



**TYCHE INDUSTRIES LIMITED**

USFDA, EUGMP, PMDA-Japan & WHO-GMP Certified Company



Poised to take  
on the  
globe



TYKHE (Tyche) was the goddess of fortune, chance, providence and fate.



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**Tyche Industries Limited (TIL)** was founded in the year 2002, and has since evolved into a force to be reckoned with. Today TIL has established itself as a reliable manufacturer of active pharmaceutical ingredients, intermediates and nutraceuticals driven by efficient R&D and manufacturing team dedicated to a common cause – to take the company to new heights of excellence.





## MISSION

To consistently maintain high standards in developing and manufacturing active pharmaceutical ingredients, intermediates and nutraceuticals for sustainable growth.



## VISION

To become one of the leading global manufacturers in the field by 2020.

## Quality Policy

To maintain good manufacturing standards and inculcate an awareness of GMP practices among all employees.





## CORE VALUES

### INNOVATION

Always keeping abreast of new technology and incorporating new ideas and techniques into our manufacturing process.

### RELIABILITY

Ensuring that each product that goes out has the Tyche stamp of quality and trust.

### INTEGRITY

Never compromising on quality and executing each task with honesty and dedication

### COMMITMENT

Single minded focus on the job at hand and complete loyalty to the objectives of the Company

### TEAM WORK

Always thinking of our team as one single entity with one common thought, one common vision and one common goal



## A Company that has made giant strides

TIL was established in 2002 – a full fledged manufacturing facility producing APIs and Intermediates supported with a world class R&D centre in Kakinada. TIL has one manufacturing site located at Kakinada, supported by 7 multipurpose production blocks for APIs and Intermediates with a reactor volume of 156,000 liters. The manufacturing facility also has multiple clean rooms and is a cGMP compliant facility.

### GMP Status

- USFDA
- EUGMP
- PMDA- Japan
- WHO-GMP
- Written Confirmation

### Business Segments

Active Pharmaceutical Ingredients

Intermediates

Nutraceuticals

Contract Manufacturing Services

- APIs and Intermediates for research based pharmaceutical companies
- Contract manufacturing support for NCEs (Integrated product development and commercial scale up) Expertise in technology transfer







## RESEARCH AND DEVELOPMENT

Tyche Industries strongly believes in the importance of research and development. The Company has a strong R&D unit that is fully focused in developing innovative and cost effective processes for active pharmaceutical ingredients, intermediates and nutraceuticals.

The R&D centre is located at Kakinada, India and is reinforced by an experience team of PhDs and Masters in Chemistry. The team has filed 5 process patents and submitted 10 research publications.

The chemical development lab at TIL supports Route development, IP Evaluation, Synthesis, Structure Elucidation, Characterisation of impurities and Polymorphic studies as well as HAZOP study of the process during development. The R&D facilities are supported by a well equipped Kilo Plant & Pilot Plant.

### Manufacturing Facilities

**Tyche Industries Limited,  
Kakinada, AP**

- Total area 21.5 acres
- Total 7 production blocks
  - ◆ Three API blocks large volume
  - ◆ One Pilot Plant
  - ◆ One Kilo Plant
  - ◆ One intermediate block
  - ◆ One hydrogenation block

### Major Equipment

- Glass lined reactors 250 liters to 4000 liters
- Stainless reactors 250 liters to 6000 liters
- SS Hydrogenator. 6Kl, with pressures up to 10Kg/cm<sup>2</sup>
- Distillation columns
- Centrifuges (SS)
- Rotary Vacuum Dryers
- Vacuum Tray Dryers, Fluid bed Dryers, Blenders, Sifters, Hammer Mills, Microniser
- Rotary Drier

### Utilities

- Steam Boilers ( 5Mt/hr )
- Generators for 100% power backup
- Purified Water Plant
- Chilling Plants at -5°C, -15°C, -30°C

### Our Analytical Capabilities include

- Method Development and Validation
- Cleaning methods Validation
- Impurity Profiling
- Chiral Analysis
- Residual Solvents
- Stability Studies





## TECHNICAL STRENGTHS

- Chiral synthesis
- Optical resolution
- Catalytic hydrogenation
- Cyanation
- Nitration
- High temperature reactions
- Grignard's Reaction
- Friedel–Crafts Reactions
- n-Butyllithium Reactions
- Cryogenic Reactions



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# EHS

At Tyche we adopt green practices at each and every level of product manufacture. To enable us to fulfill our commitment to environment health and safety norms, our infrastructure policy incorporates:

- Lush green areas
- Multiple Effect Evaporation System (MEE)
- Reverse osmosis plant
- Elevated sludge drying beds

As part of our EHS Policy we ensure

- Waste water collection, treatment and use
- Segregation of hazardous and non hazardous waste
- Emission control
- Recovery & recycling of solvents
- Periodic environment impact assessment
- Health Check Up of employees every one year



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#### Registered Office

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#### Manufacturing Facility

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