



A JOINT VENTURE OF
ISGEC HEAVY ENGINEERING LTD., INDIA
AND
KANADEVIA (ERSTWHILE HITACHI ZOSSEN CORP), JAPAN

Process Equipment

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



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



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 Kanadevia (erstwhile Hitachi Zosen Corp), Japan.

Isgec has a history of 92+ 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.

Kanadevia is a 144-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 Kanadevia 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 Kanadevia, in all its activities, including design & marketing, manufacturing & project management.



Plant at the port town of Dahej (Gujarat), India

PRODUCTS

- | | |
|------------------------------------|---|
| • Tubular Reactors | • CCR Reactors |
| • Ammonia Converters | • Coke Drums |
| • Ammonia Converter (Internals) | • Insitu Modification & Repair for Critical Equipment |
| • Hydroprocessing Reactors | • Tertiary Separators for FCC |
| • Urea Reactors | • Feed Gas Dryers |
| • Urea Strippers | • GTL Reactors |
| • Carbamate Condensers | • Adsorber Column (WNA) |
| • Reform Gas Waste Heat Boiler | • Polysilicon Reactor |
| • Steam Superheater | • IPA Reactors |
| • Site Fabricated Equipment | • PTA Reactors |
| • Gas Heat Exchangers | • SS (Stainless Steel) and Duplex SS (Duplex Stainless Steel) Vessels |
| • Reactor Internals | |
| • Splitter and Fractionator Column | |

MATERIALS

Cr-Mo-V Steels • 2¼Cr-1Mo • 1¼Cr-1/2Mo • Stainless Steels • Duplex SS • Urea Grade SS • Inconel • Incoloy • Titanium



Heavy Shop at Dahej

APPROVALS

- KBR
- Chevron Lummus Global
- Topsoe
- Toyo
- Shell
- Lummus Technology
- Wood
- Total
- Sasol
- Exxon Mobil
- Air Product
- PDIL
- EIL
- BP
- Scientific Design
- UOP
- AXENS
- INEOS
- Thyseenkrupp
- Marathon
- Burns & McDonnell
- Petrobras
- Casale

INFRASTRUCTURE

- Rolling Capacity - 250 mm in cold condition
- Multi-Wall construction (34mm x 7 layer, 91mm x 3 layers)
- Linear Accelerator for Radiography (6MeV & 9 MeV)
- Grit Blasting and Painting Room
- Horizontal Boring Machine
- Inner Bore Welding
- ESSC Strip Cladding (90 mm & 120 mm wide)
- 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 (Dia -10 m, Bed capacity 300 MT, Height 4.5 m)
- Single Piece Equipment Handling Capacity (Inside Shop):
- 2400 MT & 14 M Diameter

