71802	105859	46204	61398	22448	53895	34318	97052	67277	96941	54745	101664	70337	123434	99655
PHENOL	283822	193133	227084	205970	121732	75662	117893	50214	162550	159353	201784	214249	213596	170780	242847	201388
METHANOL	1773827	397158	1975769	515655	2273333	422085	2211493	432198	2379267	737069	2774428	738509	3017071	725448	2933535	754783
FORMALDEHYDE	-10570	-2054	-12462	-2482	-14148	-2373	-15235	-2586	-16478	-3921	-16208	-4624	-26459	-5097	-30239	-5717
NITROBENZENE	15324	8158	18101	10611	15400	7942	9768	4909	7697	6212	3736	3998	119	39	864	903
CITRIC ACID	81869	43558	92960	43126	88547	36511	92670	45532	94357	89147	128295	134995	110919	71127	134310	81589
MALEIC ANHYDRIDE	52394	42701	69833	61589	66775	46665	59483	46643	74353	107487	82281	94324	86738	68576	99855	84635
PENTAERYTHRITOL	15853	16215	16120	18839	18727	18375	12277	10472	13720	18959	15062	18338	21792	22510	15724	18036
ANILINE	65254	58310	88317	81183	80878	53145	72702	47313	91998	113007	101381	137251	148713	182112	201941	258898
CHLORO METHANES	418	146	1338	940	2355	2015	2401	1955	1783	1913	1340	1550	-57	-122	368	1163
ISOBUTYLBENZENE	-12341	-14384	-11740	-16320	-9703	-14146	-16156	-20894	-8541	-13709	-14280	-28274	-10772	-21596	-9325	-16725
ONCB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PNCB	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MEK	45312	35991	46693	40517	25266	18900	42476	32938	42353	44548	49007	60861	40383	35557	47189	43606
ACETALDEHYDE	78	237	-1054	-637	-1026	-518	-945	-124	-843	-315	-10	279	-120	149	-1923	-1576
ETHANOLAMINES	11300	1939	13505	5794	15008	5876	16310	5957	15524	13658	13256	8862	19523	11491	19171	3168
ETHYL ACETATE	-105508	-62047	-115765	-79812	-106227	-61327	-108584	-68240	-115152	-128010	-92817	-84909	-72387	-60304	-104574	-77544
MENTHOL	-11377	-175378	-12017	-240495	-14032	-235153	-15459	-195201	-15739	-182051	-8465	-111927	-628	-33743	0	0
ORTHO NITRO TOLUENE	-2383	-2055	-4215	-4144	-7220	-7112	-3682	-3318	-6853	-7332	-6162	-8463	-2508	-3636	-3813	-5306
TOTAL	3202128	887256	3411634	1094540	3530809	655340	3419802	686687	3849840	1779926	4397100	1687873	4716858	1620183	4781470	1811769

PRODUCT	2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	
	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL
PESTICIDES & INSECTICIDES																
MALATHION	-1977	-3682	-2499	-5792	-2318	-6230	-1673	-5079	-2772	-9020	-903	-3780	-2278	-7692	-2552	-8322
DIMETHOATE	-24	-62	-126	-429	-199	-603	-91	-264	57	280	321	1307	116	440	-58	-214
D.D.V.P.	-458	-1769	872	451	-12	-41	-639	-2620	-468	-1128	-22	-81	-29	-130	-6	-41
QUINALPHOS	-382	-1645	-281	-1439	-323	-1525	-522	-2909	-811	-5809	-540	-3954	-573	-3069	-408	-2352
CYPERMETHRIN	-9698	-62666	-13604	-112328	-15029	-94613	-18939	-106285	-19817	-126572	-15185	-95416	-16895	-75345	-19589	-92286
FENTHION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER PESTICIDES	-41413	-76519	-37306	-69483	-2882	102820	-702	192717	-4967	119079	-4139	39560	-4572	-16391	-5144	-16414
OTHER INSECTICIDES	-32701	-153948	-45526	-340235	-92827	-572515	-95231	-490199	-108649	-697520	-103258	-825540	-93796	-541863	-89088	-559464
COPPER-OXYCHLORIDE	-723	-1731	-806	-2425	-2240	-5896	-1603	-5135	-1727	-7897	-1492	-6858	-1394	-6526	-1986	-10488
2, 4-D	-22301	-33341	-19423	-40412	-17241	-28613	-18685	-29541	-32469	-78259	-39279	-99690	-31767	-47318	-36318	-58762
ISOPROTURON	0	0	3	4	0	0	0	0	0	0	0	0	0	0	0	0
ALUMINIUM PHOSPHIDE	-505	-1703	-476	-2045	-425	-1882	-757	-2984	-1029	-3240	-599	-2980	-302	1709	-59	6784
METHYL BROMIDE	-1982	-7185	-2206	-8370	-1600	-6541	-2077	-9903	-2184	-10918	-1967	-13376	-1827	-12653	-2340	-13654
OTHER HERBICIDES-ANTI SPROUTING PRODUCTS	-51791	-324726	-56014	-472915	-65202	-612583	-71419	-668392	-115950	-983653	-115917	-1242261	-78692	-1003362	-85374	-939634
OTHER FUNGICIDES	-150381	-230668	-178158	-316124	-155191	-323997	-192259	-350950	-217158	-489157	-189358	-583426	-244629	-534129	-271968	-520271
TOTAL	-314336	-899645	-355550	-1371542	-355489	-1552219	-404597	-1481544	-507944	-2293814	-472338	-2836495	-476638	-2246329	-514890	-2215118
DYES & PIGMENTS																
AZO DYES	-69482	-178051	-72562	-221017	-68046	-206217	-63827	-175287	-76240	-241772	-61797	-217502	-63475	-188074	-65932	-203393
ACID DIRECT DYES(OTHER THAN AZO)	-4850	-19713	-4781	-23506	-5468	-27371	-5729	-28511	-6871	-38643	-6065	-33846	-7345	-36158	-7929	-37420
BASIC DYES	-10110	-26777	-11530	-37717	-12201	-40674	-12850	-41304	-13277	-51754	-13294	-54610	-16533	-55114	-18021	-62250
DISPERSE DYES	-10409	-32942	-18821	-88352	-21040	-110032	-16207	-73021	-22070	-99942	-14649	-70649	-13045	-48274	-15456	-53164
FAST COLOUR BASES	-1663	-7613	-2483	-13244	-5099	-44780	-3407	-19402	-3963	-27500	-2078	-15902	-2067	-10100	-2399	-12634
OIL SOLUBLE (SOLVENT DYES)	-8149	-36492	-9485	-58996	-10501	-70321	-8581	-59218	-9762	-77668	-8108	-69645	-7758	-61028	-9323	-68767
OPTICAL WHITENING AGENTS	-29531	-42529	-29694	-59880	-25346	-73978	-20870	-37889	-22706	-54502	-16135	-44991	-16104	-39600	-16294	-41213
ORGANIC PIGMENT	3	86	123	373	48	-61	40	417	64	360	259	807	75	819	564	1807
PIGMENT EMULSION	-93790	-388574	-102541	-437326	-103366	-479674	-110537	-527807	-123291	-692263	-89876	-556022	-94134	-511817	-113266	-644570
REACTIVE DYES	-144077	-388438	-155413	-484986	-165987	-474352	-149617	-404531	-177179	-562409	-131895	-461029	-140935	-437262	-155179	-484531
SULPHUR DYES (SULPHUR BLACK)	-4215	-2878	-4604	-4017	-3469	-2105	-2364	-821	-3755	-2435	49	4393	1244	5727	847	6340
VAT DYES	24661	32527	17096	31354	11876	-553	9667	-23324	13466	8104	8339	1301	10305	8128	10725	3635
SOLUBILISED VAT DYES	273	235	295	500	99	-375	25	-296	-52	-782	-43	-600	-31	-500	-22	-500
FOOD COLOURS	-29948	-82072	-27643	-100597	-24132	-101091	-29896	-112026	-34638	-136797	-30635	-141122	-32017	-140670	-36289	-149424
NAPTHOLS	-1043	-1279	-2021	-3074	-2795	-4908	-3517	-5137	-1698	-232	-1096	-503	-2180	-2163	-3093	-4100
OTHER DYES	-13223	-23988	-11284	-24045	-12953	-27316	-15141	-26847	-15491	-30243	-13910	-28487	-14752	-25421	-16041	-27065
INORGANIC PIGMENTS	-27217	-9409	-33370	2271	-31334	16829	-36245	17289	-39438	-1366	-39335	-5626	-44297	-15778	-33592	6993
TOTAL	-422770	-1207907	-468718	-1522259	-479714	-1646979	-469056	-1517715	-536901	-2009844	-420269	-1694033	-443049	-1557285	-480700	-1770256
NET IMPORTS OF MAJOR CHEMICALS	4441327	-835736	4799936	-1309067	4859068	-2165343	4078152	-2044488	4045912	-2414968	4564423	-2796203	4691369	-2158961	4527767	-2300598

Source: DGCIS, Kolkata, M/o Commerce and Industry

Table 19: Top Five Export Destinations of selected Chemicals during 2024-25

PRODUCTS	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
(1)	(2)	(3)	(4)
SODA ASH	BANGLADESH PR	141610.07	30580.35
	INDONESIA	51905.18	10387.52
	NEPAL	17642.54	4056.35
	SRI LANKA DSR	15156.26	3503.90
	PHILIPPINES	11134.36	2401.16
	Product Total	237448.40	50929.27
CAUSTIC SODA	SOUTH AFRICA	85630.80	31997.66
	INDONESIA	84273.77	30470.49
	SAUDI ARAB	51459.66	21148.65
	KENYA	45789.37	18361.80
	TANZANIA REP	39902.40	16523.37
	Product Total	307056.00	118501.97
LIQUID CHLORINE	SRI LANKA DSR	1834.83	374.66
	KENYA	1036.83	342.32
	NIGERIA	616.60	442.37
	MAURITIUS	258.77	198.25
	NEPAL	221.42	22.75
	Product Total	3968.45	1380.34
ALUMINIUM FLUORIDE	U ARAB EMTS	805.00	219.94
	JAPAN	100.00	134.86
	MALAYSIA	25.00	5.70
	CHINA P RP	10.00	9.04
	TURKEY	10.00	26.03
	Product Total	950.00	395.57
CALCIUM CARBIDE	BANGLADESH PR	320.80	262.69
	BHUTAN	40.25	39.57
	SRI LANKA DSR	24.00	16.61
	BRAZIL	22.50	14.11
	NEPAL	22.05	11.14
	Product Total	429.60	344.12
CARBON BLACK	U S A	49788.70	60390.15
	THAILAND	44089.94	42654.68
	SRI LANKA DSR	36050.07	36321.43
	VIETNAM SOC REP	28840.49	26791.65
	U ARAB EMTS	21878.36	28538.10
	Product Total	180647.56	194696.01
POTASSIUM CHLORATE	KENYA	634.00	588.56
	VIETNAM SOC REP	594.00	496.47
	INDONESIA	325.00	354.37
	THAILAND	220.00	216.88
	SOUTH AFRICA	216.01	251.65
	Product Total	1989.01	1907.93
SODIUM CHLORATE	SINGAPORE	8.00	12.88
	NEPAL	0.21	1.18
	BHUTAN	0.10	0.03
	TURKEY	0.04	4.67
	TANZANIA REP	0.00	0.60
	Product Total	8.36	19.35
TITANIUM DIOXIDE	U S A	2011.55	4573.03
	ITALY	1050.01	2363.10
	SPAIN	776.40	1431.81
	JAPAN	706.13	1277.23
	NEPAL	344.67	844.50

PRODUCTS	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
	Product Total	4888.76	10489.67
RED PHOSPHORUS	U S A	207.64	1138.09
	U ARAB EMTS	167.20	929.67
	BRAZIL	31.50	163.67
	KENYA	28.00	147.27
	INDONESIA	26.00	155.68
	Product Total	460.34	2534.39
HYDROGEN PEROXIDE	SOUTH AFRICA	6350.45	2098.37
	U ARAB EMTS	6154.33	2022.33
	GHANA	4171.20	1345.09
	RUSSIA	3285.29	1223.62
	VIETNAM SOC REP	1541.00	388.26
	Product Total	21502.27	7077.66
CALCIUM CARBONATE	NEPAL	18287.62	3739.92
	SOUTH AFRICA	7041.53	2495.15
	SRI LANKA DSR	5190.31	1053.14
	BANGLADESH PR	3930.25	4548.71
	U S A	2353.53	1807.06
	Product Total	36803.24	13643.99
ACETIC ACID	U ARAB EMTS	5468.58	2525.10
	BANGLADESH PR	2421.60	1489.68
	BELGIUM	1635.19	977.21
	SRI LANKA DSR	1128.56	645.24
	SOUTH AFRICA	1012.59	639.95
	Product Total	11666.51	6277.18
ACETIC ANHYDRIDE	BELGIUM	36440.93	27543.92
	NETHERLAND	1920.00	1618.46
	KOREA RP	1293.61	831.54
	TURKEY	1179.52	1261.35
	VIETNAM SOC REP	831.22	794.68
	Product Total	41665.28	32049.94
ACETONE	U S A	11571.56	9579.71
	U ARAB EMTS	4664.10	4302.04
	KENYA	1254.42	1133.45
	TANZANIA REP	778.09	724.38
	SRI LANKA DSR	580.33	533.42
	Product Total	18848.50	16273.00
PHENOL	U ARAB EMTS	7512.12	7310.61
	IRAN	4442.00	4382.43
	TAIWAN	2697.94	2419.53
	NEPAL	2352.54	2175.69
	EGYPT A RP	1906.31	2009.38
	Product Total	18910.91	18297.63
METHANOL	BANGLADESH PR	18545.10	6142.69
	SRI LANKA DSR	11270.66	3042.77
	NIGERIA	6462.91	2460.84
	U ARAB EMTS	5263.41	1263.81
	KENYA	3958.92	1507.51
	Product Total	45501.01	14417.62
FORMALDEHYDE	NEPAL	25470.79	4198.16
	BHUTAN	821.76	147.60
	KENYA	596.01	165.90
	NIGERIA	496.16	149.37
	CHILE	472.40	237.93
	Product Total	27857.12	27857.12
	INDONESIA	80.01	70.90

PRODUCTS	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
NITROBENZENE	JAPAN	60.01	63.08
	U ARAB EMTS	25.00	20.79
	CAMBODIA	16.94	16.56
	NEPAL	16.49	38.50
	Product Total	198.45	209.82
CITRIC ACID	U S A	4598.44	5508.58
	SPAIN	656.26	502.98
	CHINA P RP	148.34	127.43
	NEPAL	134.09	106.72
	ALGERIA	105.56	307.96
	Product Total	5642.70	6553.68
MALEIC ANHYDRIDE	U ARAB EMTS	297.00	272.38
	SAUDI ARAB	198.00	171.83
	BANGLADESH PR	31.00	44.47
	KENYA	6.10	14.79
	SRI LANKA DSR	3.00	3.52
	Product Total	535.10	506.99
PENTAERYTHRITOL	U S A	1557.70	3911.41
	NETHERLAND	324.00	580.10
	THAILAND	200.03	262.35
	INDONESIA	80.00	105.85
	BELGIUM	75.00	298.84
	Product Total	2236.72	5158.56
ANILINE	TURKEY	32.00	59.60
	U S A	16.01	58.84
	MEXICO	9.80	28.36
	BELGIUM	1.02	12.05
	EGYPT A RP	1.00	2.97
	Product Total	59.83	161.82
CHLORO METHANES	SAUDI ARAB	46.07	107.52
	U S A	10.64	60.68
	MOZAMBIQUE	5.06	35.83
	TANZANIA REP	1.49	0.74
	CHINA P RP	1.00	13.21
	Product Total	64.26	217.97
ISOBUTYLBENZENE	U S A	6323.20	10962.76
	CHINA P RP	2991.20	5724.47
	SWITZERLAND	10.88	38.14
	(blank)	9325.28	16725.37
	Grand Total	9325.28	16725.37
	Product Total	27975.84	50176.12
MEK	U ARAB EMTS	1197.55	1113.30
	SAUDI ARAB	123.88	125.04
	NEPAL	1.10	3.62
	SRI LANKA DSR	1.07	3.85
	BANGLADESH PR	0.50	0.67
	Product Total	1324.09	1246.48
ACETALDEHYDE	TURKEY	2009.31	1899.82
	NEPAL	0.81	8.02
	BHUTAN	0.19	0.20
	U ARAB EMTS	0.18	0.15
	EGYPT A RP	0.02	0.13
	Product Total	2010.51	1908.33
ETHANOLAMINES	U ARAB EMTS	505.68	1373.19
	RUSSIA	442.81	2786.38
	TURKEY	340.66	643.54

PRODUCTS	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
	CHINA P RP	321.13	1010.93
	KOREA RP	265.02	3348.55
	Product Total	1875.30	9162.59
ETHYL ACETATE	NIGERIA	20801.34	15842.85
	ITALY	10836.87	7582.59
	BELGIUM	8700.06	6099.18
	KENYA	8493.36	6469.52
	BANGLADESH PR	7020.66	5359.81
	Product Total	55852.28	41353.94
ORTHO NITRO TOLUENE	GERMANY	2897.23	3955.04
	NETHERLAND	359.23	527.92
	JAPAN	337.15	503.65
	KOREA RP	219.31	319.02
	BELGIUM	0.03	0.25
	Product Total	3812.95	5305.87
MALATHION	TURKEY	1288.75	3942.30
	MEXICO	460.00	1400.07
	U S A	200.00	930.14
	MALAYSIA	142.00	484.71
	EGYPT A RP	124.00	419.84
	Product Total	2214.75	7177.06
DIMETHOATE	DJIBOUTI	56.24	199.32
	IRAQ	18.96	62.25
	AZERBAIJAN	11.69	50.38
	U ARAB EMTS	10.55	42.712
	NEPAL	10.415	59.624
	Product Total	107.85	414.28
D.D.V.P.	U ARAB EMTS	6.00	41.43
	HONG KONG	0.03	0.11
	Product Total	6.00	41.43
QUINALPHOS	VIETNAM SOC REP	313.88	1908.49
	BANGLADESH PR	86.01	316.93
	AUSTRALIA	6.25	95.19
	SOUTH AFRICA	1.35	17.92
	TAIWAN	0.30	11.45
	Product Total	407.78	2349.97
CYPERMETHRIN	CHINA P RP	2010.60	10969.68
	BRAZIL	1949.94	10595.77
	NIGERIA	1584.88	3333.26
	THAILAND	1559.91	8185.33
	INDONESIA	1199.35	4873.67
	Product Total	8304.67	37957.71
OTHER PESTICIDES	BRAZIL	870.21	3365.07
	NEPAL	870.09	2034.52
	BANGLADESH PR	568.50	1291.16
	INDONESIA	349.35	1416.73
	VIETNAM SOC REP	324.22	3033.22
	Product Total	2982.38	11140.70
OTHER INSECTICIDES	BRAZIL	28775.10	366344.67
	BANGLADESH PR	7685.56	22195.50
	U S A	7066.17	98353.08
	VIETNAM SOC REP	4926.93	40730.81
	NIGERIA	3803.46	11837.52
	Product Total	52257.22	539461.57
	EGYPT A RP	390.59	1946.73
	SPAIN	200.00	1089.37

PRODUCTS	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
COPPER-OXYCHLORIDE	MOROCCO	187.00	1002.07
	PORTUGAL	176.00	973.57
	THAILAND	124.00	593.86
	Product Total	1077.59	5605.59
2, 4-D	U S A	11598.02	20746.05
	BRAZIL	7942.68	11833.05
	AUSTRALIA	3908.77	6358.72
	ARGENTINA	2560.00	4128.34
	THAILAND	2200.80	3239.70
	Product Total	28210.27	46305.86
ALUMINIUM PHOSPHIDE	NIGERIA	90.36	347.30
	TURKEY	86.20	491.62
	ZAMBIA	57.60	375.38
	BANGLADESH PR	57.00	288.37
	MALAWI	24.00	134.78
	Product Total	315.16	1637.46
METHYL BROMIDE	U ARAB EMTS	390.62	2784.06
	VIETNAM SOC REP	388.76	2383.30
	EGYPT A RP	272.00	1868.33
	AUSTRALIA	180.00	963.16
	EL SALVADOR	137.30	925.97
	Product Total	1368.69	8924.82
OTHER HERBICIDES-ANTI SPROUTING PRODUCTS	U S A	30818.99	517782.28
	BRAZIL	10764.38	84205.51
	ARGENTINA	7269.26	59641.76
	FRANCE	6200.11	61318.10
	CHINA P RP	4106.21	27508.10
	Product Total	59158.95	750455.74
OTHER FUNGICIDE NES	BRAZIL	63699.21	181933.87
	BANGLADESH PR	29267.54	22935.21
	U S A	13061.12	101730.31
	COLOMBIA	11650.99	31767.61
	U ARAB EMTS	10504.31	7560.53
	Product Total	128183.16	345927.53
AZO DYES	ITALY	9747.74	35394.84
	CHINA P RP	9057.14	27277.08
	NETHERLAND	4462.33	12704.95
	SPAIN	4438.58	15684.19
	BRAZIL	3304.89	11363.98
	Product Total	31010.68	102425.03
ACID DIRECT DYES(OTHER THAN AZO)	U S A	2032.36	8257.69
	CHINA P RP	853.77	4768.76
	MEXICO	509.00	1909.93
	MALAYSIA	424.82	1412.28
	ITALY	417.69	2880.42
	Product Total	4237.64	19229.08
BASIC DYES	CHINA P RP	4212.40	11986.05
	THAILAND	1361.50	2848.26
	NETHERLAND	1032.70	2972.33
	U S A	1011.75	5311.86
	BRAZIL	913.84	2904.26
	Product Total	8532.19	26022.76
DISPERSE DYES	TURKEY	3705.64	10700.89
	HONDURAS	1607.23	8029.48
	CHINA P RP	1168.36	7697.76
	EGYPT A RP	820.75	2216.86

