



*It's not a miracle, it's Engineering.*

# Profile



## SUSTAINABLE SOLUTIONS FOR ENERGY AND ENVIRONMENTAL CONCERNS

Enterprises have always faced the challenge of delivering high quality products and services at competitive rates and yet maintain the Profit margins. The CSR Initiative and Environmental Protection endeavors hold equal importance and more so in the current times.

The Eco-Friendly Technologies harnessed by Isotex offer reliable opportunities to meet these challenges head-on, at the same time maintaining your profit margins, protecting the environment, generating community goodwill by the way of reduced emissions, higher efficiencies, and purer work environment.

## FACTSHEET

- ▶ Established in the year 1978
- ▶ In-house R&D
- ▶ 10 design patents
- ▶ 60000 m2 production area
- ▶ Annual production of  
500 Boilers/Heaters



40+

YEARS OF EXPERIENCE

40+

COUNTRIES

8000+

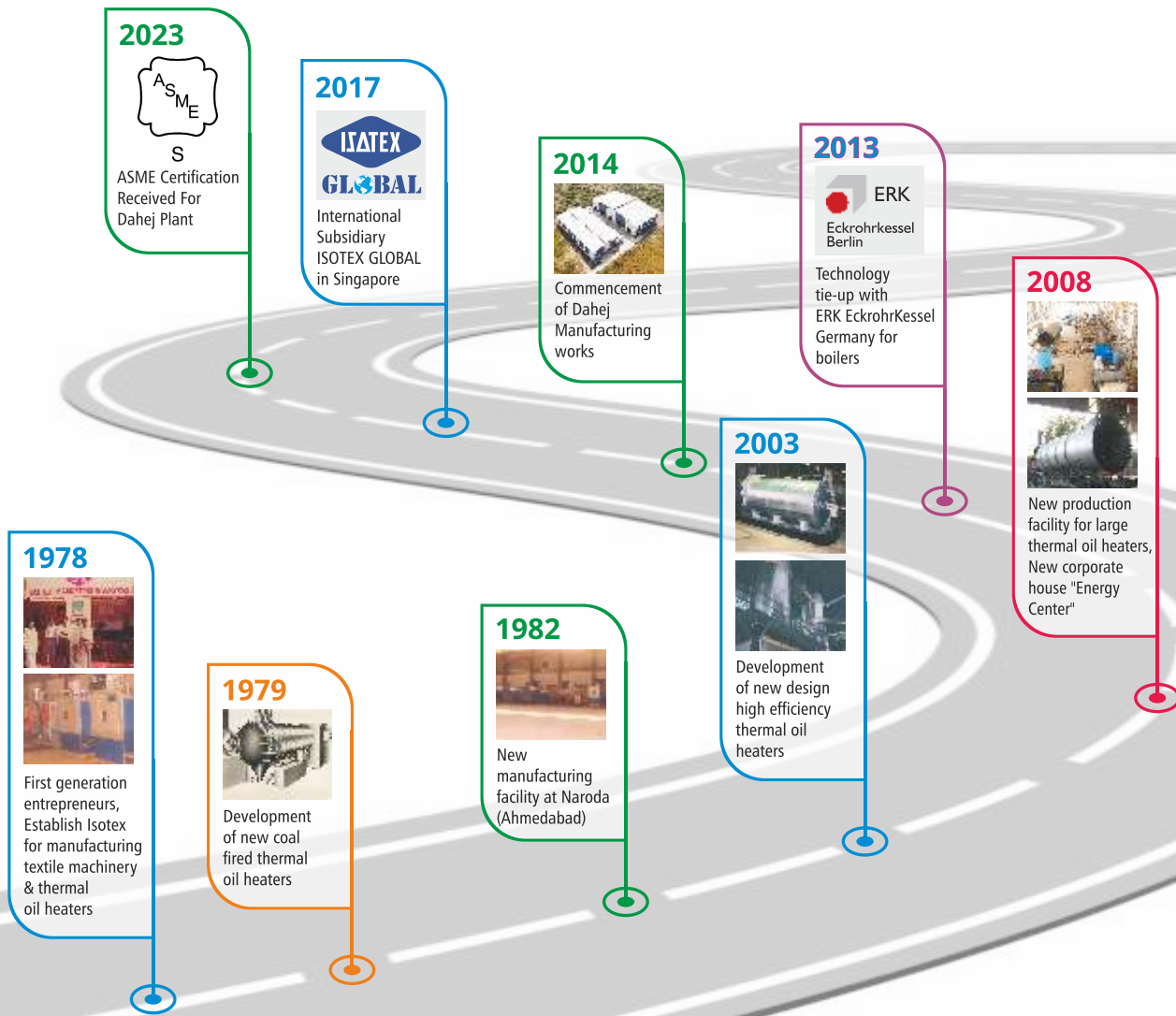
INSTALLATION BASE

# About Us

Isotex is an internationally renowned thermal technology company that produces highly efficient low emission thermal oil heaters, steam boiler plants and combustion systems. The company harnesses its expertise through experience gained from 40 years of operations and 8000 installations throughout the world. As a testimonial to its capabilities, Isotex is repeatedly awarded as India's leading heater and boiler exporter by EEPC India.

With more than 8000 references worldwide, Isotex owns unique engineering know-how and has experience with an extensive fuel spectrum, including biomass and waste materials.

# Milestones



**FUEL EXPERTISE**



**REAL-TIME CAPACITY**



**EEPC INDIA STAR EXPORTER**  
India's leading exporter of boilers & heaters

# Channel Products Group



Modular shop-assembled boiler house

500+

BOILER/HEATERS  
ANNUAL PRODUCTION

150+

STANDARD MODELS

**FIT**  
SERVICE

24 x 7 HELPLINE  
+91 63560 00300



As a leader in heating solutions for last four decades, Isotex has been pioneering innovative solutions for a wide range of industrial heating applications. The company has scripted several innovations to support its clients starting with India's first, lignite fired thermic fluid heater way back in 1978. Today with over 8000 installations across the world, Isotex helps small and medium Industries to reduce energy costs.

On offer are packaged heating systems for process heating. Modular in construction, these are available in standard configurations, custom engineered for specific requirements also offered as turnkey boiler/heater island solutions.

