



Isotex at its Best...

Incomparable References



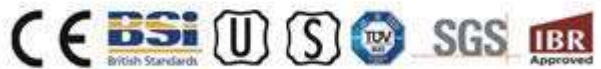
SUSTAINABLE SOLUTIONS FOR ENERGY AND ENVIRONMENTAL CONCERNS

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
- ▶ 50000 sq. yards of well equipped modern production area
- ▶ Annual production of 500 Boilers/Heaters



40+

YEARS OF EXPERIENCE

40+

COUNTRIES

8000+

INSTALLATION BASE

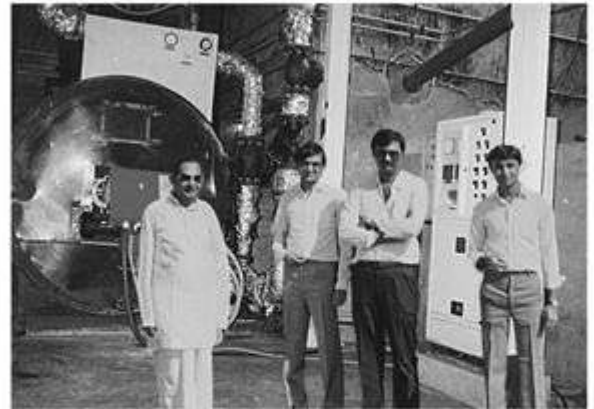
REFERENCE SYSTEMS PROFILE

Since last 4+ decades, Isotex has been catering to the heating demands of the industries all over the world, and, along the way Isotex has installed & commissioned more than 7000 units.

This booklet strives to present the most challenging, demanding and recent 120 such installations of Thermal Oil Heaters and Boilers and showcasing the Engineering Design and Execution Excellence achieved by Isotex in this 40+ years.

Determined to deliver Customer Satisfaction using its technologies, Isotex has been servicing the demands of a wide range of Process Industries spread across the globe. The installations accomplished by Isotex comprise of large Turn-Key Projects on one end and small stand-alone units in a Small-Scale industry at the other end.

In all the cases, Trouble Free Performance, Value for Money, Customer Satisfaction and On Demand Support is the underlining philosophy.



FUEL EXPERTISE

REAL-TIME CAPACITY

EEPC INDIA STAR EXPORTER
INDIA'S LEADING EXPORTER
OF BOILERS & HEATERS

AMUL



Location : Gujarat, India

Demand

High Efficiency Thermic Fluid Heater. EPC Project, starting from civil construction of Boiler House till Chimney.

Kaira District Cooperative Milk Producers Union Ltd., India, is a cooperative body; the parent of the world-famous brand "Amul" comprising Butter, Milk, Chocolates, etc. As a part of its CSR, a Mid-day meal scheme was instituted for municipal schools. The preparation of meals demanded a dependable Thermic Fluid System and Isotex was awarded the assignment based on its Track Record, Credentials, Standing Market feedback etc.

Fulfillment : Automatic High Efficiency, Gas/Diesel Fired Thermic Fluid Heater with Electronic cam Burner

- Supply
- Construction
- Erection
- Fabrication
- Installation
- Piping
- Chimney
- Commissioning

Capacity	1.2 MkCal/Hr
Temperature	280° C
Fuel	Dual Fuel: Diesel, Gas
Combustor	Electronic Cam Burner

CHIRIPAL



Location : Telangana, India

Demand

The requirement was for four Solid Fuel fired TFH Systems.

A loyal and satisfied client of Isotex since 2011, Chiripal Polyfilms Ltd. (India), has been using in total 3 heaters supplied by Isotex and in addition to these two heaters, two more are under supply. Total 7 heaters are in use at the client's end.

Fulfillment : Box Type Packaged Heaters

- ▶ ESP.
- ▶ SCADA based Control system
- ▶ Compartment type fluidized bed

Capacity	3 MkCal / Hr x 4
Temperature	310° C
Fuel	Indonesian coal
Combustor	Fluidized bed with In-Bed Heat Exchanger

CLIENT SAY

Seven Heaters in a span of 10 years vouchsafes the reliability, skill set, performance and design of Isotex Systems.

COFCO



Location : Gujarat, India

Demand

**Client wanted to
changeover to a reliable
Techno-Commercially
viable Solid Fuel fired
High Pressure
Thermosyphon as a
replacement of
oil fired system.**

COFCO, India, wanted a System where local puncture leakage if any would not result in stopping the plant. While others offered Coils with Helical Design, Isotex offered Membrane type Thermosyphon whereby local plugging is possible and meets the client's criteria.