PRODUCTS	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
	BRAZIL	767.43	3035.43
	Product Total	8069.41	31680.42
FAST COLOUR BASES	NETHERLAND	413.45	1776.42
	MEXICO	269.50	1171.45
	JAPAN	242.11	1364.21
	CHINA P RP	208.20	1257.76
	U S A	179.50	914.51
	Product Total	1312.76	6484.34
OIL SOLUBLE (SOLVENT DYES)	U K	1247.27	6650.44
	U S A	910.83	10402.80
	CHINA P RP	621.36	7570.38
	U ARAB EMTS	595.10	4641.87
	SINGAPORE	485.78	2291.22
	Product Total	3860.34	31556.70
OPTICAL WHITENING AGENTS	SOUTH AFRICA	1830.26	3431.23
	TURKEY	1485.77	2967.83
	U ARAB EMTS	1426.85	2106.53
	BANGLADESH PR	1384.62	2157.69
	JAPAN	1293.42	1003.00
	Product Total	7420.91	11666.28
ORGANIC PIGMENT	NIGERIA	92.71	103.97
	BANGLADESH PR	7.04	77.95
	SAUDI ARAB	1.65	8.39
	SRI LANKA DSR	1.61	3.98
	OMAN	1.20	7.04
	Product Total	104.20	201.31
PIGMENT EMULSION	U S A	16588.53	121413.64
	NETHERLAND	7849.42	54614.60
	BRAZIL	6029.30	33553.43
	VIETNAM SOC REP	5936.97	26209.86
	CHINA P RP	5512.72	31506.37
	Product Total	41916.93	267297.89
REACTIVE DYES	BANGLADESH PR	47325.79	125434.41
	TURKEY	29067.11	82442.15
	HONDURAS	9714.14	35348.44
	BRAZIL	9488.59	28334.85
	INDONESIA	8016.89	25923.29
	Product Total	103612.52	297483.13
SULPHUR DYES (SULPHUR BLACK)	EGYPT A RP	1216.80	1181.96
	BANGLADESH PR	928.92	928.81
	U ARAB EMTS	381.26	401.18
	ITALY	316.23	421.45
	TURKEY	289.44	341.88
	Product Total	3132.64	3275.27
VAT DYES	CHINA P RP	297.11	9129.20
	U S A	278.20	4923.20
	MAURITANIA	268.36	4228.67
	BANGLADESH PR	203.01	2969.64
	BRAZIL	174.51	2344.49
	Product Total	1221.19	23595.19
SOLUBILISED VAT DYES	INDONESIA	37.67	681.09
	TANZANIA REP	6.62	74.43
	MALAYSIA	4.30	69.32
	BANGLADESH PR	2.72	11.15
	VIETNAM SOC REP	2.45	45.11
	Product Total	53.75	881.09

PRODUCTS	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
FOOD COLOURS	CHINA P RP	3122.86	13498.89
	U S A	2437.12	16341.75
	MEXICO	2411.79	11026.95
	U ARAB EMTS	2144.37	7215.29
	VIETNAM SOC REP	1607.42	5585.29
	Product Total	11723.56	53668.16
NAPTHOLS	U S A	900.58	2452.43
	RUSSIA	879.81	1286.12
	TURKEY	444.13	590.25
	SOUTH AFRICA	372.83	436.55
	U ARAB EMTS	315.32	328.49
	Product Total	2912.66	5093.84
OTHER DYES	NETHERLAND	2862.09	3908.70
	CHINA P RP	1530.18	3949.34
	POLAND	1173.73	1321.66
	MEXICO	1057.45	1882.58
	ITALY	967.47	2671.52
	Product Total	7590.92	13733.81
INORGANIC PIGMENTS	KENYA	7177.96	4557.47
	ECUADOR	3886.99	2693.37
	TANZANIA REP	2662.97	2325.22
	COLOMBIA	2324.33	1240.47
	INDONESIA	1961.69	2358.87
	Product Total	18013.93	13175.39

Source: DGCIS, Kolkata, M/o Commerce and Industry

Table 20: Top Five Import Destinations of selected Chemicals during 2024-25			
PRODUCTS	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
(1)	(2)	(3)	(4)
SODA ASH	TURKEY	379304.81	66262.48
	U S A	226941.42	45619.24
	U ARAB EMTS	162242.94	32735.40
	RUSSIA	128184.90	21995.53
	KENYA	57638.72	12102.27
	Product Total	954312.78	178714.91
CAUSTIC SODA	AUSTRALIA	152054.63	63673.68
	AUSTRIA	50392.06	18716.20
	BANGLADESH PR	33737.26	15422.42
	BELGIUM	29153.76	13311.54
	CANADA	18213.23	5985.36
	Product Total	283550.94	117109.20
LIQUID CHLORINE	FRANCE	1.82	12.39
	U K	0.04	3.33
	SPAIN	0.00	0.03
	HONG KONG	0.00	0.06
	Product Total	1.86	15.81
ALUMINIUM FLUORIDE	CHINA P RP	31529.00	39925.75
	BAHARAIN IS	11783.68	810.40
	ITALY	7398.00	8341.28
	U ARAB EMTS	5046.43	5098.83
	MEXICO	4600.00	4874.41
	Product Total	60357.11	59050.66
CALCIUM CARBIDE	CHINA P RP	21868.97	12002.44
	TAIWAN	0.00	0.17
	Product Total	21868.97	12002.60
CARBON BLACK	CHINA P RP	38690.20	41699.33
	U ARAB EMTS	29794.53	25916.88
	TURKEY	23839.81	22078.39
	KOREA RP	19410.33	24192.54
	RUSSIA	14701.60	13260.33
	Product Total	126436.47	127147.46
POTASSIUM CHLORATE	UNSPECIFIED	40.00	58.20
	KOREA RP	27.00	34.01
	U K	0.00	0.10
	BELGIUM	0.00	0.10
	U S A	0.00	0.14
	Product Total	67.00	92.55
SODIUM CHLORATE	U S A	7881.25	5178.39
	FINLAND	4125.00	2671.23
	SWEDEN	3450.00	2244.50
	CHINA P RP	2069.50	1396.26
	BRAZIL	1250.00	829.24
	Product Total	18775.75	12319.62
TITANIUM DIOXIDE	CHINA P RP	7375.67	15171.13
	KOREA RP	4974.14	11184.32
	BELGIUM	2143.41	8138.97
	JAPAN	1933.03	4545.02
	GERMANY	1252.11	5232.05

PRODUCTS	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
	Product Total	17678.36	44271.49
HYDROGEN PEROXIDE	BANGLADESH PR	33824.95	8429.78
	THAILAND	2983.95	2162.70
	CHINA P RP	1531.80	925.03
	BELGIUM	200.06	144.75
	MALAYSIA	21.86	20.94
	Product Total	38562.62	11683.21
CALCIUM CARBONATE	EGYPT A RP	268443.19	17145.23
	VIETNAM SOC REP	236066.83	20675.55
	MALAYSIA	54235.58	7373.92
	JORDAN	26469.09	2573.45
	TURKEY	4644.55	1116.08
	Product Total	589859.23	48884.23
ACETIC ACID	CHINA P RP	595594.51	203724.90
	MALAYSIA	266482.65	93569.61
	SINGAPORE	168355.45	59740.40
	TAIWAN	86560.03	30626.11
	OMAN	23259.80	7776.08
	Product Total	1140252.44	395437.09
ACETIC ANHYDRIDE	SAUDI ARAB	10163.81	6583.33
	CHINA P RP	581.44	393.66
	U S A	554.66	386.95
	SINGAPORE	346.64	259.78
	Product Total	11646.55	7623.71
ACETONE	THAILAND	66254.29	53603.39
	KOREA RP	30681.24	25068.58
	TAIWAN	27681.61	23732.77
	SINGAPORE	7977.49	6187.16
	CHINA P RP	3445.27	3312.52
	Product Total	136039.90	111904.41
PHENOL	THAILAND	121479.06	105678.73
	SINGAPORE	37281.60	33233.37
	KOREA RP	32499.96	28459.28
	SOUTH AFRICA	21366.91	17752.57
	U S A	19478.78	17002.97
	Product Total	232106.32	202126.92
METHANOL	OMAN	1468833.53	367512.60
	SAUDI ARAB	769356.35	208198.25
	QATAR	369161.25	95746.75
	BAHARAIN IS	144228.09	39717.87
	IRAN	112499.38	28249.47
	Product Total	2864078.60	739424.94
FORMALDEHYDE	SPAIN	2.44	17.93
	GERMANY	1.90	33.40
	U S A	0.17	7.95
	JAPAN	0.01	0.28
	MALAYSIA	0.01	0.02
	Product Total	4.53	59.59
NITROBENZENE	KOREA RP	912.60	760.19
	CHINA P RP	160.00	418.37
	Product Total	1072.60	1178.56

PRODUCTS	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
CITRIC ACID	CHINA P RP	133266.51	80409.66
	TURKEY	3380.17	4038.89
	GERMANY	2190.16	3284.50
	U ARAB EMTS	620.60	344.20
	AUSTRIA	500.20	594.96
	Product Total	139957.65	88672.21
MALEIC ANHYDRIDE	CHINA P RP	73065.23	60612.97
	TAIWAN	14379.50	12196.02
	MALAYSIA	5689.59	5492.46
	KOREA RP	4892.48	4857.65
	RUSSIA	940.50	715.56
	Product Total	98967.30	83874.66
PENTAERYTHRITOL	RUSSIA	6646.83	7719.02
	SWEDEN	5200.00	7242.19
	CHINA P RP	2243.50	2826.58
	BELGIUM	2155.00	3290.67
	TAIWAN	1122.00	1323.94
	Product Total	17367.33	22402.41
ANILINE	CHINA P RP	116263.82	143428.98
	BELGIUM	57248.54	75774.51
	U S A	10377.57	12893.47
	NETHERLAND	10304.85	16120.74
	CZECH REPUBLIC	3919.46	5338.29
	Product Total	198114.23	253555.98
MEK	CHINA P RP	35637.26	31895.74
	TAIWAN	7518.55	7808.51
	SOUTH AFRICA	3194.09	3056.61
	NETHERLAND	1162.22	1124.29
	KOREA RP	1001.74	976.59
	Product Total	48513.85	44861.74
ACETALDEHYDE	BELGIUM	47.48	94.34
	ITALY	34.50	12.86
	U S A	2.47	83.99
	U K	2.37	81.38
	GERMANY	0.60	37.86
	Product Total	87.43	310.43
ETHANOLAMINES	THAILAND	5459.40	4977.98
	U ARAB EMTS	4660.31	3538.08
	MALAYSIA	4651.81	3920.22
	CHINA P RP	3634.30	5124.22
	SAUDI ARAB	2773.00	2189.89
	Product Total	21178.82	19750.39
ETHYL ACETATE	U S A	277.19	809.93
	SINGAPORE	37.81	7.76
	CHINA P RP	28.03	130.03
	U K	10.56	27.78
	KOREA RP	5.58	5.38
	Product Total	359.17	980.88
DIMETHOATE	CHINA P RP	69.00	302.79
	Product Total	69.00	302.79
	CHINA P RP	320.76	6532.28

PRODUCTS	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
OTHER PESTICIDES	RUSSIA	120.00	893.04
	U S A	55.55	416.34
	HONG KONG	48.00	757.57
	JAPAN	38.03	488.61
	Product Total	582.33	9087.84
OTHER INSECTICIDES	CHINA P RP	8301.16	90248.95
	ISRAEL	1004.77	13064.14
	U S A	808.70	99133.87
	JAPAN	803.27	59283.45
	SINGAPORE	530.34	21860.83
	Product Total	11448.25	283591.24
2, 4-D	CHINA P RP	606.00	1045.27
	GERMANY	0.04	0.75
	Product Total	606.04	1046.02
ALUMINIUM PHOSPHIDE	JAPAN	172.37	7912.28
	CHINA P RP	9.22	56.16
	FRANCE	0.24	5.29
	TUNISIA	0.17	5.77
	ISRAEL	0.04	1.03
	Product Total	182.04	7980.53
OTHER HERBICIDES-ANTI SPROUTING PRODUCTS	CHINA P RP	18228.27	75011.48
	U S A	10019.29	54905.40
	ISRAEL	5613.99	39039.52
	TAIWAN	4787.20	7916.40
	JAPAN	457.30	33314.87
	Product Total	39106.06	210187.66
OTHER FUNGICIDE NES	CHINA P RP	7294.77	72328.92
	GERMANY	2703.76	37813.50
	THAILAND	2377.27	11260.46
	NETHERLAND	1718.81	61717.87
	U K	1529.96	22238.73
	Product Total	15624.58	205359.47
AZO DYES	THAILAND	62.83	428.80
	SPAIN	57.83	3342.65
	ITALY	47.01	333.57
	U S A	40.02	110.68
	CHINA P RP	38.87	499.83
	Product Total	246.55	4715.54
ACID DIRECT DYES(OTHER THAN AZO)	MALAYSIA	23.25	70.49
	ITALY	22.52	223.32
	CHINA P RP	19.41	318.31
	U S A	13.22	275.11
	MEXICO	10.89	325.48
	Product Total	89.29	1212.70
BASIC DYES	CHINA P RP	258.02	3292.39
	GERMANY	14.65	146.00
	SWITZERLAND	7.86	111.16
	ITALY	7.23	984.79
	BELGIUM	1.95	26.31
	Product Total	289.71	4560.65
	CHINA P RP	1245.32	10683.37

PRODUCTS	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
DISPERSE DYES	KOREA RP	78.02	542.72
	INDONESIA	61.69	358.42
	ITALY	58.93	399.77
	SRI LANKA DSR	55.61	672.36
	Product Total	1499.57	12656.64
FAST COLOUR BASES	CHINA P RP	236.59	1302.45
	ITALY	1.23	18.65
	U S A	0.55	22.34
	BELGIUM	0.25	0.62
	SPAIN	0.25	2.23
	Product Total	238.86	1346.29
OIL SOLUBLE (SOLVENT DYES)	CHINA P RP	438.41	7974.34
	U ARAB EMTS	155.00	1048.47
	KOREA RP	125.26	797.07
	SPAIN	22.66	136.55
	U S A	22.53	141.09
	Product Total	763.85	10097.52
OPTICAL WHITENING AGENTS	BELGIUM	195.58	2266.24
	CHINA P RP	172.91	1724.06
	NETHERLAND	36.00	464.92
	GERMANY	26.41	449.65
	FRANCE	14.62	70.94
	Product Total	445.52	4975.81
ORGANIC PIGMENT	INDONESIA	505.00	860.63
	CHINA P RP	98.88	701.41
	ITALY	5.33	145.09
	U S A	3.53	55.82
	GERMANY	0.77	23.49
	Product Total	613.52	1786.43
PIGMENT EMULSION	CHINA P RP	5996.94	38033.89
	TAIWAN	634.72	3283.20
	KOREA RP	456.50	3713.67
	BELGIUM	441.14	9559.90
	GERMANY	341.15	7447.81
	Product Total	7870.45	62038.47
REACTIVE DYES	THAILAND	1522.50	14454.71
	KOREA RP	1453.22	7504.21
	CHINA P RP	514.72	5300.99
	TURKEY	290.49	1795.05
	UNSPECIFIED	71.65	354.19
	Product Total	3852.58	29409.14
SULPHUR DYES (SULPHUR BLACK)	CHINA P RP	4493.93	9418.40
	SPAIN	179.97	702.20
	SINGAPORE	20.01	86.04
	U K	20.00	22.21
	KOREA RP	5.40	537.59
	Product Total	4719.30	10766.42
VAT DYES	CHINA P RP	7663.20	41170.21
	SINGAPORE	5717.40	11499.07
	GERMANY	114.49	779.30
	CZECH REPUBLIC	72.00	420.93

PRODUCTS	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
	HONG KONG	26.00	152.69
	Product Total	13593.10	54022.19
SOLUBILISED VAT DYES	ITALY	10.00	106.67
	SWITZERLAND	9.19	177.12
	TURKEY	7.53	26.88
	CHINA P RP	3.65	36.05
	GERMANY	1.40	39.39
	Product Total	31.77	386.12
FOOD COLOURS	U S A	123.33	2722.47
	U ARAB EMTS	109.26	619.59
	CHINA P RP	76.62	3106.35
	KOREA RP	73.68	372.06
	BULGARIA	25.98	49.15
	Product Total	408.87	6869.62
NAPTHOLS	CHINA P RP	1267.71	4487.75
	MALAYSIA	40.85	75.96
	U S A	10.48	37.67
	GERMANY	4.98	31.46
	JAPAN	3.60	181.67
	Product Total	1327.62	4814.50
OTHER DYES	U K	1581.38	5224.12
	U S A	270.46	3941.92
	CHINA P RP	54.31	182.69
	ITALY	21.09	224.46
	SINGAPORE	13.25	50.68
	Product Total	1940.48	9623.87
INORGANIC PIGMENTS	CHINA P RP	2734.03	8726.20
	INDONESIA	2350.20	4389.61
	U ARAB EMTS	1554.78	4031.07
	VIETNAM SOC REP	1196.30	1083.40
	U S A	956.65	4213.51
	Product Total	8791.95	22443.79

Source: DGCIS, Kolkata, M/o Commerce and Industry

Table 21: Exports of Major Petrochemicals (Group-wise) during 2017-18 to 2024-25

[QTY in MT & VAL in Rs. Lakh]

GROUP	2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	
	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
SYNTHETIC FIBRES	1001053	977982	1015666	1172008	1059348	1054987	878619	787040	1202246	1438887	759004	1026104	683488	889562	806398	993853
FIBRE INTERMEDIATES	351358	181069	456955	275919	234372	123612	475165	162929	127582	86540	56213	60804	35761	38224	36919	43434
POLYMERS	1188233	891771	1934155	1558391	1615451	1095332	1488512	968069	921155	942517	586351	622514	705293	689804	743167	704720
SYNTHETIC RUBBER (ELASTOMERS)	51889	54589	63550	70696	74036	73065	95037	79421	89936	111822	70431	97450	92441	103915	111210	132704
SYNTHETIC DETERGENT INTERMEDIATES	1413	1468	1048	1534	1044	1479	1876	1939	7491	8701	2523	3107	3686	5704	3158	4962
PERFORMANCE PLASTICS	1050548	747271	1080286	1018773	968791	739010	217142	198743	283722	353686	181928	287567	157418	231371	141716	224729
OLEFINS	260597	179804	368714	276701	336140	188100	284988	136102	255597	173883	161748	117262	189106	127559	188344	192291
AROMATICS	3303041	1754998	4550911	2880299	4271477	2337408	4660796	1854685	4434556	2998035	2660009	2132705	1774952	1346591	1697190	1381349
OTHER PETRO-BASED CHEMICALS	193342	138613	147298	139759	237571	194934	171468	169127	212298	249815	189073	224161	208633	212881	216469	215932
TOTAL EXPORT OF MAJOR PETROCHEMICALS	7401474	4927565	9618583	7394080	8798230	5807927	8273603	4358055	7534583	6363886	4667280	4571674	3850778	3645611	3944571	3893974

Source: DGCIS, Kolkata, M/o Commerce and Industry

Table 22: Imports of Major Petrochemicals (Group-wise) during 2017-18 to 2024-25

[QTY in MT & VAL in Rs. Lakh]

GROUP	2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	
	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
SYNTHETIC FIBRES	259632	363079	275617	453356	346600	460883	403273	410701	460377	678520	670250	864661	610796	704902	397816	576082
FIBRE INTERMEDIATES	1808425	1072331	1454656	1056882	1919655	1059484	1441326	649525	2626726	1713284	3355729	2176204	2929291	1771593	3486813	2191973
POLYMERS	4751478	3549286	4479129	3684829	3430180	2639363	2641372	2142272	2941493	3267215	4789378	4956650	5312985	4757153	4191350	3932223
SYNTHETIC RUBBER (ELASTOMERS)	607867	741750	618500	851418	574832	709547	747278	718860	635138	1144125	673480	1320567	723837	1112058	829492	1319243
SYNTHETIC DETERGENT INTERMEDIATES	205984	164533	227136	210428	264058	237426	265406	216258	277828	336160	342892	523554	251536	338928	287428	368395
PERFORMANCE PLASTICS	582692	621047	683851	891721	740577	782460	298958	293817	282523	394910	292316	414336	417879	470823	426614	532831
OLEFINS	50791	43283	69700	57846	75857	51011	43875	33958	91880	76193	94231	102839	68159	57346	63174	57361
AROMATICS	1321018	708548	1320424	910212	1327535	772834	1300486	542096	1124365	742531	1245729	1123727	1509211	1327413	1795425	1486329
OTHER PETRO-BASED CHEMICALS	3255244	2232102	3227017	2709229	3543017	2388328	3068899	2152067	3291372	3656404	3425800	3404342	3326576	2852163	3620579	3219382
TOTAL IMPORT OF MAJOR PETROCHEMICALS	12843131	9495959	12356030	10825921	12222311	9101336	10210873	7159554	11731702	12009342	14889805	14886880	15150270	13392379	15098691	13683819

Source: DGCIS, Kolkata, M/o Commerce and Industry

Table 23: Net Imports of Major Petrochemicals (Group Wise) during 2017-18 to 2024-25

[QTY in MT & VAL in Rs. Lakh]

