

CHEMICALS

# Thermax Chemicals

Enhancing Process Efficiency And  
Profitability Across Applications

# Our Vision

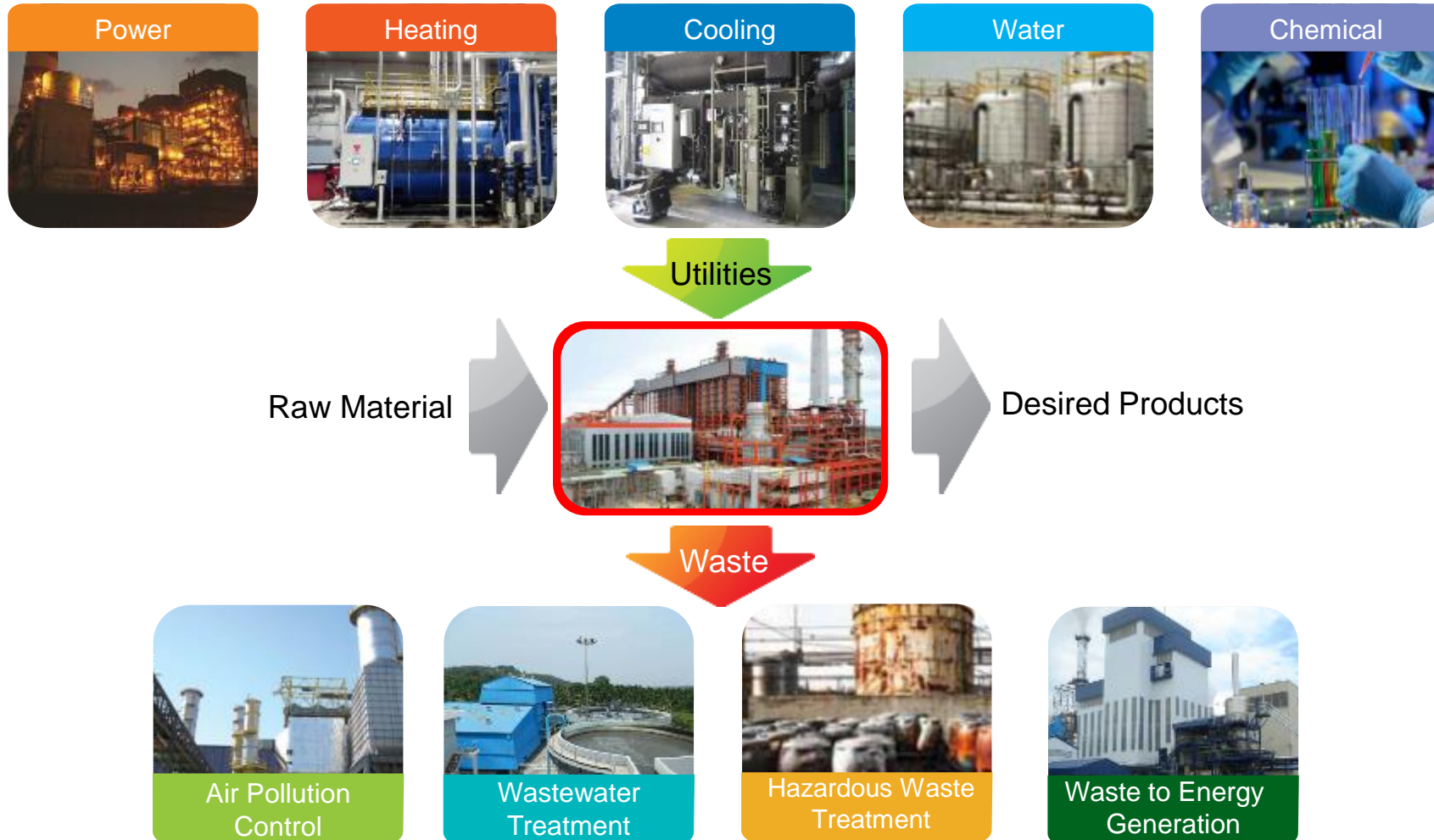
To be a globally respected high performance organisation offering sustainable solutions in energy and the environment