**Fulfillment : Turn-key Coal Fired,
Membrane type thermosyphon**

- ▶ Fuel Handling
- ▶ Ash Handling
- ▶ Pollution Control system – Bag Filter and Wet Scrubber
- ▶ PLC based Control system
- ▶ Erection & Commissioning

Capacity	1.0 MkCal/Hr and 2.0 MkCal/Hr Thermosyphon
Pressure	85.0 kg/cm ² (g)
Fuel	Indonesian coal
Combustor	Fluidized bed with In-Bed Heat Exchanger

DELICIOUS



Location : Myanmar

Demand

**Coal + Diesel fired
Steam Boiler.**

Delicious Food Ltd. (Myanmar) was searching for a new boiler. In the event of non-availability of coal, the boiler would still work and fired on diesel. A Hot Stand-By Solution. While most manufactures suggested to keep a separate Diesel fired boiler as stand by, ISOTEX gave them a optimum solution of coal boiler with back-up burners as option.

Fulfillment : Dual Fuel Steam Boiler consisting of:

- ▶ Moving Grate Combustor
- ▶ Diesel Burners as backup
- ▶ PLC based Control Panel
- ▶ Fuel & ash handling system
- ▶ Air pollution Control System etc.

Steam Capacity	8 TPH
Pressure	10.54 kg/cm ² (g)
Fuel	Coal, Diesel
Combustor	Automatic Grate, Burner

FLEXTECH



Location : Indonesia

Demand

A Wilmar Group of company based in Indonesia was seeking Coal fired Thermic Fluid Heaters that will work with minimum human intervention. Based on their study and evaluation they finally settled on Isotex for Design, Supply and Commissioning of the Coal Fired Thermic Fluid Heater.

CLIENT SAY

Online Hand-holding. It's an unmatched endeavor by Isotex.

Fulfillment : Turn-Key supply of Thermic Fluid Heater complete with Coal and Ash handling systems.

THE CHALLENGES :

The timely Installation & Commissioning was a challenge due to COVID-19 restrictions. Isotex supported the client by mobilizing Service Team for an Online Guidance of Installation & Commissioning. Client was guided Step-by-Step to assemble the various Modules of the System and fascinatingly, the joining/matching of various modules went hitch free and the entire Thermic Fluid Heater was assembled and ready for Commissioning within 3 days. Once BOP was in place, commissioning was carried out and Thermic Fluid Heater operational within 7 days from Start-to-Finish. And all of it Remotely & Online. An unparalleled achievement perhaps on international scale - in the Heating Systems manufacturing Segment.

Capacity	1.5 MkCal/Hr x 2
Temperature	280° C
Fuel	Coal
Combustor	Moving Grate

FPD



Location : Philippines

Demand

A Philippines based world-class producer of juices, dried mangos, and other mango products wanted a high efficiency, low emissions, reliable and easy to maintain fire-tube boiler.

Established in 1972, FPD Food International INC., is a world-leader in mango processing and products

Fulfillment : Packaged Evolution boiler with matched burner.

- ▶ Integral pressurized economizer
- ▶ Integrated Riello modulating burner
- ▶ Industrial 4.0 technology SMARTWIZ HMI based control panel
- ▶ The Evolution features proprietary MACH CFD tubes that increase heat transfer by 80% compared to standard bare tube boilers

Steam Capacity	3.0Tons/Hr
Pressure	10.54 kg/cm ² (g)
Fuel	Bunker oil
Combustor	Riello Burner

CLIENT SAY

I like the Evolution because of its rated efficiency. It is extremely easy to work with, well-made and well-conceived design.

GCACPL



Location : Gujarat, India

Demand

Mega Capacity Fully Automated Coal Boiler Plant : Minimum Human intervention, Maximum Efficiency, Continuous Uninterrupted Operations.

GCACPL, India is one of the world's newest and a most modern plant, producing Specialty Alumina Chemicals.

Fulfillment : A site erected Bi-Drum Boiler with fluidized bed combustion and maximum automation

State of the art fully automated plant consisting of...

- ▶ Dense phase ash handling system
- ▶ Fuel preparation and handling system
- ▶ Water treatment RO plant
- ▶ Online efficiency, emission parameters i.e. SPM, sox, Nox and CO monitoring
- ▶ Three element drum level control system
- ▶ Pollution control electrostatic precipitator system
- ▶ Pressurized deaerator package

Steam Capacity	18 TPH
Pressure	10.54 kg/cm ² (g)
Fuel	Coal
Combustor	Fluidized Bed

JAI MATA



Location : Gujarat, India

Demand

**Installing high efficiency
Heater using low quality wood
waste/Agro waste as fuel.**

Jai Mata Plywood, India, was examining various types of Thermal Oil Heaters for its captive requirements. Their policy was to procure Economical and Technically the best technical solution. After all the study, they ordered Isotex VZ Packaged Heater.