GROUP	2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	
	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
SYNTHETIC FIBRES	-741421	-614903	-740049	-718652	-712748	-594104	-475346	-376339	-741869	-760367	-88754	-161443	-72692	-184660	-408582	-417771
FIBRE INTERMEDIATES	1457067	891262	997701	780963	1685283	935872	966161	486596	2499144	1626744	3299516	2115400	2893530	1733369	3449894	2148539
POLYMERS	3563245	2657515	2544974	2126438	1814729	1544031	1152860	1174203	2020338	2324698	4203027	4334136	4607692	4067349	3448183	3227503
SYNTHETIC RUBBER (ELASTOMERS)	555978	687161	554950	780722	500796	636482	652241	639439	545202	1032303	603049	1223117	631396	1008143	718282	1186539
SYNTHETIC DETERGENT INTERMEDIATES	204571	163065	226088	208894	263014	235947	263530	214319	270337	327459	340369	520447	247850	333224	284270	363433
PERFORMANCE PLASTICS	-467856	-126224	-396435	-127052	-228214	43450	81816	95074	-1199	41224	110388	126769	260461	239452	284898	308102
OLEFINS	-209806	-136521	-299014	-218855	-260283	-137089	-241113	-102144	-163717	-97690	-67517	-14423	-120947	-70213	-125170	-134930
AROMATICS	-1982023	-1046450	-3230487	-1970087	-2943942	-1564574	-3360310	-1312589	-3310191	-2255504	-1414280	-1008978	-265741	-19178	98235	104980
OTHER PETRO-BASED CHEMICALS	3061902	2093489	3079719	2569470	3305446	2193394	2897431	1982940	3079074	3406589	3236727	3180181	3117943	2639282	3404110	3003450
TOTAL NET IMPORT OF MAJOR PETROCHEMICALS	5441657	4568394	2737447	3431841	3424081	3293409	1937270	2801499	4197119	5645456	10222525	10315206	11299492	9746768	11154120	9789845

Table 24: Exports of Major Petrochemicals (Product Wise) 2017-18 to 2024-25

[QTY in MT & VAL in Rs. Lakh]

PRODUCT	2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	
	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
SYNTHETIC FIBRES																
ACRYLIC FIBRE	39213	52227	45932	71700	40505	59726	25569	33923	23743	43557	28587	61652	20908	45729	18194	39253
NYLON FILAMENT YARN	4014	12111	5794	18888	7748	22360	6098	15495	9363	29452	8708	28857	9387	29703	11367	36187
NYLON INDUSTRIAL YARN/TYRE CORD	1620	2239	1895	2827	3624	5116	4296	5939	5312	9033	6586	12303	8696	14032	10785	18298
POLYESTER FILAMENT YARN	717714	730282	696668	839555	711319	750466	540650	545550	762473	966876	472031	665983	417895	572320	469178	609962
POLYESTER STAPLE FIBRE	227441	169364	255455	225045	285157	204876	291399	172242	383703	329736	227366	228194	207111	185686	275758	245958
POLYPROPYLENE FILAMENT YARN	869	1117	494	713	720	965	729	1005	798	1297	1015	1629	1187	1813	1199	1845
POLYPROPYLENE STAPLE FIBRE	9497	8663	7892	8446	9509	9103	8212	7668	10896	14033	12126	16028	9897	12607	11213	15034
Elastomeric/Spandex Filament Yarn	685	1979	1536	4834	766	2375	1666	5218	5958	44903	2585	11458	8407	27672	8704	27316
TOTAL	1001053	977982	1015666	1172008	1059348	1054987	878619	787040	1202246	1438887	759004	1026104	683488	889562	806398	993853
FIBRE INTERMEDIATES																
ACRYLONITRILE	1514	1900	1872	3059	2988	3262	8533	8178	1956	3401	12005	15568	4013	4241	7021	7588
CAPROLACTUM	53	93	77	129	258	327	6225	4672	25	554	62	130	109	185	173	543
DIMETHYL TEREPHTHALATE	0	0	1	2	0	1	0	0	0	0	58	113	17	29	70	63
MONO EHYLENE GLYCOL	137462	90499	292583	175325	151301	81361	325429	105684	71204	48936	39649	37248	29635	29487	26710	30142
PURIFIED TEREPHTHALIC ACID	212329	88577	162422	97404	79825	38661	134978	44395	54397	33649	4439	7745	1987	4282	2945	5098
TOTAL	351358	181069	456955	275919	234372	123612	475165	162929	127582	86540	56213	60804	35761	38224	36919	43434
POLYMERS																
LOW DENSITY POLYETHYLENE	108257	88430	164142	132765	140022	98135	39442	35801	49187	66522	72626	100016	66552	81472	46536	62541
HIGH DENSITY POLYTHYLENE	205797	155550	457416	365235	486892	315945	398659	247524	198169	192824	70053	95448	178419	173281	176074	168398
POLYESTYRENE	69814	67452	63990	64060	49611	43139	36502	27805	44494	52518	39224	46728	59050	62781	53246	60801
POLYPROPYLENE (INC. CO-POLYMER)	552002	397646	718053	596611	539045	386684	861712	561818	546609	547136	351751	324200	349110	324624	400176	350896
EXPANDABLE POLYESTYRENE	3119	3272	3064	3818	2745	2762	894	895	944	1279	2403	3127	2615	2721	4266	5104
POLY VINYL CHLORIDE	6662	6015	2133	1788	2060	1471	16985	8467	2537	2894	967	1337	1929	1614	1858	1607
LINEAR LOW DENSITY POLYTHYLENE	228952	163632	508135	380841	395076	247196	134318	85759	66494	65425	39851	40881	47341	43068	61011	55373
PVC COMPOUND	13630	9774	17222	13273	0	0	0	0	12721	13919	9476	10777	277	243	0	0
TOTAL	1188233	891771	1934155	1558391	1615451	1095332	1488512	968069	921155	942517	586351	622514	705293	689804	743167	704720
SYNTHETIC RUBBER (ELASTOMERS)																
STYRENE BUTADIENE RUBBER	40704	36382	46179	43572	44929	37838	39757	28768	35715	38037	36863	42498	48685	48453	51128	57277
POLY BUTADIENE RUBBER	7012	7376	13175	15311	20323	19289	23329	15059	22558	28190	2556	3863	4594	6238	2716	4580
ETHYL PROPYLENE DIMERS	2517	7696	2463	7958	2292	7284	1371	3275	1429	3438	1067	3222	831	2316	1549	3889
ETHYL VINYL ACETATE	901	1314	530	1251	999	1614	1042	1650	1381	3351	4906	8986	1722	2996	2498	3748
NITRILE BUTADIENE RUBBER	427	1128	507	1316	719	1316	3823	4326	7134	9282	8097	8482	14873	10650	26029	20011
BUTYL RUBBER	328	693	696	1288	4774	5724	25715	26343	21719	29524	16942	30399	21736	33262	27290	43199
TOTAL	51889	54589	63550	70696	74036	73065	95037	79421	89936	111822	70431	97450	92441	103915	111210	132704
SYNTHETIC DETERGENT INTERMEDIATES																
LINEAR ALKYL BENZENE	930	809	323	367	193	253	926	956	6402	7462	1135	1096	2328	3804	1911	3241
ETHYLENE OXIDE	483	659	725	1167	851	1226	950	983	1089	1239	1388	2011	1358	1900	1247	1721

PRODUCT	2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	
	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL
TOTAL	1413	1468	1048	1534	1044	1479	1876	1939	7491	8701	2523	3107	3686	5704	3158	4962
PERFORMANCE PLASTICS																
ABS RESIN	273	445	449	622	328	598	407	673	1744	2197	393	879	499	955	928	1387
NYLON-6	21353	34774	19744	38965	21214	40855	0	0	0	0	0	0	0	0	0	0
POLYMETHYL METHACRYLATE	3563	3584	4323	5218	4632	5586	3296	4774	4104	6781	3381	5101	3201	5080	2766	5113
STYRENE ACRYLONITRILE	1179	682	387	380	460	362	230	212	817	990	2606	2616	7541	6256	3010	2502
POLYESTER CHIPS/PET CHIPS	1014588	655326	1043386	889691	930982	618181	202297	117960	262129	221810	163189	156350	135681	117466	122692	106310
POLYTETRAFLUOROETHYLENE(PTFE)	9592	52460	11997	83897	11175	73428	10912	75124	14928	121908	12359	122621	10496	101614	12320	109417
TOTAL	1050548	747271	1080286	1018773	968791	739010	217142	198743	283722	353686	181928	287567	157418	231371	141716	224729
OLEFINS																
BUTADIENE	103426	73371	136191	113889	174252	103916	166809	72272	144095	89886	121316	86424	153080	101981	171456	179840
ETHYLENE	136426	97327	193233	140672	152230	79955	102895	57712	111502	83997	40432	30837	36026	25578	16888	12449
PROPYLENE	20745	9106	39290	22140	9658	4229	15284	6118	0	0	0	1	0	0	0	2
TOTAL	260597	179804	368714	276701	336140	188100	284988	136102	255597	173883	161748	117262	189106	127559	188344	192291
AROMATICS																
BENZENE	1286323	662408	1651123	822052	1408477	635303	1507626	559554	1922951	1388168	1451638	1156971	1473996	1093052	1461230	1188862
MIXED XYLENE	418	278	981	668	410	297	535	330	46	57	127	167	254	302	135	186
ORTHO-XYLENE	185675	86881	225703	122734	177267	100950	309550	127934	234328	148221	121303	108059	11698	11119	2269	2029
TOLUENE	4103	2772	13601	9501	8124	5564	17834	9791	17804	13832	14714	15295	29372	26908	19793	18639
PARAXYLENE	1826522	1002659	2659503	1925344	2677199	1595294	2825251	1157076	2259427	1447757	1072227	852213	259632	215210	213763	171633
TOTAL	3303041	1754998	4550911	2880299	4271477	2337408	4660796	1854685	4434556	2998035	2660009	2132705	1774952	1346591	1697190	1381349
OTHER PETRO-BASED CHEMICALS																
ETHYLENE DICHLORIDE	44861	6510	19181	4478	80857	20134	37412	8605	5902	3221	450	358	117	125	134	90
BUTANOL	863	703	452	655	282	287	1032	1288	577	887	627	781	3285	3550	4325	4424
OXO ALCOHOL	890	682	2935	1505	1328	1146	740	2021	988	5590	1293	7097	1293	5882	1149	5588
2-ETHYL HEXANOL	2636	1701	3175	2781	46	54	1408	1412	3463	5010	754	1104	545	647	102	404
VINYL CHLORIDE MONOMER	0	0	0	3	0	0	0	1	6	8	25	52	0	1	0	4
EPICHLHYDRINE	49	76	48	90	106	183	58	306	28	275	5248	10478	7201	8143	11880	13205
ISO BUTYLENE	0	2	0	1	18085	9028	6048	2593	18588	12966	14076	12958	16763	15508	1995	1929
METAXYLENE	4	263	15	282	35	587	18	857	20	676	41	711	9	452	10331	9334
METHYL ISOBUTYL KETONE	940	878	2038	1817	2165	1525	667	882	1350	2681	809	1271	1652	2412	1206	1851
PIB	2620	2711	4297	4788	5828	5839	9729	8097	6327	7754	11191	15029	16147	21298	12463	17732
POLYCARBONATE	4926	5370	3432	4605	3331	3621	4447	5685	4603	6563	2980	6280	3257	4833	3067	4105
PROPYLENE OXIDE	0	0	0	0	0	1	0	1	0	3	0	1	0	0	0	6
PROPYLENE GLYCOL	1117	1713	1697	2419	5934	6573	3254	3931	1706	5187	3175	7345	5850	7934	2086	5137
POLYVINYL ACETATE RESIN	6958	6522	8510	8622	9048	7767	8175	7358	9527	15019	9247	18218	11799	18262	14514	21120
UNSATURATED POLYSTER RESIN	14436	18212	14667	21668	15498	22694	17443	27544	22071	42671	23605	47919	28603	43137	26081	43977
ETHYL BENZENE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CELLULOSE ACETATE BUTYRATE	1	18	1	15	0	0	9	39	0	2	0	0	0	0	0	0
CELLULOSE ACETATE SHEET	59	145	22	79	33	106	25	102	13	39	4	15	1	7	1	4
CELLULOSE NITRATE SHEET	2	5	7	24	5	9	4	31	2	13	2	11	1	3	5	11

PRODUCT	2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	
	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL
MELAMINE MOULDING POWDER	14754	3747	16578	4758	21691	6495	21800	6695	32531	11571	42319	17085	53985	21947	61865	19302
POLYACETAL RESIN	141	279	276	402	334	540	590	1081	1636	3556	1547	4220	1749	4679	725	1808
PHTHALIC ANHYDRIDE	37869	25156	26495	18956	28898	17976	23296	12668	32492	25529	20742	20677	31074	28547	20827	19695
STYRENE	4524	3842	6531	6690	4366	3326	17361	7081	41340	42223	38041	38529	9853	10065	21442	21965
VINYL ACTATE MONOMER	21261	13220	8344	6623	3434	2260	1834	1231	4545	6316	2117	2775	7743	6225	13046	10029
ISOPROPANOL	11004	7850	6281	5336	10442	7773	8298	9567	11100	11539	10780	11247	7706	9224	9225	14212
POLYOL	23427	39008	22316	43162	25825	77010	7820	60051	13483	40516	0	0	0	0	0	0
TOTAL	193342	138613	147298	139759	237571	194934	171468	169127	212298	249815	189073	224161	208633	212881	216469	215932
TOTAL EXPORT OF MAJOR PETRO-CHEMICALS	7401474	4927565	9618583	7394080	8798230	5807927	8273603	4358055	7534583	6363886	4667280	4571674	3850778	3645611	3944571	3893974

Source: DGCIS, Kolkata, M/o Commerce and Industry

Table 25: Imports of Major Petrochemicals (Product Wise) 2017-18 to 2024-25

[QTY in MT & VAL in Rs. Lakh]

PRODUCT	2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	
	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
SYNTHETIC FIBRES																
ACRYLIC FIBRE	32184	46549	40475	71158	56316	84841	41928	53586	35164	76074	26049	57635	15921	26370	17831	31824
NYLON FILAMENT YARN	22731	43317	23259	52088	24476	49669	17058	34533	25307	60951	38680	82278	28859	60294	48312	101112
NYLON INDUSTRIAL YARN/TYRE CORD	6566	10070	8108	16323	6893	11802	9459	15174	11445	31261	8720	20790	4002	8643	4358	10556
POLYESTER FILAMENT YARN	82784	100756	83954	118045	115170	129162	238680	197017	295709	343248	487693	540875	493203	508672	241598	307183
POLYESTER STAPLE FIBRE	88990	71053	91775	89685	118176	94729	84273	64616	78310	78489	95480	95660	54707	54635	70376	71960
POLYPROPYLENE FILAMENT YARN	1343	1715	1362	2007	670	954	755	1418	315	975	164	1092	263	391	322	498
POLYPROPYLENE STAPLE FIBRE	3281	3378	3333	3863	2778	3097	2164	2316	2986	4218	4706	5998	7045	7636	5748	6463
Elastomeric/Spandex Filament Yarn	21753	86241	23351	100187	22121	86629	8956	42041	11141	83304	8758	60333	6796	38261	9271	46486
TOTAL	259632	363079	275617	453356	346600	460883	403273	410701	460377	678520	670250	864661	610796	704902	397816	576082
FIBRE INTERMEDIATES																
ACRYLONITRILE	159778	172707	182234	244043	175867	200713	135230	121075	175763	298158	233759	302358	180891	183030	210456	228330
CAPROLACTUM	58413	75965	66497	99336	68049	75256	57649	55553	60061	94382	22757	36652	20987	29435	61700	86705
DIMETHYL TEREPHTHALATE	2256	1520	1455	1137	1807	1199	1766	982	1973	1567	1934	2217	1510	1953	2191	2930
MONO EHYLENE GLYCOL	1066477	584695	634714	371592	787574	312149	621221	226286	917787	471777	1500812	666600	1102661	462698	1119022	523908
PURIFIED TEREPHTHALIC ACID	521501	237444	569756	340774	886358	470167	625460	245629	1471142	847400	1596467	1168377	1623242	1094477	2093444	1350100
TOTAL	1808425	1072331	1454656	1056882	1919655	1059484	1441326	649525	2626726	1713284	3355729	2176204	2929291	1771593	3486813	2191973
POLYMERS																
LOW DENSITY POLYETHYLENE	464591	398992	341063	310441	352372	282510	256287	208489	222431	268779	278393	331845	307929	307019	314526	352873
HIGH DENSITY POLYTHYLENE	993072	840665	902265	872720	787964	634354	810467	648402	827307	863139	1628435	1690936	2055552	1882968	1306283	1218651
POLYESTYRENE	52790	64224	56312	69827	54371	62759	69916	81878	65664	121494	112718	178082	107697	147992	106478	164620
POLYPROPYLENE (INC. CO-POLYMER)	938998	762085	854828	837001	994615	853958	854399	746492	1136898	1290866	1701271	1778886	1718627	1587887	1581912	1562738
EXPANDABLE POLYESTYRENE	2644	2744	1241	1611	1037	1184	4684	4308	5511	6709	1822	2705	1327	1920	1827	2447
POLY VINYL CHLORIDE	1846296	1123738	2037570	1354121	928376	587544	419309	300980	460352	508138	590624	534672	688297	471250	670758	455779
LINEAR LOW DENSITY POLYTHYLENE	425112	335698	276313	228745	311445	217054	226310	151723	223153	208037	476089	439494	433524	358058	209554	175098
PVC COMPOUND	27975	21140	9537	10363	0	0	0	0	177	53	26	30	32	59	12	17
TOTAL	4751478	3549286	4479129	3684829	3430180	2639363	2641372	2142272	2941493	3267215	4789378	4956650	5312985	4757153	4191350	3932223
SYNTHETIC RUBBER (ELASTOMERS)																
STYRENE BUTADIENE RUBBER	132989	161301	123010	156987	102738	118659	152373	149081	169618	256501	166616	287301	180487	267764	203774	351517
POLY BUTADIENE RUBBER	94772	122673	104671	138315	97712	107321	114961	113497	109987	167151	134822	233641	124579	173138	152166	256191
ETHYL PROPYLENE DIMERS	45099	59035	52800	80061	45465	59429	41810	52572	48943	101663	54585	130656	65697	121152	68403	131233
ETHYL VINYL ACETATE	183348	184503	178684	202884	193671	212988	189581	212461	182004	383881	206182	406974	235318	317919	297581	360128
NITRILE BUTADIENE RUBBER	40310	63203	38519	73014	41179	60140	158510	52408	38508	78806	46436	108043	54323	97486	47372	91521
BUTYL RUBBER	111349	151035	120816	200157	94067	151010	90043	138841	86078	156123	64839	153952	63433	134599	60196	128653
TOTAL	607867	741750	618500	851418	574832	709547	747278	718860	635138	1144125	673480	1320567	723837	1112058	829492	1319243
SYNTHETIC DETERGENT INTERMEDIATES																
LINEAR ALKYL BENZENE	205910	163748	227111	210012	264026	236771	265392	215927	277724	333278	342695	521880	251354	337041	287391	366978
ETHYLENE OXIDE	74	785	25	416	32	655	14	331	104	2882	197	1674	182	1887	37	1417
TOTAL	205984	164533	227136	210428	264058	237426	265406	216258	277828	336160	342892	523554	251536	338928	287428	368395
PERFORMANCE PLASTICS																
ABS RESIN	98026	131230	119398	173631	104643	126833	98848	129553	112791	210059	115165	195968	128502	176444	156615	231084
NYLON-6	175945	299915	215718	430268	217382	345202	0	0	0	0	0	0	0	0	0	0
POLYMETHYL METHACRYLATE	29994	47445	29540	55142	29331	45525	31774	44980	25928	51293	33196	65329	35529	62843	40401	84479
STYRENE ACRYLONITRILE	9430	10630	9188	11431	10452	11103	13347	14631	20468	29048	23791	32202	25262	28956	48834	60145
POLYESTER CHIPS/PET CHIPS	266358	113614	307111	199059	375865	233917	151926	85030	120110	80693	116151	87603	223870	167835	175511	124622
POLYTETRAFLUOROETHYLENE (PTFE)	2939	18213	2896	22190	2904	19880	3063	19623	3226	23817	4013	33234	4716	34745	5253	32501
TOTAL	582692	621047	683851	891721	740577	782460	298958	293817	282523	394910	292316	414336	417879	470823	426614	532831

