Industrial Solutions

Company Profile

Plants & Projects for the Chemical & Allied Industries

Formerly Uhde India Private Limited
Over 5 decades of service to the chemical industries worldwide

We are present wherever our customers need us
Over 650 reference projects

Projects executed in 50 countries worldwide

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thyssenkrupp is one of the world’s largest diversified industrial groups with a presence in over 80 countries and approximately 159,000 plus employees worldwide.

Its Business Areas include Components Technology, Elevator Technology, Industrial Solutions, Materials Services and 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
Our Group

We are thyssenkrupp.

We meet the challenges of tomorrow with our customers.

We hold ourselves to the highest standards.

We share common values.

Our Group Mission Statement
We are a progressive Engineering Consultancy company committed to bringing you the entire range of services involved in the design and construction of plants for the chemical, petrochemical, fertiliser, refinery and metallurgical industries in India and abroad. We offer Engineering, Procurement, Construction Management Services (EPCM) and Lump sum Turnkey (EPC-LSTK) plants.

We are one of the largest international group companies of thyssenkrupp Industrial Solutions AG, a Business Area of thyssenkrupp AG of Germany. Our full-fledged modern engineering facilities in our Head Office in Mumbai and our Pune Office, with approximately 1,200 qualified and well-trained technical experts, our experience of over 650 successfully-implemented projects in India and abroad based on our own technologies or on technologies from other world-class Licensors, annual capacity of over 2 million engineering hours, unique working methods, quality and safety-certified systems, and client-conscious approach make us the ideal and complete EPC partner, across a wide range of industries and sectors.
Our Pune Office
In the forty 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 technology orientation, our organisation is structured into Business Units, with projects being centrally managed through a Network of Excellence.

PV Chepe
Executive Director -
Business Unit Technologies
(Fertilisers and Electrolysis & Polymers)
is responsible for projects based
on our proprietary technology portfolio

KS Rao
Executive Director -
Business Unit
Industrial Specialities & Services
is responsible for projects based
on third party technologies
and licenses, and our
Services portfolio

PD Samudra
Chief Executive Officer &
Managing Director 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
Executive Director -
Network of Excellence is
responsible for the engineering and
implementation of our projects

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

We operate as a project-driven company for EPCM Services and LSTK contracts. 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
End-to-end Solutions

Our wide range of services and specialised services and our ability to implement projects in a variety of modes aligned to customer requirements, make us the number one address for a variety of solutions for the chemical and allied industries.

Range of Services

• Pre-project Activities
• Engineering
• Project Implementation, Procurement, Construction
• Start-up, Commissioning, Training of Client personnel

Types of Contracts

• Engineering Procurement Construction (EPC / Lump sum Turnkey)
• Engineering, Procurement, Construction Services (EPCM)
• Project Management Consultancy (PMC)
• Front End Engineering Design (FEED)
End-to-end Solutions

Specialised 360° Lifecycle Services

We appreciate your need for year-round service and maintenance of your prized chemical facilities, and hence provide 360° Lifecycle Services that ensure your plant is upgraded constantly, and always in the best of health.

Our Lifecycle Services:
• Asset Management
• Revamps & Restarts
• Parts & Supply Management
• Field & Workshop Services
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.

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
- 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
- Hydrocracker
- Diesel Hydrotreater Unit
- Naphtha Hydrotreater
- Continuous Catalytic Regeneration Refomer
- Aromatics Extraction
- Diesel Hydro Desulphurisation Unit
- Gas Oil Hydro Desulphurisation Unit
- Vacuum Gas Oil Unit
- Coker LPG Treatment Unit
- Visbreaker
- Sulfur Recovery Unit
- Indmax Fluid Catalytic Cracking Unit
- Gasoline Desulphurisation Unit (Prime G+)
- Motor Spirit Quality Upgradation Projects
- Hydrogen plants
- Hydrogen Compression & Distribution System
- Residue Upgradation (VGO-HDT, ATF, FCC LPG Merox)
- Integrated Gasification Combined Cycle plant (IGCC)
Caustic Soda - Chlorine
- Caustic Soda - Chlorine (BM and BiTAC)
- Conversion to Membrane Cell
- Caustic Potash
- NaCl ODC

