A global integrated Life Science products and Innovative Solutions provider
**COMPANY OVERVIEW**

**Ingrevia** is born out of a union of ‘**Ingredients**’ and ‘**Life**’ (‘**Vie**’ in French). Jubilant Ingrevia Limited is committed to offering high quality and innovative life science ingredients to enrich all forms of life.

Jubilant Ingrevia Limited, a global integrated Life Science products and Innovative Solutions provider is focused on bringing value to its stakeholders in a sustainable manner. A science active company with five state-of-the-art manufacturing facilities and R&D centres in India. Through its businesses of Specialty Chemicals, Nutrition & Health Solutions and Life Science Chemicals, it is serving fast-growing and diverse industries such as Pharmaceuticals, Agrochemicals, Nutrition, Consumer and Industrial applications.

Jubilant Ingrevia has a team of around 2200 multi cultural people across the globe and is committed to deliver value to its customers across over 100 countries it enjoys a strong position given strengths in vertical integration, chemistry capabilities, low-cost manufacturing, best-in-class processes, and global leadership in key products.

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**INNOVATION AND SCALE**

Committed to leverage innovation and scale of operations at every step of the value chain.
BUSINESS SEGMENTS

SPECIALTY CHEMICALS

- Specialty Ingredients
- Fine Chemicals
- Crop Protection Chemicals
- Custom Development and Manufacturing Organization (CDMO)

LIFE SCIENCE CHEMICALS

- Life Science Ingredients
- Specialty Ethanol

NUTRITION & HEALTH SOLUTIONS

- Nutrition & Health Ingredients
- Animal Nutrition & Health Solutions
- Human Nutrition & Health Solutions
LEADERSHIP POSITIONS

BUSINESS SEGMENTS

Specialty Chemicals
Global Leadership in Pyridine and 11 Pyridine Derivatives

Nutrition & Health Solutions
Globally No. 2 in Niacinamide (Vitamin B3)

Life Science Chemicals
Globally No. 7 in Ethyl Acetate and No. 4 in Acetic Anhydride

Four decades of transition and progress

Serving customers across
~100 countries

Revenue FY 2020
₹31,786 million

5 Manufacturing Facilities
MANUFACTURING FACILITIES

Gajraula, Uttar Pradesh, India
Integrated Pyridine & its derivatives, Specialty Chemicals and Life Science Chemicals

Bharuch, Gujarat, India
Nutrition & Health Ingredients, Specialty Chemicals and Life Science Chemicals facility located in the Special Economic Zone (SEZ)

Nira, Maharashtra, India
Life Science Chemicals

Samlaya, Gujarat, India
Animal Nutrition & Health Solutions

Ambernath, Maharashtra, India
Specialty Chemicals

GLOBAL FOOTPRINT

Operations in following countries
- India
- USA
- Canada
- Singapore
- Belgium
- China

World-class research centres in India
at Noida and Gajraula, India

~2,200 multicultural people

Listed on
Indian Stock Exchanges
at NSE & BSE
The company is engaged in the business of Specialty Chemicals, Nutrition & Health Solutions and Life Science Chemicals through five manufacturing facilities in India. This segment offers a broad portfolio of high quality ingredients that find application in wide range of industries. In this segment, we enjoy a strong position given our strengths in vertical integration, chemistry capabilities, low-cost manufacturing, best-in-class processes, and global leadership in key products.
We have leveraged on backward integrated feedstock of Acetaldehyde produced from Ethanol, coupled with global expertise in Pyridine Chemistry to achieve global leadership position in Pyridine business. We have forward integrated this Pyridine and Picolines platform to develop over 70 commercial products for various applications. We have built global capacities in most of these products with global leadership position in value added products.

The Specialty Chemicals products of Jubilant are used in Pharmaceutical, Agrochemicals, Food, Personal Care, Healthcare and Nutrition products and various other life science industries.

For the last four decades, Jubilant has mastered the art of making these products and continually work on multiple chemistry platforms to ensure that our global customers’ requirements are met.
Specialty Ingredients

The Specialty Ingredients business of Jubilant Ingrevia manufactures Pyridine, Picolines, Cyanopyridines and Piperidine. These are used as Specialty Ingredients/building blocks for the production of a range of agrochemicals, pharmaceuticals, dyes, solvents, metal finishes, fine chemicals etc.