PRODUCT	2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	
	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
OLEFINS																
BUTADIENE	2859	3104	1048	1363	14	82	29	108	24	138	8803	9232	17	40	22	66
ETHYLENE	39119	32795	60583	50604	64816	43283	39902	28526	62387	49807	76690	85887	61766	52224	63051	57045
PROPYLENE	8813	7384	8069	5879	11027	7646	3944	5324	29469	26248	8738	7720	6376	5082	101	250
TOTAL	50791	43283	69700	57846	75857	51011	43875	33958	91880	76193	94231	102839	68159	57346	63174	57361
AROMATICS																
BENZENE	60	66	22264	12820	11153	5330	19212	8254	4195	2724	11073	7764	4861	2679	0	28
MIXED XYLENE	2424	1200	641	433	122	139	524	293	40	60	2077	1865	22	53	57	92
ORTHO-XYLENE	15730	8337	22974	15464	16382	9962	25136	11309	16390	11452	50955	49532	64537	59079	243730	222732
TOLUENE	414144	194854	438055	235492	464497	238119	601835	238357	500323	315330	584524	514839	594852	503148	586829	466936
PARAXYLENE	888660	504091	836490	646003	835381	519284	653779	283883	603417	412965	597100	549727	844939	762454	964809	796541
TOTAL	1321018	708548	1320424	910212	1327535	772834	1300486	542096	1124365	742531	1245729	1123727	1509211	1327413	1795425	1486329
OTHER PETRO-BASED CHEMICALS																
ETHYLENE DICHLORIDE	713334	108450	581677	141440	780433	182591	632881	150504	625955	379706	663234	262323	577528	164090	609141	167875
BUTANOL	53679	30719	48955	35342	58865	33488	43270	27054	29060	35970	39170	35136	60184	46646	69574	57319
OXO ALCOHOL	2272	6324	2696	7376	2873	6210	2798	4355	3088	5707	2283	7831	4435	9652	5658	11736
2-ETHYL HEXANOL	58129	39652	54107	44522	81656	56216	56250	38505	13840	19050	54665	63018	32236	33549	85672	93988
VINYL CHLORIDE MONOMER	484390	247256	457532	252913	511166	280807	479876	315306	581809	552782	537183	410677	508296	304495	517175	298679
EPICHLHYDRINE	56024	51446	65013	83311	61163	72337	55202	58174	66405	118899	71546	121208	65402	65780	58309	59406
ISO BUTYLENE	48702	36009	44558	40254	10787	7475	1806	1231	54	143	13	81	58	112	66	166
METAXYLENE	2078	2064	2943	3306	1910	1991	2711	2492	4726	4208	3033	4713	4575	6107	1826	2354
METHYL ISOBUTYL KETONE	34684	31270	33932	29589	29977	18245	30744	31945	37198	62842	31195	36790	45652	61990	46969	61472
PIB	15041	16964	16287	20089	16125	19857	16396	18107	18485	24889	19902	33102	18736	29218	22681	39241
POLYCARBONATE	158944	256209	190435	369272	175692	263317	179111	267899	211794	475954	224233	503033	280334	506948	324811	554508
PROPYLENE OXIDE	23446	23594	26800	30694	20160	20127	17361	22038	20504	32293	24821	34135	28267	33184	41565	49251
PROPYLENE GLYCOL	57333	49579	66498	69089	67372	54615	59532	55321	62175	129778	69814	105480	82296	87130	89922	92752
POLYVINYL ACETATE RESIN	3448	5059	2713	3894	3578	4955	3818	4871	4451	7998	5402	11596	2218	4788	2895	4645
UNSATURATED POLYSTER RESIN	49888	53751	42954	59992	48616	58735	49482	58712	48099	98713	54046	114548	69758	107589	69648	107180
ETHYL BENZENE	351	320	719	806	463	471	500	490	947	1247	666	1050	867	1184	1052	1510
CELLULOSE ACETATE BUTYRATE	3	10	0	0	12	18	19	14	57	106	4	254	10	20	0	3
CELLULOSE ACETATE SHEET	1346	921	1516	1122	1356	1013	1311	1059	1645	1632	1572	1649	1204	1661	1856	1934
CELLULOSE NITRATE SHEET	99	327	106	396	75	270	1243	538	521	366	134	276	103	453	103	274
MELAMINE MOULDING POWDER	14699	16993	15280	20127	14945	18772	11992	15425	13559	23132	15827	28395	18512	28405	18554	27446
POLYACETAL RESIN	43672	43617	48759	59046	47673	53004	49011	56158	48878	72046	61732	121350	63872	107068	65700	110403
PHTHALIC ANHYDRIDE	130440	86282	144801	107477	174482	110039	140781	80887	121211	91699	94250	88182	79821	72552	60405	55427
STYRENE	789273	654655	817779	744118	876922	610879	738149	459419	888499	799875	1093429	1015028	1064752	931586	1136773	1110463
VINYL ACTATE MONOMER	184964	117193	171353	135851	162866	98977	138364	88247	178958	252872	211731	281602	208704	153405	226119	159751
ISOPROPANOL	110464	71816	141113	98531	154095	83539	186792	164736	135446	112481	145915	122885	108756	94551	164105	151599
POLYOL	218541	281622	248491	350672	239755	330380	169499	228580	174008	352016	0	0	0	0	0	0
TOTAL	3255244	2232102	3227017	2709229	3543017	2388328	3068899	2152067	3291372	3656404	3425800	3404342	3326576	2852163	3620579	3219382
TOTAL IMPORT OF MAJOR PETRO-CHEMICALS	12843131	9495959	12356030	10825921	12222311	9101336	10210873	7159554	11731702	12009342	14889805	14886880	15150270	13392379	15098691	13683819

Source: DGCIS, Kolkata, M/o Commerce and Industry

Table 26: Net Imports of Major Petrochemicals (Product-wise) 2017-18 to 2024-25

[QTY in MT & VAL in Rs. Lakh]

PRODUCT	2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	
	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
SYNTHETIC FIBRES																
ACRYLIC FIBRE	-7029	-5678	-5457	-542	15811	25115	16359	19663	11421	32517	-2538	-4017	-4987	-19359	-363	-7429
NYLON FILAMENT YARN	18717	31206	17465	33200	16728	27309	10960	19038	15944	31499	29972	53421	19472	30591	36945	64925
NYLON INDUSTRIAL YARN/TYRE CORD	4946	7831	6213	13496	3269	6686	5163	9235	6133	22228	2134	8487	-4694	-5389	-6427	-7742
POLYESTER FILAMENT YARN	-634930	-629526	-612714	-721510	-596149	-621304	-301970	-348533	-466764	-623628	15662	-125108	75308	-63648	-227580	-302779
POLYESTER STAPLE FIBRE	-138451	-98311	-163680	-135360	-166981	-110147	-207126	-107626	-305393	-251247	-131886	-132534	-152404	-131051	-205382	-173998
POLYPROPYLENE FILAMENT YARN	474	598	868	1294	-50	-11	26	413	-483	-322	-851	-537	-924	-1422	-877	-1347
POLYPROPYLENE STAPLE FIBRE	-6216	-5285	-4559	-4583	-6731	-6006	-6048	-5352	-7910	-9815	-7420	-10030	-2852	-4971	-5465	-8571
Elastomeric/Spandex Filament Yarn	21068	84262	21815	95353	21355	84254	7290	36823	5183	38401	6173	48875	-1611	10589	567	19170
TOTAL	-741421	-614903	-740049	-718652	-712748	-594104	-475346	-376339	-741869	-760367	-88754	-161443	-72692	-184660	-408582	-417771
FIBRE INTERMEDIATES																
ACRYLONITRILE	158264	170807	180362	240984	172879	197451	126697	112897	173807	294757	221754	286790	176878	178789	203435	220742
CAPROLACTUM	58360	75872	66420	99207	67791	74929	51424	50881	60036	93828	22695	36522	20878	29250	61527	86162
DIMETHYL TEREPHTHALATE	2256	1520	1454	1135	1807	1198	1766	982	1973	1567	1876	2104	1493	1924	2121	2867
MONO EHYLENE GLYCOL	929015	494196	342131	196267	636273	230788	295792	120602	846583	422841	1461163	629352	1073026	433211	1092312	493766
PURIFIED TEREPHTHALIC ACID	309172	148867	407334	243370	806533	431506	490482	201234	1416745	813751	1592028	1160632	1621255	1090195	2090499	1345002
TOTAL	1457067	891262	997701	780963	1685283	935872	966161	486596	2499144	1626744	3299516	2115400	2893530	1733369	3449894	2148539
POLYMERS																
LOW DENSITY POLYETHYLENE	356334	310562	176921	177676	212350	184375	216845	172688	173244	202257	205767	231829	241377	225547	267990	290332
HIGH DENSITY POLYTHYLENE	787275	685115	444849	507485	301072	318409	411808	400878	629138	670315	1558382	1595488	1877133	1709687	1130209	1050253
POLYSTYRENE	-17024	-3228	-7678	5767	4760	19620	33414	54073	21170	68976	73494	131354	48647	85211	53232	103819
POLYPROPYLENE (INC. CO-POLYMER)	386996	364439	136775	240390	455570	467274	-7313	184674	590289	743730	1349520	1454686	1369517	1263263	1181736	1211842
EXPANDABLE POLYSTYRENE	-475	-528	-1823	-2207	-1708	-1578	3790	3413	4567	5430	-581	-422	-1288	-801	-2439	-2657
POLY VINYL CHLORIDE	1839634	1117723	2035437	1352333	926316	586073	402324	292513	457815	505244	589657	533335	686368	469636	668900	454172
LINEAR LOW DENSITY POLYTHYLENE	196160	172066	-231822	-152096	-83631	-30142	91992	65964	156659	142612	436238	398613	386183	314990	148543	119725
PVC COMPOUND	14345	11366	-7685	-2910	0	0	0	0	-12544	-13866	-9450	-10747	-245	-184	12	17
TOTAL	3563245	2657515	2544974	2126438	1814729	1544031	1152860	1174203	2020338	2324698	4203027	4334136	4607692	4067349	3448183	3227503
SYNTHETIC RUBBER (ELASTOMERS)																
STYRENE BUTADIENE RUBBER	92285	124919	76831	113415	57809	80821	112616	120313	133903	218464	129753	244803	131802	219311	152646	294240
POLY BUTADIENE RUBBER	87760	115297	91496	123004	77389	88032	91632	98438	87429	138961	132266	229778	119985	166900	149450	251611
ETHYL PROPYLENE DIMERS	42582	51339	50337	72103	43173	52145	40439	49297	47514	98225	53518	127434	64866	118836	66854	127344
ETHYL VINYL ACETATE	182447	183189	178154	201633	192672	211374	188539	210811	180623	380530	201276	397988	233596	314923	295083	356380
NITRILE BUTADIENE RUBBER	39883	62075	38012	71698	40460	58824	154687	48082	31374	69524	38339	99561	39450	86836	21343	71510
BUTYL RUBBER	111021	150342	120120	198869	89293	145286	64328	112498	64359	126599	47897	123553	41697	101337	32906	85454
TOTAL	555978	687161	554950	780722	500796	636482	652241	639439	545202	1032303	603049	1223117	631396	1008143	718282	1186539
SYNTHETIC DETERGENT INTERMEDIATES																
LINEAR ALKYL BENZENE	204980	162939	226788	209645	263833	236518	264466	214971	271322	325816	341560	520784	249026	333237	285480	363737
ETHYLENE OXIDE	-409	126	-700	-751	-819	-571	-936	-652	-985	1643	-1191	-337	-1176	-13	-1210	-304
TOTAL	204571	163065	226088	208894	263014	235947	263530	214319	270337	327459	340369	520447	247850	333224	284270	363433
PERFORMANCE PLASTICS																
ABS RESIN	97753	130785	118949	173009	104315	126235	98441	128880	111047	207862	114772	195089	128003	175489	155687	229697
NYLON-6	154592	265141	195974	391303	196168	304347	0	0	0	0	0	0	0	0	0	0
POLYMETHYL METHACRYLATE	26431	43861	25217	49924	24699	39939	28478	40206	21824	44512	29815	60228	32328	57763	37635	79366
STYRENE ACRYLONITRILE	8251	9948	8801	11051	9992	10741	13117	14419	19651	28058	21185	29586	17721	22700	45824	57643
POLYESTER CHIPS/PET CHIPS	-748230	-541712	-736275	-690632	-555117	-384264	-50371	-32930	-142019	-141117	-47038	-68747	88189	50369	52819	18312
POLYTETRAFLUOROETHYLENE (PTFE)	-6653	-34247	-9101	-61707	-8271	-53548	-7849	-55501	-11702	-98091	-8346	-89387	-5780	-66869	-7067	-76916
TOTAL	-467856	-126224	-396435	-127052	-228214	43450	81816	95074	-1199	41224	110388	126769	260461	239452	284898	308102
OLEFINS																

PRODUCT	2017-18		2018-19		2019-20		2020-21		2021-22		2022-23		2023-24		2024-25	
	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL	QTY	VAL
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
BUTADIENE	-100567	-70267	-135143	-112526	-174238	-103834	-166780	-72164	-144071	-89748	-112513	-77192	-153063	-101941	-171434	-179774
ETHYLENE	-97307	-64532	-132650	-90068	-87414	-36672	-62993	-29186	-49115	-34190	36258	55050	25740	26646	46163	44596
PROPYLENE	-11932	-1722	-31221	-16261	1369	3417	-11340	-794	29469	26248	8738	7719	6376	5082	101	248
TOTAL	-209806	-136521	-299014	-218855	-260283	-137089	-241113	-102144	-163717	-97690	-67517	-14423	-120947	-70213	-125170	-134930
AROMATICS																
BENZENE	-1286263	-662342	-1628859	-809232	-1397324	-629973	-1488414	-551300	-1918756	-1385444	-1440565	-1149207	-1469135	-1090373	-1461230	-1188834
MIXED XYLENE	2006	922	-340	-235	-288	-158	-11	-37	-6	3	1950	1698	-232	-249	-78	-94
ORTHO-XYLENE	-169945	-78544	-202729	-107270	-160885	-90988	-284414	-116625	-217938	-136769	-70348	-58527	52839	47960	241461	220703
TOLUENE	410041	192082	424454	225991	456373	232555	584001	228566	482519	301498	569810	499544	565480	476240	567036	448297
PARAXYLENE	-937862	-498568	-1823013	-1279341	-1841818	-1076010	-2171472	-873193	-1656010	-1034792	-475127	-302486	585307	547244	751046	624908
TOTAL	-1982023	-1046450	-3230487	-1970087	-2943942	-1564574	-3360310	-1312589	-3310191	-2255504	-1414280	-1008978	-265741	-19178	98235	104980
OTHER PETRO-BASED CHEMICALS																
ETHYLENE DICHLORIDE	668473	101940	562496	136962	699576	162457	595469	141899	620053	376485	662784	261965	577411	163965	609007	167785
BUTANOL	52816	30016	48503	34687	58583	33201	42238	25766	28483	35083	38543	34355	56899	43096	65249	52895
OXO ALCOHOL	1382	5642	-239	5871	1545	5064	2058	2334	2100	117	990	734	3142	3770	4509	6148
2-ETHYL HEXANOL	55493	37951	50932	41741	81610	56162	54842	37093	10377	14040	53911	61914	31691	32902	85570	93584
VINYL CHLORIDE MONOMER	484390	247256	457532	252910	511166	280807	479876	315305	581803	552774	537158	410625	508296	304494	517175	298675
EPICHLHYDRINE	55975	51370	64965	83221	61057	72154	55144	57868	66377	118624	66298	110730	58201	57637	46429	46201
ISO BUTYLENE	48702	36007	44558	40253	-7298	-1553	-4242	-1362	-18534	-12823	-14063	-12877	-16705	-15396	-1929	-1763
METAXYLENE	2074	1801	2928	3024	1875	1404	2693	1635	4706	3532	2992	4002	4566	5655	-8505	-6980
METHYL ISOBUTYL KETONE	33744	30392	31894	27772	27812	16720	30077	31063	35848	60161	30386	35519	44000	59578	45763	59621
PIB	12421	14253	11990	15301	10297	14018	6667	10010	12158	17135	8711	18073	2589	7920	10218	21509
POLYCARBONATE	154018	250839	187003	364667	172361	259696	174664	262214	207191	469391	221253	496753	277077	502115	321744	550403
PROPYLENE OXIDE	23446	23594	26800	30694	20160	20126	17361	22037	20504	32290	24821	34134	28267	33184	41565	49245
PROPYLENE GLYCOL	56216	47866	64801	66670	61438	48042	56278	51390	60469	124591	66639	98135	76446	79196	87836	87615
POLYVINYL ACETATE RESIN	-3510	-1463	-5797	-4728	-5470	-2812	-4357	-2487	-5076	-7021	-3845	-6622	-9581	-13474	-11619	-16475
UNSATURATED POLYSTER RESIN	35452	35539	28287	38324	33118	36041	32039	31168	26028	56042	30441	66629	41155	64452	43567	63203
ETHYL BENZENE	351	320	719	806	463	471	500	490	947	1247	666	1050	867	1184	1052	1510
CELLULOSE ACETATE BUTYRATE	2	-8	-1	-15	12	18	10	-25	57	104	4	254	10	20	0	3
CELLULOSE ACETATE SHEET	1287	776	1494	1043	1323	907	1286	957	1632	1593	1568	1634	1203	1654	1855	1930
CELLULOSE NITRATE SHEET	97	322	99	372	70	261	1239	507	519	353	132	265	102	450	98	263
MELAMINE MOULDING POWDER	-55	13246	-1298	15369	-6746	12277	-9808	8730	-18972	11561	-26492	11310	-35473	6458	-43311	8144
POLYACETAL RESIN	43531	43338	48483	58644	47339	52464	48421	55077	47242	68490	60185	117130	62123	102389	64975	108595
PHTHALIC ANHYDRIDE	92571	61126	118306	88521	145584	92063	117485	68219	88719	66170	73508	67505	48747	44005	39578	35732
STYRENE	784749	650813	811248	737428	872556	607553	720788	452338	847159	757652	1055388	976499	1054899	921521	1115331	1088498
VINYL ACTATE MONOMER	163703	103973	163009	129228	159432	96717	136530	87016	174413	246556	209614	278827	200961	147180	213073	149722
ISOPROPANOL	99460	63966	134832	93195	143653	75766	178494	155169	124346	100942	135135	111638	101050	85327	154880	137387
POLYOL	195114	242614	226175	307510	213930	253370	161679	168529	160525	311500	0	0	0	0	0	0
TOTAL	3061902	2093489	3079719	2569470	3305446	2193394	2897431	1982940	3079074	3406589	3236727	3180181	3117943	2639282	3404110	3003450
TOTAL NET IMPORT OF MAJOR PETRO-CHEMICALS	5441657	4568394	2737447	3431841	3424081	3293409	1937270	2801499	4197119	5645456	10222525	10315206	11299492	9746768	11299492	9746768

Source: DGCIS, Kolkata, M/o Commerce and Industry

Table 27: Top Five Export Destinations of selected Petrochemicals during 2024-25

PRODUCT	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
(1)	(2)	(3)	(4)
ACRYLIC FIBRE	KENYA	6203.49	6813.07
	SOUTH AFRICA	2152.74	7608.03
	ETHIOPIA	1889.74	3095.29
	U S A	1182.88	5669.82
	PERU	1137.93	2076.93
	Product Total	12566.78	25263.15
NYLON FILAMENT YARN	AUSTRALIA	1795.34	6095.97
	BRAZIL	1627.40	4491.26
	CHINA P RP	933.51	2351.29
	TURKEY	857.16	2542.26
	U S A	665.50	2571.34
	Product Total	5878.91	18052.11
NYLON INDUSTRIAL YARN/TYRE CORD	U S A	2529.55	4814.00
	SPAIN	1557.93	2522.17
	GERMANY	1207.90	2390.03
	U ARAB EMTS	1131.59	2156.64
	BRAZIL	722.07	981.31
	Product Total	7149.04	12864.14
POLYESTER FILAMENT YARN	BRAZIL	107140.93	104299.59
	TURKEY	98776.55	125227.84
	EGYPT A RP	33784.71	40275.33
	MOROCCO	23018.42	25791.76
	RUSSIA	19603.81	21532.59
	Product Total	282324.42	317127.11
POLYESTER STAPLE FIBRE	NEPAL	50683.15	40486.20
	U S A	48803.40	49922.55
	TURKEY	32592.37	28432.16
	EGYPT A RP	20020.91	17078.72
	BELGIUM	15581.83	13972.97
	Product Total	167681.66	149892.60
POLYPROPYLENE FILAMENT YARN	BANGLADESH PR	163.21	225.77
	TANZANIA REP	146.37	214.48
	CROATIA	123.73	178.25
	MEXICO	105.75	162.33
	KENYA	88.43	128.71
	Product Total	627.49	909.54
POLYPROPYLENE STAPLE FIBRE	U S A	9001.33	11941.94
	SAUDI ARAB	1188.62	1662.45
	NETHERLAND	395.66	473.17
	U ARAB EMTS	171.79	266.72
	NEPAL	155.54	246.50
	Product Total	10912.95	14590.78
Elastomeric/Spandex Filament Yarn	KOREA RP	3266.09	10766.62
	TURKEY	2060.27	6308.14
	INDONESIA	489.39	1565.83
	CHINA P RP	442.02	499.11

PRODUCT	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
(1)	(2)	(3)	(4)
	BANGLADESH PR	421.76	1448.40
	Product Total	6679.52	20588.10
ACRYLONITRILE	U ARAB EMTS	4454.49	4647.72
	IRAQ	2525.20	2707.73
	ARGENTINA	36.22	44.41
	JAPAN	3.00	89.12
	THAILAND	1.08	60.99
	Product Total	7019.99	7549.97
CAPROLACTUM	U S A	60.70	117.45
	NETHERLAND	40.00	60.22
	BANGLADESH PR	22.00	43.38
	INDONESIA	21.50	39.41
	KOREA RP	20.00	21.29
	Product Total	164.20	281.75
DIMETHYL TEREPHTHALATE	TURKEY	69.00	59.67
	U S A	1.00	3.54
	ITALY	0.01	0.00
	Product Total	70.01	63.22
MONO EHYLENE GLYCOL	INDONESIA	8331.85	10396.57
	KOREA RP	7287.52	9052.17
	TAIWAN	3454.92	4576.83
	SINGAPORE	1883.00	1053.23
	SOUTH AFRICA	1516.73	798.27
	Product Total	22474.02	25877.06
PURIFIED TEREPHTHALIC ACID	U S A	1935.36	4471.02
	UNSPECIFIED	1008.00	615.87
	KENYA	1.00	1.18
	ITALY	0.53	6.60
	QATAR	0.05	0.09
	Product Total	2944.93	5094.76
LOW DENSITY POLYETHYLENE	ALGERIA	7973.95	10386.95
	TURKEY	4826.58	6471.58
	U ARAB EMTS	4597.74	6439.95
	EGYPT A RP	4354.40	5914.32
	SAUDI ARAB	3545.35	4662.61
	Product Total	25298.01	33875.40
HIGH DENSITY POLYTHYLENE	VIETNAM SOC REP	40856.78	32740.40
	NEPAL	35416.68	30881.99
	CHINA P RP	29408.40	22553.41
	U ARAB EMTS	14461.92	15035.61
	BANGLADESH PR	8652.14	7753.13
	Product Total	128795.91	108964.54
POLYESTYRENE	EGYPT A RP	9235.77	9991.77
	BANGLADESH PR	8403.97	8316.67
	SRI LANKA DSR	4157.10	4120.58
	U ARAB EMTS	3538.61	3892.48
	CHINA P RP	2616.65	4134.65

