



Our key locations and worldwide footprint - close to our customers



decades of service to the chemical industries worldwide

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Projects executed in 50 countries worldwide

Over 800 reference projects

Our Group

thyssenkrupp is one of the world's largest diversified industrial groups with a presence in approximately 56 countries with 890 locations worldwide and approximately 101,000 employees.

The group operates from its Headquarters in Essen, Germany, its group companies worldwide, approximately 78 Research & Development locations and 3,600 plus active customer sites globally.

Its Business Areas include Automative Technology, Industrial Components, Marine Systems, Materials Services & Steel Europe.

The Group's Policy is enshrined in its Mission Statement, and enunciated in its brand claim and promise - engineering. tomorrow. together.

The Group is committed to advancing its customers by:

- understanding their current and future needs
- offering competitive products, services and solutions
- developing relevant technological innovations and business models
 playing a pioneering role
 being reliable partners
 empowering and inspiring people
 building on its many years of experience





8 Organisation 9

Organisation

In the 45 years since being incorporated as an Indian company, we have come a long way in being regarded as one of the leading engineering companies for chemical plants & projects. In line with our USP of being a partner offering single-point, start-to-finish services covering both technology, engineering and plant implementation, we are organised by business functions.



R Kamath
Chief Executive Officer &
Managing Director and
Member of the Board of
thyssenkrupp Industrial
Solutions (India)



NR Chitre
Chief Financial Officer & Executive
Director - Central Functions and
Member of the Board of thyssenkrupp
Industrial Solutions (India) is
responsible for Commercial Project
Management, Finance & Secretarial,
Contracts Management and
Information Technology Management



PG Waray
Chief Operating Officer
& Executive Director Project Execution is
responsible for the
implementation of our projects



Anitesh Pattanayak
Chief Sales Officer &
Executive Director Business Development, Sales &
Proposals is responsible for our
Business Development activities,
Selling of the group's proprietary &
third party technologies, Proposal
activities and Industrial Services



PV Chepe Chief Engineering Officer & Executive Director -Engineering is responsible for our Engineering activities

Our Commitment

We operate as a project-driven company for EPC-LSTK Contracts and EPCM Services. Our philosophy is expressed in our Corporate Philosophy - and borne out by our technical expertise, ethical standards and commitment to clients / business associates. In keeping with our desire to continue being recognized as 'the best EPC-LSTK company', we distinguish ourselves with our:

- Innovative engineering
- Value-added technical services and solutions
- Quality-certified systems and high engineering standards
- · Conformity to health, safety and environmental norms
- · Flexible, customer-oriented approach
- Commitment to budgets and time schedules

Our Values & Principles

- We have a people orientation
- We act as entrepreneurs
- We are resilient
- We collaborate
- We perform
- We trust



Linear Alkyl Benzene plant



Core Competencies

Core Competencies

Our experience covers projects for the chemical and allied industries / sectors, spans in excess of 5 decades, and comes with our trademark quality and commitment to engineering and implementation excellence.

Our plants are based on technologies from our own portfolio, or on technologies from other world-class Licensors. We also design and implement Offsites and Utilities for mainstream chemical plants.

Fertilisers



- Ammonia
- Urea
- Nitric Acid
- Ammonium Nitrate
- Ammonium Nitrophosphate
- Phosphoric Acid
- Di-Ammonium Phosphate, NPK
- Triple Super Phosphate
- Mono Ammonium Phosphate

Polymers, Petrochemicals & Organic Chemicals



- Ethylene Dichloride
- Vinyl Chloride Monomer
- Polyvinyl Chloride
- C-Polyvinyl Chloride
- Olefin Recovery Propylene
- Polypropylene
- Propylene Oxide / Propylene Glycol
- Propane Dehydrogenation
- Polyols
- Phenol / Cumene
- Mono Ethylene Glycol
- Ethylene Oxide / Ethylene Glycol
- High Density Polyethylene
- Low Density Polyethylene
- Linear Low Density Polyethylene
- Ethyl Benzene
- Bisphenol-A

· Styrene Butadiene Rubber

- Styrene Monomer
- Polystyrene
- Poly Butylene Terephthalate Resin
- Halogenated Isobutyl Isoprene Rubber
- Polyamide / Nylon / PET
- Polyesters
- Polychloroprene
- Vinyl Acetate Monomer
- Linear Alkyl Benzene
- Paraffin & Related Derivatives
- Adipic Acid
- Formaldehyde
- Caprolactam
- n-Butanol
- Detergent Alcohol
- Epichlorohydrine
- Methyl Isobutyl Ketone

Refinery Units



- Crude Distillation Unit
- Vacuum Distillation Unit Catalytic Dewaxing Unit
- Hydrocracker
- Diesel Hydrotreater Unit
- Naphtha Hydrotreater
- Kerosene Hydrotreater
- Continuous Catalytic Regeneration
- Indmax FCC Unit
- Fluid Catalytic Cracking Unit
- Propylene Recovery Unit

- Methyl Tertiary Butyl Ether
- Aromatics Extraction
- Diesel Hydro Desulphurisation Unit
- · Gas Oil Hydro Desulphurisation Unit
- Vacuum Gas Oil Units
- Visbreaker
- Coker LPG Treatment Unit
- Sulfur Recovery Unit
- Motor Spirit Quality Upgradation Projects
- Hvdrogen Plants
- Hydrogen Compression & Distribution System
- Residue Upgradation (VGO-HDT, ATF, FCC LPG Merox)

Caustic Soda - Chlorine



- Caustic Soda Chlorine (BM and BiTAC)
- Conversion to Membrane Cell
- Caustic Potash
- NaCl ODC **HCI** Electrolysis
- Water Electrolysis
- Spare Parts & Services

Green Chemicals



- Green Hydrogen
- Green Ammonia
- Green Methanol
- Green Synthetic Natural Gas
- Co₂ Capture

Coke Ovens



- Coke Oven Batteries
- Top charge - Stamp Charge
- Heat recovery type
- Coke-oven machinery
- Charging and Pushing mechanisms