**Fulfillment : Supply of 4.0 MkCal/Hr
Thermic Fluid Heater**

The supply and commissioning consisted of...

Packaged Heater of 4.0 MkCal/Hr capacity
with Reciprocating Grate.

Reciprocating grate consisting of special alloy bars that push the agro waste along the combustion grate carpet as adapted to the actual heater load. The combustion grate is divided in zones (drying, gasification, carbon combustion and burnout), each with separate combustion air supply and speed.

Capacity	4.0 MkCal/Hr
Temperature	280° C
Fuel	Wood waste
Combustor	Reciprocating Grate

JRS



Location : Gujarat, India

Demand

Installing high efficiency boiler that operates reliably for 365 days and deliver Full Steam, 24 X 7 X 365.

JRS Pharma, India evaluated a few other options of Combi-Type boilers before being impressed by and finally settling for Isotex Packaged Water Tube Bi-Drum Boiler.

Fulfillment : Packaged Water Tube Bi-Drum Boiler

State of the art fully automated plant consisting of...

- ▶ The boiler is designed for 365 days continuous operations without any breakdown or downtime for cleaning or maintenance
- ▶ Quick response to load fluctuation
- ▶ High free board height for optimum and maximized Radiant Heat absorption
- ▶ Lower pressure drops in flue gas path, reduced power consumption

Steam Capacity	6000 kg/Hr
Pressure	10.54 kg/cm ² (g)
Fuel	Indonesian coal
Combustor	Fluidized bed with In-Bed Heat Exchanger

CLIENT SAY

It's almost one year, and we haven't stopped the boiler for any cleaning or maintenance, its simply amazing.

MILLENIUM



Location : Philippines

Demand

Replacing multiple Small Boilers with a Fully Automated one large capacity boiler.

Millennium Specialty Coco Products Inc. (Philippines) was dependent on multiple small boilers for its production and facing frequent requirements of servicing, breakdowns, down-time etc.

Fulfillment : Automatic Package Biomass Boiler

Designed for maximum performance with minimal human intervention, the State-of-Art Automated plant consist of...

- Biomass fired steam boiler
- Reciprocating grate
- PLC based Control Panel
- Air Pollution Control system etc.

Steam Capacity	10 TPH
Pressure	17.5 kg/cm2 (g)
Fuel	Coco Shell, Palm Kernel Shell, Biomass
Combustor	Reciprocating Grate

CLIENT SAY

The performance of the unit is satisfactory and as per the commitments made to us. We are happy for their quality and commitments towards after sales and service.



ENGINEERING, PROCUREMENT & CONSTRUCTION TURNKEY PROJECTS

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

Isotex also undertakes 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.



Isotex at its Best...



NANDOLIA



Location : Gujarat, India

Demand
Installing high efficiency TFH.

Nondolia Organic Chemical, India is a very discerning client. They have evaluated and installed almost all the makes of heaters and boilers for their use within their premises. It is a challenge to ensure their satisfaction as they have tried and tested so many different systems.

Fulfillment : Isotex VZ Packaged Heater

State of the art fully automated plant consisting of...

- High Efficiency
- In-Bed Thermal Oil Heat Exchanger

Steam Capacity	6 MkCal/Hr
Temperature	280° C
Fuel	Coal
Combustor	Fluidized bed with In-Bed Heat Exchanger

NK PROTEINS



Location : Gujarat, India

Demand

Client was interested in a reliable Techno-Commercially viable Solid Fuel fired High Pressure Thermosyphon as a replacement of oil fired system.

A loyal and satisfied client of Isotex since 1990, NK Proteins, India finally opted for Isotex Thermosyphon.

Fulfillment : De-Oiled Cake fired High Pressure Thermosyphon

- ▶ Tube-Tube/Membrane Tube design based.
- ▶ Ease of Tube replacement without having to replace complete heater Coil
- ▶ USP: TEMPERATURE ACCURACY AND PROFILE COMPARABLE TO OIL FIRED HEATER

Capacity	1.2 MkCal/Hr
Pressure	80.0 kg/cm ² (g)
Fuel	De-Oiled Cake
Combustor	Fluidized bed with In-Bed Heat Exchanger

CLIENT SAY

We generated saving of Rs.14 Million/annum in comparison to oil fired system.

PALAK



Location : Gujarat, India

Demand

A Morbi, India based Paper Mill wanted a proven Boiler with the condition that the project should be commissioned within 6 months from ordering.