### Customer Benefits

- Advanced boiler systems at affordable prices.
- High thermal efficiency designs.
- Compact and low installations costs.
- Multi fuel fired heating solutions.
- Consultative application engineering to maximize energy utilization and slash fuel cost.
- Assured product quality through state of the art manufacturing facilities, quality management and factory acceptance tests.

### Products for Wide Ranging Industries

- Steam boiler up to 10 TPH, up to 26 bar pressure fired on oil, gas & solid fuel (over 100 types of fossil & biomass)
- Thermal oil heaters up to 30,00,000 Kcal/hr, up to 300°C temperature on oil, gas & solid fuel
- Hot water generators up to 3,00,000 Kcal/hr, up to 170°C temperature on oil, gas & solid fuel
- Hot air generators up to 30,00,000 Kcal/hr & up to 160° temperature
- Engine exhaust driven standard heat recovery boiler modules
- Emission Control System-ESP (Electrostatic precipitator), Bagfilter, Wet scrubber, hurricane dust collector
- Boiler/Heater house accessories-Fuel handling, chimney, feed water tank, water softner, thermal oil valves, Steam Accessories etc.



# Boiler & Heater Project Group





### Customer Benefits

- Tailor made design to individual customer requirements.
- Experienced Project management team.
- Versatile technologies for coal & biomass combustion.

### Heating applications for wide ranging industries

- Packaged boilers, up to 50 TPH capacity, pressure up to 100 bar on oil & gas fuels. (Low CV waste gases)
- Bi drum / single drum solid fuel fired water tube steam boilers up to 50 TPH capacity.
- High pressure boilers for process industries/cogeneration, up to 50 TPH capacity, pressure up to 100 bar on coal & biomass.
- Thermal oil heaters and vaporisers up to 2,50,00,000 Kcal/hr capacity up to 400°C temperature for indirect heating with thermal oil in liquid and vapour phase as heating medium fired on oil, gas & solid fuel (fossil and bio mass).
- Hot water generator up to 2,00,00,000 Kcal/hr capacity and 200°C temperature with fuel as oil, gas & solid fuel (fossil and biomass).
- Hot gas generator up to 2,00,00,000 Kcal/hr capacity and 350°C temperature on coal and biomass.
- Thermosyphon up to 60,00,000 Kcal/hr capacity and 300°C temperature with water as heating medium and using oil, gas, coal and biomass.
- Energy plants providing combined steam, hot gas thermal oil through common source using biomass/fossil fuels.
- Combustion systems : Fluidized bed, Dumping grate, Travelling grate, Reciprocating grate.



