



IJT BOILERS

Oil & Gas Fired Boilers

(Field Assembled & Package)

*2 x 100 TPH, 102 kg/sq.cm, 311 Deg. C
at Petrobras, Brazil*



BPCL

GAIL

CPCL

NTPC

TATA

ENGINEERING FOR EXCELLENCE



90⁺ Oil & Gas Fired Boilers

across the Globe

Salient Features

:: Large Drums

- increased water holding capacity for maximum system availability
- operational stability during boiler ramping



:: Efficient Internals

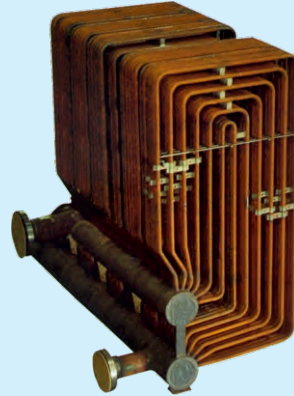
- avoids water carryover
- ensures high steam purity



Bank Tube being assembled

:: Serrated Tube-to-Drum Connections

- minimise draft losses
- reduced power consumption
- provides ease of cleaning & inspection



:: Convective / Drainable Superheaters

- helps in faster boiler start up
- avoids corrosion during shut down

Fuel Flexibility: Natural Gas, LPG, Fuel Oil, Biogas, Refinery Gas, Blast Furnace

143 TPH, 40 kg/sq.cm.g, 390 Deg C
Oil / Natural Gas Fired Boiler supplied to
BPCL, Kochi Refinery, Kochi



100 TPH, 50 Kg/sq.cm.g, 430 Deg. C,
HFO / Natural Gas fired Boiler supplied to
Chennai Petroleum Corporation Ltd., Chennai, India



Steam Capacity

20 to 400 tons / hr (44,000 to 8,85,000 lbs/hr)

Pressure

upto 125 kg. / sq.cm. (g)

Temperature

Saturation 540 deg. C (1004 deg. F)

:: Monowall Construction

- minimises refractory
- minimises maintenance
- provides gas-tight enclosure
- helps in achieving increased thermal efficiency

:: High Circulation Ratio

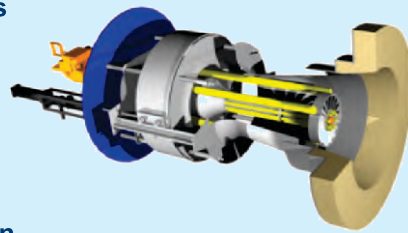
:: Eco Friendly Low Nox Burners

:: Multi Fuel Fired Burners

:: Operational Flexibility

:: Forced / Balanced Draft Design

:: Easy Maintenance



Remote Monitoring System (RMS)



- Unique facility to link up with existing DCS of Boiler, Power Plant installations anywhere in the world to monitor operation and provide online solutions to customers.
- All Boiler, Power Plant parameters can be monitored and controlled (if required) through RMS
- RMS facility is located at one of our design offices at Noida, India, where entire back-end team is available on call.
- This service can be offered to all customers irrespective of their plant size, capacity etc.
- Clarifications and suggestions shall be offered to our customers as and when required for safe and efficient operation of the plant.

Gas, LDO, HFO, CO Gas, LNG, Naptha, Synthetic Gas, LSHS, LSVR, Kerosene

Package Boilers 5000 Series



77 TPH Package Boiler being despatched for installation at Longview, Madsville, West Virginia, USA

A Licensee of
**Sumitomo SHI
FW Energia
Oy, Finland**

Steam Capacity

20 to 260 tons / hr (44,000 to 5,75,000 lbs/hr)

Pressure

upto 125 kg. / sq.cm. (g)

Temperature

Saturation 540 deg. C (1004 deg. F)

A Few Recent References

Customer / Site	TPH	kg/sq.cm.(g)	Deg.C	Fuels
Bharat Petroleum Corporation Ltd., Kochi Refinery, India	2 x 250	105	508	Oil / Gas
Bharat Oman Refineries Ltd., Bina Refinery, India	190	40	410	Oil / Gas
Gas Authority of India Ltd., India	2 x 170	106	510	Natural Gas
National Fertilizers Ltd., India	140	93.5	515	Oil
Waraq Paper, Saudi Arabia	3 x 115	85	515	Natural Gas / Light Crude Oil
Petroquimica Suape (Petrobras), Brazil	2 x 100	102	311	Natural Gas / Fuel Oil / Biogas
Chennai Petroleum Corpn. Ltd., India	100	50	430	Oil / Refinery Gas
City Sugar Industries Ltd., Bangladesh	90	35	390	Natural Gas
Techno Prom Exports, Russia (NTPC Barh), India	80	19	215	LDO
Doosan (NTPC Kudgi), India	72	19	250	LDO
Adani Power Rajasthan Ltd., India	60	13	350	LDO
Mukand Limited, India	55	67	485	BFG/HFO
Tata Metalliks , India	22	43	455	BFG/LDO

Isgec Offerings

STEAM GENERATORS

- Pulverised Coal Fired (PC)
- Circulating Fluidised Bed Combustion (CFBC)
- Atmospheric Fluidised Bed Combustion (AFBC)
- Travelling / Pulsating / Pinhole / Dumping Grate
- Oil & Gas Fired
- Heat Recovery Steam Generators
- Waste to Energy
- Waste Heat Recovery
- Slop / Spent Wash / Vinasse Fired

AUXILIARY EQUIPMENT *

- Air Pollution Controller (ESP)
- Deaerator / Fans
- Valves
- Electricals & Instrumentations
- Burner
- Bed Ash Coolers
- DCS
- Feeders
- Pumps

STEAM GENERATOR SERVICES

- Site Construction & Commissioning
- Retrofitting and Modernisation
- Replacement / Upgradation of Parts
- Troubleshooting & Services
- Residual Life Assessment (RLA) Studies
- Training
- Spares
- Operation & Maintenance

EPC PROJECTS

- Independent Power Plants
- Cogeneration Plants
- Sugar Plants
- Bulk Material Handling
- Water Treatment Plants
- Distilleries
- Civil Construction including Factories
- Waste Water Treatment Equipment

* Only available with the Boiler

**Feed Cycle Equipment (HP Heater, LP Heater & Condenser)
Process Equipment • Presses • Castings • Contract Manufacturing**



**ISGEC HEAVY
ENGINEERING LTD.**

A-4, Sector 24, Noida - 201 301 India
Tel.: +91-98102 56166, 98105 13340
Email: boilersales@isgec.co.in, exports@isgec.co.in

www.isgec.com