PRODUCT	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
(1)	(2)	(3)	(4)
	Product Total	27952.09	30456.15
POLYPROPYLENE (INC. CO-POLYMER)	NEPAL	54258.43	46330.43
	TURKEY	50874.00	43544.28
	VIETNAM SOC REP	45090.37	35930.13
	BANGLADESH PR	40278.77	33519.91
	INDONESIA	21953.80	18114.43
	Product Total	212455.36	177439.18
EXPANDABLE POLYSTYRENE	U ARAB EMTS	1647.01	1828.03
	VIETNAM SOC REP	937.31	1364.69
	KUWAIT	586.00	619.03
	QATAR	507.00	547.65
	OMAN	150.00	174.59
	Product Total	3827.32	4533.99
POLY VINYL CHLORIDE	SRI LANKA DSR	589.38	566.03
	U ARAB EMTS	506.25	362.43
	SIERRA LEONE	193.55	172.57
	KENYA	148.03	98.72
	NEPAL	130.01	122.62
	Product Total	1567.21	1322.37
LINEAR LOW DENSITY POLYTHYLENE	KENYA	21075.37	18634.72
	BANGLADESH PR	7979.00	6695.48
	TANZANIA REP	5192.76	4582.59
	CHINA P RP	3899.96	3067.61
	GHANA	3672.14	3170.76
	Product Total	41819.22	36151.16
PVC COMPOUND	BHUTAN	0.01	0.03
	Product Total	0.01	0.03
STYRENE BUTADIENE RUBBER	U ARAB EMTS	8769.59	7738.96
	EGYPT A RP	6195.75	4993.54
	THAILAND	6164.15	8157.73
	VIETNAM SOC REP	3777.02	3968.41
	SRI LANKA DSR	2759.58	4425.72
	Product Total	27666.08	29284.34
POLY BUTADIENE RUBBER	SRI LANKA DSR	1882.26	3220.78
	BANGLADESH PR	361.17	584.38
	ISRAEL	194.32	315.86
	THAILAND	188.43	303.57
	NEPAL	52.30	98.54
	Product Total	2678.49	4523.13
ETHYL PROPYLENE DIMERS	U ARAB EMTS	604.72	1229.51
	INDONESIA	295.85	960.37
	RUSSIA	104.19	313.00
	NEPAL	86.58	96.88
	U S A	62.48	312.13
	Product Total	1153.83	2911.89
	NEPAL	937.60	1334.05
	RUSSIA	544.70	662.62

PRODUCT	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
(1)	(2)	(3)	(4)
ETHYL VINYL ACETATE	BANGLADESH PR	291.50	561.15
	TURKEY	194.35	246.74
	CHINA P RP	179.80	191.64
	Product Total	2147.95	2996.19
NITRILE BUTADIENE RUBBER	MALAYSIA	9314.99	6442.03
	VIETNAM SOC REP	7078.80	4842.37
	SRI LANKA DSR	4750.48	3520.38
	INDONESIA	1541.00	1105.21
	TURKEY	1524.02	1097.19
	Product Total	24209.29	17007.17
BUTYL RUBBER	CHINA P RP	5982.26	8456.07
	U S A	4830.90	8573.57
	KOREA RP	2693.74	4118.76
	THAILAND	2412.66	3696.36
	INDONESIA	2058.57	3099.59
	Product Total	17978.13	27944.34
LINEAR ALKYL BENZENE	CHINA P RP	874.09	935.13
	SINGAPORE	795.95	1816.99
	ARGENTINA	74.76	180.29
	NEPAL	52.04	90.60
	KOREA RP	40.00	58.28
	Product Total	1836.84	3081.28
ETHYLENE OXIDE	THAILAND	442.82	778.26
	MALAYSIA	423.13	451.94
	VIETNAM SOC REP	207.38	213.69
	INDONESIA	63.80	65.62
	UNSPECIFIED	29.48	25.41
	Product Total	1166.61	1534.91
ABS RESIN	NIGERIA	384.04	292.56
	VIETNAM SOC REP	154.50	219.22
	U ARAB EMTS	147.93	297.76
	NEPAL	65.00	100.86
	CHINA P RP	41.91	84.35
	Product Total	793.39	994.75
POLYMETHYL METHACRYLATE	BANGLADESH PR	461.29	589.84
	U S A	280.84	988.05
	NEPAL	268.02	349.12
	AUSTRALIA	261.29	259.40
	TAIWAN	252.29	233.37
	Product Total	1523.72	2419.79
STYRENE ACRYLONITRILE	NIGERIA	2670.40	1945.96
	THAILAND	178.75	294.13
	VIETNAM SOC REP	48.00	60.97
	U ARAB EMTS	38.90	88.34
	PHILIPPINES	25.00	42.21
	Product Total	2961.05	2431.60
	U ARAB EMTS	36381.42	29944.45

PRODUCT	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
(1)	(2)	(3)	(4)
POLYESTER CHIPS/PET CHIPS	MEXICO	17567.07	16027.75
	SLOVENIA	12517.42	9125.25
	BAHARAIN IS	8463.30	7343.08
	EGYPT A RP	7506.00	6801.94
	Product Total	82435.21	69242.47
POLYTETRAFLUOROETHYLENE(PTFE)	GERMANY	3868.63	35617.81
	U S A	3521.10	31035.75
	ITALY	1896.61	13700.20
	BRAZIL	458.30	4918.31
	U K	406.65	4465.18
	Product Total	10151.28	89737.26
BUTADIENE	KOREA RP	68675.53	71627.79
	MALAYSIA	53909.54	56647.38
	INDONESIA	34292.37	35366.53
	CHINA P RP	9026.24	9338.00
	TAIWAN	3000.00	3046.93
	Product Total	168903.68	176026.63
ETHYLENE	QATAR	11550.00	8434.16
	INDONESIA	5302.14	3903.78
	VIETNAM SOC REP	32.70	93.60
	NEPAL	1.84	1.94
	KENYA	0.70	3.17
	Product Total	16887.37	12436.65
BENZENE	SAUDI ARAB	658502.40	536270.87
	TAIWAN	241187.76	196369.25
	CHINA P RP	212242.87	160012.83
	KUWAIT	123410.67	103582.53
	SINGAPORE	54779.00	39389.75
	Product Total	1290122.71	1035625.24
MIXED XYLENE	TANZANIA REP	51.60	46.29
	SAUDI ARAB	20.69	21.86
	SRI LANKA DSR	19.54	18.22
	BAHARAIN IS	14.40	12.02
	RWANDA	12.95	13.05
	Product Total	119.17	111.44
ORTHO-XYLENE	ITALY	2031.18	1730.29
	MALAYSIA	205.03	225.54
	UZBEKISTAN	24.00	28.01
	BANGLADESH PR	7.22	9.16
	NEPAL	1.65	5.45
	Product Total	2269.08	1998.44
TOLUENE	NIGERIA	5602.81	5421.99
	KENYA	2902.23	2747.27
	JORDAN	1805.94	1577.42
	TANZANIA REP	1144.43	1102.52
	NEPAL	1092.47	1011.78
	Product Total	12547.88	11860.98

PRODUCT	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
(1)	(2)	(3)	(4)
PARAXYLENE	MALAYSIA	85312.45	64428.79
	MEXICO	50331.00	42813.91
	U S A	37639.98	32295.16
	CHINA P RP	19420.78	15896.59
	SPAIN	10923.10	9397.20
	Product Total	203627.30	164831.65
ETHYLENE DICHLORIDE	SAUDI ARAB	100.00	55.65
	THAILAND	33.41	33.79
	NEPAL	0.30	0.14
	SIERRA LEONE	0.10	0.23
	RUSSIA	0.06	0.20
	Product Total	133.87	90.00
BUTANOL	U ARAB EMTS	2894.37	2673.83
	NETHERLAND	227.99	212.65
	NEPAL	174.73	186.33
	NIGERIA	168.17	176.98
	GHANA	145.34	150.02
	Product Total	3610.60	3399.81
OXO ALCOHOL	U S A	423.79	1922.78
	NETHERLAND	359.93	818.71
	FRANCE	275.14	787.11
	JAPAN	41.30	90.96
	UNSPECIFIED	22.02	35.10
	Product Total	1122.18	3654.66
2-ETHYL HEXANOL	BANGLADESH PR	29.92	43.17
	JAPAN	25.00	198.93
	KOREA RP	17.37	116.37
	NIGERIA	12.40	14.75
	NEPAL	11.05	15.24
	Product Total	95.73	388.46
VINYL CHLORIDE MONOMER	U ARAB EMTS	0.03	0.26
	JAPAN	0.00	1.99
	LATVIA	0.00	1.94
	Product Total	0.03	0.26
EPICHLHYDRINE	BELGIUM	5414.90	5979.20
	GERMANY	2409.91	2321.95
	U ARAB EMTS	2122.94	2375.46
	RUSSIA	326.59	442.22
	BRAZIL	324.27	381.84
	Product Total	10598.60	11500.68
ISO BUTYLENE	SAUDI ARAB	1995.00	1928.09
	BHUTAN	0.02	0.06
	NEPAL	0.00	0.66
	Product Total	1995.02	1928.80
	TAIWAN	10270.46	8747.62
	JORDAN	25.00	24.13

PRODUCT	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
(1)	(2)	(3)	(4)
METAXYLENE	BANGLADESH PR	14.34	13.74
	NEPAL	10.53	10.15
	BELGIUM	5.78	36.99
	Product Total	10326.12	8832.62
METHYL ISOBUTYL KETONE	U ARAB EMTS	366.78	529.06
	NIGERIA	220.10	345.87
	BRAZIL	111.55	171.34
	NEPAL	91.07	139.29
	COSTA RICA	69.50	114.14
	Product Total	858.99	1299.70
PIB	SINGAPORE	4816.87	5937.46
	CHINA P RP	3161.58	4323.51
	RUSSIA	1213.40	1962.11
	U ARAB EMTS	757.74	1413.05
	THAILAND	637.71	918.64
	Product Total	10587.29	14554.77
POLYCARBONATE	KOREA RP	1527.78	1571.30
	ITALY	726.50	868.19
	CHINA P RP	165.21	281.20
	NEPAL	156.25	235.43
	GERMANY	81.93	116.55
	Product Total	2657.68	3072.67
PROPYLENE GLYCOL	U S A	401.10	378.74
	NEPAL	276.79	430.42
	IRELAND	240.24	1977.51
	IRAN	172.00	229.39
	GHANA	110.78	167.33
	Product Total	1200.91	3183.39
POLYVINYL ACETATE RESIN	U S A	4035.08	9102.54
	NIGERIA	2613.76	1658.94
	TURKEY	1401.20	2439.85
	MEXICO	888.00	1467.78
	BELGIUM	602.00	884.78
	Product Total	9540.03	15553.89
UNSATURATED POLYSTER RESIN	SPAIN	3918.02	4432.56
	BANGLADESH PR	2154.11	2757.14
	U ARAB EMTS	2087.93	3208.23
	NEPAL	1829.47	2120.53
	U S A	1432.93	2368.99
	Product Total	11422.46	14887.44
ETHYL BENZENE	RUSSIA	0.00	0.02
	CANADA	0.00	0.04
	Product Total	0.00	0.06
CELLULOSE ACETATE SHEET	NEPAL	0.76	3.68
	HONG KONG	0.04	0.16
	MAURITIUS	0.00	0.01
	PARAGUAY	0.00	0.14

PRODUCT	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
(1)	(2)	(3)	(4)
	AUSTRALIA	0.00	0.01
	Product Total	0.80	3.99
CELLULOSE NITRATE SHEET	VIETNAM SOC REP	4.62	7.62
	NEPAL	0.46	0.85
	TURKEY	0.05	1.76
	MALDIVES	0.05	0.43
	U S A	0.00	0.01
	Product Total	5.18	10.67
MELAMINE MOULDING POWDER	NEPAL	52418.61	9323.39
	COTE D'IVOIRE	1248.00	718.56
	ETHIOPIA	841.00	512.82
	GABON	737.35	754.59
	GHANA	655.05	515.15
	Product Total	55900.01	11824.51
POLYACETAL RESIN	U ARAB EMTS	281.61	405.68
	INDONESIA	182.63	619.22
	THAILAND	60.83	177.51
	NEPAL	52.33	96.67
	JAPAN	47.76	115.87
	Product Total	625.15	1414.94
PHTHALIC ANHYDRIDE	U ARAB EMTS	6958.00	6271.59
	EGYPT A RP	4268.00	3915.07
	SAUDI ARAB	4050.00	3742.95
	TUNISIA	2351.00	2528.35
	BANGLADESH PR	810.03	760.43
	Product Total	18437.03	17218.39
STYRENE	TURKEY	16041.16	16033.25
	SRI LANKA DSR	1485.64	1563.43
	BANGLADESH PR	1280.49	1408.85
	KENYA	856.52	981.13
	U ARAB EMTS	845.32	855.93
	Product Total	20509.13	20842.59
VINYL ACTATE MONOMER	U ARAB EMTS	4292.15	3021.40
	EGYPT A RP	2434.44	1854.69
	NIGERIA	2143.92	1762.78
	BANGLADESH PR	1611.68	1300.68
	KENYA	897.74	730.19
	KENYA	11379.94	8669.74
ISOPROPANOL	U ARAB EMTS	1893.60	2128.52
	RUSSIA	1363.36	1534.55
	SRI LANKA DSR	627.93	702.36
	U S A	613.44	843.02
	BANGLADESH PR	610.46	1026.28
	Product Total	5108.79	6234.72

Source: DGCIS, Kolkata, M/o Commerce and Industry

Table 28: Top Five Import Destinations of selected Petrochemicals during 2024-25

PRODUCT	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
(1)	(2)	(3)	(4)
ACRYLIC FIBRE	CHINA P RP	8686.52	18225.83
	THAILAND	2135.36	3577.68
	TURKEY	1958.03	1814.25
	NEPAL	1940.40	4233.62
	JAPAN	1278.51	1791.26
	Product Total	15998.81	29642.64
NYLON FILAMENT YARN	CHINA P RP	41854.98	83972.76
	VIETNAM SOC REP	2917.44	5169.39
	TAIWAN	1194.06	3840.08
	KOREA RP	584.79	1463.60
	SRI LANKA DSR	379.54	1553.35
	Product Total	46930.81	95999.17
NYLON INDUSTRIAL YARN/TYRE CORD	CHINA P RP	2155.58	4195.67
	RUSSIA	1388.06	2312.78
	U K	340.90	1020.47
	KOREA RP	159.17	134.07
	TURKEY	120.27	325.83
	Product Total	4163.98	7988.83
POLYESTER FILAMENT YARN	CHINA P RP	166497.47	194284.45
	INDONESIA	27681.40	38174.06
	VIETNAM SOC REP	15412.27	20678.24
	KOREA RP	13415.84	23970.10
	TAIWAN	6531.78	9928.44
	Product Total	229538.76	287035.30
POLYESTER STAPLE FIBRE	CHINA P RP	25664.08	24961.48
	INDONESIA	16295.87	15843.74
	THAILAND	8937.47	8643.20
	KOREA RP	7338.65	8179.83
	MALAYSIA	5749.48	7384.02
	Product Total	63985.54	65012.27
POLYPROPYLENE FILAMENT YARN	U S A	250.98	366.80
	SINGAPORE	34.67	8.04
	TAIWAN	19.17	37.32
	PORTUGAL	13.24	58.41
	SAUDI ARAB	3.61	4.54
	Product Total	321.66	475.11
POLYPROPYLENE STAPLE FIBRE	CHINA P RP	4308.41	4764.68
	SAUDI ARAB	1224.69	1385.50
	U ARAB EMTS	168.00	191.87
	KOREA RP	26.80	45.88
	GERMANY	12.06	43.12
	Product Total	5739.96	6431.05
Elastomeric/Spandex Filament Yarn	CHINA P RP	5277.17	21285.95
	VIETNAM SOC REP	1257.27	4659.38
	SINGAPORE	1249.69	10769.07
	THAILAND	640.92	4913.94

PRODUCT	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
(1)	(2)	(3)	(4)
	JAPAN	410.29	3047.10
	Product Total	8835.34	44675.44
ACRYLONITRILE	TAIWAN	105571.92	112953.01
	CHINA P RP	53444.28	56200.49
	KOREA RP	39387.20	46124.81
	NETHERLAND	3414.90	3328.71
	JAPAN	3045.96	2557.84
	Product Total	204864.25	221164.85
CAPROLACTUM	CHINA P RP	46487.95	64674.84
	THAILAND	7168.00	10522.53
	RUSSIA	6535.00	9385.56
	TURKEY	1245.00	1755.96
	U S A	264.01	364.85
	Product Total	61699.96	86703.74
DIMETHYL TEREPHTHALATE	U ARAB EMTS	1040.00	1185.48
	KOREA RP	990.00	1466.52
	CHINA P RP	160.03	274.57
	CANADA	0.71	3.38
	JAPAN	0.00	0.06
	Product Total	2190.73	2930.00
MONO EHYLENE GLYCOL	KUWAIT	665780.70	310949.01
	SAUDI ARAB	324860.69	152081.36
	SINGAPORE	106184.41	49755.89
	U S A	20399.92	10178.78
	MALAYSIA	1049.34	500.17
	Product Total	1118275.06	523465.21
PURIFIED TEREPHTHALIC ACID	THAILAND	700029.81	450343.62
	TAIWAN	508587.61	326296.29
	CHINA P RP	381455.88	250071.62
	INDONESIA	264061.18	164359.19
	KOREA RP	177859.90	114153.99
	Product Total	2031994.37	1305224.71
LOW DENSITY POLYETHYLENE	SAUDI ARAB	61187.73	60999.06
	U S A	49636.49	49545.87
	BELGIUM	29023.23	39087.31
	KOREA RP	28500.34	35311.61
	SINGAPORE	28013.63	30145.63
	Product Total	196361.42	215089.49
HIGH DENSITY POLYTHYLENE	U ARAB EMTS	500076.38	428232.67
	SAUDI ARAB	177178.28	149450.54
	OMAN	140132.14	114235.37
	QATAR	113537.34	96955.92
	U S A	86079.65	81435.01
	Product Total	1017003.79	870309.50
POLYSTYRENE	KOREA RP	25959.25	43057.50
	TAIWAN	15660.59	22040.81
	CHINA P RP	13568.38	20959.51

PRODUCT	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
(1)	(2)	(3)	(4)
	THAILAND	13238.30	16361.16
	U S A	8815.36	16637.25
	Product Total	77241.89	119056.23
POLYPROPYLENE (INC. CO-POLYMER)	U ARAB EMTS	470055.40	403179.39
	SINGAPORE	357139.39	387039.23
	SAUDI ARAB	266771.04	231336.36
	THAILAND	98205.94	110113.67
	CHINA P RP	88534.87	90086.87
	Product Total	1280706.64	1221755.52
EXPANDABLE POLYSTYRENE	CHINA P RP	959.76	1158.26
	AUSTRIA	219.51	586.08
	JAPAN	181.81	94.13
	U ARAB EMTS	162.20	81.48
	THAILAND	98.50	88.03
	Product Total	1621.78	2007.97
POLY VINYL CHLORIDE	CHINA P RP	301971.69	200073.38
	JAPAN	69154.72	43952.28
	TAIWAN	63131.54	46756.85
	KOREA RP	52206.28	37139.88
	THAILAND	41023.79	29687.46
	Product Total	527488.01	357609.86
LINEAR LOW DENSITY POLYTHYLENE	SAUDI ARAB	44567.25	39006.87
	U ARAB EMTS	36912.49	28593.28
	MALAYSIA	31038.07	25083.45
	SINGAPORE	26481.33	24198.82
	U S A	15749.76	11289.52
	Product Total	154748.88	128171.93
PVC COMPOUND	TAIWAN	12.00	15.12
	U S A	0.16	1.96
	Product Total	12.16	17.08
STYRENE BUTADIENE RUBBER	KOREA RP	49648.76	87165.29
	POLAND	38703.09	58131.24
	CHINA P RP	23035.89	32542.01
	THAILAND	21535.55	44149.36
	SINGAPORE	13183.22	33563.73
	Product Total	146106.51	255551.62
POLY BUTADIENE RUBBER	KOREA RP	53776.26	98037.51
	GERMANY	19350.53	29877.23
	SAUDI ARAB	18058.88	27906.60
	CHINA P RP	12468.03	19460.78
	U ARAB EMTS	9817.12	13653.35
	Product Total	113470.82	188935.47
ETHYL PROPYLENE DIMERS	KOREA RP	22315.72	43260.75
	SAUDI ARAB	11978.31	21297.37
	U S A	10964.10	19493.94
	JAPAN	10382.13	23367.88
	CHINA P RP	3548.96	7471.28

PRODUCT	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
(1)	(2)	(3)	(4)
	Product Total	59189.22	114891.21
ETHYL VINYL ACETATE	KOREA RP	120015.97	142530.32
	SAUDI ARAB	86537.40	91573.54
	TAIWAN	16187.61	20962.15
	THAILAND	15992.72	19141.15
	MALAYSIA	12053.67	13208.70
	Product Total	250787.37	287415.86
NITRILE BUTADIENE RUBBER	KOREA RP	22640.11	38748.33
	CHINA P RP	7581.40	12017.07
	JAPAN	5130.37	10864.36
	THAILAND	3879.34	6658.49
	TAIWAN	2734.95	6573.20
	Product Total	41966.18	74861.45
BUTYL RUBBER	SINGAPORE	38006.70	80953.90
	U S A	7044.18	14793.16
	CHINA P RP	6349.02	11219.77
	U K	2986.38	9495.55
	SAUDI ARAB	2017.15	3569.85
	Product Total	56403.44	120032.23
LINEAR ALKYL BENZENE	SAUDI ARAB	170350.24	219340.75
	QATAR	54596.09	64775.91
	THAILAND	45888.89	58361.91
	U S A	4869.94	7889.95
	JAPAN	4793.93	6130.79
	Product Total	280499.08	356499.31
ETHYLENE OXIDE	U S A	20.18	1121.30
	CHINA P RP	16.88	273.27
	ARGENTINA	0.10	22.55
	JAPAN	0.00	0.09
	Product Total	37.17	1417.20
ABS RESIN	KOREA RP	86272.69	137713.61
	TAIWAN	49725.37	63267.73
	THAILAND	9312.82	14612.70
	SAUDI ARAB	4294.58	5170.69
	MALAYSIA	4117.50	6334.78
	Product Total	153722.95	227099.52
POLYMETHYL METHACRYLATE	KOREA RP	14639.72	33859.90
	SAUDI ARAB	11008.32	18354.22
	SINGAPORE	7840.46	15944.02
	CHINA P RP	2762.79	5579.44
	NETHERLAND	818.55	2641.29
	Product Total	37069.83	76378.86
STYRENE ACRYLONITRILE	KOREA RP	23408.32	30999.33
	TAIWAN	7369.57	8238.96
	CHINA P RP	6541.33	7558.50
	JAPAN	3540.96	4570.20
	THAILAND	2037.15	2537.40

