

ENGINEERING CERTAINTY IN COMPLEX CHEMISTRY

DISCOVERY | PROCESS R&D | CDMO | CUSTOM SYNTHESIS

From route scouting to commercial-scale manufacturing.

INA Pharmaceuticals is an India-based CDMO partner supporting innovator and generic pharmaceutical companies.

DEFINE. DESIGN. DELIVER.



HYDERABAD,
INDIA
EST. 2018



GMP
COMPLIANT



ISO
CERTIFIED



DNV CERTIFIED
SUSTAINABLE
SUPPLY CHAIN
PARTNER

**Flexible
Capabilities.**

Across Every
Phase of the
Drug Lifecycle.



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THE INA STORY

Innovation. Chemistry. Impact.

At INA Pharmaceuticals, we partner with global innovator and generic pharmaceutical companies to transform complex chemistry into high-value solutions.



CAPABILITIES & STRENGTHS

- Synthesis and development across the entire drug discovery continuum – Phase I, II, III, NCEs and novel molecules
- Deep expertise in complex organic synthesis, route innovation and process optimization
- Currently serving leading CRO/CDMO organizations worldwide



PRODUCT SEGMENTS (FOCUS AREAS)

- | | |
|--|--------------------|
| • Specialty Chemicals | • Peptides |
| • Fine Chemicals | • Peptoids |
| • Aromatic & Hetero-aromatic Compounds | • Prostaglandins |
| • Peptide Coupling Agents | • Phosphoramides |
| • Chiral Compounds | • Oligonucleotides |
| | • Carbohydrates |



ADDITIONAL CAPABILITIES

- Hastelloy flow chemistry capabilities for safer, more efficient and sustainable processes



Advanced R&D Infrastructure



Hastelloy Flow Chemistry Setup

OUR APPROACH – DEFINE. DESIGN. DELIVER.



DEFINE

We understand complex challenges and define the right scientific approach.



DESIGN

We design innovative, scalable and robust processes.



DELIVER

We deliver high-quality solutions from discovery to commercial manufacturing.



DISCOVER

Understand the challenge



DEVELOP

Design and develop robust processes



OPTIMIZE

Optimize for safety, yield and purity



SCALE-UP

Scale with confidence and consistency



MANUFACTURE

Deliver quality at commercial scale



With a strong foundation in science and a commitment to excellence, INA Pharmaceuticals is your trusted partner in bringing tomorrow's therapies to life.



TRUST



QUALITY



COLLABORATION



INNOVATION

INA AT A GLANCE

Advanced Infrastructure. Scalable Capabilities. Trusted Partner.

With deep scientific expertise, advanced infrastructure and end-to-end development capabilities, we enable our partners to accelerate innovation and bring complex molecules to life.

R&D INFRASTRUCTURE & SCALE



State-of-the-Art R&D

Well-equipped R&D laboratories with advanced instruments to support innovative research



1.5 KL Kilo Lab

Kilo-scale research and development capabilities



20 KL Pilot Plant

Bridging R&D to commercial with robust process validation and technology transfer.



Scale-Up & Manufacturing

Seamless scale-up from Kilo Lab to commercial manufacturing with robust process development



ONE PLATFORM FOR COMPLEX PROCESS CHALLENGES

Integrated R&D, process engineering and manufacturing support for difficult-to-manufacture molecules.



COMPLEX CHEMISTRY

Grignard chemistry, high-pressure catalytic hydrogenation, nitration, cryogenic chemistry, halogenation, multi-step synthesis



SCALE-UP & MANUFACTURING

- Laboratory → Kilo Lab → Pilot → Commercial
- Technology transfer
- Process validation support



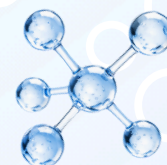
PROCESS DEVELOPMENT

- Route scouting
- Non-infringing route design
- Reaction optimization
- Impurity control
- Isolation & crystallization
- High-volume column purification



QUALITY CONTROL

- Advanced QC support
- Impurity profiling
- Process monitoring
- Data-driven control strategies



With a strong foundation in science, deep chemistry expertise and world-class infrastructure, INA Pharmaceuticals is a trusted partner for solving complex challenges and delivering innovative solutions that accelerate your success.

Partnering Innovation. Delivering Impact.

Deep expertise across complex chemistry and process development enabling safer, cleaner and scalable outcomes.

TECHNICAL CAPABILITIES & USE CASES

Difficult Hydrogenation

High-pressure catalytic hydrogenation & catalyst optimization

Grignard Scale-Up

Safe generation, handling & scale-up of Grignard chemistry

Cryogenic Reaction Scale-Up

Controlled low-temperature chemistry & thermal management

Nitrosamine Control

Risk assessment, prevention, analytical detection & lifecycle monitoring

Process Impurity Control

Impurity identification, mapping & purge strategy

Process Safety Improvement

Hazard assessment, operating windows & safe scale-up

Advanced Flow Chemistry

High-temperature/high-pressure continuous processing for nitration, reduction & debenzoylation

Pd-Coupling Optimization

C-C & C-N coupling with catalyst and process optimization

Route Optimization

Scalable, economical & supply-ready manufacturing routes

Chiral Synthesis & Stereochemical Control

Asymmetric synthesis, chiral resolution and stereoselective catalysis for single-enantiomer APIs and complex stereocenters.

Rapid Scale-Up for Clinical Supply

Fast, robust tech transfer from gram-to-kilo scale to support IND-enabling and early-phase (Phase I/II) GMP batches on compressed timelines.



CONTACT

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Thank you for considering INA Pharmaceuticals Pvt. Ltd.
Let's build a healthier tomorrow, together.