



“ Making the Right
Chemistry Happen. ”

Expertise in Hazardous Chemistry

Elppe, over the past 22 years has carved a niche for itself in the chemical industry handling range of projects involving hazardous reactions to chiral chemistry - synthesizing key basic intermediates to challenging advanced molecules required for manufacturing high quality chemicals for the pharmaceutical, polymer and speciality chemicals.

At Elppe, we consider all our stakeholders as partners with whom we build long-term relations.



Core Values

Process First

We are committed to consistently deliver quality and achieve reduce testing for all our products and processes by continuously improving.

Safety by Design

All our activities and processes will be designed to ensure minimizing human interface and maximizing safety to exacting global standards.

An Equal World

We strive for respect of every individual and their opinions, treating everyone on an equal platform based on trust and transparency.

Enduring Partnerships

Everything we endeavour for, shall be with a perspective of building a long-term relationship.

Certifications

Elppe is an ISO 9001-2000 & 14000, OSHAS 18000 Company with SGS as the certifying body.
The site is GMP certified by local GMP authorities.



Product Development

An extensive experience of chemical manufacturing and handling various chemicals transformations at various stages has helped develop the expertise required to effectively set-up processes and manufacture new products exacting customer needs.

We have a wide range of flexible plant and equipment, that can be configured to manufacture different products. Our experience in designing and scaling up of chemical processes enables us to take new developments from the laboratory to the pilot plant and on to full scale production, thus making Elpepe a valuable partner for developing new products.

Process Development

Our experience in process development help us successfully find solutions to various challenges such as - developing highly efficient synthesis in terms of raw material, energy consumption, maintaining consistent quality with highest level of purity and minimalising environmental impact.

In-house engineering team in collaboration with

chemical development department helps to configure equipment quickly to convert lab process to a full scale production level. A product specific reactor, product isolation units to dryer to pulverizer can be quickly developed with in-house skills.

Contract Manufacturing

Elpepe offers efficient services to manufacture fine chemicals, intermediates to various industrial segments. A flexible production facility with a range of reactors & downstream equipment help processes received under secrecy agreement to be quickly validated in laboratory, pilot plant and scaled-up to production level. The manufacturing set-up is backed-up with a state of art raw material, finished product stores & bulk liquid storage facility.

Elpepe has excellent track record of timely completion of contract manufacturing opportunities for various customers across the globe. Elpepe provides dedicated as well as campaign based facilities to number of customers depending on the volume of the business - ranging from few kilos to hundreds of tons.



Technologies

Elppe's array of specialized techniques and processes demonstrates its expertise in managing a wide range of reactions. Although by no means comprehensive, the examples below illustrates our bandwidth on a commercial scale.

Reaction	Lab Scale	Pilot Scale	Plant Scale
Acetal formation	✓	✓	✓
Alkyl Chloride formation	✓	✓	✓
Alkali fusion	✓	✓	✓
Acyl Chloride formation	✓	✓	✓
Amidation	✓	✓	✓
O,N-Acylation	✓	✓	✓
Benzoylation, Mesylation	✓	✓	✓
Beckmann rearrangement	✓	✓	✓
Catalytic reduction using NABH ₄ , LAH	✓	✓	✓
Chiral recations	✓	✓	✓
Chlorination of active aromatics	✓	✓	✓
Chlorosulfonation	✓	✓	✓
Diazodization & recation based on Diazonium Salt	✓	✓	✓
Dehydration of Amides to Nitriles	✓	✓	✓
Epoxidation	✓	✓	✓
Esterification	✓	✓	✓
Fridel craft reaction	✓	✓	✓
Hydrolysis partial Hydrolysis	✓	✓	✓
Michael addition	✓	✓	✓
Nitration using fuming Nitric Acid & other nitrating agents	✓	✓	✓
Sulfonation - handling of Oleum	✓	✓	✓
Trans esterifucation	✓	✓	✓
Vilesmeir Hacck reaction	✓	✓	✓
Wolf Kishnner reduction	✓	✓	✓



CRAMS

Over last 5-6 years we have successfully developed CRAMS activity for our customers in Europe, USA & India.