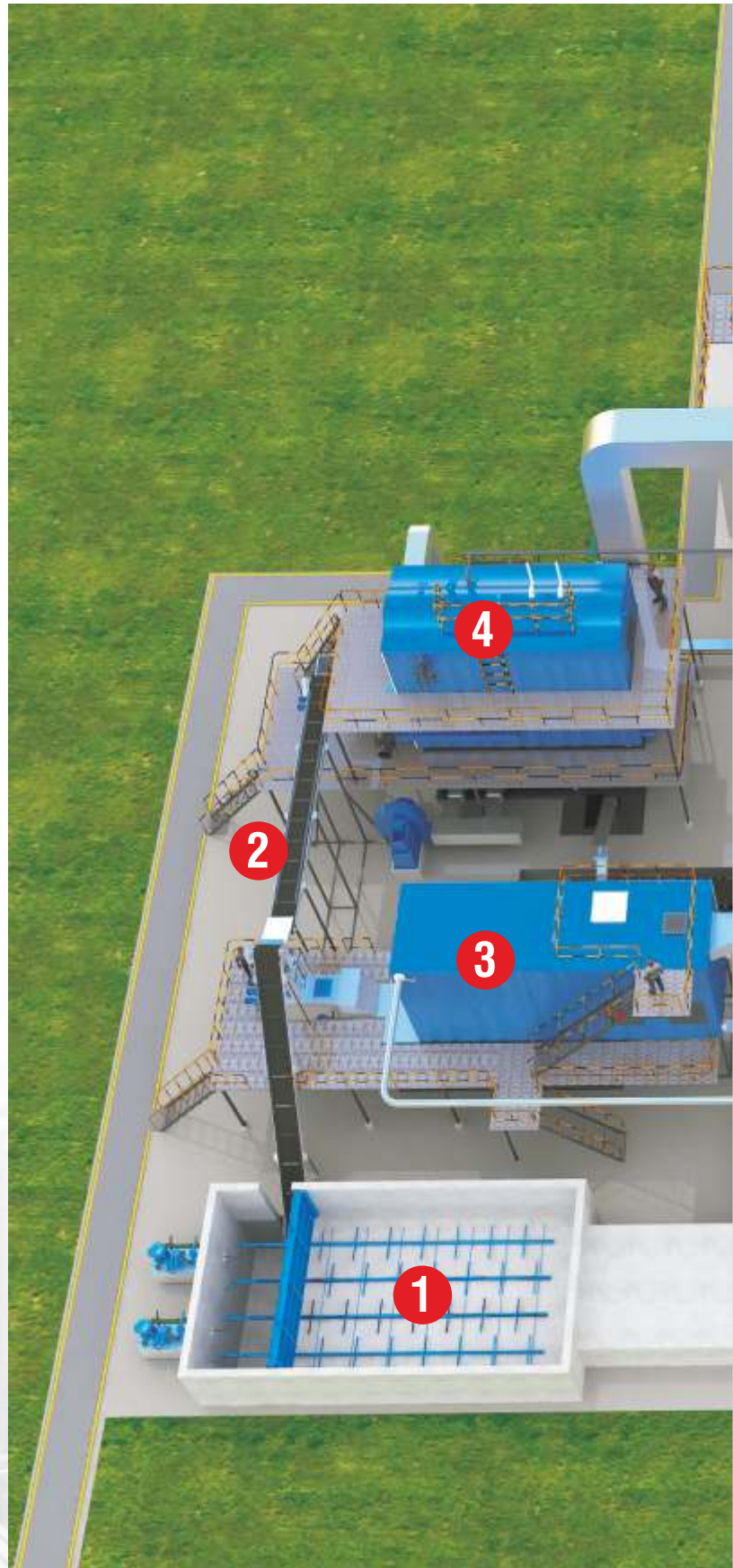
# ENGINEERING PROCUREMENT & CONSTRUCTION TURNKEY PROJECTS

ISOTEX is capable of design, development and Installation of complete heating plant from scratch, start to finish on turnkey basis serving as single source vendor for the customers.