Inorganic Chemicals & Metallurgy
- Chlorine Dioxide
- Bleaching Powder
- Polyaluminium Chloride
- Sodium Chlorate
- Hydrochloric Acid
- Spray Dried Silica
- Sulfuric Acid
- Zinc Smelting
- Zinc Oxide
- Alumina

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

Pharmaceuticals & Industrial Plants
- Bulk Drugs
- Formulation
- Antibiotics
- Excipients
- Fine & Speciality Chemicals
- Dyestuffs & Intermediates
- 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
- Cement plants
- Gelatin plants
- Ion Resin plants
- Polyester Resin plants
- Iron Oxide Pigment plants
- Water-borne Paints plants

Offsites & Utilities
Design Tools & Communication Facilities

Your plant is designed using advanced electronic tools and systems such as ACAD, PDMS, PDS, Autoplant, IRP, Smart Plant P&ID and Microstation, and a host of other state-of-the-art design software over modern computerised set-ups.

Our facilities comprise the gamut of communication tools and dedicated communication lines that ensure high-speed / high-volume data transfer. Our systems have been successfully put to test, while implementing a number of Indian and international engineering assignments.
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 1,200 qualified employees account for an annual capacity of 2 million 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 Task Forces or Production Units, depending on the size of your project.

A Task Force 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
- Basell Poliolefine
- Bayer
- Caloric
- Dynamit Nobel
- Evonik
- Henkel
- LANXESS
- Linde
- Lurgi
- Madaus
- Outo Kumpu
- Plinke
- Uhde
- Vinnolit

**Belgium**
- Prayon

**Brazil**
- Petrobras

**Canada**
- Rio Tinto Alcan Int.
- Nova Chemicals

**China**
- Jingdong Jingmao

**Denmark**
- Haldor Topsoe

**Italy**
- Basell Poliolefine Italia
- Conser
- Montedipe
- Pressindustria
- Radici

**France**
- Atochem
- Arkema
- Axens
- CdF Chemie
- IFP
Japan
Mitsubishi Heavy Industries
Mitsubishi Chemical Corpn.
Shin-Etsu

The Netherlands
AkzoNobel
Shell
Stamicarbon (DSM)
Yara

Norway
Norsk Hydro
Sunde Plastics

Poland
Ciech Icso
Polservice

Spain
Incro

Sweden
Formox AB

Switzerland
Alesa Alusuisse
Bertrams
Enco
Uhde Inventa-Fischer

Taiwan
TSRC

United Kingdom
Fordell

United States
CB & I Lummus
Chemtura
Celanese
Huntsman
KBR
Monsanto
Parsons
Rockwood
Scientific Design
UOP
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 BS OHSAS 18001:2007 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 grassroots, 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
- 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
- Nitrotoluene
- Olefin Recovery
- Phenol
- Polymide
- Polychloroprene
- Polyester Filament Yarn
- Polypropylene
- Propylene Glycol / Oxide
- Styrene - Polystyrene
- Synthetic Detergent
- Syrene Butadiene Rubber
- Vinyl Acetate Monomer
- Vinyl Chloride Monomer

Refinery Units
- Aromatics Extraction
- Coker LPG Treatment Unit
- Continuous Catalytic Regeneration Reformer
- Crude Distillation Unit
- Diesel Hydro Desulphurisation
- Diesel Hydrotreater Unit
- Gas Oil Hydro Desulphurisation Unit
- Gasoline Desulphurisation Unit (Prime G+)
- Hydrocracker
- Hydrogen Compression & Distribution System
- Hydrogen Plants
- Indmax FCC Unit
- Integrated Gasification Combined Cycle Plant (IGCC)
- Motor Spirit Quality Upgradation
- Naphtha Hydrotreater
- Residue Upgradation
- (VGO-HDT, ATF, FCC LPG Merox)
- Sulfur Recovery Unit
- Vacuum Distillation Unit
- Vacuum Gas Oil Unit
- Visbreaker