# Thermax at a Glance



# Thermax Portfolio



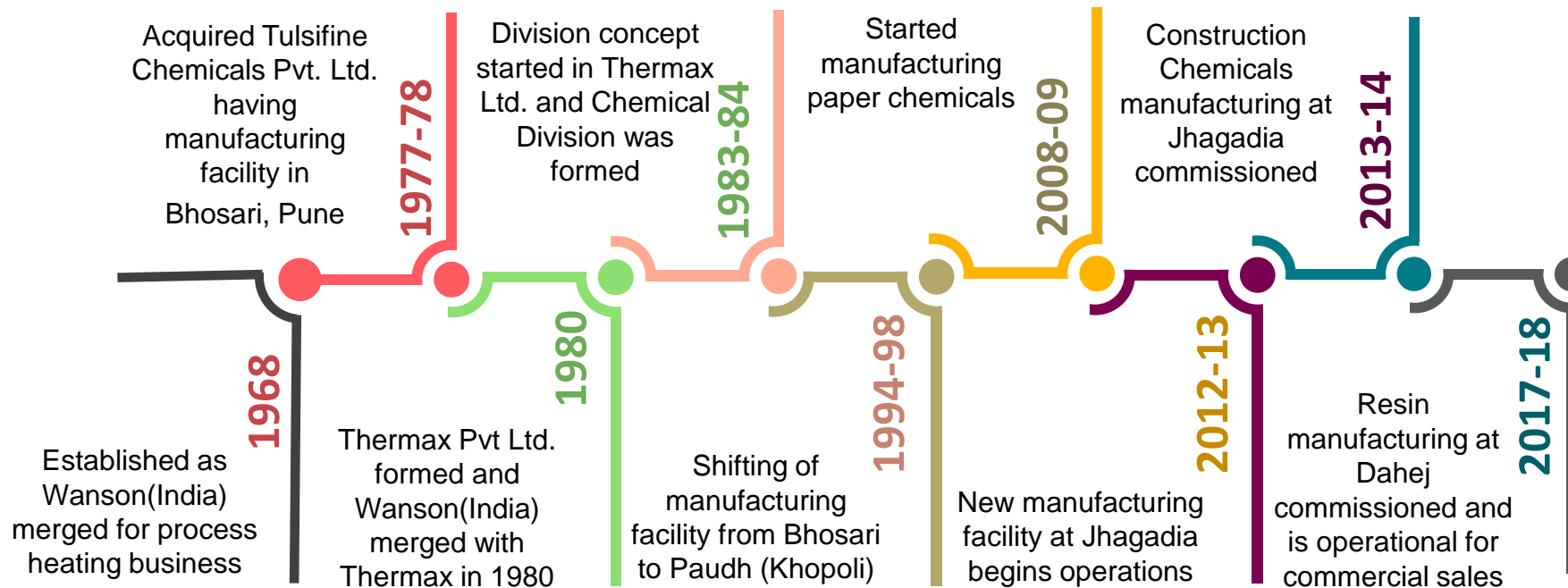


# Thermax Chemical Division

“A global entity into manufacturing and application of specialty chemicals which improve customer’s process and product performance.”