A Coal fired fluidized bed boiler of 20 TPH, generating medium pressure steam to drive a steam back pressure turbine of 400 KWE which partially takes care of electric power requirement of plant. After all the deliberations, the client decided to go in for Isotex Ecobloc fully packaged FBC boiler.

Fulfillment : A packaged FBC boiler with minimum site work.

- ▶ The boiler is design to respond to changes and adapts well to variations in the cycle loads of paper machines
- ▶ Ecobloc CS-IF packaged FBC boiler operates at 87% efficiency, which is 4-5% higher than other industrial boilers

Steam Capacity	2000 kg/Hr
Pressure	20.0 kg/cm ² (g) superheated steam
Fuel	Indonesian coal
Combustor	Fluidized bed with In-Bed Heat Exchanger

CLIENT SAY

This is one of the smoothest running fluidized bed boiler that I have seen.

PARSHWNATH



Location : Gujarat, India

Demand

Installing high efficiency reliable boiler.

Parshwnath Dyechem Industries Pvt. Ltd. India, wanted a Bi-Drum Boiler of 8 TPH. As per the trade practices and norms, 8 TPH is too small to be configured as Bi-Drum.

Fulfillment : Isotex took up the challenge and supplied Packaged Water Tube Bi-Drum Boiler

The supplies consisted of...

- ▶ Bi-Drum Water Tube Boiler
- ▶ Underbed Fuel feeding
- ▶ SCADA based Control system etc.
- ▶ Compartment - Type design

Steam Capacity	8 TPH
Pressure	10.54 kg/cm ² (g)
Fuel	Coal
Combustor	Fluidized bed with Under-Bed feeding

**CLIENT
SAY**

The fuel consumption and performance of unit is found satisfactory and as per commitment made to us. We are very happy for their quality product and commitment towards after sales service. Isotex is one of our very few preferred vendors and we wish them to flourish boiler for any widening their custom base day by day.

RIL



Location : Gujarat, India

Demand

Reliance Industries Ltd, Hoshiarpur, India wanted to replace Heavy Oil-fired multiple heaters with Pet-Coke fired TFH. Caveat, No downtime, no temperature fluctuation, ease of operations.

Requirement :
Designing & Commissioning of 7.5MkCal/Hr Pet-Coke fired TFH.

All the specifications and norms specified by client were proven during the hand-over including Emissions, Fuel Consumption, Temperature Accuracy

CLIENT SAY

M/s Isotex has supplied us one 7.5 MkCal/Hr Pet coke based Thermic Fluid heater (Model VVT-HF-7500 SPL) designed for 330° C temperature for our PSF Plant of 270 TPD. The fuel consumption and performance of unit is satisfactory and as per commitment made to us. All technical queries and spares related issues are being resolved by M/s Isotex. We are satisfied with the product and after sales service provided by M/s Isotex.

Fulfilment : Turn-Key Assignment consisting of

Pet-Coke fired TFH consisting of :

- ▶ Solid Fuel Fired 5-Pass Thermal Oil Heater
- ▶ Fuel Handling System, Thermal Oil Circulation Pumps
- ▶ Waste Heat Recovery Boiler, Ash Handling System, MCC
- ▶ Automated Control Station with Control Panel & Systems PLC, HMI etc.
- ▶ Interfaced with SCADA, Air Pollution Control Equipment, Fume Stack and accessories, Piping Design, Erection & Commissioning of the entire plant

Capacity	7.5.0 MkCal/Hr
Temperature	330° C
Fuel	Pet-Coke, Indonesian coal
Combustor	Fluidized bed
Flow	525 m3/Hr

SPINNMAX



Location : Telangana

Demand

Installing high efficiency Boiler fired on Heavy Oil with microprocessor-controlled burner and assured output.

Spinnmax Tyres Pvt. Ltd., Telangana had to replace its existing boiler supplied by one of the leading India manufacturers as the boiler delivered only 50% output. With Isotex's track record and market standing, Spinnmax ultimately selected Isotex for its requirements.

Fulfillment : Fully Automatic Operation

The supplies consisted of :

- ▶ Single element drum level control system, Steam flow meter, Water flow meter
- ▶ Boiler with Riello make Heavy Oil-fired burner
- ▶ PLC based Control system etc.

Steam Capacity	9 TPH
Pressure	21kg/cm ² (g)
Fuel	Furnace Oil
Combustor	Riello Dual bloc

SRF



Location : Dahej, India

Demand **Designing, &** **Commissioning of** **11.0 MkCal/Hr TFH.**

A Pet-Coke/Indonesian
Coal fired Thermic
Fluid Heater.

