

A JOINT VENTURE OF ISGEC HEAVY ENGINEERING LTD., INDIA AND HITACHI ZOSEN CORP., JAPAN

# **Process** Equipment

Specialised & Critical Process Equipment for the Refineries, Fertilizer, Petrochemical & GTL Industries

Reform Gas Waste Heat Boiler for an Indian Fertiliser Plant (Proprietary Equipment)





Hitz Hitachi Zosen Isgec Hitachi Zosen Ltd. is a joint venture company set up to cater to the specialised & critical Process Equipment requirements of Refineries, Fertilizer, Petrochemical & GTL industries, across the world.

Located at the port town of Dahej (Gujarat), on the west coast of India, the venture is backed by two established and experienced companies - Isgec Heavy Engineering Ltd. from India, and Hitachi Zosen Corp. from Japan.

Isgec has a history of 85<sup>+</sup> years and is a diversified heavy engineering company with interests in Process Equipment, EPC Power Plants, Boilers, Sugar Plants & Machinery, Mechanical & Hydraulic Presses, Castings, Metal Cutting Machinery and Contract Manufacturing.

Hitachi Zosen is a 135-year-old company, based out of Osaka, Japan with interests in Process Equipment, Environmental Systems, Industrial Plants, Industrial Machinery, Precision Machinery, Steel Structure, Construction Machinery, and Disaster Prevention Systems.

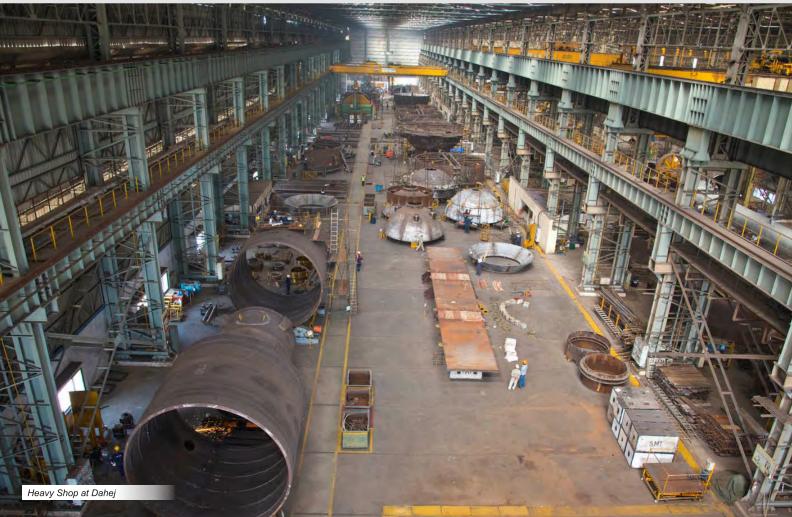
The joint venture brings together state-of-the-art technical & engineering skills of Hitachi Zosen and the manufacturing expertise of lsgec.

The joint venture, which is manned by personnel from India and Japan, is actively supported by both Isgec and Hitachi Zosen, in all its activities, including design & marketing, manufacturing & project management.



#### MATERIALS

Cr-Mo-V Steels • 21/4Cr-1Mo • 11/4Cr-1/2Mo • Stainless Steels • Duplex Stainless Steels • Inconel • Titanium • Cr-Ni-Mo • Urea Grade Material



#### APPROVALS

Air Product

Scientific Design

• PDIL

• EIL

• BP

• UOP

• AXENS

INEOS

Thyssenkrupp

- KBR
- Chevron Lummus Global
- Haldor Topsoe
- Toyo
- Shell
- Lummus Technology
- Wood
- Total
- Sasol
- Exxon Mobil

### INFRASTRUCTURE

- Rolling Capacity 250 mm in cold condition
- Multi-Wall construction type vessels
- Linear Accelerator for Radiography
- · Grit Blasting and Painting Room
- Horizontal Boring Machine
- Inner Bore Welding
- ESSC Strip Cladding
- Modular Fabrication Shop for over dimensional equipment manufacturing
- Intermediate Tube to Tube Sheet joint expansion
- Ro-Ro Jetty for Ocean Transportation
- · Automatic Tube to Tube Sheet Welding
- Deep Hole Gun Drill machine (up to 1000 mm depth)
- VTL
- Single Piece Equipment Handling Capacity (Inside Shop): 2400 MT & 14 M Diameter