Jubilant manufactures products via Biomass route, using agricultural feedstock, which gives it a benefit of lesser carbon footprint as compared to the conventional petroleum route. The products are trusted by more than 275 global pharmaceutical, agrochemical and other industrial customers who rely on Jubilant’s consistent quality and service.

Antimicrobials (antimicrobial for industrial and personal)

Jubilant has a range of safe and highly efficacious anti-microbial solutions for applications in Paints, Coatings, Industrial, Cosmetic and Personal Care industries. Range of Products includes Jubithione® (ZPT0, ZPT-40, ZPT Powder, CuPT, NaPT) Class of Pyrithiones, Cetyl Pyridinium Chloride, Per-Acetic Acid 15% & 35% solution.

In addition the Company has developed New Synergistic & Innovative Antidandruff Products like Jubithione® ZPC, Jubiquat™ CLC, Low Cost In Can & Dry film Preservation Solutions like Jubithione® ZBT, Jubithione® NBT, Boosted Preservation Solutions Jubigaurd® PHG and PCG, & Complete Oral Care solutions Jubiquat® CPL.

CDMO (Custom Development & Manufacturing Organisation-for Pharma & Agrochemical)

The business provides Custom Development and Manufacturing services for:

- Key Starting Materials and Regulatory Starting Materials
- Advanced Intermediates with final step in WHO and Third Party certified GMP Plant,
- Patented or Generic APIs under cGMP Guidelines.
- Large Volume Intermediates and Actives for Agrochemical companies
Vitamin B3 (Niacinamide and Niacin)
We have recently received World Health Organisation's (WHO) Good Manufacturing Practice (GMP) certification for our Vitamins facility which will help us increase our footprint in the premium food, personal care and other value added applications.

Our product quality and consistency have ensured a growing and dedicated customer base for us. We have competitive edge in the market from being able to control our own supply of major raw material Beta Picoline which is a precursor to Vitamin B3 and is manufactured by our Specialty Chemicals business.

Currently, our Niacinamide is being sold in more than 80 countries and we are confident of growing our business in the coming year.

Vitamin B4 (Choline Chloride)
Another key product in this segment is Vitamin B4 (Choline Chloride) for which we have the largest market share in India, catering to different applications like feed, food, pharmaceuticals, dye manufacturing and shale stabilisation. Vitamin B4 is manufactured in world-class glass line reactors with complete automated PLC systems with commitment to maintain high quality standards and compliance to regulations and good practice.

Animal Nutrition & Health Solutions
Through our Animal Nutrition & Health Solutions business we offer high quality Specialty Feed Supplements and Additives and Premixes in the category of Vitamin and Mineral Premixes, Betaine, Acidifier, Toxin Binders, Encapsulated products, Growth Promoters, Liver Nourishment Products and Emulsifiers to integrators, feed millers and commercial farmers across the globe. We cater to various segments of industry like poultry, dairy, aqua, swine and pet food.

Human Nutrition & Health Solutions
Jubilant through Human Nutrition & Health Solutions business is offering nutritional and functional ingredient solutions, and tailored premixes for use in food, nutrition and fortification markets. We are the right partner of choice for developing client’s business in today’s ever-conscious clean label market by providing natural, minimally processed and familiar ingredients.
LIFE SCIENCE
CHEMICALS

Jubilant Ingrevia manufactures a range of Life Science Chemicals which includes Acetyl Products, Ethanol & Specialty Gases and holds leadership positions in most of them.

BUSINESS EDGE

- The key product portfolio comprises of Ethyl Acetate, Acetic Anhydride, Acetic Acid, and Acetaldehyde.
- We have global scale capacity to produce Acetylts from agro-based feedstock including molasses and alcohol.
- Established sales and distribution network to cater the requirement across the globe.
- Ethanol produced is supplied to oil marketing companies for Ethanol Blending Programme (EBP) in India.