Metallurgy
- Alumina Refinery
- Zinc Oxide
- Zinc Smelter

Inorganic Chemicals
- Aluminium Fluoride
- Chlorine Dioxide
- Poly Aluminium Chloride
- Potassium Carbonate
- Potassium Hydroxide
- Sodium Chlorate

Storages & Tank Farms
- Cryogenic Ammonia Storage Tanks
- LPG Storages

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

Caustic Soda-Chlorine
- Grassroots Caustic Soda Complexes
- Brownfield Caustic Soda Expansions
- Conversions to Membrane Cell Caustic Soda
- Caustic Potash
- Chlorine

Quality, HSE & Footprint

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 grassroots, brownfield and revamp projects, based on inhouse processes of thyssenkrupp (incl erstwhile Uhde) and technologies of other international licensors.

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

Polymers & Petrochemicals
- 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
- Nitrotoluene
- Olefin Recovery
- Phenol
- Polymide
- Polychloroprene
- Polyester Filament Yarn
- Polypropylene
- Propylene Glycol / Oxide
- Styrene - Polystyrene
- Synthetic Detergent
- Syrene Butadiene Rubber
- Vinyl Acetate Monomer
- Vinyl Chloride Monomer

Refinery Units
- Aromatics Extraction
- Coker LPG Treatment Unit
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- Crude Distillation Unit
- Diesel Hydro Desulphurisation
- Diesel Hydrotreater Unit
- Gas Oil Hydro Desulphurisation Unit
- Gasoline Desulphurisation Unit (Prime G+)
- Hydrocracker
- Hydrogen Compression & Distribution System
- Hydrogen Plants
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- Integrated Gasification Combined Cycle Plant (IGCC)
- Motor Spirit Quality Upgradation
- Naphtha Hydrotreater
- Residue Upgradation
- (VGO-HDT, ATF, FCC LPG Merox)
- Sulfur Recovery Unit
- Vacuum Distillation Unit
- Vacuum Gas Oil Unit
- Visbreaker

Metallurgy
- Alumina Refinery
- Zinc Oxide
- Zinc Smelter

Inorganic Chemicals
- Aluminium Fluoride
- Chlorine Dioxide
- Poly Aluminium Chloride
- Potassium Carbonate
- Potassium Hydroxide
- Sodium Chlorate

Storages & Tank Farms
- Cryogenic Ammonia Storage Tanks
- LPG Storages

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

Caustic Soda-Chlorine
- Grassroots Caustic Soda Complexes
- Brownfield Caustic Soda Expansions
- Conversions to Membrane Cell Caustic Soda
- Caustic Potash
- Chlorine
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.
Bangladesh
Urea Synthesis; Urea Granulation

China
Caustic Soda - Chlorine;
Hydrogen Plant for Refinery

Myanmar
Nitric Acid / Weak Nitric Acid

Indonesia
Ethyl Benzene, Styrene Monomer; Hydrogen Peroxide

Malaysia
Ammonia / Ammonia - Urea; Aromatics Extraction;
Cryogenic Storages & Tank Farms; Spent Bleached Earth

Philippines
Propylene / Polypropylene

Taiwan
Bisphenol-A; Caustic Soda - Chlorine;
Cryogenic Storages & Tank Farms

Thailand
Ammonium Nitrate; Caustic Soda - Chlorine;
Cryogenic Storages & Tank Farms; Fatty Alcohol

Vietnam
NPK

Belgium
Ammonia / Ammonia-Urea; Aromatics Extraction;
Caustic Soda - Chlorine; PET

