



**DEEPAK NITRITE LIMITED**

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**Depend on  
Deepak**



# Why DEPEND ON DEEPAK?

-  **100+** Products
-  **56+** Applications
-  **45+** Countries
-  **50+** Years Legacy
-  **Market Leaders**  
Sodium Nitrite/Nitrate, Xylidine, Toluidine, Inorganic Salts, Phenolics and IPA
-  **1000+** Satisfied Customers across the globe
-  **120+** Suppliers
-  **6** State-of-the-art Manufacturing Facilities
-  **Industry 4.0** Sustained focus on **R&D and Industry 4.0**
-  **36** Cumulative Applications Filed
-  Early adaptors of **'Make In India' & 'Aatmanirbhar Bharat'**



"Consistency is an invaluable resource in an unpredictable economic environment. Our ability to foresee shifts and respond to them with agility ensures our consistency and distinguishes us as a great organisation."

**Mr. Deepak C. Mehta**  
Chairman & Managing Director, Deepak Group

# Innovation & Technology for Responsible Chemistry

Our innovation infrastructure consists of a centralised research facility at Nandesari, Gujarat. Recognised by the Department of Scientific & Industrial Research, Government of India, it is equipped with the latest instruments and equipment.

We continue to focus on developing our core technology platforms that include nitration, reduction and diazotisation. Investments are being made into products that utilise our core platforms for new agrochemical and pharmaceutical intermediates.

## Key Chemistries

- Sulphonation
- Fluorination
- Oxidation
- Diazotization
- Hydrogenation
- C-C Coupling
- Amination
- Chlorination
- Alkylation
- Nitration
- Bromination
- Grignard Reaction

## 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  
70+  
Scientists**



**36+ patent  
applications field**

In process of building a world-class Technology Centre supply chain efficiency and logistics management using GPS tracking technology

# 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)

# Committed to Triple Bottomline

## Responsible Chemistry

### Community Care

- Community development through Deepak Foundation
- Social interventions spanning over **1,500 villages** in Gujarat
- Over **2 million** lives impacted as a result of Community Initiatives
- Over **20,000 community** Covid-19 cases were counselled under CSR initiatives
- ISO 9001, 14001, OHSAS 18001

### Health & Safety

- A Responsible Care Company
- DJSI-ESG rating of 47
- ISO 9001, ISO 14001, ISO 45001 certified company
- Together for Sustainability score of 100 awarded to Dahej Unit
- Emergency preparedness through regular periodic drills and tests
- Dedicated Fire Jeeps at all manufacturing locations
- Renewed HAZOP, QRA and safety inspections linked to MOC
- Occupational health centre at each unit
- 60757 man-hours of safety training

### Environment

- **50,000+** trees planted; green belt of 50 ha.
- **420,000 KL** of water recycled
- **22%** reduction in GHG emission (Intensity Basis), from FY22 to FY23.
- **The Lowest Thermal Footprint** Phenol Plant in the world.
- **CDP** rating B (Management Band)



We are a leading manufacturer of chemical intermediates serving domestic and global customers for over five decades. Our capacities and competencies provide us a robust platform while our people, partnerships and processes drive our operational excellence. We believe there are significant opportunities for growth and our strategic priorities are geared towards sustained value creation.

## 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



## Manufacturing Prowess

### Strategically located plants

- 3 plants near CETP
- 5 plants in vicinity of customers
- 4 plants near ports

### Safe movement

- Process in place to ensure all goods are transported in a secure manner
- Use of GPS tracking prevents any mishaps for all finished products and by-products

### Top notch quality

- Culture of continuous improvement resulting in high customer stickiness
- All supplies as per customer specification which is tested by quality control team and approved for Certificate of Analysis & Material Safety Data Sheet

### Integrated and diverse

- Process competency ranging for basic to niche and complex chemical intermediates



Thank You For Making Us  
**India's Fastest Growing**   
Chemical Intermediates Company.

