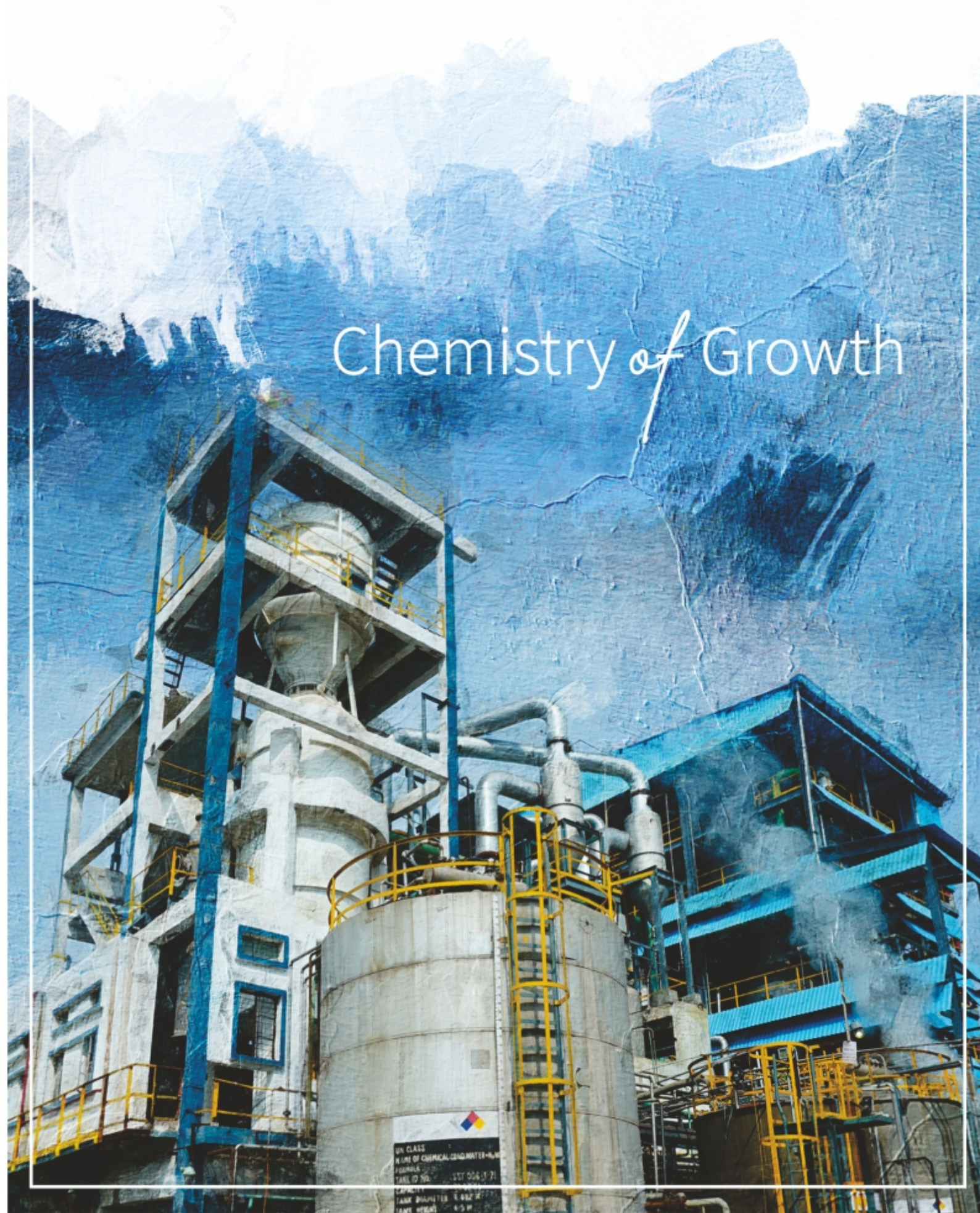


Early Adopter of  
आत्मनिर्भर भारत

celebrating  
50  
Years

DEEPAK  
RESPONSIBLE  
CHEMISTRY

# Chemistry of Growth



UN CLASS  
NAME OF CHEMICAL ENGINEER-PLANT  
FORMULA  
TANK ID NO. 337 004 3 71  
CAPACITY  
TANK DIAMETER 6.882 M  
TANK HEIGHT 4.5 M



## ■ ROBUST RESEARCH & DEVELOPMENT

Science with Conscience Through 'Responsible Chemistry'

At Deepak Nitrite Limited, innovativeness is one of the key growth drivers. This excellence is fueled by our intellectually strong Research & Development wing- Deepak Research and Development Center (DRDC).

The advanced R&D facility enables us to develop innovative intermediates, positioning us as 'Responsible Manufacturer'. It drives our portfolio expansion with a time-bound product development and scale-up process. Its state-of-the-art pilot facility acts as a bridge between R&D trials and commercial production, allowing us to deliver quality product seamlessly.

