



CROP SCIENCE INGREDIENTS



Jubilant's Crop Science Ingredients business offers value added intermediates & Actives for Agrochemical industry. Jubilant being a global leader in Pyridine and Picoline, offers value added Crop Science Ingredients on a sustainable basis. We are a preferred supplier for Crop Science Ingredients to agrochemical customers across the globe.

PRODUCT OFFERINGS

- Symtet (2,3,5,6-Tetrachloropyridine)
- PCP (2,3,4,5,6- Pentachloropyridine)
- 2,3-Dichloropyridine
- 2,3,6-Trichloropyridine
- Chlormequat Chloride (CDC)
- Custom Manufacturing - Agro Products under contractual agreement

Symtet

Symtet is the key Advance Intermediate to produce 'Chlorpyrifos' - the world's largest insecticides by volume and the Herbicide 'Triclopyr'. Jubilant has the world's largest manufacturing plant for Symtet at Bharuch.

PCP

PCP is the basic building block for the production of the herbicide 'Fluroxypyr'. Large capacity of PCP has been built to offer several 100s of MT.

2,3-Dichloropyridine

2,3-Dichloropyridine is the key intermediate in production of one of the widely used insecticide, 'Chlorantraniliprole' (Rynaxypyr). It is produced in the most cost effective way, through a niche technology, developed in-house.

KEY HIGHLIGHTS

Chlormequat Chloride (CDC)

CDC is a plant growth regulator. As a market leader in India, with a capacity of about 1800 TPA, CDC is produced and supplied to several customers.

In addition to above, Crop Science Ingredients business is developing chosen Agro-Actives towards forward integration plan for some of its Advance Intermediates (Primarily Pyridine & Picolines based intermediates) and intends to offer the same to its existing and new customers in future. All necessary regulatory work is underway, in India, to ensure quick availability and delivery of these actives, for its customers.

Custom Research and Manufacturing - Agro Intermediates & Actives

Jubilant Custom Manufactures for Agro Chemicals industry & handles large volume custom research & manufacturing of Intermediates & Actives for global agro customers, through specific long term agreements. Its expertise lies in developing customizable, cost effective, efficient and scalable processes for specific products (Intermediates & Actives). The business has several ongoing, successful long term arrangements with its customers and global agrochemical companies.

Research & Development

The business has three major R&D facilities located in Noida (near Delhi), Gajraula (near Delhi) and Ambarnath (Maharashtra). These R&D facilities have fully equipped analytical laboratory with advance equipment including: NMR, XRD, Reaction Calorimeter, LC-MS, Prep HPLC, Particle Size Analyser, Optical Microscope, Stability Chambers, Polarimeter, IR, DSC, TSC etc. All projects in R&D are coded and distributed to maintain strict confidentiality.

We have state-of-art R&D facilities, Kilo lab, pilot plant (including HF based fluorination) and multi purpose plants (4 Locations) to commercialize customer projects through our chemistry capabilities.

Chemistry & Technology Platforms

We have developed several chemistry platforms and have also developed expertise in the following niche technologies - Amination (Chichibabin reaction), Grignard Reaction, Sodamide/Sodium Methoxide Reaction, Quarternisation, Photochlorination, Halogenation & Dehalogenation, Vapour phase Rxn (up to 450°C), High Pressure Reaction, Liquid & Vapour phase Chlorination, Polychlorination, Bromination, Fluorination using KF & HF, Oxime Reaction and many more.

Manufacturing

The business has 4 Manufacturing plants (1) Gajraula (NCR) (2) Ambernath (Maharashtra) (3) Bharuch (Gujarat) (4) Savali (Gujarat). Commercial plants have over 70 reactors (MSGLR, SS, and Hastelloy) size ranging from 1KL to 14KL with total reactor volume of about 750 KL. At these facilities operations are carried out at both very high (200°C) and very low (-20°C) temperatures.

Quality, Safety and Environmental Protection are the foremost commitments at Jubilant's manufacturing plants. Conscious efforts are constantly undertaken to build efficiencies and economies of scale without compromising on quality. All of the Company's manufacturing plants follow global standards of best manufacturing practices. Jubilant plants are ISO 9001:2008, 14001:2004 & OHSAS 18001:2007 certified. They also have NABL accredited QC laboratories with Standard ISO/IEC 17025:2005 certification. Jubilant contributes to the planet's most precious resource, water, by 100% recycling with use of latest technologies.

Low Carbon Footprint

Most of our Crop Science Ingredients are manufactured using captive feedstock of Pyridine and Picoline, using greener inputs (non-petro route), to offer ecological benefits in addition to reducing the carbon footprint by 10 -30%

Project Management

An exclusive Project Management Office (PMO) has been introduced to improve overall co-ordination for Custom Manufacturing of agrochemicals. Each project in Custom Manufacturing of agrochemicals is handled with care by a certified Project Manager.

A designated Project Manager is the single point of contact for customers. The processes are structured to map project progress, documentation etc., with the help of Enterprise Project Management (EPM) software.

Global Reach

Jubilant has a noticeable global footprint, owing to its network of offices and warehouses in India, USA, Europe and China. This network is backed by a strong supply chain, ensuring consistent supply of products to various locations in the world.



LIFE SCIENCE INGREDIENTS LOCATIONS

OFFICES

Corporate Office

1A, Sector 16A, Noida - 201 301,
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MANUFACTURING FACILITIES

India

Uttar Pradesh

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Gujarat

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Maharashtra

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Jubilant Life Science Ingredients is a Partner of Choice for manufacture and supply of Advance Intermediates, Fine Ingredients, Crop Science Ingredients, Life Science Chemicals & Nutritional Products.

Serving customers in over 70 countries, we are among global leaders in Vitamin B3, Pyridine and its eleven derivatives and Acetyls.

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