Life Science Ingredients

The business is globally No. 4 in merchant market sales of Acetic Anhydride and No. & in Ethyl Acetate. Life Science Ingredients find applications in diverse industries such as Pharmaceuticals, Crop Protection, Food & Beverages, Textiles, Packaging, Adhesives, Aromatics, etc.

Specialty Ethanol

Specialty Ethanol business manufactures Anhydrous Alcohol, CO2 and ETO mixtures. Specialty Ethanol is well synergised in the value chain and serves as a critical feedstock for the company to make value added end products and is produced by the biomass route of processing sugarcane molasses. The company has two state of the art production unit for specialty ethanol manufacturing in Gajraula (Uttar Pradesh) and Nira (Maharashtra). Specialty Ethanol produced is supplied to oil marketing companies for Ethanol Blending Programme (EBP) in India. Our Specialty Ethanol caters to specialised Pharmaceutical and Agrochemical end uses.

Propionic Anhydride

Jubilant is the largest producer of Propionic Anhydride in India. Propionic Anhydride is being used as an important building block for agrochemicals including herbicides like Clethodim. It also finds its usage in various Pharmaceuticals like antibiotics, antipyretics and topical dermatology. It is also used in polymers and reactive dyes.

Grades Available for Different Applications: Purity - 98.5% (minimum)
The facilities adhere to stringent safety and quality standards while following environmental friendly sustainable practices. Strategy of ‘Driving sustainable manufacturing in the dynamic business environment’ and ‘Zero tolerance to any non-compliance’ has been the core focus of Jubilant.

Following the approach of triple bottom line (Environment, Economic and Social) and adopting the same as a part of the overall Company strategy, Jubilant has marched ahead towards sustainability and has received approval for the coveted Responsible Care Logo usage for Corporate Office at Noida, Uttar Pradesh, India and plant at Gajraula, Uttar Pradesh, India. Dedicated EHS teams at the Corporate Office and manufacturing facilities effectively manage health, safety and the environmental aspects of the organisation. We maintain high and uniform quality standards across our facilities.

**INDIA**

**Gajraula, Uttar Pradesh**
Integrated facility for Speciality Chemicals & Life Science Chemicals

**Bharuch, Gujarat**
Speciality Chemicals, Nutrition & Health Ingredients & Life Science Chemicals facility located in the Special Economic Zone (SEZ)

**Nira, Maharashtra**
Life Science Chemicals

**Samlaya, Gujarat**
Animal Nutrition & Health Solutions

**Ambernath, Maharashtra**
Speciality Chemicals

Jubilant Ingrevia is supported by five state-of-the-art manufacturing facilities in India. We practice world class manufacturing concepts in our day to day operations assuring our customers with unmatched quality and timely delivery of products.
Our continuous emphasis on compliance to regulations, GMP (Good Manufacturing Practices) and continuous improvement are key drivers for ensuring consistent quality of products. Jubilant ensures compliance by continuous assessment and review of quality systems, and compliance with industry guidelines and regulatory standards.

Certifications:
- Responsible Care® 14001:2013 (RC 14001:2013) certified*
- Certified by Kosher (STAR-K KOSHER CERTIFICATION)
- ISO 22000:2005 (Food Safety System) certified
- ISO 9001:2015, ISO 14001:2015 (Quality & Environment System) certified
- ISO 50001:2011 certified
- BS OHSAS 18001:2007 (Occupational health Safety System) certified
- FAMI-QS Code Version 5.1 in Feed Safety Management System
- Halal-India, Halal-Malaysia, Halal Indonesia,
- Food Safety System Certification (FSSC) 22000 (Global Food Safety) Compliance
- Food Safety and Standards Authority of India (FSSAI)
- TS22002-01:2009 (Food Safety System Certification)
Our R&D centres conform to international standards and are well equipped with world-class infrastructure managed by best-in-class manpower. Each R&D centre has dedicated unit integrated with relevant business.

Our R&D performance hinges on the coherence and cohesiveness among our R&D centres where rapid exchange of knowledge takes place to keep pace with competition and to develop disruptive technologies for future. The R&D team focuses on process intensification, absorption of technologies and establishing technologies at commercial scale.