Inorganic Chemicals & Metallurgy



- Chlorine Dioxide
- Bleaching Powder
- Polyaluminium Chloride
- Sodium Chlorate
- Hydrochloric Acid
- Spray Dried Silica
- Sulfuric Acid

Cryogenic Storages & Tank Farms



- Petrochemical Tank Farms
- Cryogenic Ammonia, LPG, Ethylene, Benzene, Propylene Tanks & Terminals
- **Terminal Automation**
- Refrigeration Systems
- **Industrial Plants**



- Air Separation Units
- Hydrogen-Nitrogen Generation Units
- Glycerine / Fatty Alcohol
- Cosmetics
- Coal Tar Filtration Filter Press plants
- Coke Oven Gas Treatment plants
- BOPP for large Power Generation Units

Quenching Towers -

- Tar Refining

Zinc Smelting

Zinc Oxide

Alumina

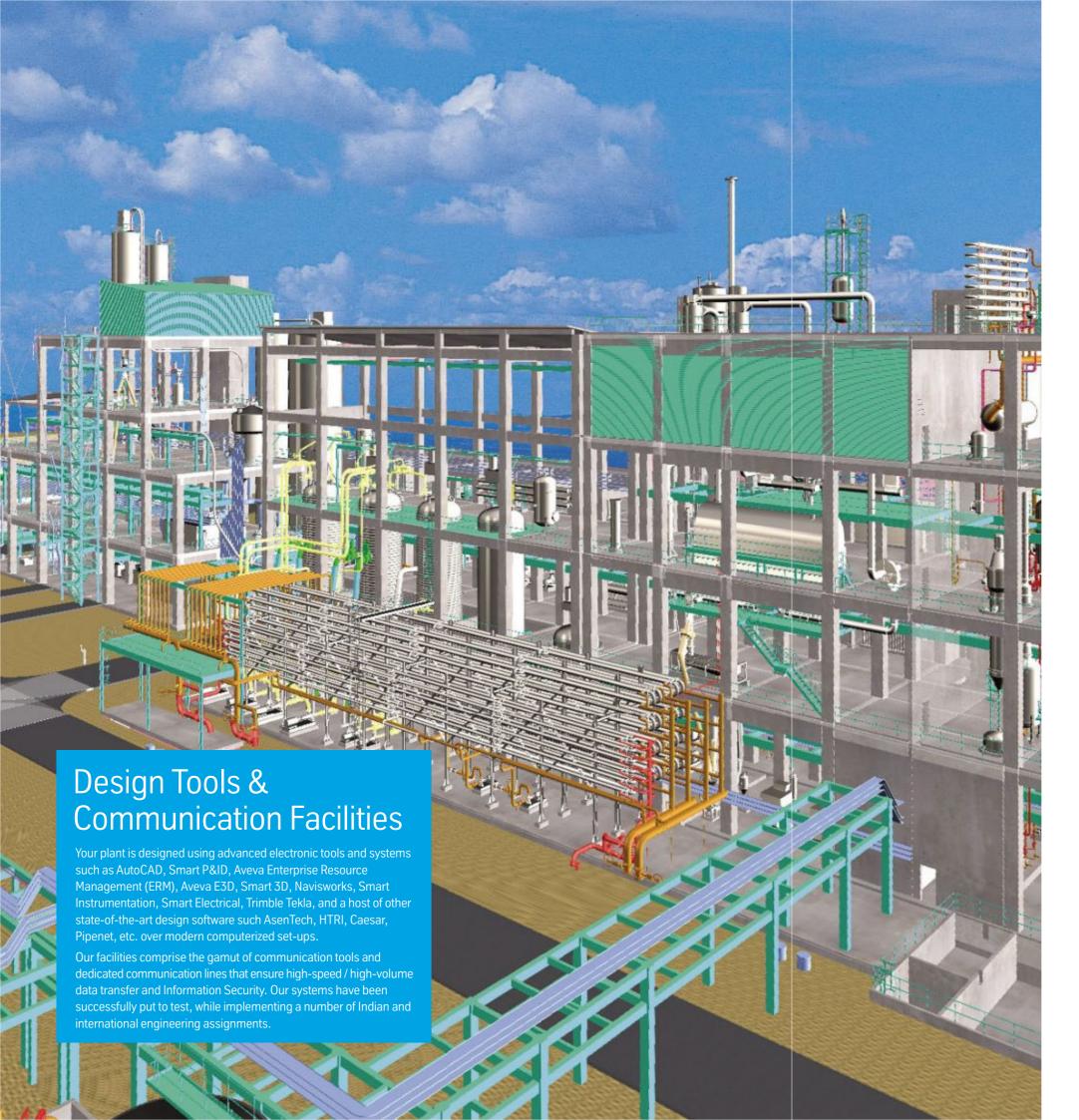
Coke Plant automation

Coke oven gas treatment

- Condensation and tar separation

- Removal and treatment of by-products

- Cement plants Gelatin plants
- Ion Resin plants
- Polyester Resin plants Iron Oxide Pigment plants
- Water-borne Paints plants



Resources

As preferred partner and custodian for your project, we firmly believe that your project deserves nothing but the best. Consequently, we assign our best resources to ensure it is completed on time, within budget, and with the quality you have come to expect from a world leader. Needless to say our plants are distinguished by their cutting-edge technology, innovation, high yield, longevity, optimal capex / opex costs and environmental considerations.

People

Our engineering experience and systems are perfectly complemented by people - our best assets. Our contingent of approximately 1,400 qualified employees account for an annual capacity of 2 million plus engineering hours. Augmenting their engineering skills and distinguishing abilities are a network of modern communication systems, advanced electronic tools and a working environment that is conducive to excellence.



Systems & Working Concepts

Our plants and projects reflect our unique and time-tested working concepts.

Our specialists are organised into dedicated Project Teams or Production Units, depending on the size of your project.

A Project Team is dedicated to your project over all the phases of engineering and implementation, and comprises the Project Manager / Engineering Manager, Lead Engineers and a carefully-assembled complement of engineering and commercial specialists from our central business disciplines.

For relatively smaller projects, we adopt the Production Unit concept, where lead team members working on your project, draw support from the centralised disciplines and engineering pools.

