ISGEC Hitachi Zosen Limited

A JIINT VENTURE OF
sgec heavy engineering Ltd., india Hitachi Zasen Carp., Japan

## Process Equipment

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


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 $85^{+}$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 Isgec.

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.


|  | PRODUCTS |  |
| :--- | :--- | :---: |
| - Tubular Reactors | • Gas Heat Exchangers |  |
| - Ammonia Converters | - Reactor Internals |  |
| - Ammonia Converter (Internals) | - Insitu Modification \& Repair |  |
| - Hydroprocessing Reactors | for Critical Equipment |  |
| - Urea Reactors | - Spliter and Fractanator Columns |  |
| - Urea Strippers | - CCR Reactors |  |
| - Carbamate Condensers | - Coke Drums |  |
| - Reform Gas Waste Heat Boiler | - Tertiary Separators |  |
| - Steam Superheater | - Feed Gas Dryers |  |
| - Site Fabricated Equipment | - GTL Reactors |  |

MATERIALS
Cr-Mo-V Steels • $21 / 4 \mathrm{Cr}-1 \mathrm{Mo} \cdot 11 / 4 \mathrm{Cr}-1 / 2 \mathrm{Mo} \cdot$ Stainless Steels • Duplex Stainless Steels •Inconel • Titanium •Cr-Ni-Mo •Urea Grade Material


## APPROVALS

- 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



SOME OF OUR PRESTIGIOUS CLIENTS

| Air Product-USA | GNFC, India | MHI, Japan | Saudi Aramco |
| :---: | :---: | :---: | :---: |
| Adnoc Fertilisers, Abudhabi | GSFC-India | NFL, India | Sonatrach, Algeria |
| Bharat Petroleum Corp, Ltd., India | HURL, India | ORPIC, Oman | Thai Oil, Thailand |
| Belco Technologies, USA | Indian Oil Corporation, India | PDO, Oman | Toyo Engineering, Japan |
| Braskem Idesa, Mexico | IFFCO, India | Petrokimia, Gresik, Indonesia | Total, France |
| Chambal Fertilisers, India | JGC, Japan | Petrofac, UAE | Technip Energies |
| Chennai Petroleum Corp. Ltd., India | KBR | KIMA-Egypt | Reliance Industries, India | Tecnicas Reunidas, Spain



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 $-196^{\circ} \mathrm{C}\left(-321^{\circ} \mathrm{F}\right)$
- 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


Automatic Tube to Tube Sheet Welding in EO Reactor


Cold Rolling upto 250 mm




Contact:
T. Terai E-mail: terai@hitachizosen.co.jp

E-mail: shalabh@isgec.com
www.isgechitachizosen.com
Works
Dahej (Port Town) Gujarat, India