PRODUCT	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
(1)	(2)	(3)	(4)
	Product Total	42897.32	53904.38
POLYESTER CHIPS/PET CHIPS	CHINA P RP	98318.35	82680.93
	VIETNAM SOC REP	10125.00	8493.21
	THAILAND	9332.79	7410.96
	U S A	8599.72	3570.40
	SINGAPORE	8134.67	2897.68
	Product Total	134510.52	105053.17
POLYTETRAFLUOROETHYLENE(PTFE)	CHINA P RP	2565.50	15430.45
	RUSSIA	1278.36	4906.61
	KOREA RP	528.82	2167.31
	VIETNAM SOC REP	231.38	485.15
	U S A	206.41	4084.28
	Product Total	4810.47	27073.79
BUTADIENE	CHINA P RP	20.00	36.63
	GERMANY	1.73	27.48
	JAPAN	0.02	0.43
	HONG KONG	0.01	0.88
	U S A	0.00	0.95
	Product Total	21.76	66.37
ETHYLENE	U S A	13634.66	11613.53
	SINGAPORE	12372.79	11869.29
	JAPAN	6957.47	6671.29
	PHILIPPINES	6610.25	5491.26
	THAILAND	6504.68	5597.02
	Product Total	46079.85	41242.39
PROPYLENE	CHINA P RP	62.18	179.20
	ITALY	28.58	58.59
	U ARAB EMTS	10.00	12.21
	GERMANY	0.00	0.04
	HONG KONG	0.00	0.18
	Product Total	100.76	250.22
BENZENE	GERMANY	0.08	11.02
	U S A	0.06	13.67
	JAPAN	0.02	0.85
	NETHERLAND	0.00	0.03
	SWITZERLAND	0.00	1.97
	Product Total	0.16	27.53
MIXED XYLENE	KOREA RP	33.72	55.55
	MALAYSIA	14.40	8.54
	TURKEY	7.88	11.37
	U ARAB EMTS	0.72	2.71
	JAPAN	0.25	6.11
	Product Total	56.97	84.29
ORTHO-XYLENE	CHINA P RP	80641.40	73908.20
	TAIWAN	55222.67	49577.47
	SINGAPORE	34899.54	32703.58
	KOREA RP	31719.81	30713.12

PRODUCT	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
(1)	(2)	(3)	(4)
	THAILAND	30901.59	26773.21
	Product Total	233385.00	213675.57
TOLUENE	KOREA RP	193366.76	154580.29
	THAILAND	155177.60	123862.93
	CHINA P RP	79229.12	62357.10
	PHILIPPINES	64650.27	52224.10
	TAIWAN	53198.07	42189.21
	Product Total	545621.81	435213.62
PARAXYLENE	JAPAN	519728.18	427126.66
	SINGAPORE	194486.49	161850.77
	OMAN	113589.66	95936.36
	SAUDI ARAB	73370.41	56051.99
	KUWAIT	63634.26	55572.73
	Product Total	964809.00	796538.52
ETHYLENE DICHLORIDE	SAUDI ARAB	180705.49	47785.01
	U S A	170058.26	48847.80
	QATAR	142846.73	40384.31
	GERMANY	56277.43	15262.93
	INDONESIA	32602.12	8521.85
	Product Total	582490.03	160801.89
BUTANOL	TAIWAN	15436.58	13201.81
	MALAYSIA	15266.87	12982.12
	U S A	13738.87	11371.22
	SAUDI ARAB	11847.89	8698.26
	SOUTH AFRICA	10645.45	8558.76
	Product Total	66935.66	54812.17
OXO ALCOHOL	INDONESIA	1591.52	2956.14
	SINGAPORE	1533.39	3380.50
	THAILAND	964.54	1962.80
	GERMANY	516.69	1131.63
	MALAYSIA	509.56	996.13
	Product Total	5115.70	10427.20
2-ETHYL HEXANOL	CHINA P RP	28719.62	33346.65
	SAUDI ARAB	16663.70	16726.01
	KOREA RP	13543.78	15349.68
	U S A	10289.12	10528.54
	TAIWAN	9608.96	10855.85
	Product Total	78825.17	86806.73
VINYL CHLORIDE MONOMER	QATAR	279561.35	155396.54
	JAPAN	143683.94	85546.70
	CHINA P RP	55194.87	33884.64
	TAIWAN	12512.37	7766.07
	U S A	8610.85	5829.34
	Product Total	499563.37	288423.28
EPICHLHYDRINE	THAILAND	46051.48	44879.01
	CHINA P RP	7231.17	8398.02
	TAIWAN	2605.86	2821.13

PRODUCT	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
(1)	(2)	(3)	(4)
	KOREA RP	1312.00	1520.93
	BELGIUM	809.94	1242.39
	Product Total	58010.45	58861.47
ISO BUTYLENE	CHINA P RP	64.14	106.35
	U S A	2.09	58.73
	JAPAN	0.01	0.95
	Product Total	66.24	166.03
METAXYLENE	CHINA P RP	1332.00	1683.44
	SINGAPORE	261.14	359.67
	JAPAN	192.79	297.50
	U S A	39.61	10.97
	GERMANY	0.03	1.62
	Product Total	1825.57	2353.20
METHYL ISOBUTYL KETONE	KOREA RP	37125.68	49288.52
	SOUTH AFRICA	6614.66	8201.48
	CHINA P RP	1895.56	2368.57
	JAPAN	1166.77	1413.78
	SPAIN	134.60	141.12
	Product Total	46937.28	61413.46
PIB	KOREA RP	18408.84	30397.71
	MALAYSIA	1685.10	2274.35
	BRAZIL	652.62	827.39
	U S A	410.56	857.26
	FRANCE	366.70	1014.90
	Product Total	21523.82	35371.60
POLYCARBONATE	THAILAND	123731.91	218100.98
	KOREA RP	78817.18	145903.98
	CHINA P RP	48875.44	71209.87
	SAUDI ARAB	27123.54	38246.85
	U S A	12713.43	19954.66
	Product Total	291261.49	493416.34
PROPYLENE OXIDE	THAILAND	14953.37	17740.96
	SINGAPORE	10621.80	12711.68
	KOREA RP	6203.33	7333.20
	SAUDI ARAB	5182.18	5580.08
	CHINA P RP	3596.80	4541.91
	Product Total	40557.49	47907.81
PROPYLENE GLYCOL	CHINA P RP	23952.04	22616.57
	SINGAPORE	21182.29	24822.65
	SAUDI ARAB	18156.96	14649.15
	KOREA RP	13974.32	15544.68
	THAILAND	8944.35	10650.29
	Product Total	86209.96	88283.33
POLYVINYL ACETATE RESIN	GERMANY	1015.75	1649.20
	BELGIUM	718.45	1239.26
	INDONESIA	437.62	441.65
	CHINA P RP	340.73	559.83

PRODUCT	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
(1)	(2)	(3)	(4)
	U S A	165.28	332.29
	Product Total	2677.83	4222.22
UNSATURATED POLYSTER RESIN	CHINA P RP	48214.85	53353.16
	TAIWAN	7955.44	12777.64
	KOREA RP	3554.68	9672.11
	MALAYSIA	2008.64	4812.25
	ITALY	1194.20	4283.53
	Product Total	62927.80	84898.70
ETHYL BENZENE	CHINA P RP	644.07	903.88
	U S A	293.73	387.37
	NETHERLAND	41.82	82.72
	GERMANY	41.19	84.71
	KOREA RP	17.98	25.48
	Product Total	1038.79	1484.16
CELLULOSE ACETATE SHEET	ITALY	1017.15	601.74
	CHINA P RP	823.34	1283.25
	HONG KONG	12.97	35.08
	TAIWAN	2.20	9.17
	U K	0.42	4.38
	Product Total	1856.08	1933.62
CELLULOSE NITRATE SHEET	CHINA P RP	102.63	269.52
	U K	0.06	0.63
	SWITZERLAND	0.04	2.38
	HONG KONG	0.00	0.00
	LATVIA	0.00	1.34
	Product Total	102.74	273.87
MELAMINE MOULDING POWDER	CHINA P RP	9437.35	10658.48
	THAILAND	5258.66	6703.84
	INDONESIA	866.00	1825.34
	JAPAN	521.01	1215.07
	NORWAY	451.47	1505.67
	Product Total	16534.49	21908.40
POLYACETAL RESIN	KOREA RP	22117.75	34755.20
	MALAYSIA	17201.35	29951.37
	THAILAND	8532.70	12130.81
	U S A	5158.46	11932.80
	SINGAPORE	2665.55	4554.77
	Product Total	55675.80	93324.95
PHTHALIC ANHYDRIDE	TAIWAN	36224.80	32923.50
	CHINA P RP	15769.02	14167.52
	THAILAND	4529.00	4433.24
	KOREA RP	3140.00	3334.94
	JAPAN	735.03	551.62
	Product Total	60397.85	55410.82
STYRENE	KUWAIT	361257.77	350310.01
	SAUDI ARAB	349051.41	335500.02
	SINGAPORE	229369.66	228541.47

PRODUCT	COUNTRY	QUANTITY (MT)	VALUE (RS. LAKHS)
(1)	(2)	(3)	(4)
	KOREA RP	150454.79	150762.24
	TAIWAN	22449.04	22449.06
	Product Total	1112582.65	1087562.80
VINYL ACTATE MONOMER	SINGAPORE	132880.83	95859.61
	SAUDI ARAB	73688.50	48972.62
	CHINA P RP	13501.18	10809.95
	KOREA RP	6048.17	4107.46
	GERMANY	0.01	0.95
	Product Total	226118.70	159750.59
ISOPROPANOL	CHINA P RP	50548.97	48718.34
	KOREA RP	45587.23	42937.72
	U S A	29765.37	24114.85
	TAIWAN	22375.46	20517.86
	SOUTH AFRICA	8107.23	6627.13
	Product Total	156384.26	142915.90

Source: DGCIS, Kolkata, M/o Commerce and Industry

Table 29: Exchange Rates of Indian Rupee vis-a-vis US\$

MONTH	RS./US\$
(1)	(2)
March 2025	86.64
February 2025	87.05
January 2025	86.27
December 2024	84.99
November 2024	84.36
October 2024	84.03
September 2024	83.81
August 2024	83.90
July 2024	83.59
June 2024	83.47
May 2024	83.39
April 2024	83.41
March 2024	83.00
February 2024	82.96
January 2024	83.12
December 2023	83.28
November 2023	83.30
October 2023	83.24
September 2023	83.05
August 2023	82.79
July 2023	82.15
Jun 2023	82.23
May 2023	82.34
April 2023	82.02
March 2023	82.29
February 2023	82.61
January 2023	81.90
December 2022	82.46
November 2022	81.81
October 2022	82.34
September 2022	80.23
August 2022	79.55
July 2022	79.60
Jun 2022	78.07
May 2022	77.32
April 2022	76.41

Note: Worked out on the basis of average daily exchange rates, as notified by RBI.

Source: 1. <https://www.rbi.org.in/scripts/ReferenceRateArchive.aspx>

2. <https://www.fbil.org.in>

Table 30: World Exports of Chemicals by top 10 countries - 2024

Trade value in Million US\$

Exports			Rank										World Export
			1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	
HS Code	28	Country	China	USA	Germany	Rep. of Korea	Japan	Canada	Australia	Netherlands	France	Kazakhstan	Total
		Trade Value	26502	15080	11739	9552	7752	7568	7477	7062	6515	5484	171535
	29	Country	China	USA	Switzerland	Ireland	Germany	Rep. of Korea	India	Netherlands	Japan	Belgium	Total
		Trade Value	82605	53822	47211	46417	26981	21861	20693	19570	14302	13416	471826
	30	Country	Germany	USA	Switzerland	Ireland	Italy	Belgium	France	Netherlands	United Kingdom	Slovenia	Total
		Trade Value	120886	117449	110367	89812	66236	60480	38771	28400	27856	27196	901276
	31	Country	Morocco	China	USA	Canada	Saudi Arabia	Netherlands	Germany	Egypt	Belgium	Qatar	Total
		Trade Value	12635	8501	6685	6485	4973	2382	2379	2185	2008	1846	69455
	32	Country	Germany	China	USA	Netherlands	India	Japan	Italy	France	United Kingdom	Spain	Total
		Trade Value	12402	10464	8592	4972	4332	4273	3673	3521	3208	3158	87337
	38	Country	USA	Germany	China	Netherlands	France	Japan	Italy	Belgium	United Kingdom	Rep. of Korea	Total
		Trade Value	39113	34131	29261	16696	14360	13244	8086	7659	7421	7009	264833
	39	Country	China	USA	Germany	Rep. of Korea	Netherlands	Japan	Italy	France	Belgium	Saudi Arabia	Total
		Trade Value	141162	85857	64247	36233	26088	24679	24403	23649	20255	18723	711769
	4002	Country	Rep. of Korea	Thailand	USA	China	Japan	Germany	Other Asia, nes	Malaysia	Singapore	France	Total
		Trade Value	3149	2904	2741	2223	2117	1530	1101	895	835	772	23157
	54	Country	China	Other Asia, nes	Rep. of Korea	Japan	India	Italy	Türkiye	USA	Germany	Netherlands	Total
		Trade Value	29659	2034	1987	1815	1774	1773	1669	1643	1142	1010	52733
	55	Country	China	USA	Indonesia	Türkiye	India	Japan	Thailand	Rep. of Korea	Austria	Italy	Total
		Trade Value	13685	2240	1881	1680	1604	1503	1314	1287	1196	961	35005
All Chemicals@		Country	China	USA	Germany	Switzerland	Ireland	Italy	Belgium	Netherlands	France	Rep. of Korea	Total
		Trade Value	356262	333223	276287	167910	146036	117898	111993	106966	101747	92166	2788927
All Chemicals excluding Pharmaceuticals		Country	China	USA	Germany	Rep. of Korea	Netherlands	Japan	France	Switzerland	Ireland	Italy	Total
		Trade Value	344061	215774	155400	84216	78566	69841	62976	57544	56224	51663	1887651

@-Includes all products covered under the HS code 28, 29, 30, 31, 32, 38, 39,

Chapter 28: Inorganic Chemicals; Organic or Inorganic Compounds of Precious Metals, of Rare-Earth Metals, of Radioactive Elements or of Isotopes;**Chapter 29:** Organic Chemicals; **Chapter 30:** Pharmaceutical products; **Chapter 31:** Fertilizers ;**Chapter 32:** Tanning or Dyeing Extracts; Tannins and their Derivatives; Dyes, Pigments and Other Colouring Matter; Paints and Varnishes; Putty and other Mastics Inks;**Chapter 38:** Miscellaneous Chemical Products; **Chapter 39:** Plastics and articles thereof;**4002:** Synthetic rubber and factice derived from oils, in primary forms or in plates, sheets or strip; mixtures of any pro;**Chapter 54:** Man-made Filaments and **Chapter 55:** Man-made staple fibresSource: <http://comtrade.un.org/> (UN Comtrade Database)

Table 31: World Imports of Chemicals by top 10 countries - 2024

Trade value in Million US\$

Imports			Rank										World Import
			1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	
HS Code	28	Country	China	USA	Rep. of Korea	India	Germany	Japan	France	Canada	Netherlands	United Kingdom	Total
		Trade Value	19230	18954	12201	9680	8859	7055	6332	5264	4974	4972	170829
	29	Country	USA	China	Germany	Italy	India	Slovenia	Netherlands	Japan	Brazil	Belgium	Total
		Trade Value	71055	49123	40306	31111	25789	22720	16044	14663	14561	14186	484513
	30	Country	USA	Germany	Switzerland	Belgium	China	France	Italy	Japan	United Kingdom	Spain	Total
		Trade Value	212667	76398	72430	44258	42365	33541	33110	30223	30130	22724	895275
	31	Country	Brazil	USA	India	China	Australia	France	Thailand	Canada	Mexico	Indonesia	Total
		Trade Value	15017	9372	7710	4612	3461	2671	2560	2516	2444	1980	90226
	32	Country	Germany	USA	China	France	Italy	Netherlands	Mexico	India	Canada	Türkiye	Total
		Trade Value	5971	5334	5143	3977	3151	3054	2911	2795	2592	2499	81257
	38	Country	China	USA	Germany	Netherlands	France	Rep. of Korea	Italy	Mexico	Brazil	India	Total
		Trade Value	24786	24191	21130	13184	12297	8861	8250	8004	7776	7694	264586
	39	Country	USA	China	Germany	Mexico	France	Italy	India	United Kingdom	Poland	Canada	Total
		Trade Value	78234	61827	47043	32104	27983	25698	21652	19777	19306	19114	675483
	4002	Country	China	USA	Thailand	India	Germany	Malaysia	Türkiye	Indonesia	Italy	Poland	Total
		Trade Value	8918	1405	1355	1319	1086	865	843	795	688	673	26287
	54	Country	China	Indonesia	USA	Türkiye	Brazil	Italy	India	Germany	Egypt	Mexico	Total
		Trade Value	2138	1918	1910	1783	1765	1505	1414	1376	1329	1326	35126
	55	Country	Morocco	USA	Türkiye	China	Germany	Cambodia	Indonesia	Italy	Brazil	India	Total
		Trade Value	1897	1729	1655	1538	1456	1349	1141	1079	1052	808	29127
All Chemicals@	Country	USA	China	Germany	Italy	France	Switzerland	Belgium	India	Netherlands	Japan	Total	
	Trade Value	424851	219681	205148	108793	102360	92786	83452	81672	79431	78482	2752708	
All Chemicals excluding	Country	USA	China	Germany	India	Italy	France	Mexico	Netherlands	Brazil	Rep. of Korea	Total	
	Trade Value	212184	177316	128749	78861	75683	68819	61965	57337	57333	53447	1857433	

@-Includes all products covered under the HS code 28, 29, 30, 31, 32, 38, 39, 4002, 54 and 55

Chapter 28: Inorganic Chemicals; Organic or Inorganic Compounds of Precious Metals, of Rare-Earth Metals, of Radioactive Elements or of Isotopes;**Chapter 29:** Organic Chemicals; **Chapter 30:** Pharmaceutical products; **Chapter 31:** Fertilizers ;**Chapter 32:** Tanning or Dyeing Extracts; Tannins and their Derivatives; Dyes, Pigments and Other Colouring Matter; Paints and Varnishes; Putty and other Mastics Ink;**Chapter 38:** Miscellaneous Chemical Products; **Chapter 39:** Plastics and articles thereof;**4002:** Synthetic rubber and factice derived from oils, in primary forms or in plates, sheets or strip; mixtures of any pro;**Chapter 54:** Man-made Filaments and **Chapter 55:** Man-made staple fibresSource: <http://comtrade.un.org/> (UN Comtrade Database)

Table 32: India's share in World Exports and Imports of Chemicals - 2024

Value in Million US\$

HS Code	Commodity	Export				Import			
		Trade Value		% of World Export	Rank in the World	Trade Value		% of World Import	Rank in the World
		India	World			India	World		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
28	INORGANIC CHEMICALS	3564	171535	2.1	15	9680	170829	5.7	4
29	ORGANIC CHEMICALS	20693	471826	4.4	7	25789	484513	5.3	5
30	PHARMACEUTICAL PRODUCTS	22984	901276	2.6	11	2811	895275	0.3	39
31	FERTILISERS.	170	69455	0.2	45	7710	90226	8.5	3
32	TANNING OR DYEING	4332	87337	5.0	5	2795	81257	3.4	8
38	MISCELLANEOUS CHEMICAL PRODUCTS.	6749	264833	2.5	11	7694	264586	2.9	10
39	PLASTIC AND ARTICLES THEREOF	7974	711769	1.1	23	21652	675483	3.2	7
4002	SYNTHETIC RUBBER AND FACTICE	158	23157	0.7	23	1319	26287	5.0	4
54	MAN-MADE FILAMENTS	1774	52733	3.4	5	1414	35126	4.0	7
55	MAN-MADE STAPLE FIBRES	1604	35005	4.6	5	808	29127	2.8	10
All Chemicals @		70001	2788927	2.5	12	81672	2752708	3.0	8
Chemicals (excluding Pharmaceutical Products)		47018	1887651	2.5	12	78861	1857433	4.2	4
Total of All HS Code Commodities		434435	22343909	1.9	16	704648	22527635	3.1	7

@-Includes all products covered under the HS code 28, 29, 30, 31, 32, 38, 39, 4002, 54 and 55

Chapter 28: Inorganic Chemicals; Organic or Inorganic Compounds of Precious Metals, of Rare-Earth Metals, of Radioactive Elements or of Isotopes;

Chapter 29: Organic Chemicals; **Chapter 30:** Pharmaceutical products; **Chapter 31:** Fertilizers ;

Chapter 32: Tanning or Dyeing Extracts; Tannins and their Derivatives; Dyes, Pigments and Other Colouring Matter; Paints and Varnishes; Putty and other

Chapter 38: Miscellaneous Chemical Products; **Chapter 39:** Plastics and articles thereof;

4002: Synthetic rubber and factice derived from oils, in primary forms or in plates, sheets or strip; mixtures of any pro;

Chapter 54: Man-made Filaments and **Chapter 55:** Man-made staple fibres

Source: <http://comtrade.un.org/> (UN Comtrade Database)

Section - IV

Foreign Direct Investment (FDI)

Table 33: Sector-wise FDI Inflows during FY 2022-23 to FY 2024-25

Amount in Rupees Crores/ in USD Million

Ranks	Sector	Amt. in Rupees Crores/ Amt. in USD Million	2022-23	2023-24	2024-25
(1)	(2)	(3)	(5)	(6)	(7)
1	SERVICES SECTOR **	Rupees Crores	69,852	54,894	78,880
		USD Million	8,707	6,640	9,347
2	COMPUTER SOFTWARE & HARDWARE	Rupees Crores	74,718	66,090	66,102
		USD Million	9,394	7,973	7,814
3	TRADING	Rupees Crores	38,060	32,080	35,247
		USD Million	4,792	3,865	4,176
4	TELECOMMUNICATIONS	Rupees Crores	5,469	2,318	6,251
		USD Million	713	282	746
5	AUTOMOBILE INDUSTRY	Rupees Crores	15,184	12,622	13,396
		USD Million	1,902	1,524	1,586
6	CONSTRUCTION (INFRASTRUCTURE) ACTIVITIES	Rupees Crores	13,588	35,076	18,962
		USD Million	1,703	4,232	2,245
7	CONSTRUCTION DEVELOPMENT: Townships, housing, built-up infrastructure and construction-development projects	Rupees Crores	1,196	2,113	4,503
		USD Million	147	255	529
8	DRUGS & PHARMACEUTICALS	Rupees Crores	16,654	8,844	7,500
		USD Million	2,058	1,064	891
9	CHEMICALS (OTHER THAN FERTILIZERS)	Rupees Crores	14,662	6,985	8,942
		USD Million	1,850	844	1,060
10	NON-CONVENTIONAL ENERGY	Rupees Crores	19,977	31,188	33,797
		USD Million	2,500	3,764	4,012

Note: (i) ** Services sector includes Financial, Banking, Insurance, Non-Financial / Business, Outsourcing, R&D, Courier, Tech. Testing and Analysis, Other
(ii) %age worked out in USD terms & FDI inflow received through Government Route + Automatic Route + acquisition of existing shares only.
(iii) FDI Sectoral data has been revalidated / reconciled in line with the RBI, which may reflect minor changes in the FDI figures (increase/decrease) as compared to the earlier published sectoral data.
(iv) Figures are provisional.