ACCREDITATIONS

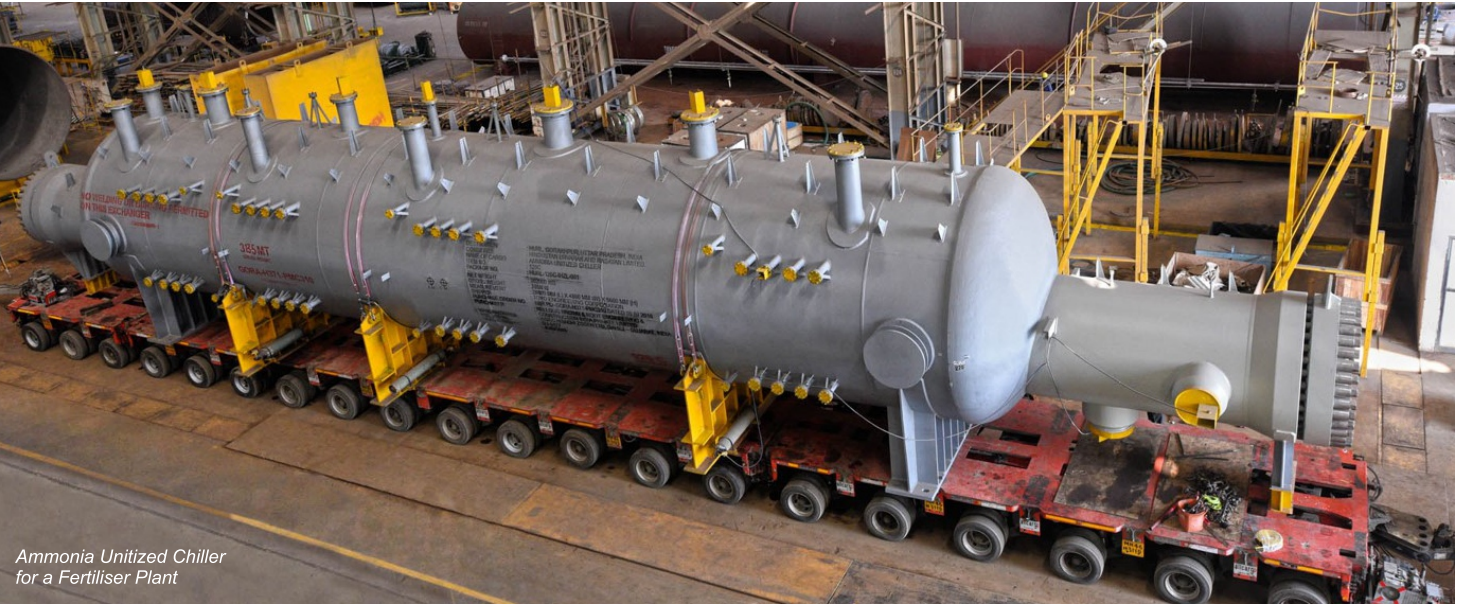
- ASME 'S' 'U' 'U-2' & 'U-3' Stamps
- National Board, USA 'R' Symbol
- National Board, USA 'NB' Mark
- Chief Inspector of Boilers (CIB)
- ISO 9001 : 2015 Approval by Lloyds Register of Quality Assurance
- ISO 45001 : 2018
- ISO 14001 : 2015
- ISO 3834-2 Welding Quality Management
- Ad Merk Blatter
- CE Marking
- GOST/IBR/PESO/SELO/KGS



Cr-Mo-V Reactor for an European Refinery

HTAS technology Ammonia Converter Shell for a Fertiliser Plant





Ammonia Unitized Chiller
for a Fertiliser Plant

SOME OF OUR PRESTIGIOUS CLIENTS

Adnoc Fertilisers, Abudhabi	GNFC, India	MHI, Japan	Saudi Aramco
Air Product-USA	GSFC-India	NFL, India	Sonatrach, Algeria
ASTRON Energy (Glencore)	HURL, India	ORPIC, Oman	Technip Energies
Belco Technologies, USA	Indian Oil Corporation, India	PDO, Oman	Tecnicas Reunidas, Spain
Bharat Petroleum Corp. Ltd., India	IFFCO, India	Petrobras	Thai Oil, Thailand
Braskem Idesa, Mexico	JGC, Japan	Petrokimia, Gresik, Indonesia	Thyssenkrupp Udhe
Chambal Fertilisers, India	KBR	Petrofac, UAE	Topsoe
Chennai Petroleum Corp. Ltd., India	KIMA-Egypt	Reliance Industries, India	Total, France
Dyno Nobel, USA	KNPC, Kuwait	RFCL, India	Toyo Engineering, Japan
Engineers India Ltd., India	Linde, Germany	Saipem, Italy	Yara, Australia
			YPFB, Bolivia



