# Process Equipment

*Breech Lock Closure Type Heat Exchanger for a Refinery in India*

*Absorber Column for a Refinery in Kuwait*

ENGINEERING FOR EXCELLENCE

ISGEC
PROCESS EQUIPMENT

Isgec Heavy Engineering Ltd, is a multi-product, multi-location public company that has been providing engineering solutions to customers located in 87 countries across 6 continents, over the past 80+ years.

## PRODUCT RANGE

For Process Industry (Refinery, Petrochemical, Fertilizer)

- High Pressure Shell & Tube Heat Exchangers in:
  - Low Alloy Steel
  - Duplex & Super Duplex Steels
  - Inconel
  - Stainless Steels
  - Cupro Nickel
  - Brass
- Helix Heat Exchangers
- Carbamate Condensers
- Breech-Lock Type High Pressure Heat Exchangers

For Power Plants

- HP Feed Water Heaters
- LP Feed Water Heaters
- Water Cooled Surface Condensers
- Boiler Drums

*Carbamate Condenser*

*Boiler Drum*

*Silicon Guard Bed Reactor for Shell, Singapore*

*HP Heat Exchanger supplied to Shell, Philippines*

*Low Alloy Steel Vessel for Refinery*

*HP Feed Water Heater for Nuclear Power Plant*

*SS Heat Exchanger for Shell, USA*

## STRATEGIC PARTNERSHIPS

- **Amec Foster Wheeler, Spain**: Licensing Agreement for HP & LP Feedwater Heaters & Condensers.
- **TEI (Struthers Wells, USA)**: Licensing Agreement for manufacture of Breech Lock Closure Type Heat Exchangers, Waste Heat Recovery Boilers, Sulphur Condensers, Solar Thermal Heat Exchangers.
- **Lummus Heat Transfer, USA**: Technology backup for Helix Heat Exchangers.

## ACCREDITATIONS

- ASME 'S' 'U' & 'U-2' 'N' & 'NPT' Stamps
- National Board, USA 'R' Symbol
- National Board, USA 'NB' Mark
- Chief Inspector of Boilers (CIB)
- ISO 9001 : 2008
- ISO 14001 : 2004
- OHSAS 18001 : 2007
- CE Marking

*Ammonia Preheater for IFFCO, India*

ISGEC Hitachi Zosen Limited

Joint Venture with Hitachi Zosen Corp., Japan for the manufacture of Specialised & Critical Process Equipment for Refineries, Fertilizer, Petrochemical & GTL Industries, across the world. The plant is located at Dahej, Gujarat, India.

ISGEC TITAN Metal Fabricators

Joint venture with TITAN Metal Fabricators, Camarillo, CA USA to manufacture corrosion-resistant process equipment and provide the next generation of reactive alloy equipment to global customers in the Chemical, Petro Chemical, Oil & Gas, Fertilizer, Mining, Power Generation, Pharmaceutical, and Steel Manufacturing industries.

## SOME OF OUR PRESTIGIOUS CLIENTS

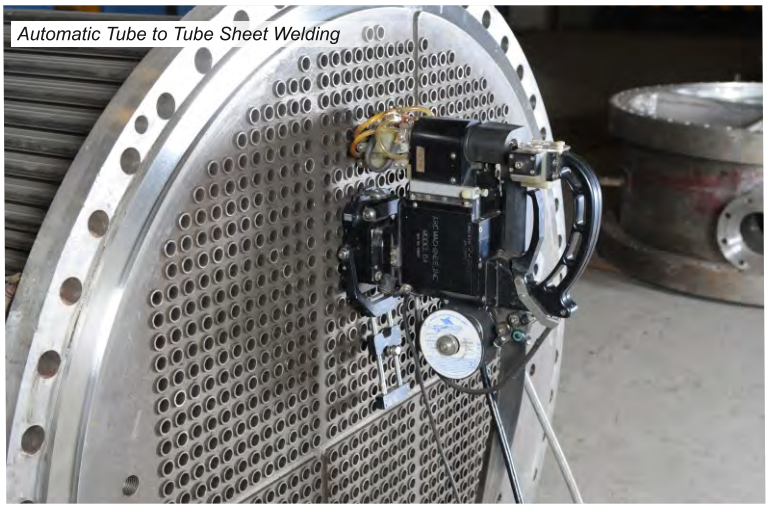
| | |
|---|---|
| Shell | Indian Oil Corporation Ltd., India |
| Braskem Idesa Servicios, Mexico | Reliance Industries Ltd., India |
| Burrup Fertilizer, Australia | Engineers India Ltd., India |
| Canada Natural Resources, Canada | JGC, Japan |
| Amec Foster Wheeler, China | Samsung, Korea |
| Amec Foster Wheeler, USA | Daelim, Korea |
| GASCO, UAE | Bharat Petroleum Corp. Ltd., India |
| Iowa Fertilizer Company, USA | Brahmaputra Fertilizer, India |
| Linde, Germany | Chambal Fertilizers & Chemicals Ltd., India |
| Lurgi, Germany | Chennai Petroleum Corp. Ltd., India |
| Maire Tecnimont, Italy | GNFC Ltd., India |
| Saipem, Italy | Gujarat State Fertilizers & Chemicals Ltd., India |
| Technip Abu Dhabi, UAE | Hindustan Petroleum Corp. Ltd., India |
| Technip, Italy & France | IFFCO Ltd., India |
| Petrofac, UAE | Kribhco Ltd., India |
| Qatar Petroleum, Qatar | National Fertilizers Ltd., India |
| SABIC | Nuclear Power Corporation of India Ltd., India |
| Tecnicas Reunidas, Spain | PDIL, India |
| Total, France | Rashtriya Chemicals & Fertilizers Ltd., India |
| Air Liquide, USA | Siemens Ltd., India |
| British Petroleum | Toshiba India Pvt. Ltd., India |
| PDO, Oman | ThyssenKrupp Uhde, India |
| Toyo, Japan | GEA Process Engg., India |
| CB & I | Casale |

## APPROVALS

| | | | |
|---|---|---|---|
| • ADCO | • EIL | • Qatar Gas | • KNPC |
| • ADMA | • Amec Foster Wheeler | • QP | • Fluor |
| • Air Liquide | • GASCO | • SABIC | • Technip |
| • Bechtel | • HTAS | • Saipem | • Toshiba |
| • BP | • KBR | • Sasol | • Total |
| • Casale | • NTPC | • Shell | • Toyo |
| • CB & I Lummus | • Nuclear Power Corp. of India | • Takreer | • UOP |

## TESTING FACILITIES

- Radiography
- Helium Leak Testing
- PAUT / TOFD
- Positive Material Identification (PMI)
- Impact Testing up to -196°C (-321°F)
- Tensile Testing
- IGC Testing
- Hardness Testing
- Magnetic Particle Testing
- Dye Penetrant Testing
- Ferritoscope


*Automatic Tube to Tube Sheet Welding*

*Multi Spindle Drill Machine*

*Water Jet Cutting Machine*

*Deep Hole Drilling Machine*

*Bundle Insertion Machine*

## OTHER ISGEC OFFERINGS

**EPC Projects • Boilers • Sugar Plants & Machinery • Air Pollution Control Equipment**
**Presses • Castings • Metal Cutting Machinery • Contract Manufacturing**

ISGEC HEAVY ENGINEERING LTD.

**Marketing**
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