Source: <https://dpiit.gov.in/publications/fdi-statistics>

Section - V

Index of Industrial Production (IIP)

Table 34: Monthly Production Growth in 'Chemicals and Chemical Products' vis-a-vis Manufacturing Sector in the FY 2024-25 (Based on Index of Industrial Production with Base year: 2011-12)

Period	Chemicals and chemical products	Manufacturing	General
Weight	7.870	77.633	100.000
Index of Industrial Production (Base Year : 2011-12=100)			
Apr / 2024	127.0	144.6	148.0
May / 2024	133.2	150.4	154.7
Jun / 2024	131.7	146.6	151.0
Jul / 2024	135.2	148.8	149.8
Aug / 2024	129.5	146.1	145.8
Sep / 2024	129.4	147.2	146.9
Oct / 2024	129.4	148.4	150.3
Nov / 2024	123.2	147.0	148.1
Dec / 2024	131.0	157.2	158.0
Jan / 2025	130.7	159.5	161.6
Feb / 2025	121.9	148.4	151.1
Mar / 2025	129.8	162.4	166.3
Growth Rate (%)			
Apr / 2024	0.3	4.2	5.2
May / 2024	-0.4	5.1	6.3
Jun / 2024	0.9	3.5	4.9
Jul / 2024	5.1	4.7	5.0
Aug / 2024	2.1	1.2	0.0
Sep / 2024	4.7	4.0	3.2
Oct / 2024	2.3	4.4	3.7
Nov / 2024	3.1	5.5	5.0
Dec / 2024	2.7	3.7	3.7
Jan / 2025	2.4	5.8	5.2
Feb / 2025	-2.8	2.8	2.7
Mar / 2025	-1.9	4.0	3.9

Source: Ministry of Statistics and Programme Implementation(MoSPI).

Table 35: Annual Production Growth in 'Chemicals and Chemical Products' vis-a-vis Manufacturing Sector during FY 2017-18 to FY 2024-25 (Based on Index on Industrial Production with Base year: 2011-12)

Years	Chemicals and Chemical Products	Manufacturing	General
Weight	7.873	77.633	100.000
Index of Industrial Production (Base Year: 2011-12=100)			
2017-18	116.1	126.6	125.3
2018-19	119.0	131.5	130.1
2019-20	118.5	129.6	129.0
2020-21	116.0	117.2	118.1
2021-22	121.0	131.0	131.6
2022-23	129.3	137.1	138.5
2023-24	127.4	144.7	146.7
2024-25	129.3	150.6	152.6
Production Growth (%)			
2017-18	-0.3	4.6	4.4
2018-19	2.5	3.9	3.8
2019-20	-0.4	-1.4	-0.8
2020-21	-2.1	-9.6	-8.4
2021-22	4.3	11.8	11.4
2022-23	6.9	4.7	5.2
2023-24	-1.5	5.5	5.9
2024-25	1.5	4.1	4.0

Source: Ministry of Statistics and Programme Implementation

Table 36: Weights of Products covered under Chemical and Chemical Products (Industry Division 20 of NIC- 2008) in the Index of Industrial Production for Manufacturing Sector

NIC 2008, 5- Digit	Item groups	Weights (in %)	Name of Source Agencies
(1)	(2)	(3)	(4)
20111	Oxygen	0.0423	DPIIT
20112	Acetic Acid	0.0191	DCPC
20112	Phosphoric acid	0.0157	DPIIT
20112	Purified Terephthalic Acid (PTA)	0.3512	DCPC
20112	Sulphuric Acid	0.0479	DPIIT
20114	Dyes and pigments	0.2355	DCPC
20115	ABS resin	0.0188	DCPC
20116	Calcium Carbonate	0.0572	DCPC
20116	Caustic soda (sodium hydroxide)	0.1638	DCPC
20116	Ethyl acetate	0.0571	DCPC
20116	Isopropyl alcohol	0.0178	DCPC
20116	Monoethylene glycol, MEG	0.0413	DCPC
20116	Soda ash/ washing soda	0.1200	DCPC
20116	Titanium dioxide	0.0362	DCPC
20116	Zinc sulphate	0.0150	DPIIT
20118	Aromatic Chemicals	0.0806	DPIIT
20119	Aniline	0.0154	DCPC
20119	Butadiene	0.0335	DCPC
20119	Catalyst, chemical	0.0415	DPIIT
20119	Expandable Polystyrene , EPS (thermocol)	0.0521	DCPC
20119	Fatty Acid	0.0254	DPIIT
20119	Linear Alkyl Benzene	0.0563	DCPC
20119	Liquid chlorine	0.0595	DCPC
20119	Phthalic anhydride, PAN	0.0353	DCPC
20119	Polyol	0.0636	DCPC
20119	Sodium Silicate	0.0204	DPIIT
20121	Urea	0.5590	D/o Fertilizers
20122	NPK fertilizers	0.3897	D/o Fertilizers
20123	Ammonia	0.2101	DPIIT
20123	Ammonium nitrate	0.0118	DPIIT
20123	Ammonium sulphate	0.0261	DPIIT
20123	Formaldehyde	0.0121	DCPC
20123	Nitric Acid	0.0181	DPIIT
20129	Diammonium Phosphate (DAP)	0.0761	D/o Fertilizers
20129	Superphosphate	0.0332	D/o Fertilizers
20131	Polyester chips or Polyethylene terephthalate(PET) chips	0.1108	DCPC
20131	Polymers (incl. Polyethylene, PVC, Poly propylene)	0.5954	DCPC
20131	PTFE (TEFLON)	0.0244	DCPC
20132	Caprolactam	0.0457	DCPC
20132	Synthetic rubber (incl. PBR, SBR)	0.0295	DCPC
20211	Detergent powder and washing powder	0.2578	DPIIT
20211	Pesticides-technical grade	0.2116	DCPC
20221	Paints (all types)	0.3874	DPIIT
20221	Varnish (all types)	0.0209	DPIIT
20223	Printing ink	0.0795	DPIIT
20229	Thinner	0.0110	DPIIT
20231	Toilet soap (excl. baby soap)- incl. liquid soap and foam	0.6078	DPIIT
20232	Organic surface active agents/ surfactants, except soap (incl. dishwashing soaps, wetting and cleansing agents)	0.1378	DPIIT
20233	Detergent cake, washing soap cake/ bar	0.4607	DPIIT
20235	Tooth paste	0.3223	DPIIT
20236	Hair dye	0.0468	DPIIT
20236	Hair oil	0.0556	DPIIT
20236	Hair shampoo	0.0929	DPIIT
20237	Creams and lotions for topical application	0.1255	DPIIT
20238	Agarbatti	0.1706	DPIIT

NIC 2008, 5- Digit	Item groups	Weights (in %)	Name of Source Agencies
(1)	(2)	(3)	(4)
20291	Safety matches (match box)	0.0638	DPIIT
20292	Fire works/pyrotechnic articles	0.0366	DPIIT
20292	Gun powder, detonators/ prepared explosives	0.0397	DPIIT
20293	Fragrances & Oil essentials	0.1967	DPIIT
20295	Adhesive formulations other than natural gum	0.3985	DPIIT
20295	Gelatin	0.0233	DPIIT
20297	Methanol	0.0291	DCPC
20299	Hydrogen Peroxide	0.0500	DCPC
20299	Mosquito coil	0.0215	DPIIT
20302	Man-made fibres (incl. Viscose and Artificial Fibres)	0.1614	DCPC & O/o Textile Commissioner

Source: Ministry of Statistics and Programme Implementation

DPIIT: Department for Promotion of Industry and Internal Trade

DCPC: Department of Chemicals and Petrochemicals

Section - VI

**Inflation Based on Wholesale Price Index
(WPI)**

**Table 37: Annual Inflation of Chemicals and Chemical Products vis-à-vis Other Commodities during FY 2017-18 to FY 2024-25
(Based on Wholesale Price Index with base year: 2011-12)**

Year	All Commodities	Food Articles	Manufactured Products	Chemicals & Chemical Products
Weight (%)	100.000	15.256	64.231	6.465
Wholesale Price Index (Base Year: 2011-12=100)				
2017-18	114.9	143.2	113.8	112.5
2018-19	119.8	143.7	117.9	119.1
2019-20	121.8	155.8	118.3	117.5
2020-21	123.4	160.7	121.5	118.2
2021-22	139.4	167.3	135.0	133.5
2022-23	152.5	179.5	142.6	145.4
2023-24	151.4	191.3	140.2	136.9
2024-25	154.9	205.3	142.6	136.5
Inflation (%)				
2017-18	3.0	2.1	2.8	1.4
2018-19	4.3	0.3	3.6	5.9
2019-20	1.7	8.4	0.3	-1.3
2020-21	1.3	3.1	2.7	0.6
2021-22	13.0	4.1	11.1	12.9
2022-23	9.4	7.3	5.6	8.9
2023-24	-0.7	6.6	-1.7	-5.8
2024-25	2.3	7.3	1.7	-0.3

Source: Office of the Economic Advisor (<http://eaindstry.nic.in>)

Table 38: Monthly Inflation of Chemicals and Chemical Products vis-a-vis Other Commodities in the FY 2024-25 (Based on Wholesale Price Index with base year: 2011-12)

Month	All Commodities	Food Articles	Manufactured Products	Chemicals & Chemical Products
Weight (%)	100.000	15.256	64.231	6.465
Wholesale Price Index (Base Year: 2011-12)				
Apr / 2024	152.9	196.8	141.2	135.7
May / 2024	153.5	199.3	142.0	135.8
Jun / 2024	154.0	205.5	142.0	136.4
Jul / 2024	155.3	213.1	141.7	136.7
Aug / 2024	154.4	209.0	141.3	136.7
Sep / 2024	154.7	210.8	141.9	136.5
Oct / 2024	156.7	217.9	142.9	136.3
Nov / 2024	156.4	213.7	143.1	136.4
Dec / 2024	155.7	207.5	143.0	136.5
Jan / 2025	155.0	199.8	143.4	136.8
Feb / 2025	154.9	195.9	144.0	136.9
Mar / 2025	154.8	194.8	144.6	136.9
Inflation (%)				
Apr / 2024	1.0	2.8	0.8	0.1
May / 2024	0.4	1.3	0.6	0.1
Jun / 2024	0.3	3.1	0.0	0.4
Jul / 2024	0.8	3.7	-0.2	0.2
Aug / 2024	-0.6	-1.9	-0.3	0.0
Sep / 2024	0.2	0.9	0.4	-0.1
Oct / 2024	1.3	3.4	0.7	-0.1
Nov / 2024	-0.2	-1.9	0.1	0.1
Dec / 2024	-0.4	-2.9	-0.1	0.1
Jan / 2025	-0.4	-3.7	0.3	0.2
Feb / 2025	-0.1	-2.0	0.4	0.1
Mar / 2025	-0.1	-0.6	0.4	0.0

Source: Office of the Economic Advisor (<http://eaindustry.nic.in>)

Table 39 : Wholesale Price Index (Base year: 2011-12) of Chemicals and Chemical Products (Group-wise) from the FY 2017-18 to FY 2024-25

Description	Weight	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Chemicals and Chemical Products	6.465	112.5	119.1	117.5	118.2	133.5	145.4	136.9	136.5
(a) Basic Chemicals	1.433	111.2	125.0	119.9	118.6	143.8	159.2	139.9	138.6
(b) Fertilizers and Nitrogen Compounds	1.485	117.1	121.1	123.1	123.6	129.6	144.8	142.8	143.1
(c) plastic and synthetic rubber in primary form	1.001	113.0	117.6	112.4	116.7	140.3	143.2	132.3	133.6
(d) Pesticides and Other Agrochemical Products	0.454	115.3	120.2	122.6	124.4	132.1	143.4	132.8	128.8
(e.) paints, Varnishes and Similar Coatings, Printing Ink and Mastics	0.491	108.6	112.7	114.7	114.9	130.4	145.0	143.7	139.5
(f) Soap and Detergents, Cleaning and Polishing Preparations, Perfumes and Toilet Preparations	0.612	115.2	116.8	118.6	120.6	128.1	140.8	139.7	139.7
(g) Other Chemical Products	0.692	110.1	116.6	114.2	115.1	130.3	142.1	134.4	135.4
(h) Man-Made Fibres	0.296	97.5	104.0	97.9	93.7	106.6	110.7	103.6	104.9

Source: Office of the Economic Advisor (<http://eaindstry.nic.in>)

Section - VII

Miscellaneous

Table 40: Index of Core Industries during FY 2017-18 to FY 2024-25 (Base year: 2011-12)

Sector	Weight (%)	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Coal	10.334	124.9	134.1	133.6	131.1	142.3	163.5	182.7	192.0
Crude Oil	8.983	93.7	89.8	84.5	80.1	77.9	76.6	77.1	75.4
Natural Gas	6.877	68.4	69.0	65.1	59.8	71.3	72.4	76.8	75.9
Refinery Products	28.038	125.2	129.1	129.4	114.9	125.1	131.2	135.9	139.7
Fertilizers	2.628	106.6	107.0	109.8	111.6	112.4	125.1	129.8	133.5
Steel	17.917	140.5	147.7	152.6	139.4	163.0	178.1	200.4	214.1
Cement	5.372	129.7	147.0	145.7	130.0	156.9	170.6	185.7	197.4
Electricity	19.853	149.2	156.9	158.4	157.6	170.1	185.2	198.3	208.6
Overall Index	100.000	125.7	131.2	131.6	123.2	136.1	146.7	157.8	164.9

Source: Office of the Economic Advisor (<http://eaindstry.nic.in>)

Table 41: Growth Rates of Core Industries (%) during FY 2017-18 to FY 2024-25 (Base Year: 2011-12)

Sector	Weight (%)	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Coal (%)	10.334	2.6	7.4	-0.4	-1.9	8.5	14.9	11.7	5.1
Crude Oil (%)	8.983	-0.9	-4.1	-5.9	-5.2	-2.6	-1.7	0.7	-2.2
Natural Gas (%)	6.877	2.9	0.8	-5.6	-8.2	19.2	1.6	6.1	-1.2
Refinery Products (%)	28.038	4.6	3.1	0.2	-11.2	8.9	4.8	3.6	2.8
Fertilizers (%)	2.628	0.0	0.3	2.7	1.7	0.7	11.3	3.8	2.9
Steel (%)	17.917	5.6	5.1	3.4	-8.7	16.9	9.3	12.5	6.8
Cement (%)	5.372	6.3	13.3	-0.9	-10.8	20.8	8.7	8.9	6.3
Electricity (%)	19.853	5.3	5.2	0.9	-0.5	8.0	8.9	7.1	5.2
Overall Index	100.000	4.3	4.4	0.4	-6.4	10.4	7.8	7.6	4.5

Source: Office of the Economic Advisor (<http://eaindstry.nic.in>)

Table 42: Consumption of Naphtha, Natural Gas and Fuel Oil during FY 2020-21 to FY 2024-25

Name of Product	Description	Unit	2020-21	2021-22	2022-23	2023-24	2024-25
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Naphtha	Production	K Tonnes	19381	19994	17036	18274	17924
	Import	K Tonnes	1199	237	897	1211	941
		Value in Rs. Crore	3844	1499	4781	6627	5347
	Export	K Tonnes	6509	6861	5714	5275	5169
		Value in Rs. Crore	18643	37231	33357	27019	28633
	Availability	K Tonnes	14071	13370	12219	14210	13696
	Consumption	K Tonnes	14100	13246	12127	13812	13153
Natural Gas¹	Gross Production	MMSCM	28672	34024	34450	36438	36113
	Net Production	MMSCM	27784	33131	33664	35717	35594
	Import \$	MMSCM	33198	31028	26304	31795	35720
		Value in Rs. Crore	58329	100521	137210	110994	125953
	Availability	MMSCM	60981	64159	59969	67512	71314
	Consumption **	MMSCM	56116	61491	58702	68809	71196
Fuel Oil	Production	K Tonnes	7071	8509	9590	9698	10326
	Import	K Tonnes	6454	8980	8563	9053	7674
		Value in Rs. Crore	14312	32815	33474	33669	29049
	Export	K Tonnes	1177	1757	1841	2103	2413
		Value in Rs. Crore	2318	6633	7834	7961	9050
	Availability	K Tonnes	12348	15732	16312	16648	15587
	Consumption	K Tonnes	5586	6262	6958	6520	6459
Naphtha	Fertilizers Sector	K Tonnes	66	0	0	0	0
	Petrochemical Sector	K Tonnes	11339	11904	10402	10424	11457
Natural Gas²	Fertilizer Industries	MMSCM	17781	18079	19400	21035	20483
	Petrochemicals Industry	MMSCM	3072	2864	1959	2975	3355
Fuel Oil (Furnace Oil + LSHS)	Chemicals & allied	K Tonnes	237	239	205	164	227

**:Sectorial Consumption

Source: Oil & Gas CPSEs and PPAC, Ministry of Petroleum and Natural Gas (M/o PNG)

Table 43: Important indicators of Industry Division 20 and 21 (Unincorporated Non-Agricultural Sector) in 2023-24 (October 2023 - September 2024)

Description	Rural	Urban	Combined
(1)	(2)	(3)	(4)
Estimated number of workers			
Estimated number of workers (Industry Division 20)	64148	90161	154309
Estimated number of workers (Industry Division 21)	4425	19333	23758
Estimated number of workers (Manufacturing activities)	17560058	16137622	33697680
Estimated number of workers (All activities) #	56138411	64461404	120599815
Estimated number of establishment			
Estimated number of establishments (Industry Division 20)	16770	24406	41176
Estimated number of establishments (Industry Division 21)	1691	5705	7396
Estimated number of establishments (Manufacturing activities)	12091435	8055022	20146457
Estimated number of establishments (All activities) #	39747675	33651800	73399476
Estimated annual GVA per worker (Rs.)			
Estimated annual GVA per worker (Industry Division 20)	167483	175623	172239
Estimated annual GVA per worker (Industry Division 21)	162634	230722	218040
Estimated annual GVA per worker (Manufacturing activities)	81642	146849	112869
Estimated annual GVA per worker of (All Activities) #	113917	180929	149742
Estimated annual GVA per establishment (Rs.)			
Estimated annual GVA per establishment (Industry Division 20)	640647	648800	645479
Estimated annual GVA per establishment (Industry Division 21)	425634	781883	700434
Estimated annual GVA per establishment (Manufacturing activities)	118567	294202	188789
Estimated annual GVA per establishment of (All Activities) #	160658	346081	245687

including Manufacturing activities, Non-captive electricity generation & transmission, Trading activities and Other services

Note: As per the National Industrial Classification (NIC) 2008, Industry Division 20 pertains to the manufacture of chemicals and chemical products, while Division 21 pertains to the manufacture of pharmaceuticals, medicinal chemicals, and botanical products.

Source: Annual Survey of Unincorporated Sector Enterprises (ASUSE), Ministry of Statistics & Programme

Table 44: Employment in Chemicals and Chemicals Products (Industry Division 20, NIC-2008) during FY 2018-19 to FY 2023-24

S.No.	Industry	Number of Persons Engaged					
		2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1	Chemicals and Chemicals products (Industry Division 20, NIC 2008)	887240	932428	958839	1026380	1058217	1140695
2	Industries Other than Chemicals and Chemicals products	15392971	15691863	15130861	16188970	17436745	18448436
3	All Industries	16280211	16624291	16089700	17215350	18494962	19589131
4	Share in Employment (%)						
	(a) Share of Chemicals and Chemicals products	5.4	5.6	6.0	6.0	5.7	5.8
	(b) Share of Other than Chemicals and Chemicals products	94.6	94.4	94.0	94.0	94.3	94.2
5	Growth in Employment (%)						
	(a) Chemicals and Chemicals products	7.1	5.1	2.8	7.0	3.1	7.8
	(b) Industries Other than Chemicals and Chemicals products	4.1	1.9	-3.6	7.0	7.7	5.8
	(c) All Industries	4.3	2.1	-3.2	7.0	7.4	5.9

Note: As per NIC - 2008, Chemical & Chemical products are covered under the Industry Division 20.