Technology & Licensors

In our endeavour to bring you the best in reliable, economical, environment-friendly and modern technology, we have built up an impressive record of projects based on technologies from the world's best licensors / engineering contractors including thyssenkrupp Industrial Solutions. Our experience signifies our flexibility in handling various types of Technologies, Basic Engineering Packages and international Codes / Standards. In addition to the inhouse processes of thyssenkrupp (incl erstwhile Uhde), we have had opportunities to implement projects based on technologies of other major international licensors, such as:

Germany BASF **Basell Poliolefine**

Bayer Caloric Dynamit Nobel Henkel LANXESS

Lurgi Madaus Outo Kumpu

Belgium

Brazil Petrobras

Canada Rio Tinto Alcan Int.

Nova Chemicals China

Jingdong Jingmao

France

Denmark

Haldor Topsoe Italy

Basell Poliolefine Italia Conser Montedipe

Mitsubishi Heavy Industries Mitsubishi Chemical Corpn. Shin-Etsu

The Netherlands

AkzoNobel

Stamicarbon (DSM)

Norway

Sunde Plastics

Poland Polservice

Russia JSC RI YARSINTEZ

South Africa SASOL

Spain

Switzerland

Taiwan TSRC

United Kingdom Fordell

Johnson Matthey Davy, Formox

United States

CB & I Lummus

Chemithon Chemtura

Grace Technologies



Quality, HSE & Footprint

Quality & HSE

We are convinced our Clients return with repeat orders because their expectations are fully met - and because they see us as a truly quality and safety-conscious company. Quality for us, is as much a culture as it is a system - a system that critically ascertains, identifies and evaluates norms specified in our Quality Manuals. Accredited with the ISO:9001:2015 certification, our QA systems cover all aspects of plant engineering and implementation.

Our commitment to HSE finds expression in our workplaces and plants that are optimised with regard to reliability, performance, safety and environment. The ISO 45001:2018 and ISO 14001:2004 certifications reiterate our commitment to Occupational Health & Safety and the Environmental Management Systems associated with environment-friendly business practices. Simply stated, we build plants which have minimal or no adverse impact on the environment.









Our Indian References

We have been privileged to serve the Indian Chemical industries for the last several decades. Our association with the Who's Who of the Indian Chemical fraternity extends to grassroot, brownfield and revamp projects, based on inhouse processes of thyssenkrupp (incl erstwhile Uhde) and technologies of other international licensors.

Fertilisers

Ammonium Nitrate NPK / NPK Granulation Concentrated Nitric Acid Urea Calcium / Prilled Ammonium Nitrate Di-Ammonium Phosphate Ammonium Nitrophosphate Weak Nitric Acid

Polymers &

Petrochemicals Bisphenol-A C-Polyvinyl Chloride Caprolactam Chloromethanes Coker LPG Cumene Dimethyl Aniline Dyes & Dispersions Epichlorohydrine Ethyl Benzene Ethyl Vinyl Acetate Ethylene Ethylene Glycol / Oxide Formaldehyde HDPE Halogenated Isobutyl Isoprene Rubber Linear Alkyl Benzene LLDPE-HDPE Swing Unit n-Butanol Nitrotoluene Olefin Recovery Phenol Polyamide Polychloroprene Polyester Filament Yarn Polypropylene Propylene Glycol / Oxide Styrene - Polystyrene Synthetic Detergent

Syrene Butadiene Rubber

Vinvl Acetate Monomer

Vinvl Chloride Monomer

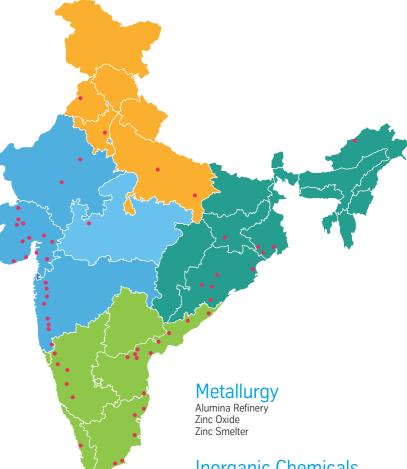
Refinery Units Crude Distillation Unit

Vacuum Distillation Unit

Catalytic Dewaxing Unit Hydrocracker Diesel Hydrotreater Unit Naphtha Hydrotreater Kerosene Hydrotreater Continuous Catalytic Regeneration Reformer Indmax FCC Unit Fluid Catalytic Cracking Unit Propylene Recovery Unit Methyl Tertiary Butyl Ether **Aromatics Extraction** Diesel Hydro Desulphurisation Unit Gas Oil Hydro Desulphurisation Unit Vacuum Gas Oil Units Visbreaker Coker LPG Treatment Unit Sulfur Recovery Unit Motor Spirit Quality Upgradation Projects Hydrogen Plants Hydrogen Compression & Distribution System Residue Upgradation (VGO-HDT, ATF, FCC LPG Merox)

Caustic Soda-Chlorine

Grassroots Caustic Soda Complexes Brownfield Caustic Soda Expansions Conversions to Membrane Cell Caustic Soda Caustic Potash Chlorine Spare Parts & Services



Inorganic Chemicals Aluminium Fluoride Chlorine Dioxide

Poly Aluminium Chloride Potassium Carbonate Potassium Hydroxide Sodium Chlorate Sulphuric Acid