# Milestones: 40+ Years Of Enriched Experience



# Why Thermax Chemicals?

## Solution Provider

- We are one-stop solution for all your water treatment and construction needs

## Strong Crew

- We have a strong dedicated workforce of around 250 professionals

## Best-in Class Manufacturing

- Products manufactured from 3 world class manufacturing units

## Global Reach

- Backed by a strong dealer network, we serve customers across the globe

## Wide Product Range

- A range of 4 product lines for specialty chemical needs

## Export-Oriented

- More than 60% of our revenue is generated from exports

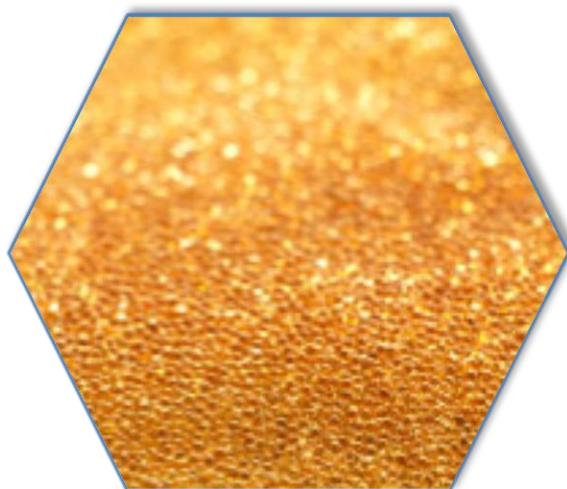
## In-house R&D

- Well-maintained standardized laboratories with experienced professionals and modern instruments

## Customized Offerings

- Providing solutions to the customers as per their requirements

# Our Product Offerings



**Ion Exchange  
Resins**



**Performance  
Chemicals**



**Construction  
Chemicals**

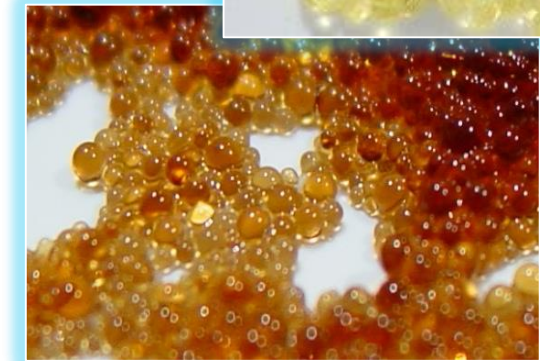


**Oil Field  
Chemicals**



# Ion Exchange Resins

- Thermax is the largest manufacturer of Ion Exchange Resins in India & Market Leader in India with 35% market share
- 70% of production being exported to USA, Europe , Japan, China, Taiwan, South Africa , Middle East, CIS & SEA
- Wide Range of Resins for Water based applications & Specialty Resins



# Resin Manufacturing Facilities



**Dahej, Gujarat, India**

- Located in Special Economic Zone
- Spread over 60000 m<sup>2</sup> area
- Capacity:
  - 12000 m<sup>3</sup> per annum (Phase I)
  - 22000 m<sup>3</sup> per annum (Phase II)
- Fully Automated Plant with DCS



**Paudh, Maharashtra, India**

- Located near JNPT Sea Port
- Spread over 202350 m<sup>2</sup> area
- Capacity: 11,000 m<sup>3</sup> per annum
- High End Instrumentation for Process Safety
- Use of Modern Warehouse Technologies

# Types of Resins

**Cation Resins:** Strong Acid Cation, Weak Acid Cation (Gel and Macroporus Type)

**Anion Resins:** Strong Base Anion, Weak Base Anion (Gel and Macroporus Type)

**Chelating Resins:** Macroporus Type

**Adsorbent Resins:** Adsorbent with Styrene and Acrylic Matrix

**Copolymer Beads:** Customised DVB Cross Linking

**Amphoteric Resins:** Combining Two Cationic and Anionic Functionality

**Merrifield Resins:** With Customised Chloride Loading

**Fine Mesh Cation and Anion Resins:** With PSD 50-100, ASTM Mesh 100-200

# GAMUT OF PRODUCT APPLICATIONS

# Standard Water Applications

## Softening

(For industrial and drinking water)

## De-mineralization

## Nitrate removal

(For drinking water)

## Mixed bed polishing

## Advantages

- Excellent operating capacity
- High physical & osmotic stability
- Ready to use MB resins
- Nitrate selective resin

**Products : Tulsion T- 42 Na, Tulsion A-23, Tulsion MB -115, Tulsion T- 42 Na N, Tulsion A-62 MP N**



# Standard Water Applications

Arsenic Removal

PFAS and PFOS removal

Lead and Cadmium removal

## Advantages

- Excellent operating capacity
- High physical & osmotic stability
- Ready to use MB resins
- Nitrate selective resin