A dedicated team of scientists focuses on product/process development in the area of pyridine and its derivatives and related heterocyclic chemistry, development of advance heterogeneous catalysts, extension of chemistry skills to non-heterocyclic compounds, value creation in existing key products through process improvements/process intensification, chiral compounds, technology development of vitamins & especially B-3 and development of animal health care products. We have both developed intellectual property internally and acquired intellectual property through acquisitions. New products continue to get developed by experienced and talented R&D teams which work to deliver in line with the marketing strategy by developing new cost effective processes/products.

RESEARCH & DEVELOPMENT AND INTELLECTUAL PROPERTY

In Jubilant, a team of well qualified and experienced professionals in R&D centres spread across multiple locations are specialised across the value chain of chemical research, chemistry/process development of advance intermediates, fine chemicals and contract research.

Team of over 100 Scientists
Knowledge driven operations; Providing innovative products and economically efficient solutions
Proven expertise in complex chemical/engineering technologies viz. heterogenous technologies, chiral chemistry, vapour phase technologies and polystate science
Advanced in-house capabilities in modern analytical instruments leads to expedited customer support
Continued efforts to minimise time to commercialisation of newer technologies/products

R&D locations
Gajraula, Uttar Pradesh, India
Noida, Uttar Pradesh, India
The continual efforts of Business Excellence function is to understand processes and systems, model them by transfer functions, and define crucial measurements which result in a superior co-ordination and integration of processes, learning and reconfiguration and transfiguration which become sources of competitive advantage and can be effectively used to leverage Company’s competitive strategy.

**Highlights:**

- Initiatives cover all facets of the business including Manufacturing, Sales and Marketing, New Product Introduction (R&D), Supply Chain, Corporate HR, Projects and other support functions which help in creating a more efficient value chain through Six Sigma, Lean, Design for Six Sigma, World Class Manufacturing, Total Productivity Management (TPM), Project Management, Operation Research and Business Intelligence.

- Dynamic and Steady State Process Simulation Modeling for enhancing efficiencies of chemical processes using tools like ASPEN, DYNOCHEM and other 3D printing technologies, leading to cost savings.

- Capacity debottlenecking and OPE Improvement across all sites for all major products through application of Lean Six Sigma tools thereby improving the ROCE.

- Energy savings and conservation initiatives across all sites and focussing on increasing renewable energy usage and reduction of carbon footprints.

- EBIDTA improvement initiatives across all businesses by following best in class Lean manufacturing, Lean business and Lean Supply Chain practices.

- Manpower productivity enhancement through Mechanisation and Automation and other Process Intensification initiatives.

- Digitalisation initiatives for improved visualisation, analytics and effective decision making, in all business functions.

- Competence development across organisation by certification of Black belts, Green Belts and Yellow belts for effective Lean six sigma deployment.

- Culture building for continual deployment of Pokayoke systems and processes, TPM philosophies and 5-S and moving towards a Visual factory.

**BUSINESS EXCELLENCE**

Business Excellence continuously strives to build a culture of Excellence in Jubilant by seeking to enhance the organisation’s people, processes and system capabilities. Deployment of latest transformational methodologies drives the competitive advantage, backed by strong execution mechanism and capabilities.
Jubilant strives to play an integral role in all geographies where we operate. The guiding principles for our supply chain have been set under our Green Supply Chain Policy. To fulfil our green supply chain commitments, the evaluation criteria cover clauses on compliance to EHS, human rights and social requirements relevant laws of the land.