Fulfillment :

Having used 8.0 MkCal/Hr TFH of Isotex, SRF, India, opted once again for Isotex for their requirement of 11.0 MkCal/Hr TFH. Designed for maximum performance with minimal human intervention, the State-of-Art Fully Automated Plant consists of the Heart of the System, Isotex' proven Solid Fuel Fired 5-Pass Thermal Oil Heater, Thermal Oil Circulation Pumps, Waste Heat Recovery Boiler, MCC, Automated Control Station with Control Panel & Systems, PLC, HMI etc. interfaced with SCADA including Design, Engineering, Manufacturing, Supply, Commissioning of the entire plant.

With this System, Isotex has proven itself to be the only Designer, Manufacturer and Supplier of Solid fuel fired High Temperature Thermal Oil Heaters Globally.

Capacity	11.0 MkCal/Hr
Temperature	330° C
Fuel	Pet-Coke, Indonesian coal
Combustor	Fluidized bed

VARDHAMAN



Location : Budhni, India

Demand

High efficiency coal fired twin TFH of 2.5 MkCal/Hr capacity with lowest possible emissions.

Vardhaman Fabric Ltd, Budhni, India. A happy and satisfied customer of Isotex. Having used already 2 nos of 2.5 MkCal/Hr, Vardhaman naturally selected Isotex for additional requirements.

Fulfillment : Isotex Box Type Packaged Heater

**The entire project - Turnkey - included :
Packaged Heaters x 2 with...**

- ▶ Electrostatic precipitator
- ▶ Structure supported pre-cast RCC Chimney
- ▶ SCADA based controlling system
- ▶ Commissioning

Steam Capacity	2.5 MkCal/Hr X 2
Temperature	280° C
Fuel	Coal
Combustor	Fluidized bed

PWANI



Location : Kenya

Demand

Installing high efficiency Thermosyphon + Boiler fired on wood containing 60% moisture and coal as backup.

Pwani Oil Products, Kenya had bad experience with system supplied by one of the leading India manufacturers and thus opted for Isotex based on its track record.

Fulfilment : Isotex took up the challenge and supplied complete Boiler Island covering everything as Factory supply and only assembly at site.

The supplies consisted of :

- Boiler with Reciprocating Grate, Refractory, Ducting, Structures, Cabling etc.
- PLC based Control system etc.

Capacity	2 MkCal / Hr Thermosyphon
Temperature	85.0 kg / cm ² (g)
Fuel	Wood chips/Biomass
Combustor	Reciprocating grate
Capacity	12 TPH Boiler
Temperature	26 kg/cm ² (g)
Fuel	Wood chips/Biomass
Combustor	Reciprocating grate

SANATHAN



Location : Gujarat, India

Demand

Sanathan Textile Limited, Gujarat, India wanted to Heavy Oil /Natural gas fired multiple HTM heaters with high efficiency. Caveat, No downtime, no temperature fluctuation, ease of operations.

Requirement :
Designing & Commissioning of 7.5 MkCal/Hr x 3 Heavy oil-fired/Natural gas fired HTM heaters.

Fulfillment : Automatic high efficiency heavy oil fired HTM heaters with Imported electronic burner.

The supply and commissioning consisting of...

- ▶ High efficiency special design HTM heaters
- ▶ High temperature API circulation pumps
- ▶ European Air atomized burner with electronic burner management system
- ▶ SCADA Based control systems

Steam Capacity	7.5.0 MkCal/Hr x 3
Temperature	350° C Therminol VP1
Fuel	Heavy oil / Natural gas
Combustor	Dual fuel electronic cam burner

CLIENT SAY

M/s isotex has supplied us one 7.5 MkCal/Hr x 3 heavy oil fired HTM heaters - designed for 350° C temperature for our poly Plant. The fuel consumption and performance of unit is satisfactory and as per commitment made to us. We are satisfied with the product and after sales service provided by M/s Isotex.



CLIENTELE





...for a future
of quality

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



ISOTEX CORPORATION PVT LTD
ISOTEX GLOBAL PTE LTD
ISOTEX PROJECTS PVT LTD

sales@isotexcorp.com www.isotexcorp.com

Head Marketing Office
"Energy Center" 178/1/C,
GIDC Naroda,
Ahmedabad-382330

Overseas Office
30, Cecil Street,
#19-08 Prudential Tower,
Singapore (049712)

**Ahmedabad
Manufacturing**
178/1/C GIDC Naroda,
Ahmedabad-382330

Dahej Manufacturing
Plot No. D-2/e-76,
Dahej Industrial Area,
Dahej-392130