**Products : Tulsion T- 42 Na, Tulsion A-23, Tulsion MB -115, Tulsion T- 42 Na N, Tulsion A-62 MP N**

# Wastewater Treatment

Fluoride removal

Iron removal

## Advantages

- Excellent selectivity
- Robust polymer matrix
- Excellent catalytic properties

**Products : Tulsion CH-87, Tulsion RCX- 5143, Tulsion T- IRR**

# Chlor-Alkali Industry

Brine de-calcification

## Advantages

- Excellent physical stability
- Highly resistant to osmotic shock
- High selectivity

**Products : Tulsion CH- 90, Tulsion CH -93**

# Sugar Refining Applications

Cane sugar de-colorization

Beet sugar de-calcification

Liquid glucose de-ashing

## Advantages

- Exceptional physical & chemical stability
- Suited for wide range of pH & temperature
- High operating capacity & low rinse requirement

**Products : Tulsion A - 722 MP, Tulsion A – 30 MP , Tulsion T-4213 MP Na FG, Tulsion T-42 Na FG, Tulsion A-2X MP R FG**

# Electroplating Industry

Chromium recovery

Heavy metal recovery

Mercury recovery

## Advantages

- Stability in wide pH range
- High selectivity
- Removal of transition metals

**Products : Tulsion CH -97, Tulsion CXO - 9, Tulsion CH-90**



# Semiconductor & Electronics Industry

High purity water

Ultra-pure water

Metal recovery

## Advantages

- Non-solvent grades
- Minimum level of non-ionic impurities
- Maximum removal of sensitive ions

**Products : Tulsion MB 115, Tulsion MB – 1518, Tulsion MB 1160 UP UPS**

# Our Services

We have a dedicated team of 'Product Management Group' that offers following services to enhance the product performance-

- Extensive technical support on product customization and application data generation
- Experienced technical support for performance evaluation and optimization
- Audits for de-mineralization plant operation
- Training and startup services
- Periodic resin testing for diagnosing process problems
- Resin cleaning and reconditioning services
- Resin plant commissioning and troubleshooting services

# Standardizations and Certifications

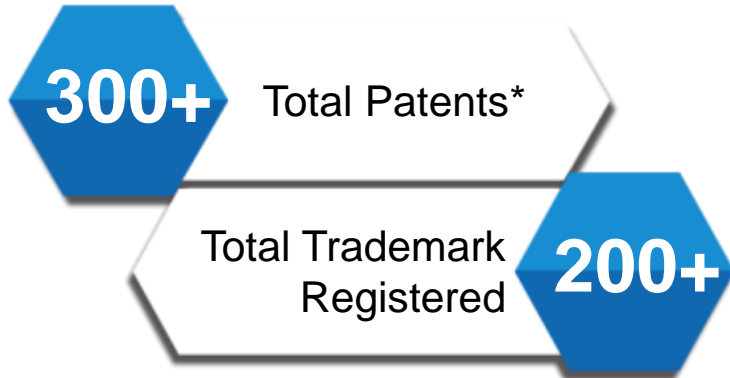
Thermax Chemicals is committed to stringent quality standards and respects the environment.

We have the following standardizations:

- ISO 9001 : 2015
- ISO 14001 : 2015
- ISO 45001 : 2018



# Research and Development



## A Research, Technology & Innovation Centre with Centers of Excellence to add value

- Our R&D facility is located at Bhosari
- Well-maintained standardized laboratories for its Research and Development



\*Including filed patents

# State of the Art Lab Facilities

- Well-maintained standardized laboratories for its Research, Development and Quality Control purposes
- Our R&D facility is located at Bhosari, Pune while we have QA facilities at all our manufacturing sites
- Ensuring finest quality products with experienced professionals and modern instruments





# Sectors Catered



Automobiles



Cement



Chemicals &  
Fertilizers



Distilleries



Edible Oil



Refineries &  
Petrochemicals



Food &  
Beverages



Pharmaceuticals



Sugar



Oil & Gas



Steel



Paint



Textile



Chlor-Alkali  
Industry



Power  
Generation

# GLOBAL PRESENCE

80

Countries

3

Manufacturing  
Facilities

## Customer Reach



# SUSTAINING OUR VALUES



Respect



Commitment



Honesty and  
Integrity



Concern for Society  
and the Environment

# Contact Us

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