



IJT BOILERS

Operations & Maintenance

POWER PLANTS

**Enhance Performance
Maximise Profit**



ENGINEERING FOR EXCELLENCE

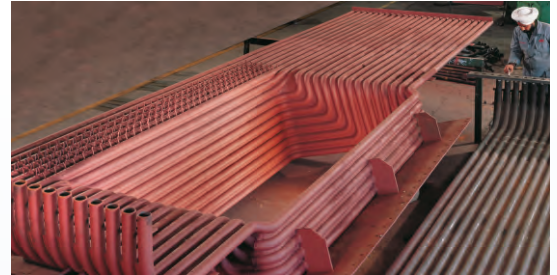
Our Experience 670⁺ Customers across 85⁺ Countries over 5 Decades

Our Services:



EFFICIENCY ENHANCEMENT SOLUTIONS

- Travelling Grate performance improvement through Isgec "I – Grate".
- Replacement of Heat Recovery Units
- Upgradation of Pressure Parts
- Soot Blower Installation
- Installation of HP Heater
- Upgradation of Burner



BOILER AND AUXILIARIES UPGRADATION

- Capacity enhancement
- Modification of Boiler auxiliaries like fans, pumps etc.
- DCS / SCADA implementation
- Control & Instrumentation upgradation
- Air Pollution Control upgradation / modification to meet emission norms
- Steam temperature upgradation
- Installation of external furnace for kiln based boilers



FUEL CONVERSION

- Multiple fuel firing solutions
- Oil/Gas to solid fuel conversion
- Grate Fired to AFBC conversion



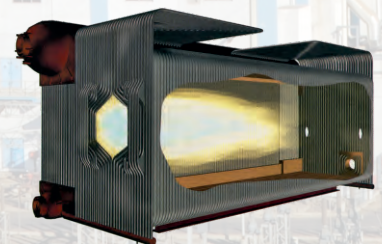
OTHERS

- Residual Life Assessment (RLA)
- Boiler tune up and trouble shooting
- Energy and Steam Audit
- Feasibility study
- Engineering services for piping, electrical and structural works
- Training on various aspects of Boilers



SPARES

- Pressure Parts
- Fuel firing equipment like Stoker, DCF, mechanical spreader, pneumatic spreaders
- Air Pollution Control equipment
- Burners
- Spares for other rotating equipment
- Electrical and instrumentation item spares
- Miscellaneous spares for Piping and IBR fittings, control valves, safety valves, supports, MOVs



<< Services Offered

- Plant Start - up and Commissioning Services
- Operation Management and MIS preparation
- Performance Testing and Condition monitoring of critical equipments
- Plant Maintenance - Preventive, Predictive, Scheduled, Break down & Annual Maintenance
- Chemical Consumable & Spares planning and procurement
- RLA and Condition Monitoring
- Maintenance Planning, Equipment History
- Stores and inventory control
- Energy and Safety Audits
- Periodical performance analysis, review and optimization
- Engineering, Renovation & Modernization (R&M)
- O&M Training and Development
- Housekeeping
- Annual Maintenance Contracts



<< Benefits of Isgec O&M

- Guaranteed availability
- Continuous improvement
- Enhanced plant efficiency
- Fixed O&M cost
- Maintenance Cost optimization
- Extended life of the equipments
- Access to the state-of-the-art technologies
- Flexibility in Plant operation
- Increased operation safety
- Performance improvements through innovation and cross learning
- International Standards of Quality and Services



<< Remote Performance Monitoring System

- Unique facility to monitor power plant operation.
- Links existing DCS anywhere in the globe.
- Provides online solutions to operating team.
- Ensures safe and efficient operation of the systems.
- Dedicated team of experts from engineering, electrical, instrumentation & commissioning to monitor 24 X 7 the parameters of plant.

<< Training

Special training on Simulator. The simulator is a replica of DCS and behaves similar to an actual plant. This training is aimed to upgrade the workforce to handle abnormal conditions.

- Classroom trainings as well as on the job trainings.
- Training at Vashp kutir, the central library, houses hundreds of samples, case studies, procedures, codes and reports gathered from the vast experience of the organization.





Instrumentation Upgradation

Various types of Nozzles



Other 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 / 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
- Trouble Shooting & Services
- Residual Life Assessment (RLA) Studies
- Training
- Spares

EPC PROJECTS

- Independent Power Plants
- Co-Generation Plants
- Sugar Plants

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



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