Storages & Tank Farms

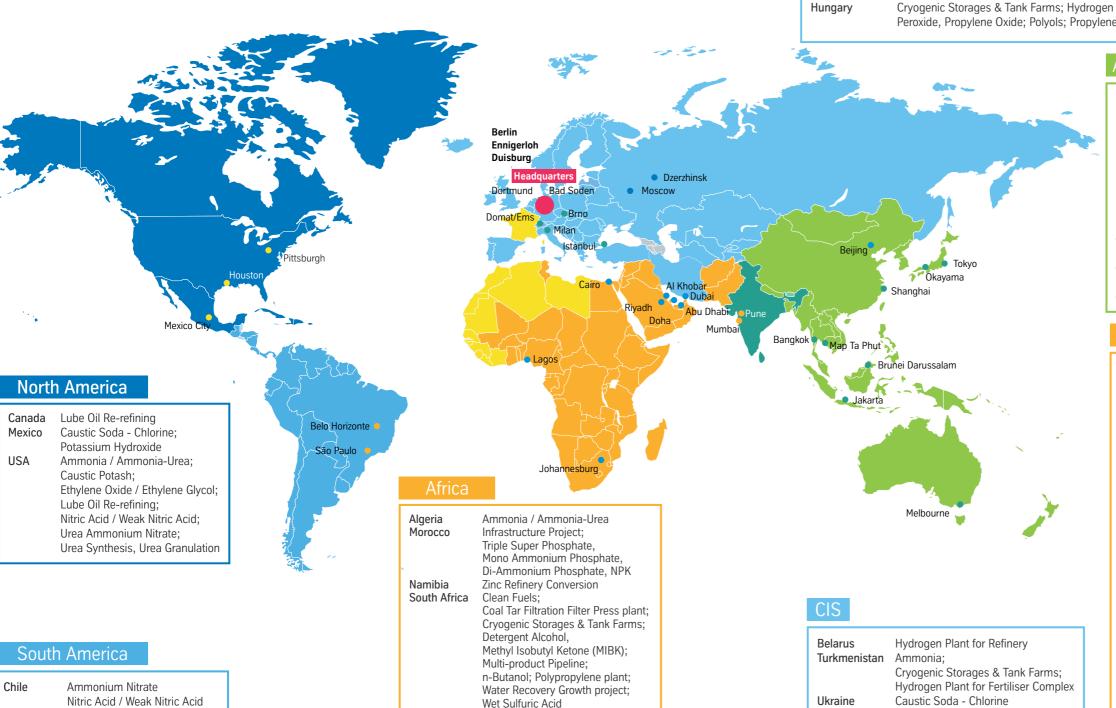
Butane Tanks Cryogenic Ammonia Storage Tanks LPG Storages Propane Tanks

Industrial Plants

Balance of Power plant Bearings Factory Cellulose Nitrate Fatty Alcohol Gas Boosting Stations Gelatin Glycerine Distillation Hydrogen-Nitrogen Utilities Ion Resin Polyester Resin Resin Storage Tank Farms Saponification Spent Bleached Earth Synthetic Iron Oxide Pigment Water-borne Paints

Global Footprint

Our major overseas assignments extend to LSTK and EPCM service contracts both independently as well as together with our group companies / business associates. We have executed in excess of 150 projects globally across all our core competencies.



Europe

Greece

Nitric Acid / Weak Nitric Acid

Belgium Ammonia: Aromatics Extraction: Italy Mild Hydrocracker Caustic Soda - Chlorine; PET Lithuania Cryogenic Storages & Tank Farms Caustic Soda - Chlorine Czech Republic Caustic Soda - Chlorine Norway Finland Hydrogen Plant for Refinery Caustic Soda - Chlorine Poland NaCl Caustic Soda France Gasification Spain Adipic Acid; Caustic Soda - Chlorine; Formaldehyde; The Netherlands Urea Synthesis, Urea Granulation Germany

High Density Polyethylene Turkey Ammonium Nitrate:

Calcium Nitrate Granulation: DAP-NPK

Nitric / Weak Nitric Acid; Polyester Tyre Cord

Peroxide, Propylene Oxide; Polyols; Propylene Glycol United Kingdom PET

Asia Pacific (APAC)

Bangladesh Urea Synthesis, Urea Granulation Ammonia - Urea, Urea Granulation Brunei

Caustic Soda - Chlorine; Hydrogen Plant for Refinery; China

Ethyl Benzene, Styrene Monomer; Hydrogen Peroxide Indonesia Ammonia / Ammonia - Urea; Aromatics Extraction; Malaysia

Cryogenic Storages & Tank Farms; Lube Oil Re-Refining;

Spent Bleached Earth

Nitric Acid / Weak Nitric Acid Mvanmar

Philippines Polypropylene

Bisphenol-A; Caustic Soda - Chlorine; Taiwan

Cryogenic Storages & Tank Farms

Ammonium Nitrate; Caustic Soda - Chlorine; Cryogenic Thailand

Storages & Tank Farms; Fatty Alcohol; Nitric Acid

Middle East

Vietnam

Ammonia / Ammonia-Urea / Urea Granulated / Egypt Ammonium Nitrate / Calcium Ammonium Nitrate

> (Granulated) / Low Density Ammonium Nitrate; Caustic Soda - Chlorine; Cryogenic Storages & Tank Farms; Nitric Acid / Weak Nitric Acid:

Propylene / Polypropylene

Hydrogen Peroxide Israel Jordan Caustic Soda - Chlorine Refinery Facilities Kuwait Ethylene Dichloride **Oman**

Ammonia / Ammonia-Urea; Caustic Soda - Chlorine; Qatar Cryogenic Storages & Tank Farms; Ethylene Dichloride,

Vinyl Chloride Monomer; Low Density Polyethylene;

Urea Formaldehyde Concentrate

Saudi Arabia Alkylation Unit; Ammonia / Ammonia-Urea;

Benzene Mitigation; Benzene Storage Tank; Caustic Soda - Chlorine; Cryogenic Storages & Tank