For five decades, Deepak Nitrite has made investment in strengthening the research division to maintain its position in the market as 'Depend on Deepak' brand. As a company, we strongly believe in building novel chemistry through innovation, process improvement and utility reduction and value from waste.

## ■ APPLICATION DIVERSITY



Agrochemicals



Detergents



Hair Dyes



Pharmaceuticals



Dyes & Pigments



Paper



Textile



Personal Care



Fuel Additives



Rubber



Industrial Explosive



Glass

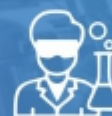
## DEEPAK RESEARCH AND DEVELOPMENT CENTRE



Dedicated centralised facility at  
**Vadodara**  
Gujarat, India



Recognised by Department of  
**Scientific &**  
**Industrial Research,**  
Govt. of India



Strong team of  
≈ **50**  
Scientist

# ■ COMPETENCY & TECHNOLOGY AT DEEPAK RESEARCH & DEVELOPMENT CENTER (DRDC)

## PROCESS ENGINEERING EQUIPMENT

- Multipurpose Miniplant Skids with PLC SCADA Control and Dedicated Single Fluid Temperature Control Units (TCU)
- Kilo Lab Scale ANF (3L) and PNF (1-3L)
- High Pressure Catalytic Packed Bed Reactor
- Agitated Thin Film Evaporator (ATFE)
- Wiped Film Evaporator (WFE)
- Rotary Cone Vacuum Dryer (RCVD)
- Automated Distillation Unit (Pilodist)
- Vapour Liquid Equilibrium Unit (Pilodist)
- High Pressure Dosing Pumps
- CSTRs and PFRs of Different Sizes
- High Pressure Oxidation in Batch/Continuous Mode
- Hastelloy Reactors for Fluorination Chemistry
- Mass Flow Meters and Controllers

## PROCESS SAFETY EQUIPMENT

- Differential Scanning Calorimeter (DSC)
- Reaction Calorimeter (RC)
- Accelerated Rate Calorimeter (ARC)

## SOFTWARE

Dynochem | ASPEN Plus | Minitab







## ANALYTICAL INSTRUMENTS

- High-Performance Liquid Chromatography (HPLC)
- Ultra-High-Performance Liquid Chromatography (UHPLC)
- Liquid Chromatography-Mass Spectrometry (LCMS)
- Preparative-Scale High-Performance Liquid Chromatography (Prep-HPLC)
- Ion Chromatography (IC)
- Gas Chromatography (GC)
- Gas Chromatography-Mass Spectrometry (GC-MS)
- Atomic Absorption Spectroscopy (AAS)
- Fourier-Transform Infrared Spectroscopy (FTIR)
- Differential Scanning Calorimetry (DSC)

## ■ KEY CHEMISTRIES

● Hydrogenation

● Nitration

● Diazotization

● Alkylation

● Oxidation

● Chlorination

● Fluorination

● Amination

● Grignard Reaction

● C-C Coupling

● Bromination

## ■ MANUFACTURING LOCATIONS

### 📍 Nandesari

The first and flagship manufacturing facility

### 📍 Roha

Strategically located at Nhava Sheva Port- the largest container port in India.

### 📍 Hyderabad

#### Zero Discharge Production

Our DASDA facility at Hyderabad is the most water and energy efficient, making us one of the few companies in the world to produce optical brighteners at a Zero Discharge facility.

### 📍 Taloja

Multipurpose Distillation

### 📍 Dahej

**Lowest Thermal Footprint** Phenol-Acetone plant

We have set a new benchmark in India with the lowest specific consumption of Steam and Power at the Deepak Phenolics plant at Dahej, Gujarat.

## ■ MARQUEE CLIENTS





## ■ INTEGRATING SUSTAINABILITY WITH PRODUCTIVITY



Adopting cleaner and cost efficient technologies.

- Focus on Reduce, Reuse and Recover for resource conservation and sustainable growth.
- Focus on Planet, People and Profit for sustainable growth.
- Committed to resource conservation.
- Dedicated cell for conservation through improvisation in processes and products.
- Effluent treatment plants compliant with pollution control norms.





## ■ DEEPAK AT A GLANCE



**50 years**  
Legacy



**Largest domestic producer**  
for Phenol & Acetone



**6**  
Manufacturing  
Facilities



**Green Belt**  
Development  
**110702** Sq. Mt



**Empowering Society**  
Positively impacting  
over **2** million lives



**CSR**  
impacting lives of  
over **2 million** people



**Leading Producer**  
of Sodium Nitrite and  
Sodium Nitrate since 1972



**Amongst top 3**  
**Global player**  
for products like Xylidines,  
Cumidines and Oximes



**Exports**  
to 30 countries  
6 continents catering  
to **700+** Customers



**ICC Certificate Of Merit**  
for Best Compliant Company



Featured in  
**Dun & Bradstreet's list**  
**of India's Top 500**  
**Companies 2020**



**Fortune 500**  
**Forbes Asia Top 200**  
(Under Billion Category)



**R&D**  
400% Increase in  
Investment from  
2019 -2021  
State-of-the-art facility





owle creatives



### Corporate Office

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