**Highlights:**

- **Jubilant emphasises and invests in Life Cycle Management (LCM) of all its products consistently to be a reliable and a sustainable supplier meeting global quality standards.**

- **Many green supply chain initiatives are taken like disposing of solid waste and spent solvents to cement industry thereby reducing burden on land filling. Usage of Bio-diesel as a boiler fuel. Power trading through Indian Energy Exchange (IEX) to be efficient.**

- **Partners in progress meet to collectively innovate & optimise a sustainable value chain.**

- **Paperless Sourcing: Jubilant uses an e-procurement tool that enables paperless buying. It ensures greater efficiency and transparency in procurement process and information flow by use of tools like reverse auction.**

- **Supplier Audits are conducted annually to cover critical vendors at least once in three years. It include performance assessment against parameters such as environment, labour practice, human rights and social impact.**

- **Local Sourcing: Jubilant sources its material, machinery, spares stores etc. from across the globe without compromising on quality and value. Preference is given to local suppliers if they satisfy the requisite specifications.**

- **Training Programs: Road safety during transportation of its products and raw materials is of prime concern to us. In order to improve transporter safety, ‘Behavioural Safety Training with focus on defensive driving’ is imparted to transport service providers.**

- **All domestic tanker movement are tracked through GPS for safety & timely delivery, going forward all export shipments will also be tracked online to ensure timely delivery to customers.**

**SUPPLY CHAIN**

The goal of Supply Chain Management (SCM) at Jubilant is to provide a substantial and sustainable value contribution to its customers for the success of our businesses.

- **Customer delight through effective and efficient logistics and supply chain management.**

- **Low cost, multi-location & vertically integrated sustainable supplier base.**
SUSTAINABILITY

Jubilant’s Promise of Caring, Sharing, Growing finds life in each of the many sustainability endeavors of the Company. Jubilant follows Triple Bottom Line (TBL) approach towards sustainability and is reporting sustainability performance of the Company following Global Reporting Initiative (GRI) Guidelines since 2003.

Jubilant is signatory to United Nations Global Compact (UNGC) principles. Jubilant is also a GRI Gold Community member and a member of GRI South Asian consortium in chemical sector.

The Company through stakeholder engagement identified focus areas and set Sustainability Targets 2020 on environment, safety and community services.

Climate Change

- Jubilant is aware about business implications and responsibilities arising out of Climate Change across the globe. In response, the Company has adopted Climate Change Mitigation Policy which aims to reduce its climate change impact through reduced carbon footprint.
- Jubilant participates in Carbon Disclosure Project (CDP) to publicly demonstrate its Greenhouse Gas emission performance and commitments.

- The Company uses renewable energy sources like solar, biogas, bio-mass etc. in its energy mix to reduce company’s carbon footprint.
- The Company conducted life cycle based Carbon footprint studies of key products twice in the past.

Environment, Health and Safety (EHS)

- The Company’s approach towards best-in-class EHS standards is articulated in the EHS Policy.
- Dedicated EHS teams at manufacturing facilities & corporate office effectively manage the EHS performance of the Company.
- Safety culture in terms of safe behavior is being aggressively promoted and propagated at workplace.
- All manufacturing facilities are ISO 14001 and OHSAS 18001 certified. The Company is signatory to Responsible Care and our largest plant in Gajraula & the corporate office are RC 14001 certified. All LSI plants in India has received Responsible Care logo from Indian Chemical Council (ICC).

Customer Health and Safety

- Strong team involving R&D, QA, QC, sales and marketing to take care of product safety
- Compliance to national and international product safety related guidelines and standards like REACH, GHS, FAMI-QS, FSSC 22000:2012. Relevant facilities have also taken FSSAI (Food Safety and Standards Authority of India) license from respective authorities.
- To bring in customers confidence on Jubilant’s EHS & Sustainability performance, the Company allows EcoVadis, a third party deputed by global Chemical business conglomerates, to assess Jubilant’s sustainability performance every year. During FY 2018, the Company was assessed under Gold category and rated under top 5% company’s assessed by EcoVadis globally.

Corporate Social Responsibility (CSR)

- Jubilant’s CSR initiatives thrust on creating value in the lives of the communities around the area of operations of the Company
- Jubilant CSR initiatives are focused in the realm of Education, Health, Livelihood and Social Entrepreneurship
- Key CSR activities includes skill development programs, computer literacy projects via mobile bus, enhancing quality of education, mobile based biometric system for health monitoring of select children, women empowerment, partnership with development organizations etc.
- Jubilant is aligning its sustainability efforts along with UN SDGs (Sustainable Development Goals) and refer these SDGs while planning/adopting any new / existing community development projects.
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