

Linde Engineering Division in India



Linde Engineering Division in India.

The Linde Group

The Linde Group is a world-leading gases and engineering company with approximately 62,000 employees working in more than 100 countries worldwide. In the 2011 financial year it achieved sales of EUR 13.787 billion.

LEI's new office "Linde House" in Vadodara



Linde Engineering

Linde Engineering, a division of The Linde Group, is a leading worldwide technology partner for plant engineering and construction. Linde's global success is built on Linde's extensive process engineering expertise in the planning, project development and construction of turnkey industrial plants. With more than 1,000 process engineering patents and 4,000 completed plant projects, Linde ranks among the leading international plant contractors.

Linde Ingineering India Pvt. Ltd. (LEI)

Linde Engineering India Pvt. Ltd. (LEI) was established in 1987 with its Indian operation head office in the city of Vadodara. LEI has grown over the years to develop a talent pool of over 870 employees. A 100% subsidiary of Linde Engineering, LEI has integral access to Linde Engineering's technology and project execution know-how.

130 years of Linde's Engineering excellence substantiates LEI's capabilities in delivering engineering, procurement and construction services for major market segments such as:

- Petrochemical plants
- LNG and natural gas processing plants
- Synthesis gas plants
- Hydrogen plants
- Gas processing plants
- Adsorption plants
- Air separation plants
- Cryogenic plants
- Furnaces for petrochemical plants and refineries

LEI has credibility in rendering:

- Sulphur recovery plants
- Refinery process plants
- Off-site and utilities plants including large storage tanks
- CO₂ removal/recovery plants

Having acquired strategic alliance with other group companies, LEI has ventured to provide lump-sum turnkey (LSTK) services for pharmaceutical and biotech plants, and for thermal energy storage for solar power. LEI also provides engineering consulting services for plant revamps and other brownfield projects.

Through the integration of Linde Engineering's global procurement and construction expertise, LEI is able to complete projects with tight time-frames and provide customers with a range of services, even in challenging work environments. Linde Engineering India Pvt. Ltd. has been successfully certified for the combined requirements of ISO 9001, ISO 14001 and OHSAS 18001.

Key projects executed in India on a LSTK basis:

- State-of-the-art engineering for the world's larget pure hydrogen complex at the Reliance Jamnagar refinery with 8 HGU trains for a total capacity of 672,000 Nm³/h
- 27,000 Nm³/h hydrogen plant at the IOCL refinery Barauni

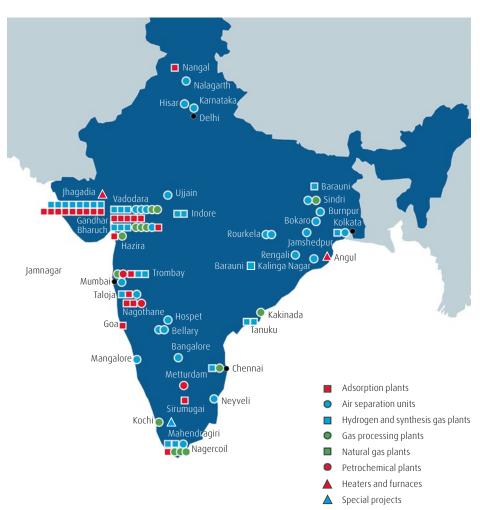


- Argon recovery plant with 7,000 Nm³/h feed-gas capacity for KRIBHCO in Hazira
- 600 TPD methanol plant revamp for GNFC in Bharuch
- Spent caustic treatment plant with a capacity of 240 m³/day for the IOCL refinery in Vadodara
- 1250 TPD oxygen plant for Bokaro Steel
- EPCC for process and utility facility at the topside and inside cavern of the crude oil strategic storage project, in Padur, Karnataka, by Indian Strategic Petroleum Reserves Ltd. (ISPRL)
- 1.1 MTPA ethylene cracking furnaces (8-Nos) along with DFCU & AU for ONGC Petro Addition Ltd. (OPaL) in Dahej, Gujarat
- Sulphur recovery unit for HPCL in Mumbai
- EPC contract for the thermal energy storage system for Cargo Solar Power Gujarat Pvt. Ltd., Gujarat
- 157 MW reducing gas heater in Angul, Orissa
- 7.02 MW CS2 furnace for United Phosphorus Ltd. (UPL) in Jhagadia, Gujarat
- Integrated fluid service system for C-25 thrust cryogenic engine test facility for LPSC-ISRO in Mahendragiri
- Establishment of a fluid system for a cold test facility for LPSC-ISRO in Mahendragiri
- 2000 Nm³/h hydrogen generation plant for Linde Gas (BOCI) in Sullurupeta, Andhra Pradesh
- 1500 Nm³/h hydrogen plant for M/s. Adani Wilmar Ltd. in Mundra, Gujarat

With proven and matching engineering capabilities, LEI is a global engineering partner for Linde AG and its other worldwide subsidiaries. LEI has successfully shared part of the project scope and responsibility for the following global projects:

- 2 x 250 KTA polypropylene plant in Russia
- 1,500 KTA ethylene plant in UAE
- 3.12 million Nm³/h feed gas flow and CO₂ wash unit in Abu Dhabi, UAE
- 175 TPD LNG plant in Australia
- 12,000 Nm³/h CO and 29,180 Nm³/h H₂
 HYCO plants in Hungary
- 18,800 Nm³/h H₂, 700 Nm³/h GCO and 500 Nm³/h LCO HCO plants in China
- 50,000 Nm³/h hydrogen plant in Germany
- 46,700 Nm³/h hydrogen plant in Chile
- 23,000 Nm³/h hydrogen plant in Netherlands
- 20,000 Nm³/h hydrogen plant in Germany
- 20,000 Nm³/h hydrogen plant in Taiwan
- 18,500 Nm³/h hydrogen plant in Madagascar
- 250 KTA acrylic acid plant in Saudi Arabia
- 91,000 Nm³/h H₂, 21,000 Nm³/h CO
 HyCO plant
- 615 TPD ammonia in Saudi Arabia
- 1500 KTA ethylene plant in Russia
- 1840 TPD LNG plant in Malaysia
- 37.5 KTA linear alpha olefins plant in Russia





Designing processes – constructing plants.

Linde's Engineering Division continuously develops extensive process engineering know-how for the planning, project management and construction of turnkey industrial plants.

The range of products comprises:

- Petrochemical plants
- LNG and natural gas processing plants
- Synthesis gas plants
- Hydrogen plants
- Gas processing plants
- Adsorption plants
- Air separation plants
- Cryogenic plants
- Biotechnology plants
- Furnaces for petrochemical plants and refineries

The Engineering Division and its subsidiaries manufacture:

- Packaged units, cold boxes
- Coil-wound heat exchangers
- Plate-fin heat exchangers
- Cryogenic standard tanks
- Air-heated vaporizers
- Spiral-welded aluminium pipes

More than 4,000 plants worldwide document the leading position of the Engineering Division in international plant construction.

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