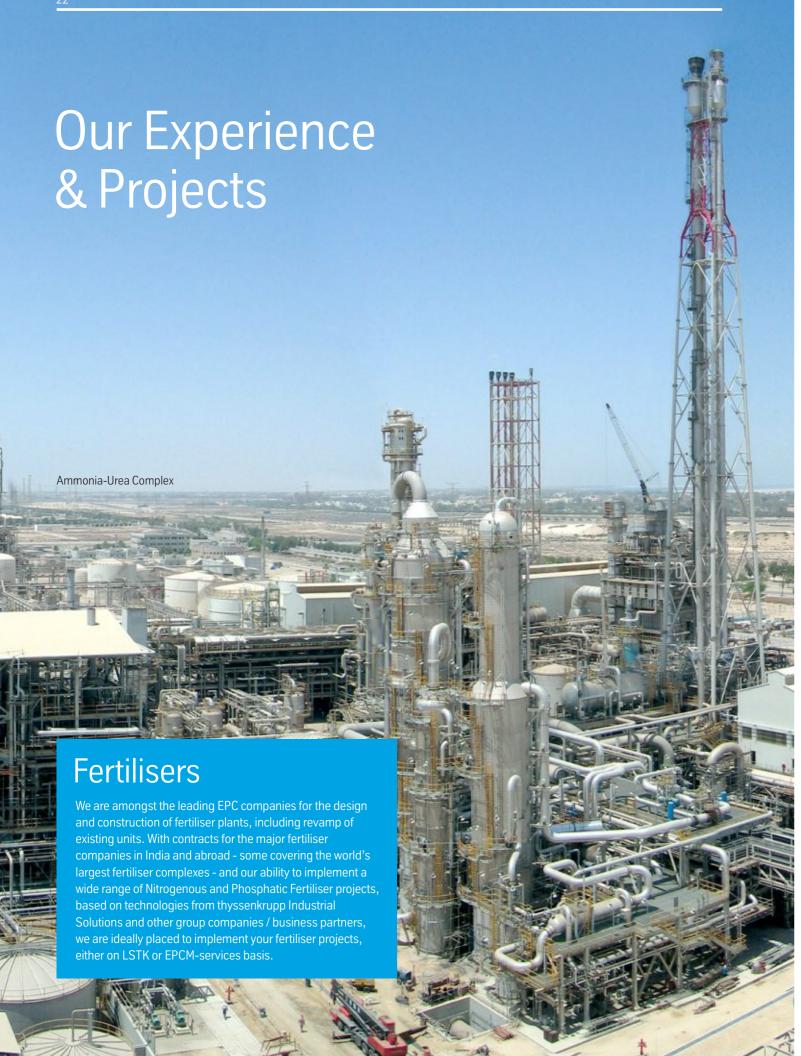
Farms; Ethylene Dichloride, Vinyl Chloride Monomer; Formaldehyde; Fuel Additives; HTF Blending;

LAB Derivatives; Linear Alkyl Benzene;

n-Paraffin, Paraffin Deratives: OCT Feed Purification: Poly Butylene Terephthalate Resin; Polyethylene; Sulfonation Unit; Urea Formaldehyde Concentrate;

Urea Synthesis, Urea Granulation

UAE Cement Plant; Urea Synthesis, Urea Granulation



Some of our major Nitrogenous Fertiliser projects :	
Al. O' Fall' - Ca Fall	Annual of the All Control Annual of the All Annual of
Abu Qir Fertilizer Co., Egypt	Ammonia-Urea, Nitric Acid, Ammonium Nitrate*
Asean Bintulu Fertilizer, Malaysia	Ammonia-Urea (Revamp)
BAGFAS, Turkey	Nitric Acid, Ammonium Nitrate, Calcium Nitrate Granulation, Offsites & Utilities*
BASF, Belgium	Ammonia*
Brunei Fertilizer Industries, Brunei	Ammonia-Urea*
CF Industries Holdings, USA	Ammonia, Urea, Nitric Acid, Urea Ammonium Nitrate, Urea Granulation*
El Nasr Co for Intermediate Chemicals, Egypt	Ammonia, Urea, Nitric Acid, Ammonium Nitrate, Calcium Ammonium Nitrate*
Gujarat Narmada Valley Fertilizers, India	Nitric Acid, Weak Nitric Acid, Concentrated Nitric Acid, Calcium Ammonium Nitrate, Ammonium Nitrophosphate
Orascom Construction Industries, USA	Urea Ammonium Nitrate, Urea, Nitric Acid*
QAFCO, Qatar	Ammonia-Urea*, Urea Formaldehyde Concentrate
Rashtriya Chemicals & Fertilizers, India	Weak Nitric Acid
SAFCO, Saudi Arabia	Ammonia-Urea*, Urea Formaldehyde Concentrate
SORFERT, Algeria	Ammonia-Urea*
Yara Sluiskil B. V., The Netherlands	Urea Synthesis*
Some of our major Phosphatic Fertiliser projects :	
Bunge Maroc Phosphore, (Incro cooperation) Morocco	Triple Super Phosphate, Mono Ammonium Phosphate, Di-Ammonium Phosphate
Coromandel International, India	NPK Complex, Urea-grade NPK, Phosphoric Acid
Deepak Fertilisers and Petrochemicals	NPK Granulation, Weak Nitric Acid,

Prilled Ammonium Nitrate

Di-Ammonium Phosphate / NPK

DAP-NPK plant

NPK plant

Di-Ammonium Phosphate (Revamp)