#### ACCREDITATIONS

- ASME 'S' 'U' 'U-2' & 'U-3' Stamps
- National Board, USA 'R' Symbol
- National Board, USA 'NB' Mark
- Chief Inspector of Boilers (CIB)
- ISO 9001 : 2015 Approval by Lloyds Register of Quality Assurance
- ISO 45001 : 2018
- ISO 14001 : 2015
- OHSAS 18001 : 2007
- Ad Merk Blatter
- CE Marking
- GOST



Cr-Mo-V Reactor for an European Refinery

HTAS technology Ammonia Converter Shell for a Fertiliser Plant



#### SOME OF OUR PRESTIGIOUS CLIENTS

Air Product-USA Adnoc Fertilisers, Abudhabi Bharat Petroleum Corp. Ltd., India Belco Technologies, USA Braskem Idesa, Mexico Chambal Fertilisers, India Chennai Petroleum Corp. Ltd., India Dyno Nobel, USA Engineers India Ltd., India GNFC, India GSFC-India HURL, India Indian Oil Corporation, India IFFCO, India JGC, Japan KBR KIMA-Egypt KNPC, Kuwait Linde, Germany

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MHI, Japan NFL, India ORPIC, Oman PDO, Oman Petrokimia, Gresik, Indonesia Petrofac, UAE Reliance Industries, India RFCL, India Saipem, Italy Saudi Aramco Sonatrach, Algeria Thai Oil, Thailand Toyo Engineering, Japan Total, France Technip Energies Tecnicas Reunidas, Spain Yara, Australia YPFB, Bolivia

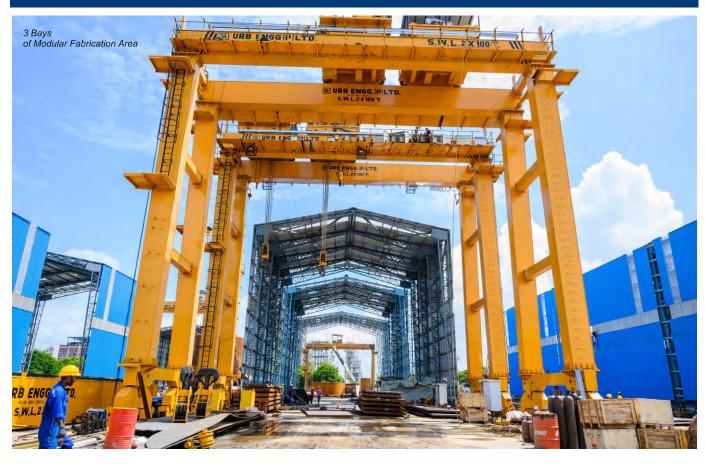




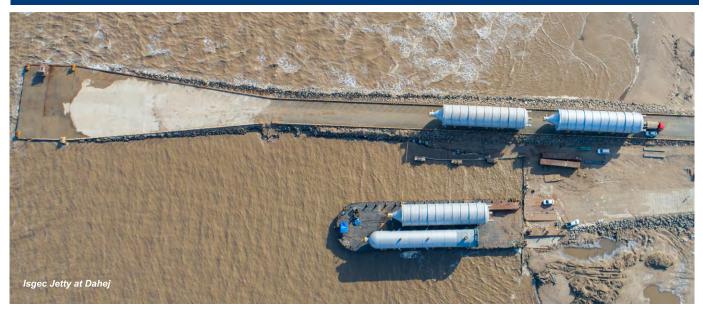
Cr-Mo-V Reactor for an Indian Refinery

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## **Modular Fabrication Area**



## **Shipping Facility**







#### **TESTING FACILITIES**

- NABL Approved Lab
- Radiography up to 300 mm Thickness
- Helium Leak Testing
- Mechanised Ultrasonic Testing / TOFD
- Positive Material Identification (PMI)
- Impact Testing up to -196°C (-321°F)
- Tensile Testing
- IGC Testing
- Theodolite System
- · Hardness Testing
- Magnetic Particle Testing
- Dye Penetrant Testing
- TOFD / PAUT
- Chemical Testing
- Tube to Tube Sheet Joints RT & UT
- Hydro Test

Urea Stripper



Automatic Tube to Tube Sheet Welding in EO Reactor





Cold Rolling upto 250 mm

Shrink fitting of Multi-Wall type Vessels









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IHZL/PE/1021/06/Dtp

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