Czech Republic
Caustic Soda - Chlorine

Finland
Hydrogen Plant for Refinery

France
Caustic Soda - Chlorine; Gasification

Germany
Adipic Acid; Caustic Soda - Chlorine; Formaldehyde;
High Density Polyethylene / Low Density Polyethylene;

Greece
Nitric Acid / Weak Nitric Acid

Hungary
Cryogenic Storages & Tank Farms

Italy
Mild Hydrocracker

Lithuania
Cryogenic Storages & Tank Farms

Norway
Caustic Soda - Chlorine

Poland
Caustic Soda - Chlorine

The Netherlands
Urea Synthesis; Urea Granulation;
Ammonium Nitrate

Turkey
Calcium Nitrate Granulation;
Nitric / Weak Nitric Acid; Polyester Tyre Cord;
Triple Super Phosphate / Mono Ammonium Phosphate / Di-Ammonium Phosphate, NPK

United Kingdom
PET

Egypt
Ammonia / Ammonia-Urea; Caustic Soda - Chlorine;
Cryogenic Storages & Tank Farms; Nitric Acid / Weak Nitric Acid;
Propylene / Polypropylene

Iran
Caustic Soda - Chlorine;
Cryogenic Storages & Tank Farms

Israel
Hydrogen Peroxide

Jordan
Caustic Soda - Chlorine

Kuwait
Refinery Facilities

Oman
Ethylene Dichloride, Vinyl Chloride Monomer

Qatar
Ammonia / Ammonia-Urea; Caustic Soda - Chlorine;
Cryogenic Storages & Tank Farms;
Ethylene Dichloride, Vinyl Chloride Monomer;
High Density Polyethylene / Low Density Polyethylene;
Urea Formaldehyde Concentrate

Saudi Arabia
Ammonia / Ammonia-Urea; Benzene Mitigation;
Caustic Soda - Chlorine; Cryogenic Storages & Tank Farms;
Ethylene Dichloride, Vinyl Chloride Monomer;
Formaldehyde; n-Paraffin, Linear Alkyl Benzene;
OCT Feed Purification; Poly Butylene Terephthalate Resin;
Urea Formaldehyde Concentrate; Urea Synthesis,
Urea Granulation

UAE
Cement Plant; Urea Synthesis, Urea Granulation

Belarus
Hydrogen Plant for Refinery

Turkmenistan
Cryogenic Storages & Tank Farms;
Hydrogen Plant for Fertiliser Complex

Ukraine
Caustic Soda - Chlorine

RC CIS

RC APAC

RC Middle East

CIS

Europe

Asia Pacific (APAC)

Middle East

CIS
Our Experience & Projects

Fertilisers

We are amongst the leading EPC companies for the design and construction of fertiliser plants, including revamp of existing units. With contracts for the major fertiliser companies in India and abroad - some covering the world’s largest fertiliser complexes - and our ability to implement a wide range of Nitrogenous and Phosphatic Fertiliser projects, based on technologies from thyssenkrupp Industrial Solutions and other group companies / business partners, we are ideally placed to implement your fertiliser projects, either on LSTK or EPCM-services basis.
### Some of our major Nitrogenous Fertiliser projects:

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Products Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abu Qir Fertilizer Co., Egypt</td>
<td>Ammonia-Urea, Nitric Acid, Ammonium Nitrate*</td>
</tr>
<tr>
<td>Asean Bintulu Fertilizer, Malaysia</td>
<td>Ammonia-Urea (Revamp)</td>
</tr>
<tr>
<td>BAGFAS, Turkey</td>
<td>Nitric Acid, Ammonium Nitrate, Calcium Nitrate Granulation, Offsites &amp; Utilities*</td>
</tr>
<tr>
<td>BASF, Belgium</td>
<td>Ammonia*</td>
</tr>
<tr>
<td>Brunei Fertilizer Industries, Brunei</td>
<td>Ammonia-Urea*</td>
</tr>
<tr>
<td>CF Industries Holdings, USA</td>
<td>Ammonia, Urea, Nitric Acid, Urea Ammonium Nitrate, Urea Granulation*</td>
</tr>
<tr>
<td>Enaex, Chile</td>
<td>Weak Nitric Acid, Ammonium Nitrate*</td>
</tr>
<tr>
<td>Gujarat Narmada Valley Fertilizers, India</td>
<td>Nitric Acid, Weak Nitric Acid, Concentrated Nitric Acid, Calcium Ammonium Nitrate, Ammonium Nitrophosphate</td>
</tr>
<tr>
<td>Orascom Construction Industries, USA</td>
<td>Urea Ammonium Nitrate, Urea, Nitric Acid*</td>
</tr>
<tr>
<td>QAFCO, Qatar</td>
<td>Ammonia-Urea*, Urea Formaldehyde Concentrate</td>
</tr>
<tr>
<td>Rashtriya Chemicals &amp; Fertilizers, India</td>
<td>Weak Nitric Acid</td>
</tr>
<tr>
<td>SAFCO, Saudi Arabia</td>
<td>Ammonia-Urea*, Urea Formaldehyde Concentrate</td>
</tr>
<tr>
<td>SORFERT, Algeria</td>
<td>Ammonia-Urea*</td>
</tr>
<tr>
<td>Yara Sluiskil B. V., The Netherlands</td>
<td>Urea Synthesis*</td>
</tr>
</tbody>
</table>

### Some of our major Phosphatic Fertiliser projects:

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Products Offered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bunge Maroc Phosphore, (Incro cooperation) Morocco</td>
<td>Triple Super Phosphate, Mono Ammonium Phosphate, Di-Ammonium Phosphate</td>
</tr>
<tr>
<td>Coromandel International, India</td>
<td>NPK Complex, Urea-grade NPK, Phosphoric Acid</td>
</tr>
<tr>
<td>Deepak Fertilisers and Petrochemicals Corporation, India</td>
<td>NPK Granulation, Weak Nitric Acid, Prilled Ammonium Nitrate</td>
</tr>
<tr>
<td>ETI BAKIR, Turkey (Incro cooperation)</td>
<td>Di-Ammonium Phosphate / NPK</td>
</tr>
<tr>
<td>Godavari Fertilisers and Chemicals, India</td>
<td>Di-Ammonium Phosphate (Revamp)</td>
</tr>
<tr>
<td>Gujarat State Fertilizers &amp; Chemicals, India</td>
<td>Di-Ammonium Phosphate, Additional facilities for DAP-NPK plant</td>
</tr>
<tr>
<td>Petrovietnam Fertilizer and Chemicals, Vietnam</td>
<td>NPK plant</td>
</tr>
</tbody>
</table>

*Main Contractor thyssenkrupp Industrial Solutions*
Polymers, Petrochemicals & Organic Chemicals

With several major contracts dating back to the seventies and covering a wide range of chemicals, we are ideally placed to implement your Polymer, Plastic, Petrochemical and other Organic Chemical plants. Our specific experience in working with certain processes for a number of our reputed Clients, makes us the preferred partner for your Polymer and Petrochemical projects.
Some of our major Polymer, Petrochemical & Organic Chemical projects:

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

*Main Contractor thyssenkrupp Industrial Solutions
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:

<table>
<thead>
<tr>
<th>Company/Merger</th>
<th>Project Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BASF, Belgium</td>
<td>Benzene-Toluene Extraction Unit*</td>
</tr>
<tr>
<td>Bharat Petroleum Corporation</td>
<td>Naphtha Hydrotreater, Continuous Catalytic Regeneration Reformer</td>
</tr>
<tr>
<td>Mumbai</td>
<td>Continuous Catalytic Regeneration Reformer</td>
</tr>
<tr>
<td>Kochi (GR Engineering Cooperation)</td>
<td>Biomass to Liquid (Gasification)*</td>
</tr>
<tr>
<td>BioNext, France</td>
<td></td>
</tr>
<tr>
<td>Chennai Petroleum Corporation, Manali Refinery, India</td>
<td>Diesel Hydro Desulphurisation Unit (Revamp)</td>
</tr>
<tr>
<td>Indian Oil Corporation, India</td>
<td></td>
</tr>
<tr>
<td>Bongaigaon Refinery</td>
<td>Fractionation, Isomerisation Unit, Reformer Unit, Parex Unit - for Motor Spirit Quality Upgradation, Indmax Prime G Unit, Indmax Fluid Catalytic Cracking Unit, Gasoline Desulphurisation</td>
</tr>
<tr>
<td>Digboi Refinery</td>
<td>Naphtha &amp; Reformate Splitter, Isomerisation Unit - for Motor Spirit Quality Upgradation</td>
</tr>
<tr>
<td>Gujarat Refinery</td>
<td>VGO-HDT, ATF &amp; FCC LPG Merox for Motor Spirit Quality Upgradation / Residue Upgradation, Sulfur Recovery Unit (Petrofac, Sharjah cooperation), DHDS</td>
</tr>
<tr>
<td>Guwahati Refinery</td>
<td>Indmax Gasoline Splitter, Light Naphtha Splitter, Isomerisation Unit - for Motor Spirit Quality Upgradation</td>
</tr>
<tr>
<td>Panipat Refinery (L&amp;T cooperation)</td>
<td>Diesel Hydro Desulphurisation Unit</td>
</tr>
<tr>
<td>Paradip Refinery</td>
<td>DHDT, VGO-HDT, Hydrogen Compression &amp; Distribution System, Coker LPG Treatment Unit, BS VI Motor Spirit Quality Upgradation</td>
</tr>
<tr>
<td>Kuwait National Petroleum Corp., Kuwait (both with International Services WLL cooperation)</td>
<td>Enhancement of local marketing &amp; distribution services (Detailed Engineering), Hazop Studies</td>
</tr>
<tr>
<td>Mangalore Refinery and Petrochemicals, India</td>
<td>Visbreaker Unit (incl. Duplication), Crude Distillation Unit, Vacuum Distillation Unit, Gas Oil Hydro Desulphurisation Unit</td>
</tr>
<tr>
<td>Neste Oil Oyj, Finland</td>
<td>Hydrogen plant Reformer*</td>
</tr>
<tr>
<td>Praxair India, India</td>
<td>Hydrogen plant (for Indian Oil Corporation, Paradip Refinery)</td>
</tr>
<tr>
<td>Reliance Industries, India</td>
<td>Offsites &amp; Utilities Upgradation</td>
</tr>
<tr>
<td>Saras Refinery, Italy (Parsons cooperation)</td>
<td>Mild Hydrocracker Unit</td>
</tr>
<tr>
<td>Titan Petrochemicals, Malaysia</td>
<td>Aromatics Extraction plant*</td>
</tr>
</tbody>
</table>

*Main Contractor thyssenkrupp Industrial Solutions
Caustic Soda-Chlorine

With over 40 million tonnes of Caustic Soda produced annually from plants we have built, our Group remains the world leader for Electrolytic Membrane Cell Caustic Soda plants with approximately 50% of the installed capacities worldwide, and nearly 78% of domestic capacities.

Our portfolio includes the BM Electrolyser and the Bi-TAC technologies, and a variety of other technologies for the Caustic Soda-Chlorine sector.

Our state-of-the-art Generation V and VI ‘zero gap’ Membrane Cells offer a lower investment and operating expense outlay due to considerable energy savings, and a higher degree of reliability, safety and trouble-free operation.

Our new-generation NaCl ODC plants for the production of Caustic Soda using Oxygen Dipolarised Cathodes (ODC) technology offer as high as 30% savings in energy, a moot factor in investment considerations. Complementing our initiatives in this field, is the attractive solution we offer for the recovery of Chlorine from Hydrochloric Acid, in our HCl Electrolysis process plants.