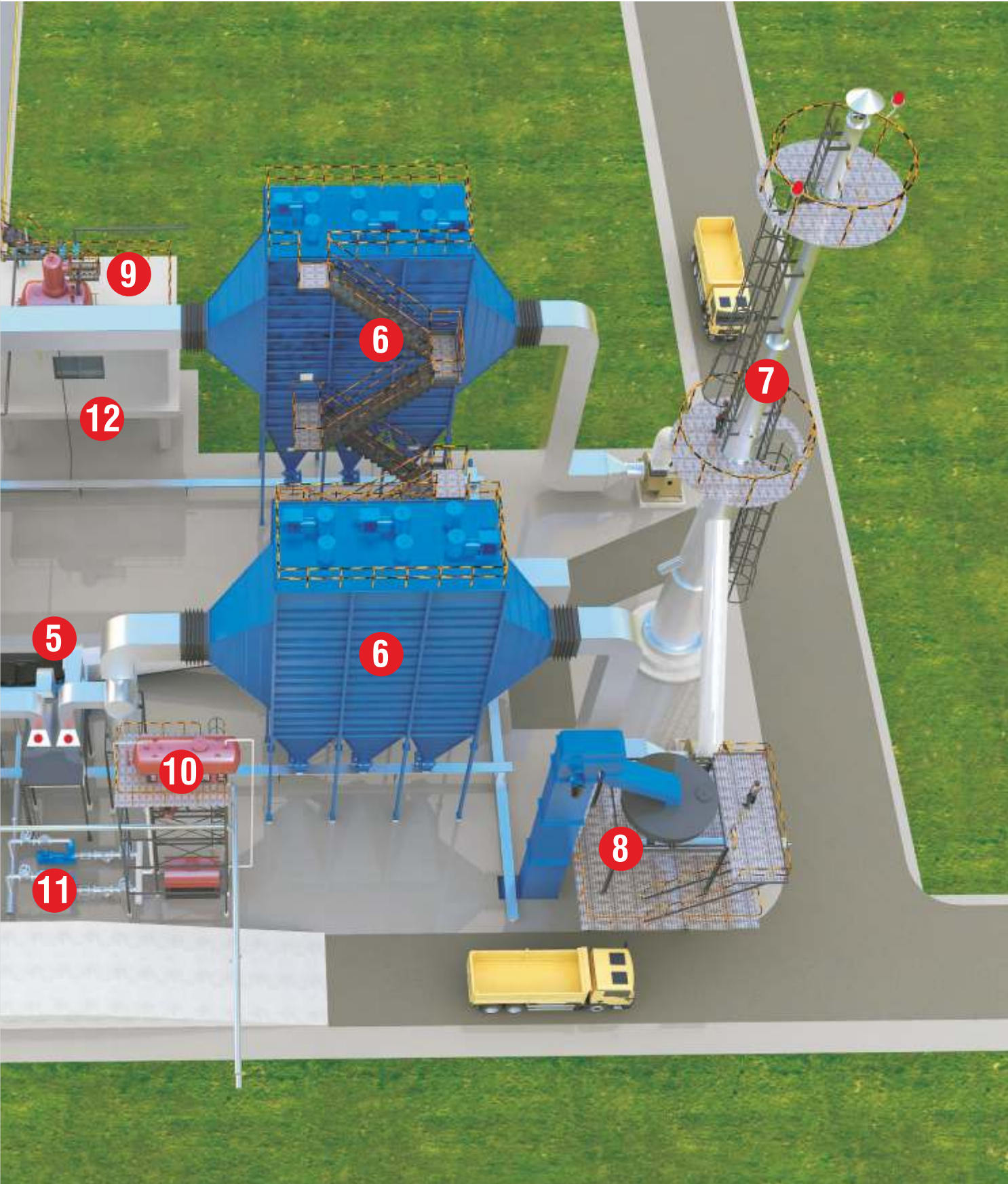
ISOTEX also under takes integrated cogeneration systems. Involving Simultaneous generation of multiple energy sources Viz. power, heating & cooling. ISOTEX cogeneration systems are specially designed to suit each individual application, to cater to its peculiar energy demand pattern.

ISOTEX has executed a number of EPC Boiler and heater plants across the globe. Our expertise in boiler and heater plants that use a variety of fuels along with proven track record and timely execution with world-class safety standards and reliable plant operation post-commissioning, makes us the preferred EPC partner.