Di-Ammonium Phosphate, Additional facilities for

*Main Contractor thyssenkrupp Industrial Solutions



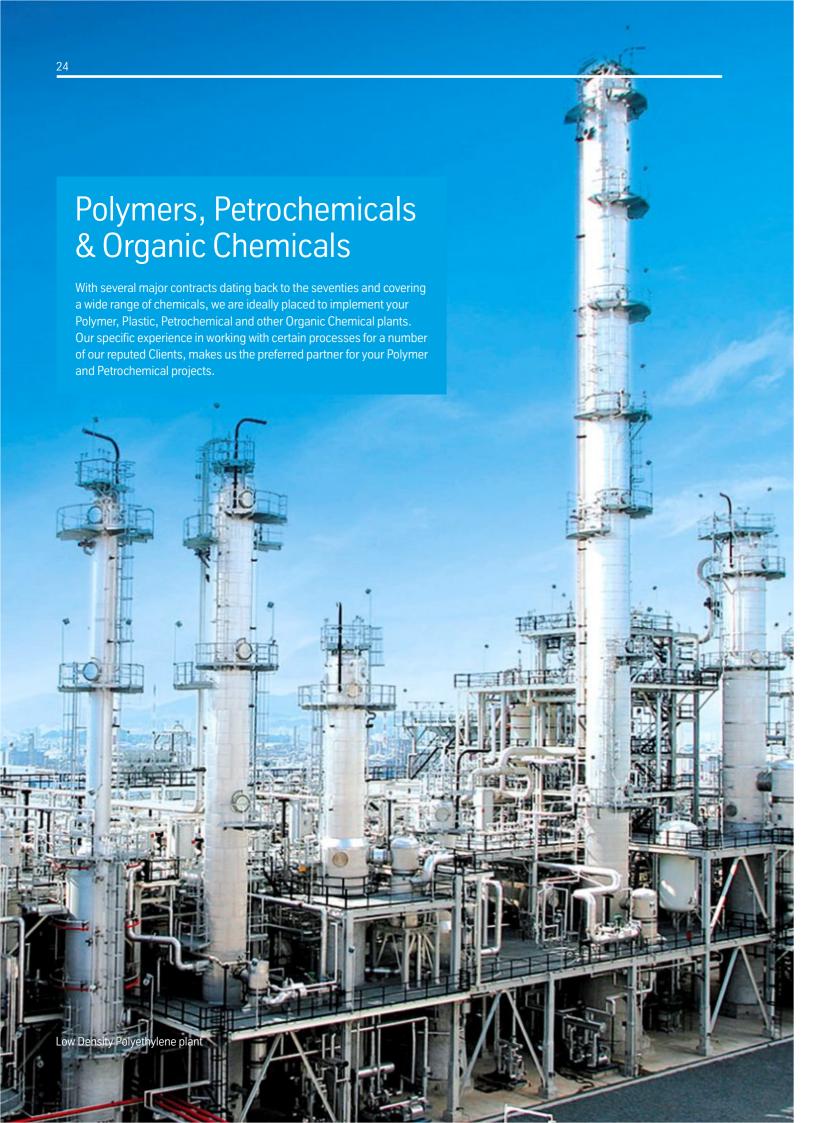
DAP-NPK Fertiliser Complex

Corporation, India

ETI BAKIR, Turkey (Incro cooperation)

Godavari Fertilisers and Chemicals, India Gujarat State Fertilizers & Chemicals, India

Petrovietnam Fertilizer and Chemicals, Vietnam



Some of our major Polymer, Petrochemical & Organic Cl	nemical projects :
Changle Highsun Synthetic Fibre Technology, China	Polyamide-6*
Deepak Phenolics, India	Phenol, Cumene
Egyptian Propylene & Polypropylene Co., Egypt	Propylene - Polypropylene*
Farabi Petrochemicals (SNC-Lavalin cooperation /	n-Paraffin, Linear Alkyl Benzene
direct contract), Saudi Arabia	(incl. Duplication), LAB Derivative Units
Finolex Industries, India	Vinyl Chloride Monomer, S-PVC, E-PVC
Gujarat Alkalies and Chemicals, India	Chloromethanes
Gujarat State Fertilizers & Chemicals, India	Caprolactam (Expansion)
Haldia Petrochemicals, India	Polypropylene, LLDPE - HDPE Swing Unit (Revamp)
Hoecsa, Turkey	Polyester Tyre Cord
IBN-ZAHR (Saudi European Petrochemical Co), KSA	OCT Feed Purification
Indian Oil Corporation, Gujarat, India	Linear Alkyl Benzene (PMC Services), n-Butanol
Indian Oil Corporation, Panipat Refinery, India	HDPE, LLDPE - HDPE Swing Unit, Olefin Recovery, Revamp of Naphtha Cracker, MEG Unit, Ethylene Recovery
Indian Oil Corporation, Paradip Refinery, India	Polypropylene Unit
Indian Petrochemicals Corporation, India	High Density Polyethylene
Indian Synthetic Rubber, India	Styrene Butadiene Rubber
JBF Industries, Belgium	PET*
Kanoria Chemicals & Industries, India	Formaldehyde
Liwa Petrochemical, Oman	Ethylene Dichloride*
Lotte Chemical UK, United Kingdom	PET*
MOL, Hungary	Hydrogen Peroxide, Propylene Oxide, Propylene Glycol*
Nayara Energy, India	Asset Development Plan for Petrochemical Units
Nirma, India	Linear Alkyl Benzene
P. T. Styrindo Mono (MHI cooperation), Indonesia	Ethyl Benzene - Styrene Monomer
Qatar Petrochemicals (QAPCO), Qatar	Low Density Polyethylene*
Qatar Vinyl Company, Qatar	Ethylene Dichloride - Vinyl Chloride Monomer*
Radici, Germany	Adipic Acid*
Reliance Industries, India	Linear Alkyl Benzene
Reliance Sibur Elastomers, India	Halogenated Isobutyl Isoprene Rubber
SABIC Polyolefine, Germany	High Density Polyethylene*
SASOL (tklS South Africa cooperation), South Africa	n-Butanol, Detergent Alcohol, Methyl Isobutyl Ketone
Saudi International Petrochemical Co.(SIPCHEM), KSA	Poly Butylene Terephthalate (PBT) Resin*
Supreme Petrochem, India	Polystyrene
Tamilnadu Petroproducts, India	Epichlorohydrine, Linear Alkyl Benzene

*Main Contractor thyssenkrupp Industrial Solutions



Propylene Polypropylene Complex

Refinery Units

Our experience of working on the Refinery Units of some of the world's largest refineries, makes us a worthy engineering partner for specialized units in the Refinery Sector.

We have successfully partnered with India's leading oil refining majors for their refinery upgradations, capacity augmentations, refinery expansion and yield improvement programmes, which have also enabled them meet their commitment to environment and fuel emission norms.