Our capability of handling different chemical reactions, experienced manpower and excellent infrastructure in the field of "Synthetic Chemistry" gives us the edge required for successfully executing projects undertaken for CRAMS.

We support customers speedup their projects by way

of developing molecules needed at the start of a project till the complete cycle of commercialization. Quantities can range from few grams to few kilos to tons.

We have synthesized various molecules / intermediates involving range of chemical reactions for customers across different industrial segments. The level of Service offered through the decades have been well appreciated by several of our international customers.



Manufacturing Set-up

Manufacturing Hardware

Elppe now has five workshops spread over 24,000 Sq. Mt. The summary of production units is as follows:

Kilo Lab facility & Pilot Plant

- With reactor capacities ranging from 50 to 200L
 - Autoclave capacity from 5L
 - With various types of agitators with variable frequency drives
 - Solid liquid separation with centrifuge
 - Zero hold up filter
 - Drying
 - Fluidised bed dryer of 5 kg/hr
 - Vacuum tray dryer
 - Kilo Lab facility & Plant
 - Product lines
- Solid liquid separation by
 - Bag lifting centrifuge
 - Agitated Nutche Filters and Dryers with various MOC's like Hastelloy & Stainless Steel of different grades
 - Peeler centrifuge
 - Inverted bag centrifuge
 - Bottom discharge centrifuge
 - Fully enclosed systems for solids handling (Powder Transfer Systems)
 - Critical process parameters controlled by PLC based process control system
 - Drying
 - Rotacone vacuum drier
 - Rotary vacuum dryer
 - Spin flash dryer
 - Fluidized bed dryer
- #### Five Production Lines
- Over 160,000L production capacity in flexible arrays of glass lined (80 KL) and stainless steel reactors (80 KL) - 1000L to 6300L vessel capacities
 - 2000L hydrogenation 10bar 130°C being installed

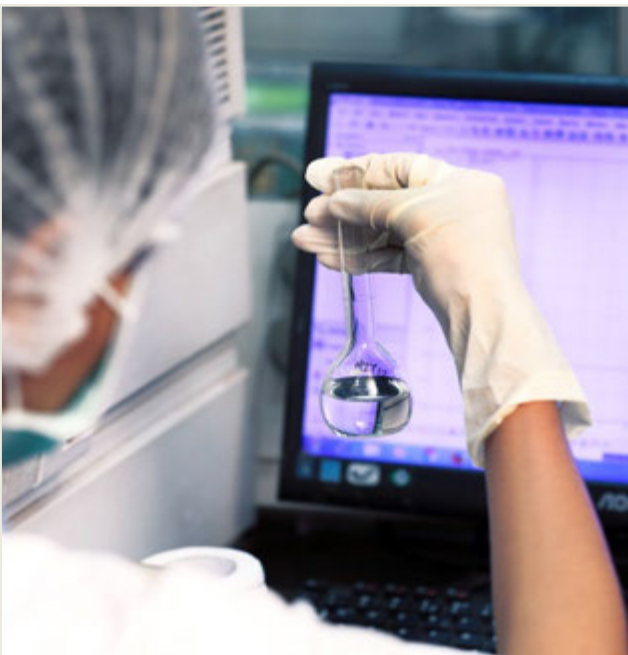


Utilities

- Vacuum to <2mbar
- Units are linked with scrubbers for treating gaseous emissions out of reactions
- Water purification systems for process water meeting pharmacopeial requirements
- AHU's and QHVSE for powder processing area
- Chilling water system
- In-house steam generation unit

Warehousing

- We have a modern on-site warehousing facility admeasuring 600 Sq. Mt.
- Separate finished goods storage area
- Underground storage tanks for solvents approved as per Explosive Act
- Bulk storage tanks for hazardous chemicals like:
 - Fuming nitric acid
 - Oleum
 - Thionyl chloride
 - Sulphuric acid
 - Liquor ammonia
 - Caustic lye



Making Chemistry Happen - Globally

Over the last two decades we have successfully built partnerships across the globe.



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