- 1 Automatic moving floor fuel handling system
- 2 Fuel conveying and fuel dosing bin
- 3 Packaged high efficient thermal oil heater
- 4 Packaged high efficient steam boiler
- 5 Heat recovery unit
- 6 Pollution control equipment
- 7 Flue gas chimney
- 8 Automatic ash handling system
- 9 Feed water system deaerator tank with feed water pump control system
- 10 Thermal oil expansion tank
- 11 Oil circulation system
- 12 Control room



# TYPICAL BOILER / HEATER ISLAND



# Worldwide References



**COAL FIRED FBC THERMAL OIL HEATING SYSTEM**

- Heating capacity : 10 Mkal/hr
- Operating temperature : 330°C
- Fuel : Indian coal
- Industry : Polyester
- Installation site : Punjab, India



**DOWTHERM HTM HEATER**

- Heating capacity : 7.5 Mkal/hr x 3
- Operating temperature : 335°C
- Fuel : Heavy Oil / Natural gas
- Industry : Polyester
- Installation site : Gujarat, India



**BIOMASS THERMAL OIL HEATING SYSTEM**

- Heating capacity : 4 Mkal/hr
- Operating temperature : 280°C
- Fuel : Biomass, wood-waste
- Industry : Plywood
- Installation site : Punjab, India



**COAL FIRED FBC WATER TUBE STEAM BOILER**

- Steam capacity : 18000 kg/hr
- Pressure : 11.25 kg/cm<sup>2</sup> (g)
- Fuel : coal
- Industry : Chemicals
- Installation site : Gujarat, India



**FUEL OIL FIRED THERMAL OIL HEATER**

- Heating capacity : 3 Mkal/hr
- Operating temperature : 330°C
- Fuel : Heavy Oil / LDO
- Industry : Recycling
- Installation site : UAE



**OIL FIRED STEAM BOILER**

- Steam capacity : 8000 kg/hr
- Pressure : 17.5 kg/cm<sup>2</sup> (g)
- Fuel : Diesel / kerosene
- Industry : Food
- Installation site : Gabon, Africa



**BAGASSE FIRED HIGH PRESSURE THERMOSYPHON**

- Heating capacity : 1 Mkal/hr
- Pressure : 85 kg/cm<sup>2</sup> (g)
- Fuel : bagasse / wood waste
- Industry : Edible oil
- Installation site : Uganda, Africa



**COMPACT BIOMASS SOLID FUEL FIRED STEAM BOILER**

- Steam capacity : 12000 kg/hr
- Pressure : 26 kg/cm<sup>2</sup> (g)
- Fuel : Biomass
- Industry : Edible oil
- Installation site : Kenya, Africa



**FUEL OIL FIRED THERMAL OIL HEATING SYSTEM**

- Heating capacity : 0.7 Mkal/hr x 2
- Operating temperature : 280°C
- Fuel : Diesel
- Industry : bitumen heating
- Installation site : Kuwait



**DIESEL FIRED STEAM BOILER**

- Steam capacity : 2000 kg/hr
- Pressure : 10.54 kg/cm<sup>2</sup> (g)
- Fuel : LDO
- Industry : Hotel
- Installation site : Srilanka



**HEAVY OIL FIRED STEAM BOILER**

- Steam capacity : 9000 kg/hr
- Pressure : 21kg/cm2 (g)
- Fuel : Heavy oil
- Industry : Tyres
- Installation site : Telangana, India



**COAL FIRED HIGH PRESSURE THERMOSYPHON**

- Heating capacity : 1 Mkal/hr & 2 Mkal/hr
- Pressure : 85 kg/cm2 (g)
- Fuel : coal
- Industry : Edible oil
- Installation site : Gujarat, India



**SOLID FUEL FIRED PRESSURIZED HOT WATER GENERATOR**

- Heating capacity : 3 Mkal/hr
- Temperature : 160 °C
- Fuel : coal / briquettes
- Industry : Food
- Installation site : Gujarat, India



**OIL FIRED PRESSURIZED HOT WATER GENERATOR**

- Heating capacity : 0.7 Mkal/hr x 2
- Temperature : 125 °C
- Fuel : Heavy oil / Diesel
- Industry : Tank farm
- Installation site : Tamil Nadu, India