105 Mtr. Long
Ethylene Fractionator



Coke Drum (Dia 9600 mm)
for an Indian Refinery



NRL FC-Fining Reactor

Urea Stripper



Urea Reactor



Ammonia Converter



Steam Superheater
for an Indian Fertiliser Plant



Modular Fabrication Area



3 Bays of Modular Fabrication Area

L - 140 m

W - 18 m

H - 16.5 m

Lifting Capacity - 400 MT

TESTING FACILITIES

- NABL Approved Lab
- Radiography up to 450 mm Thickness
- Helium Leak Testing
- Mechanised Ultrasonic Testing(Recordable)
- TOFD / PAUT
- Positive Material Identification (PMI)
- Impact Testing up to -196°C (-321°F)
- Tensile Testing (65°C)
- IGC Testing
- Theodolite System
- Hardness Testing
- Magnetic Particle Testing
- Dye Penetrant Testing
- Chemical Testing (Spectrometer)
- Tube to Tube Sheet Joints RT & UT
- Hydro Test (upto 600 Bar)



Automatic Tube to Tube Sheet Welding in EO Reactor

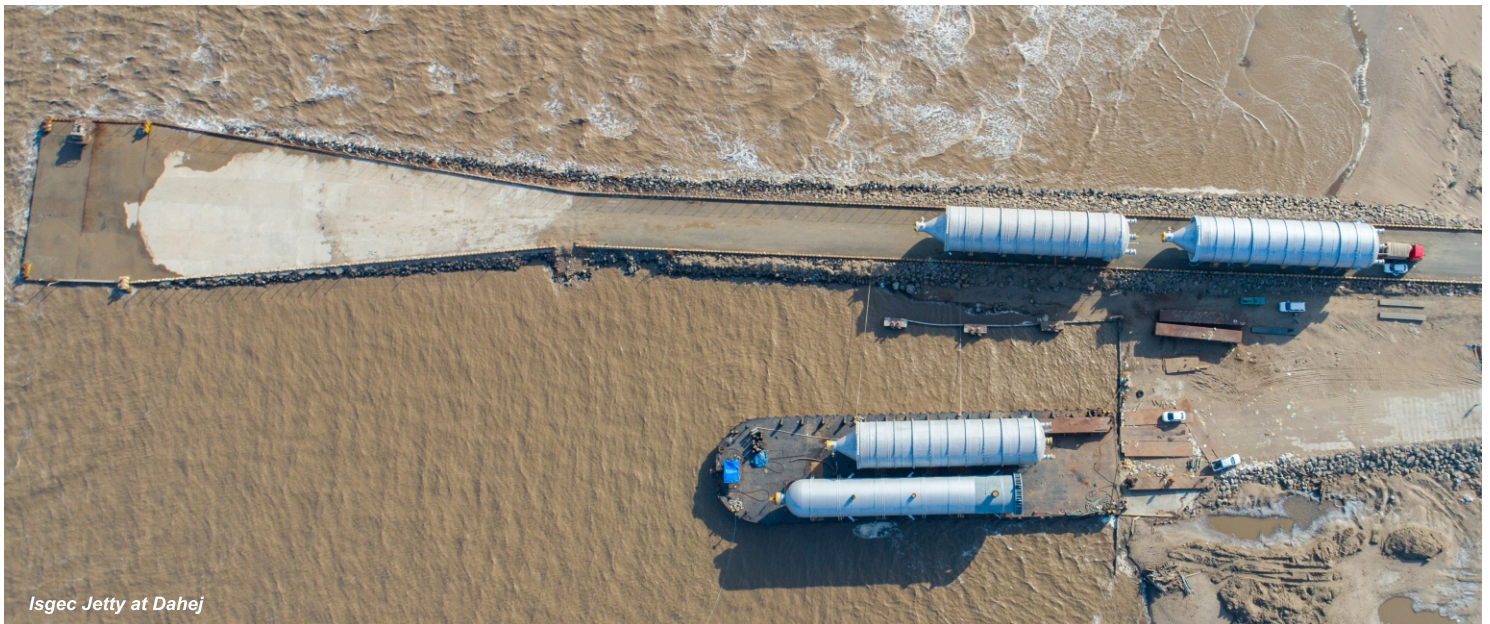


Cold Rolling upto 250 mm



Shrink fitting of Multi-Wall type Vessels

Shipping Facility



Isgec Jetty at Dahej



Marketing

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Works

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