With grassroot, capacity expansion, conversion and upgradation projects, we remain the only consultant to offer ‘under-one-roof’ solutions for Caustic Soda-Chlorine across the world.
Some of our major Caustic Soda-Chlorine projects in India:

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Project Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andhra Sugars</td>
<td>Capacity Expansion</td>
</tr>
<tr>
<td>Bihar Caustic &amp; Chemicals</td>
<td>Capacity Expansion</td>
</tr>
<tr>
<td>Chemplast Sanmar</td>
<td>Capacity Expansion</td>
</tr>
<tr>
<td>DCW</td>
<td>Expansion / Conversion to Membrane Cell</td>
</tr>
<tr>
<td>GACL - NALCO Alkalies &amp; Chemicals (GNAL)</td>
<td>Grassroot Complex</td>
</tr>
<tr>
<td>Grasim Industries / Aditya Birla Group</td>
<td>Grassroot Complex, Conversion to Membrane Cell, Capacity Expansion</td>
</tr>
<tr>
<td>Gujarat Alkalies and Chemicals</td>
<td>Conversion to Membrane Cell, Grassroot Complex, Capacity Expansion</td>
</tr>
<tr>
<td>Indian Rayon and Industries</td>
<td>Grassroot Complex, Capacity Expansion</td>
</tr>
<tr>
<td>Jayshree Chemicals</td>
<td>Conversion to Membrane Cell</td>
</tr>
<tr>
<td>Kutch Chemicals</td>
<td>Grassroot Complex</td>
</tr>
<tr>
<td>Kanoria Chemicals &amp; Industries</td>
<td>Grassroot Complex, Conversion to Membrane Cell, Capacity Expansion</td>
</tr>
<tr>
<td>K. P. R. Industries (India)</td>
<td>Grassroot Complex</td>
</tr>
<tr>
<td>Punjab Alkalies &amp; Chemicals</td>
<td>Grassroot Complex, Conversion to Membrane Cell, Capacity Expansion</td>
</tr>
<tr>
<td>Reliance Industries (IPCL)</td>
<td>Grassroot Complex</td>
</tr>
<tr>
<td>Search Chem Industries / United Phosphorus</td>
<td>Grassroot Complex / Relocation of Caustic Soda Complex</td>
</tr>
<tr>
<td>Sree Rayalaseema Alkalies &amp; Allied Chemicals</td>
<td>Capacity Expansion</td>
</tr>
</tbody>
</table>

Membrane Cell Caustic Soda-Chlorine Complex
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.

We offer Basic Engineering services for your Chlorine Dioxide plants.

We are also associated with large scale Zinc Smelting and Alumina Refining projects.
Some of our major Inorganic Chemical & Metallurgical projects:

<table>
<thead>
<tr>
<th>Project Description</th>
<th>Location</th>
<th>Product(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andhra Sugars, India</td>
<td>India</td>
<td>Polyaluminium Chloride</td>
</tr>
<tr>
<td>Brasali, Indonesia</td>
<td>Indonesia</td>
<td>Hydrogen Peroxide*</td>
</tr>
<tr>
<td>Gujarat Alkalies and Chemicals, India</td>
<td>India</td>
<td>Hydrogen Peroxide, Polyaluminium Chloride, Sodium Chlorate, Caustic Potash</td>
</tr>
<tr>
<td>Hindustan Organic Chemicals, India</td>
<td>India</td>
<td>Hydrogen Peroxide*</td>
</tr>
<tr>
<td>Hindustan Zinc, India</td>
<td>India</td>
<td>Zinc Smelter (incl. Duplication)</td>
</tr>
<tr>
<td>Insilco, India</td>
<td>India</td>
<td>Spray Dried Silica</td>
</tr>
<tr>
<td>Kanoria Chemicals &amp; Industries, India</td>
<td>India</td>
<td>Polyaluminium Chloride (Relocation)</td>
</tr>
<tr>
<td>MCW, Israel</td>
<td>Israel</td>
<td>Hydrogen Peroxide*</td>
</tr>
<tr>
<td>Namzinc, Namibia</td>
<td>Namibia</td>
<td>Zinc Refinery (Conversion)</td>
</tr>
<tr>
<td>NALCO, India</td>
<td>India</td>
<td>Alumina Refinery</td>
</tr>
<tr>
<td>Sirpur Paper Mills, India</td>
<td>India</td>
<td>Chlorine Dioxide</td>
</tr>
<tr>
<td>Utkal Alumina, India</td>
<td>India</td>
<td>Alumina Refinery (incl. Expansion)</td>
</tr>
<tr>
<td>Umicore Anandeya India, India</td>
<td>India</td>
<td>Zinc Oxide (Expansion)</td>
</tr>
<tr>
<td>West Coast Paper Mills, India</td>
<td>India</td>
<td>Chlorine Dioxide</td>
</tr>
</tbody>
</table>