**SOLID FUEL FIRED THERMAL OIL HEATING SYSTEM**

- Heating capacity : 1.5 Mkal/hr x 2
- Operating temperature : 280°C
- Fuel : coal
- Industry : Packaging
- Installation site : Indonesia



**COMPACT COAL / FUEL OIL FIRED STEAM BOILER**

- Steam capacity : 8000 kg/hr
- Pressure : 10.54 kg/cm2 (g)
- Fuel : coal / LDO
- Industry : Food
- Installation site : Myanmar



**GAS FIRED STEAM BOILER**

- Steam capacity : 1000 kg/hr x 2
- Pressure : 10.54 kg/cm2 (g)
- Fuel : Natural Gas
- Industry : Textile
- Installation site : Bangladesh



**FUEL OIL FIRED THERMAL OIL HEATING SYSTEM**

- Heating capacity : 0.3 Mkal/hr x 2
- Operating temperature : 280°C
- Fuel : Gas
- Industry : Oil refinery
- Installation site : Australia



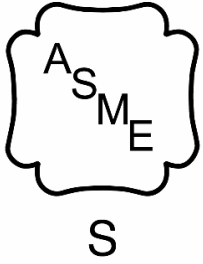
**BIOMASS FIRED THERMAL OIL HEATER SYSTEM**

- Heating capacity : 8 Mkal/hr
- Temperature : 290°C
- Fuel : Plam shell/ Fibre
- Industry : Rubber gloves
- Installation site : Malaysia



**BIOMASS COMPACT STEAM BOILER**

- Steam capacity : 10000 kg/hr
- Pressure : 17.5 kg/cm2 (g)
- Fuel : Coco shell, Palm kernel shell
- Industry : Food
- Installation site : Manila, Philippines



# The American Society of Mechanical Engineers

## CERTIFICATE OF AUTHORIZATION

The named company is authorized by The American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Single Certification Mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with the ASME Single Certification Mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

**ISOTEX CORPORATION PRIVATE LIMITED**  
Plot No. D-2/E-76, GIDC Estate Dahej  
Bharuch, Gujarat 392140  
India

SCOPE:

**Manufacture and assembly of power boilers at the above location and field sites controlled by the above location**

AUTHORIZED: **January 05, 2024**

EXPIRES: **January 05, 2027**

CERTIFICATE NUMBER: **61269**

Board Chair,  
Conformity Assessment



Senior Director,  
Engineering Operations

# Infrastructure

Isotex manufacturing facilities are spread over 4 plants at various locations in Ahmedabad and Dahej.

Measuring total area of over 60,000 sq. mt, the facilities are ISO 9000 accredited. Isotex manufactures to International standards like ASME, BS, DIN and GOST, The facilities are inspected by Lloyds, bureau VERITAS, SGS and TUV, The plants are equipped with specialized machinery for light, medium and heavy fabrication, assembly and metallurgical testing for fired, unfired vessels, heat exchangers, boilers, heaters & pressure vessels.



Ahmedabad Manufacturing



Dahej Manufacturing

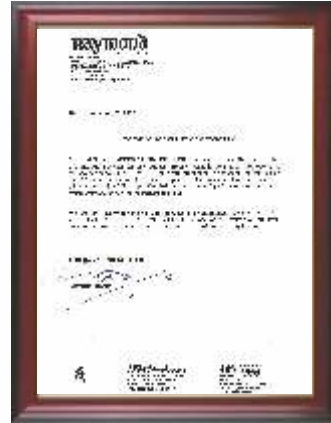


Human Resources: over 200 employees and a skilled workforce of 500 individuals, complemented by a qualified and experienced management team.



Design & Engineering: In-house 3D modeling, CFD analysis, and structural design using software such as ANSYS, SOLIDWORKS, and EPLAN.

# Clientele







...for a future  
of quality

ISOTEX are world-famous specialists in boiler and heater systems of all size and performance classes



**ISOTEX CORPORATION PRIVATE LIMITED**  
**ISOTEX PROJECTS PRIVATE LIMITED**  
**ISOTEX STEAM ENGINEERING PRIVATE LIMITED**

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Opp. Ingersoll Rand, Naroda,  
Ahmedabad-382330. India

📍 **Mfg. Unit - 02**  
Plot No. D-2/E-76,  
Nr. MRF Tyres,  
Dahej-II Industrial Estate,  
Vagra, Bharuch-392130. India