Some of our major Refinery projects :	
BASF, Belgium	Benzene-Toluene Extraction Unit*
Bharat Petroleum Corporation, Mumbai	Kerosene Hydrotreater, Naphtha Hydrotreater, Continuous Catalytic Regeneration Reformer
Kochi (GR Engineering Cooperation)	Continuous Catalytic Regeneration Reformer
BioNext, France	Biomass to Liquid (Gasification)*
Chennai Petroleum Corporation, Manali Refinery, India	Diesel Hydro Desulphurisation Unit (Revamp)
HPCL-Mittal Energy (HMEL), India	Fluid Catalytic Cracking Unit (Revamp)
Indian Oil Corporation, India	
Bongaigaon Refinery	Fractionation, Isomerisation Unit, Reformer Unit, Parex Unit - for Motor Spirit Quality Upgradation, Indmax Prime G Unit, Indmax Fluid Catalytic Cracking Unit, Gasoline Desulphurisation
Digboi Refinery	Naphtha & Reformate Splitter, Isomerisation Unit
Gujarat Refinery	CDW, VGO-HDT, ATF & FCC LPG Merox for Motor Spirit Quality Upgradation / Residue Upgradation, Sulfur Recovery Unit (Petrofac, Sharjah cooperation), DHDS DHDT VGO-HDT Units
Guwahati Refinery	Indmax Gasoline Splitter, Light Naphtha Splitter, Isomerisation Unit - for Motor Spirit Quality Upgradation
Panipat Refinery (L&T cooperation)	Diesel Hydro Desulphurisation Unit
Paradip Refinery	DHDT, VGO-HDT, Hydrogen Compression & Distribution System, Coker LPG Treatment Unit, BS VI Motor Spirit Quality Upgradation
Kuwait National Petroleum Corpn., Kuwait (both with International Services WLL cooperation)	Enhancement of local marketing & distribution services (Detailed Engineering), Hazop Studies
Mangalore Refinery and Petrochemicals, India	Visbreaker Unit (incl. Duplication), Crude Distillation Unit, Vacuum Distillation Unit, Gas Oil Hydro Desulphurisation Unit, PFCC Unit Wet Scrubber
Neste Oil Oyj, Finland	Hydrogen Plant Reformer*
Numaligarh Refinery, India	CDU / VDU, PFCC Unit, LPG Treatment Unit, Gasoline Desulphurisation Unit, Naphtha Hydrotreating, Continuous Catalytic Reforming Unit and Isomerisation Units
Praxair India, India	Hydrogen plant (for Indian Oil Corporation, Paradip Refinery)
Saras Refinery, Italy (Parsons cooperation)	Mild Hydrocracker Unit
Titan Petrochemicals, Malaysia	Aromatics Extraction plant*

*Main Contractor thyssenkrupp Industrial Solutions



Clean Fuels & Refinery Yield Improvement Project



Some of our major Caustic Soda-Chlorine projects	in India :
Andhra Sugars	Capacity Expansion
Bihar Caustic & Chemicals	Capacity Expansion
Chemplast Sanmar	Capacity Expansion
DCW	Expansion / Conversion to Membrane Cell
GACL - NALCO Alkalies & Chemicals (GNAL)	Grassroot Complex
Grasim Industries / Aditya Birla Group	Grassroot Complex, Conversion to Membrane Cell, Membrane Cell Upgradation, Capacity Expansion
Gujarat Alkalies and Chemicals	Conversion to Membrane Cell, Grassroot Complex, Capacity Expansion
Indian Rayon and Industries	Grassroot Complex, Capacity Expansion
Jayshree Chemicals	Conversion to Membrane Cell
Kutch Chemicals	Grassroot Complex
Kanoria Chemicals & Industries	Grassroot Complex, Conversion to Membrane Cell, Capacity Expansion
K. P. R. Industries (India)	Grassroot Complex
Punjab Alkalies & Chemicals	Grassroot Complex, Conversion to Membrane Cell, Capacity Expansion
Reliance Industries (IPCL)	Grassroot Complex
Search Chem Industries / United Phosphorus	Grassroot Complex / Relocation of Caustic Soda Complex
Sree Rayalaseema Alkalies & Allied Chemicals	Capacity Expansion



Membrane Cell Caustic Soda-Chlorine Complex

Green Chemicals

Our Green Chemical technologies utilize our well-proven Alkaline Water Electrolysis (AWE) to generate pure Green Hydrogen and Oxygen which can further be converted to downstream Green Chemicals such as Ammonia & Methanol based on Carbon Dioxide captured from refinery, steel, power, fertilizer and other industrial plants. The unique feature of our offerings is that we are able to offer the entire value chain "under one roof" from concept to commissioning.

Our latest initiative aligns with our new Purpose Statement "We Create a Livable Planet" - a motto that Uhde has been committed to in the last 100 years since its set up in 1921.

Green Hydrogen

Carriers

- Green Ammonia
- Green Methanol
- Green Synthetic Natural Gas
- CO₂ capture

Coke Ovens

We have a track record of having implemented in excess of 500 coke ovens plants in the last 150 years in a variety of solutions for the steel industry. These include Coke Ovens, Machines and By-product plants, including coal preparation, bulk handling material, coke oven machines and associated facilities. We are able to offer efficient and cost-effective coke production and value-added by-product recovery driven by our proprietary technology.



- Coke Oven Machinery
- Charging and Pushing Mechanisms
- Quenching Towers
- Coke Oven Gas Treatment
- Coke Plant Automation



Coke Oven Battery

32 Experience & Projects - Inorganic Chemicals & Minerals / Metals

Inorganic Chemicals & Minerals / Metals

Our experience extends to a significant number of challenging projects covering various Inorganic Chemicals like Chlorine Dioxide, Spray Dried Silica, Polyaluminium Chloride, Potassium Hydroxide, Hydrogen Peroxide and Sodium Chlorate.