Source: Annual Survey of Industries (ASI) Results, Ministry of Statistics & Programme Implementation

Table 45: Gross Value Added (GVA) from Chemical and Chemical Products (Industry Division 20: NIC 2008) and Pharmaceutical; Medicinal chemicals and Botanical product (Industry Division 21: NIC 2008) vis-a-vis Manufacturing Sector and All Economic Activities (at current prices)

Description	At Current Prices					(Rs. In Crore)
	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Industry Division 20: Chemical and chemical products (Corporate)	247860	264075	283853	308932	317279	313944
Industry Division 20:Chemical and chemical products (Household)	2173	1673	1604	2271	2256	2092
Industry Division 20: Chemical and chemical products (Corporate +Household)	250032	265747	285458	311203	319535	316036
Growth over previous year (%)	11.3	6.3	7.4	9.0	2.7	-1.1
Industry Division 21:Pharmaceutical; medicinal chemicals and botanical products (Corporate)	190831	202381	223911	256098	234838	276906
Industry Division 21:Pharmaceutical; medicinal chemicals and botanical products (Household)	606	726	851	1133	1135	1244
Total Pharmaceutical; medicinal chemicals and botanical products (Industry Division 21)	191437	203107	224762	257231	235973	278150
Total Chemical and chemical products including Pharmaceutical; medicinal chemicals and botanical products (Industry Division 20 and 21)	441470	468854	510220	568434	555508	594186
Growth over previous year (%)	13.1	6.2	8.8	11.4	-2.3	7.0
Manufacturing (Corporate)	2459081	2363718	2456813	2960021	3065469	3455332
Manufacturing (Household)	353479	341383	346681	432584	469397	466264
Manufacturing (Corporate +Household)	2812560	2705101	2803495	3392605	3534867	3921596
Growth over previous year (%)	9.6	-3.8	3.6	21.0	4.2	10.9
GVA at basic prices for All Economic activities	17175128	18381117	18210997	21635584	24646698	27412888
Growth over previous year (%)	10.8	7.0	-0.9	18.8	13.9	11.2
Share of GVA of Manufacturing sector in GVA for All Economic Activities	16.4	14.7	15.4	15.7	14.3	14.3
Share of GVA of Chemical and chemical products excluding Pharmaceutical; medicinal chemicals and botanical products (Industry Division 20)in GVA for All Economic Activities	1.5	1.4	1.6	1.4	1.3	1.2
Share of GVA of Chemical and chemical products including Pharmaceutical; medicinal chemicals and botanical products (Industry Division 20 and 21) in GVA for All Economic Activities	2.6	2.6	2.8	2.6	2.3	2.2
Share of GVA of chemical and chemical products (Industry Division 20)in GVA for Manufacturing Sector	8.9	9.8	10.2	9.2	9.0	8.1
Share of GVA of chemical and chemical products including Pharmaceutical; medicinal chemicals and botanical products (Industry Division 20 and 21)in GVA for Manufacturing Sector	15.7	17.3	18.2	16.8	15.7	15.2

Source: National Accounts Statistics, Ministry of Statistics & Programme Implementation.

Table 46: Gross Value Added from Chemical and Chemical Products (Industry Division 20: NIC 2008) and Pharmaceutical; Medicinal Chemicals and Botanical Product (Industry Division 21: NIC 2008) vis-a-vis Manufacturing sector and all Economic Activities (at constant price: 2011-12)

Description	At Constant Price (2011-12)					(Rs. In Crore)
	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Industry Division 20: Chemical and chemical products (Corporate)	145051	172538	190147	231410	218211	229323
Industry Division 20: Chemical and chemical products (Household)	1824	1424	1357	1701	1551	1528
Industry Division 20: Chemical and chemical products (Corporate +Household)	146876	173961	191504	233111	219763	230852
Growth over previous year (%)	15.3	18.4	10.1	21.7	-5.7	5.0
Industry Division 21: Pharmaceutical; medicinal chemicals and botanical products (Corporate)	154519	158980	171055	188446	166670	193776
Industry Division 21: Pharmaceutical; medicinal chemicals and botanical products (Household)	491	570	650	834	805	870
Total Pharmaceutical; medicinal chemicals and botanical products (Industry Division 21)	155010	159550	171705	189280	167476	194647
Total Chemical and chemical products including Pharmaceutical; medicinal chemicals and botanical products (Industry Division 20 and 21)	301885	333511	363210	422390	387238	425498
Growth over previous year (%)	14.4	10.5	8.9	16.3	-8.3	9.9
Manufacturing (Corporate)	2039878	1981512	2049824	2244755	2188965	2497773
Manufacturing (Household)	289114	278193	279336	316278	327398	328162
Manufacturing (Corporate +Household)	2328992	2259706	2329160	2561033	2516364	2825935
Growth over previous year (%)	5.4	-3.0	3.1	10.0	-1.7	12.3
GVA at basic prices for All Economic activities	12733798	13236100	12687345	13876840	14878028	16151477
Growth over previous year (%)	5.8	3.9	-4.1	9.4	7.2	8.6
Share of GVA of Manufacturing sector in GVA for All Economic Activities	18.3	17.1	18.4	18.5	16.9	17.5
Share of GVA of Chemical and chemical products excluding Pharmaceutical; medicinal chemicals and botanical products (Industry Division 20) in GVA for All Economic Activities	1.2	1.3	1.5	1.7	1.5	1.4
Share of GVA of Chemical and chemical products including Pharmaceutical; medicinal chemicals and botanical products (Industry Division 20 and 21) in GVA for All Economic Activities	2.4	2.5	2.9	3.0	2.6	2.6
Share of GVA of chemical and chemical products (Industry Division 20) in GVA for Manufacturing Sector	6.3	7.7	8.2	9.1	8.7	8.2
Share of GVA of chemical and chemical products, including Pharmaceutical; medicinal chemicals and botanical products (Industry Division 20 and 21) in GVA for Manufacturing Sector	13.0	14.8	15.6	16.5	15.4	15.1

Source: National Accounts Statistics, Ministry of Statistics & Programme Implementation.

Table 47: Value of Output from Chemicals and Chemical Products (Industry Division 20: NIC 2008) and Pharmaceutical; Medicinal Chemicals and Botanical Product (Industry Division 21: NIC 2008) vis-a-vis Manufacturing sector (at current price)

(Rs. In crore)

Description	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Manufacturing (Corporate)	10845743	10827558	10637200	14481692	17048242	17965744
Manufacturing (Household)	1058116	1028602	1056610	1290560	1380986	1384559
Manufacturing (Corporate +Household)	11903859	11856161	11693810	15772252	18429228	19350303
Chemical and chemical products (Corporate) (Industry Division 20)	950939	968502	953211	1285083	1581037	1502947
Chemical and chemical products (Household) (Industry Division 20)	10848	8352	8011	11339	12296	11404
Total Chemical and chemical products excluding Pharmaceutical; medicinal chemicals and botanical products (Industry Division 20)	961786	976854	961222	1296422	1593333	1514351
Pharmaceutical; medicinal chemicals and botanical products --Corporate (Industry Division 21)	399906	436614	503296	606488	580430	657637
Pharmaceutical; medicinal chemicals and botanical products --Household (Industry Division 21)	3026	3623	4250	5657	4315	4728
Total Pharmaceutical; medicinal chemicals and botanical products (Industry Division 21)	402932	440237	507547	612145	584745	662365
Total Chemical and chemical products including Pharmaceutical; medicinal chemicals and botanical products (Industry Division 20 and 21)	1364718	1417091	1468768	1908568	2178078	2176717

Source: National Accounts Statistics, Ministry of Statistics & Programme Implementation.

Table 48: Value of Output from Chemicals and Chemical Products (Industry Division 20: NIC 2008) and Pharmaceutical; Medicinal Chemicals and Botanical Product (Industry Division 21: NIC 2008) vis-a-vis Manufacturing sector (at constant prices: 2011-12)

(Rs. In crore)

Description	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Manufacturing (Corporate)	9401296	9407744	9065404	10869880	11842680	12750274
Manufacturing (Household)	865740	836055	845787	935942	950848	959464
Manufacturing (Corporate +Household)	10267035	10243798	9911191	11805823	12793528	13709739
Chemical and chemical products (Corporate) (Industry Division 20)	798437	824257	806439	962609	1087371	1097843
Chemical and chemical products (Household) (Industry Division 20)	9108	7108	6778	8494	8457	8330
Total Chemical and chemical products excluding Pharmaceutical; medicinal chemicals and botanical products (Industry Division 20)	807545	831365	813216	971103	1095828	1106173
Pharmaceutical; medicinal chemicals and botanical products --Corporate (Industry Division 21)	323811	342981	384489	446275	411945	460208
Pharmaceutical; medicinal chemicals and botanical products --Household (Industry Division 21)	2450	2846	3247	4163	3062	3309
Total Pharmaceutical; medicinal chemicals and botanical products (Industry Division 21)	326261	345827	387736	450438	415007	463517
Total Chemical and chemical products including Pharmaceutical; medicinal chemicals and botanical products (Industry Division 20 and 21)	1133806	1177192	1200953	1421541	1510835	1569690

Source: National Accounts Statistics, Ministry of Statistics & Programme Implementation.

Table 49: All India Estimate of Selected Characteristics of Factory Sector for Chemical and Chemical Products (Industry Division 20: NIC 2008), Pharmaceutical; medicinal Chemicals and Botanical Product (Industry Division 21: NIC 2008) and Manufacture of Magnetic and Optical Media (Industry Division 268)

Description	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Industry Division 20: Chemical and chemical products						
No of factories (no.)	12902	13459	13770	13522	13979	14387
No of workers (no.)	666623	693865	706478	767657	785558	851378
Total Output (Rs. crore)	821126	793096	781482	1097908	1315603	1239711
Total Inputs (Rs. crore)	661207	627208	595683	875273	1099660	1023247
Gross Value Added (Rs. crore)	159919	165888	185799	222636	215943	216464
Industry Division 21: Pharmaceutical; medicinal chemicals and botanical products						
No of factories (no.)	5161	5326	5319	5228	5502	5756
No of workers (no.)	483238	516095	533391	577128	599001	624563
Total Output (Rs. crore)	342227	348658	406291	486178	475705	518510
Total Inputs (Rs. crore)	224274	226275	262166	314070.04	314479	340593
Gross Value Added (Rs. crore)	117953	122382	144124	172108	161226	177917
Industry Division 268: Manufacture of Magnetic and Optical Media						
No of factories (no.)	15	15	4	7	6	8
No of workers (no.)	1970	1053	740	962	556	575
Total Output (Rs. Lakh)	375859	87974	29890	67757	65331	84817
Total Inputs (Rs. Lakh)	283135	79865	23594	44525	47886	67172
Gross Value Added (Rs. Lakh)	92724	8109	6296	23232	17445	17645

Source : Annual Survey of Industries (ASI) Results, Ministry of Statistics & Programme Implementation

Table 50: State wise Estimate of Selected Characteristics of Factory Sector for Industry Division 20: NIC 2008: Chemicals and Chemical Products

State	No. of Factories				GVA (Rs. Lakh)				Total Output (Rs Lakh)			
	2020-21	2021-22	2022-23	2023-24	2020-21	2021-22	2022-23	2023-24	2020-21	2021-22	2022-23	2023-24
(1)	(2)	(3)	(4)	(5)	(6)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Andhra Pradesh	450	473	502	484	680931	727361	1173248	1152695	2854817	3970052	5811973	5573169
Assam	180	137	182	140	453712	491976	718647	425657	1138784	1158120	2189754	1238414
Bihar	51	51	50	53	23409	21096	27796	94800	131254	158933	954176	584920
Chhattisgarh	139	153	153	163	32114	56648	68877	127118	187989	469208	402912	468132
Goa	51	36	30	32	98724	109356	128138	135100	490954	565023	875266	815539
Gujarat	3018	2993	3131	3424	6430276	8020952	6605039	6025740	25990446	38331607	43888156	39056075
Haryana	495	405	400	433	490844	502725	550164	553152	2191507	2528703	3472214	3235300
Himachal Pradesh	215	221	207	213	539098	470492	485712	557192	1595976	1561608	1627160	1778271
Jammu & Kashmir	143	105	124	117	528406	290756	329678	339712	1551604	972678	1133162	1104255
Jharkhand	84	95	87	86	55507	67167	63839	242339	265238	402994	537860	870538
Karnataka	640	641	677	634	549464	674908	858240	751268	2100452	3215584	3598728	3127305
Kerala	219	199	160	184	227448	263483	295420	369619	892076	1111925	1454678	1697346
Madhya Pradesh	325	345	357	350	208689	385407	402008	604213	1614403	2538375	3188848	4896216
Maharashtra	1892	1974	1952	1987	2650282	3769611	3833510	3861039	12470588	17591190	20590463	19641592
Meghalaya	3	5	4	4	2195	1903	342	285	3979	4966	2141	1525
Mizoram	0	0	0	0	0	0	0	0	0	0	0	0
Odisha	114	101	103	104	312979	409146	455951	296456	1249776	2312431	2691618	1865328
Punjab	191	227	201	185	161014	258930	291142	270333	876109	1457698	1770022	1780424
Rajasthan	361	406	462	497	708173	761264	800402	697133	3354013	4211306	5859705	5043276
Sikkim	0	0	3	3	0	0	17919	25257	0	0	44330	54000
Tamil Nadu	2706	2626	2718	2811	820713	1010948	1016193	840526	3792586	6338824	6257336	5923712
Tripura	7	7	7	7	179	635	164	242	314	4790	2326	1764
Uttar Pradesh	750	802	871	1006	1025826	1157842	911028	1211764	4704933	6931558	8969889	8989513
Uttarakhand	228	200	218	217	786279	769675	843310	799795	2145639	2316209	2612347	2529851
West Bengal	382	358	378	357	639647	658515	571725	712861	2770482	4034102	5519942	5071805
Dadra & N Haveli & Daman & Diu	342	342	324	275	694297	891629	589604	705767	3963429	5159314	4946721	5377924
Chandigarh	3	3	3	3	956	1107	1065	1066	9298	10401	10656	10749
Delhi	86	57	76	79	19403	19183	-68805	13124	130663	157075	51467	135700
Puducherry	114	114	109	109	226480	234201	226916	364301	557272	863531	725921	871536
Telangana	576	439	485	425	207106	227915	396882	467757	1100171	1388628	2369779	2226284
All India	13765	13515	13974	14382	18574151	22254831	21594154	21646311	78134752	109766833	131559550	123970463

Source : Annual Survey of Industries (ASI) Results, Ministry of Statistics & Programme Implementation

Table 51: Production, Import, Export, Consumption of Major Chemicals and Petrochemicals and Export as percentage (%) of Production and Imports as percentage (%) of Consumption

(In Thousand Tonnes)

Group	Description	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Major Chemicals	Production	11069	11589	11943	11243	12743	13039	12979	13983
Major Petrochemicals									
A. Major Petrochemicals		15670	16269	19041	17938	19371	18135	19028	20643
B. Intermediates		19063	19057	22119	21903	22686	19646	20594	21420
C. Other Petro-based Chemicals		2080	2192	2364	2318	2531	2511	2538	2572
Total Major Chemicals and Petrochemicals		47882	49108	55467	53402	57332	53331	55140	58617
Major Chemicals	Exports	1496	1579	1698	1905	2339	2313	2642	2807
Major Petrochemicals									
A. Major Petrochemicals		3293	4095	3719	2681	2505	1600	1642	1806
B. Intermediates		3915	5377	4842	5421	4818	2878	2000	1922
C. Other Petro-based Chemicals		193	147	238	171	212	189	209	216
Total Major Chemicals and Petrochemicals		8897	11198	10497	10179	9874	6981	6493	6751
Major Chemicals	Imports	5937	6379	6557	5983	6385	6878	7334	7334
Major Petrochemicals									
A. Major Petrochemicals		6408	6284	5356	4356	4597	6768	7317	6133
B. Intermediates		3180	2845	3323	2786	3843	4696	4507	5345
C. Other Petro-based Chemicals		3255	3227	3543	3069	3291	3426	3327	3621
Total Major Chemicals and Petrochemicals		18780	18735	18780	16194	18117	21768	22484	22433
Major Chemicals	Consumption\$	15510	16389	16802	15321	16789	17603	17670	18511
Major Petrochemicals									
A. Major Petrochemicals		18785	18458	20678	19613	21464	23303	24703	24970
B. Intermediates		18328	16525	20600	19268	21711	21464	23101	24843
C. Other Petro-based Chemicals		5142	5272	5670	5216	5610	5747	5656	5976
Total Major Chemicals and Petrochemicals		57765	56645	63751	59418	65575	68118	71130	74299
Major Chemicals	Exports as % of Production	13.5	13.6	14.2	16.9	18.4	17.7	20.4	20.1
Major Petrochemicals									
A. Major Petrochemicals		21.0	25.2	19.5	14.9	12.9	8.8	8.6	8.7
B. Intermediates		20.5	28.2	21.9	24.7	21.2	14.6	9.7	9.0
C. Other Petro-based Chemicals		9.3	6.7	10.0	7.4	8.4	7.5	8.2	8.4
Total Major Chemicals and Petrochemicals		18.6	22.8	18.9	19.1	17.2	13.1	11.8	11.5
Major Chemicals	Imports as % of Consumption	38.3	38.9	39.0	39.1	38.0	39.1	41.5	39.6
Major Petrochemicals									
A. Major Petrochemicals		34.1	34.0	25.9	22.2	21.4	29.0	29.6	24.6
B. Intermediates		17.4	17.2	16.1	14.5	17.7	21.9	19.5	21.5
C. Other Petro-based Chemicals		63.3	61.2	62.5	58.8	58.7	59.6	58.8	60.6
Total Major Chemicals and Petrochemicals		32.5	33.1	29.5	27.3	27.6	32.0	31.6	30.2

\$ Derived consumption as Production+ Imports-Exports

Table 52: Exports of all Chemicals as % of Value of output and Imports of all Chemicals as % of Consumption

(Rs. In Crore)

Item	Code	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Exports of Inorganic chemicals; organic or inorganic compounds of precious metals, of rare-earth metals, of radioactive elements or of isotopes	HS code 28	14056	12512	12301	19800	26642	26552	34411
Exports of Organic chemicals	HS code 29	127855	124195	133637	164815	172357	168922	170244
Exports of Pharmaceutical products	HS code 30	103240	115473	143738	144581	159644	183052	208129
Exports of Fertilizers	HS code 31	1038	837	779	630	1057	1077	1367
Exports of Tanning or dyeing extracts; dyes, pigments, paints, varnishes, putty and mastics	HS code 32	23124	24409	22660	29513	26528	32997	30117
Exports of Miscellaneous chemical products	HS code 38	32397	35663	37886	52416	63282	54454	59003
Exports of Plastics and articles thereof	HS code 39	56079	48970	51004	67440	61518	61117	69000
Exports of Synthetic Rubber & Factice derived form Oils,in Primary Forms or in Plates, Sheets or Strip	HS code 4002	739	759	821	1141	964	1097	1382
Exports of Man-made filaments	HS code 54	16018	16962	11470	18070	15731	14576	14970
Exports of Man-made staple fibers	HS code 55	13308	11824	9559	15402	14283	13569	13643
Exports of all Chemicals (including Pharmaceutical products and Fertilizers)	HS codes 28,29,30,31,32,38,39,4002,54 and 55	387853	391604	423855	513807	542007	557414	602265
Imports of Inorganic chemicals; organic or inorganic compounds of precious metals, of rare-earth metals, of radioactive elements or of isotopes	HS code 28	53237	45045	50955	76356	102895	75653	96472
Imports of Organic chemicals	HS code 29	156552	140205	145830	212615	232169	221362	224782
Imports of Pharmaceutical products	HS code 30	14581	16530	18934	25603	21023	21403	25225
Imports of Fertilizers	HS code 31	46457	47397	51034	95329	123407	73885	70030
Imports of Tanning or dyeing extracts; dyes, pigments, paints, varnishes, putty and mastics	HS code 32	15460	14518	14036	19431	20490	30116	24290
Imports of Miscellaneous chemical products	HS code 38	41748	39069	45324	58634	65756	61486	67746
Imports of Plastics and articles thereof	HS code 39	106591	100607	98392	149067	185547	180722	186903
Imports of Synthetic Rubber & Factice derived form Oils,in Primary Forms or in Plates, Sheets	HS code 4002	7896	6079	6269	9154	11121	9861	11779
Imports of Man-made filaments	HS code 54	6843	7351	6727	11144	14287	13711	12823
Imports of Man-made staple fibers	HS code 55	6508	6785	6180	7714	9822	7460	7103
Imports of all Chemicals (including Pharmaceutical products and Fertilizers)	HS codes 28,29,30,31,32,38,39,4002,54 and 55	455872	423587	443683	665047	786518	695657	727152
Value of Output of Chemicals and Chemical products (at current prices)	Industry Division 20 and 21: NIC 2008	1364718	1417091	1468768	1908568	2178078	2238825	
Consumption of Chemicals and Chemical products	Value of Output + Imports - Exports	1432737	1449075	1488597	2059807	2422590	2377068	
Exports of all Chemicals as % of Value of Output		28.4	27.6	28.9	26.9	24.9	24.9	
Imports of all Chemicals as % of Derived Consumption		31.8	29.2	29.8	32.3	32.5	29.3	

Chapter 28: Inorganic Chemicals; Organic or Inorganic Compounds of Precious Metals, of Rare-Earth Metals, of Radioactive Elements or of Isotopes; **Chapter 29:** Organic Chemicals; **Chapter 30:** Pharmaceutical products; **Chapter 31:** Fertilizers ; **Chapter 32:** Tanning or Dyeing Extracts; Tannins and their Derivatives; Dyes, Pigments and Other Colouring Matter; Paints and Varnishes; Putty and other Mastics; Inks; **Chapter 38:** Miscellaneous Chemical Products; **Chapter 39:** Plastics and articles thereof; **4002:** Synthetic rubber and factice derived from oils, in primary forms or in plates, sheets or strip; mixtures of any pro **Chapter 54:** Man-made Filaments and **Chapter 55:** Man-made staple fibres

Note: 1. Data source in respect of Imports, Exports (Chapter-wise) is DGCIIS Portal.

2 : Data Source in respect of value of output is National Account Statistics, Ministry of Statistics & Programme Implementation



Statistics and Monitoring Division
Department of Chemicals and Petrochemicals
Ministry of Chemicals and Fertilizers
Government of India
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Website: www.chemicals.gov.in