*Main Contractor thyssenkrupp Industrial Solutions
Our initiatives in plant design and construction are complemented by the special attention that we pay to the storage installations in and around your chemical manufacturing facilities. Involving critical safety and design considerations to account for their low operating temperature and atmospheric pressure requirements, these chemicals very often constitute the feedstock for your chemical plants.

With over 100 Cryogenic installations and Tank Farms with associated facilities and cross-country pipelines in India and abroad, including some in the most challenging locations, and our state-of-the-art technology, we are easily one of the preferred partners for implementation of your storage requirements on LSTK basis. We have engineered and implemented Cryogenic Storages and Tank Farms for Ammonia, Benzene, LPG, Propylene, Ethylene etc. And in line with our single-point approach, we also undertake repair and restart projects.
Some of our major Cryogenic Storage & Tank Farm projects:

AB Achema, Lithuania*
Coromandel International, India
Deepak Fertilisers and Petrochemicals, India
EID Parry, India
Fertilizers & Chemicals Travancore (FACT), India
Formosa Chemicals and Fibre Corp., Taiwan
Gadavari Fertilisers and Chemicals, India
Gujarat State Fertilizers & Chemicals, India
Indian Farmers’ Fertilizer Cooperative (IFFCO), India
Indo Gulf Corporation, India
Krishak Bharati Coop. (KRBHCO), 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
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
Industrial Plants

In addition to our integrated design approach featuring specialised engineering services with appropriate validation for your Pharmaceutical projects, we also regularly undertake assignments for a variety of Industrial plants and Offsites / Utilities. Our experience covers such diverse assignments as Captive Power plants, Air Separation units and plants for Fatty Alcohol, Glycerine Distillation, Hydrogen - Nitrogen, Cement, Cosmetics, Ion and Polyester Resins, Water-borne Paints etc., as well as Offsites & Utilities for all mainstream chemical plants.
### Some of our major Pharmaceutical projects:

<table>
<thead>
<tr>
<th>Company</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agrevo India, India</td>
<td>Agrochemical plant</td>
</tr>
<tr>
<td>Colorcon Asia, India</td>
<td>Excipients facility</td>
</tr>
<tr>
<td>Madaus Pharmaceuticals, India</td>
<td>Agiolax Formulation plant</td>
</tr>
<tr>
<td>Torrent Gujarat Biotech, India</td>
<td>Penicillin G Formulation plant</td>
</tr>
<tr>
<td>US Vitamins, India</td>
<td>Bulk Drug plant</td>
</tr>
</tbody>
</table>

### Some of our major Industrial plants:

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

*Main Contractor thyssenkrupp Industrial Solutions*
Presence

Our presence at leading Chemical and allied industry trade fairs gives us the opportunity to showcase our capabilities to our customers and business associates. Our website www.thyssenkrupp-industrial-solutions-india.com is updated regularly for organisational developments and our press releases. We are a member of a number of key industry associations.
Giving back to the Industry

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.
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.

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.

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