Some of our major Inorganic Chemical & Metallurgical p	rojects:	
Andhra Sugars, India	Polyaluminium Chloride	
Brasali, Indonesia	Hydrogen Peroxide*	
Gujarat Alkalies and Chemicals, India	Hydrogen Peroxide, Polyaluminium Chloride, Sodium Chlorate, Caustic Potash	
Hindustan Organic Chemicals, India	Hydrogen Peroxide*	
Hindustan Zinc, India	Zinc Smelter (incl. Duplication)	
Insilco, India	Spray Dried Silica	
Kanoria Chemicals & Industries, India	Polyaluminium Chloride (Relocation)	
MCW, Israel	Hydrogen Peroxide*	
Namzinc, Namibia	Zinc Refinery (Conversion)	
NALCO, India	Alumina Refinery	
Sirpur Paper Mills, India	Chlorine Dioxide	
Utkal Alumina, India	Alumina Refinery (incl. Expansion)	
Umicore Anandeya India, India	Zinc Oxide (Expansion)	
West Coast Paper Mills, India	Chlorine Dioxide	

*Main Contractor thyssenkrupp Industrial Solutions



Zinc Smelter



Some of our major Cryogenic Storage & Tank Farm projects:

AB Achema, Lithuania*

ACME Cleantech Solutions Pvt. Ltd., India (Green Ammonia)

Coromandel International, India

Deepak Fertilisers and Petrochemicals, India

EID Parry, India

Fertilizers & Chemicals Travancore (FACT), India

Formosa Chemicals and Fibre Corpn., Taiwan

Godavari Fertilisers and Chemicals, India

Gujarat State Fertilizers & Chemicals, India

Indian Farmers' Fertilizer Cooperative (IFFCO), India

Indo Gulf Corporation, India

Krishak Bharati Coop. (KRIBHCO), India

MATIX Fertilisers & Chemicals (Essar Projects [India]), India

Mangalore Chemicals & Fertilizers, India

National Fertilizers, India

OMNIA Fertilizers, South Africa

Paradeep Phosphates, India (largest Indian installation in single location)

QAFCO, Qatar*

Rashtriya Chemicals & Fertilizers, India

Reliance Industries, India

SHV Energy, India (Propane & Butane Tanks)

Sanjana Cryogenics (for Hindustan Lever Chemicals), India

Shiraz Petrochemicals, Iran

Tata Chemicals, India

Zuari Agro Chemicals, India

Dialog Holdings SDN BHD, Malaysia (Propylene Storage Tank)*

Tiszai Vegyi Kombinat RT., Hungary (Ethylene Storage Tank)*

Bharat Petroleum Corporation, India (LPG Storages with Refrigerated Pipelines)

Farabi Petrochemicals, Saudi Arabia (Benzene Storage Tank)

*Main Contractor thyssenkrupp Industrial Solutions



Cryogenic Ammonia Storage Tanks with associated facilities



Some of our major Pharmaceutical projects :		
Agrevo India, India	Agrochemical plant	
Colorcon Asia, India	Excipients facility	
Madaus Pharmaceuticals, India	Agiolax Formulation plant	
Torrent Gujarat Biotech, India	Penicillin G Formulation plant	
US Vitamins, India	Bulk Drug plant	

Some of our major Industrial plants :			
AkzoNobel India, India	Water-borne Paints		
Bombay Oxygen, India	Air Separation Unit		
DCW, India	Synthetic Iron Oxide Pigment plant		
Dresser-Rand India, India (for PPN Power Company)	Gas Boosting Station		
Eco Oils SDN BHD, Malaysia	Spent Bleached Earth		
Fujairah Cement Industries (Polysius AG cooperation), UAE	Cement plant		
LANXESS India, India	Ion Resin plant		
L'Oreal India, India	Cosmetics plant (Expansion)		
Maroc Phosphore, Morocco	Infrastructure project, Electrical Engineering Services		
Reichhold India, India	Polyester Resin plant, Resin Storage Tanks		
Rothe Erde, India	Gear / Bearings factory		
Siemens (for Gujarat Torrent Energy Corpn.), India	Balance of Plant facilities for Power plant		
Thai Oleochemicals, Thailand	Fatty Alcohol*		
thyssenkrupp Electrical Steel, India	Hydrogen - Nitrogen plant		
Umicore Autocat India, India	Automotive Catalyst plant		
VVF Limited, India	Hydrogen, Fatty Alcohol, Saponification, Glycerine Distillation		

*Main Contractor thyssenkrupp Industrial Solutions



Hydrogen-Nitrogen Utilities for Steel Plant













Giving back to the Industry

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Chemtech

Supported by

Our technology symposiums and our company literature update you with regard to developments in our technology, plant experiences and our organisation

Our experts are widely sought out by the industry and academia for their views and experiences. In keeping with our commitment to the industry, we support events and meets of note.

40 Awards & Corporate Citizenship 41

Awards

A Star Export House, our progress has been acknowledged with a number of export and other awards from nodal trade associations.

We continue to contribute significantly to our group, where our performances have received recognition through group awards and citations.

The ultimate measure of our success however, lies in the satisfaction of our esteemed customers. It is epitomized by their continued support, compliments and the trust that they place in us, when awarding us contracts for their plants and projects, that we are privileged to implement.



Export Awards from the Federation of Import Export Organisations (FIEO) & the Engineering Export Promotion Council of India (EEPC)



Industry Recognition

It is a matter of pride to recount the praise and recognition we have received at the industry level, with awards from the Engineering Export Promotion Council of India (EEPC), the Federation of Import Export Organisations (FIEO) and the Indo German Chamber of Commerce (IGCC).

We have been feted for our performances at the group level as well, with Best Company and Best Subsidiary awards.

We are also the proud recipient of a Sustainability award (IGCC) and a number of Communication awards.





Safety is our core value and it is visible through the Safety Procedures and Polices, adopted across our offices and sites. As of March 2022, we recorded 3 safe years without any LTI i.e. approximately 75 Million safe man-hours.

In April 2022, we were the Gold Award recipients of the American Society of Safety Professionals (ASSP) for our Risk Management initiatives.

Corporate Citizenship

We take our responsibility as a Corporate Citizen very seriously. The Corporate Social Responsibility (CSR) initiative mandated by the Government of India allows us to give full expression to this responsibility. Our CSR projects are steered by a Core CSR Team and driven with voluntary employee engagement. We have been honoured to extend donations to leading state-owned hospitals and academic institutions, which serve society.







Giving Back to Society

Our CSR initiatives have extended help to some of the country's most deserving hospitals, through the donation of critical-care medical equipment.

We have also been privileged to further the cause of education and health amongst the underprivileged and the girl child.

We are supported in our philantrophic endeavours by the Rotary Clubs and like-minded individuals.







Our CSR activities benefit a number of hospitals and schools in the social sectors of India

Notes

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